

PRODUCT SPECIFICATIONS

LED Light Engine Consistent fixture to fixture color consistency within a 2-step MacAdam ellipse • 2700K, 3000K, 3500K, or 4000K color temperatures are available with 80 CRI minimum • 2700K and 3000K also available with 90 CRI minimum.

Modular Optics 50° cutoff to source and source image • Available with field interchangeable optics in 18° Spot, 24° Narrow Flood, 35° Flood, and 45° wide flood distributions • Additional distributions of 20°, 30°, 50° and 55° FWHM can be achieved with the use of the diffusing films and spot primary optic.

Trims Style Self Flanged and Flangeless styles are available
 • Flangeless is compatible with gypsum or solid ceiling materials such as wood, stone, or tile.

LED Driver Choice of two drivers to accommodate voltages from 120-277 volts AC at 50/60Hz • Compatible with most incandescent and electronic low voltage dimmers or 0-10V dimmers • For a list of compatible dimmers, refer to [ACLXLED2-DIM](#) • Power Factor > 0.9 • Field replaceable from above or below ceiling.

Life Rated for 50,000 hrs at 70% lumen maintenance.

Codes/Labels UL and cUL listed for damp locations. Wet location listed with WET option • ICAT rated new construction fixture meets energy code Air Leakage requirements per ASTM E283 • ENERGY STAR® Certified with select color temperatures and trims • ICAT rated luminaires with 3000K, 90 CRI light engine are certified to high efficacy requirements of California T24 with select trims • ICAT rated new construction luminaire is Chicago Plenum (CCEA) approved • ICAT housings are rated for direct contact with insulation, including spray foam insulation with R-Value of 3.7 per inch or less • Union made.

New Construction Mounting Features patented (US Patent 8,038,113) Pro-VI™ bar hanger system, permitting quick placement of housing with 24" on-center joists or suspended ceilings • ICAT rated new construction luminaire also features vertically adjustable mounting brackets (butterfly brackets) • Centerline indicators on plaster frame and patented (US Patent 8,277,090) Tru-Line™ Platform featuring +/- 1/2" translation aids fixture alignment after installation, prior to drywall.



**2" LED RECESSED
 DOWNLIGHT
 800/1200 LUMEN
 ROUND APERTURE
 NEW CONSTRUCTION
 AX2 D**



AX2 D ICAT



AX2 D

Wiring ICAT housing includes (2) 1/2" knockouts in access plate, and is compatible with rigid conduit and flexible supply • Non-IC housings include (2) 1/2" knockouts with pryout slots in junction box and are compatible with flexible electrical supply only • All housings supplied with quick connect electrical connectors.

Ceiling Thickness 1/2" – 1 1/2" ceiling

Warranty 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

NOTE: Actual performance may differ as a result of end-user environment and application.
 All values are design or typical values, measured under laboratory conditions at 25°C.
 Specifications subject to change without notice.

ORDERING INFORMATION

Example: AX2 D 08LM 30K 80CRI 24D FPC 120

Series / Housing Style	Lumens	CCT	CRI	Beam	Driver	Voltage ¹	Options
AX2 D New Construction Downlight	08LM 800 Lumens	27K 2700K	80CRI	18D 18° beam	FPC Phase cut dimming, 5% dim	120	CP Chicago Plenum
	12LM 1200 Lumens	30K 3000K	90CRI	24D 24° beam	ZT 0-10V Dimming, 10% dim		ICAT IC, Air-Tight
		35K 3500K		35D 35° beam		MVOLT (120-277)	NLIGHT ² nLight dimming pack controls
		40K 4000K		45D 45° beam			

Trim Style	Reflector Finish	Flange Style / Finish	Environment	Ceiling Installation
<i>DOWNLIGHT</i>	BD³ Black Diffuse	<i>SELF FLANGED</i>	WET Wet location	<i>SELF-FLANGED / FLANGELESS WOOD/STONE/TILE</i>
2DP Parabolic Downlight	BS⁴ Black Specular	SF⁴ Flange is same finish as reflector		———— Ceiling ≤ .75"
2DH Hyperbolic Downlight	CD⁴ Clear Diffuse	WHSF White painted flange		CTA2/120 Ceiling 0.75" - 1.20"
2DBV Downlight Bevel	CS⁴ Clear Specular	BLSF³ Black painted flange		CTA2/150 Ceiling 1.20" - 1.50"
2DPIN Downlight Pinhole, 1 1/4"	W⁴ White Paint	<i>FLANGELESS⁵</i>		<i>FLANGELESS, GYPSUM</i>
	WTD⁴ Wheat Diffuse	FM⁴ Flangeless		FMA2/075 Ceiling ≤ .75"
		WHFM³ Flangeless, White trim		FMA2/120 Ceiling 0.75" - 1.20"
		BLFM³ Flangeless, Black trim		FMA2/150 Ceiling 1.20" - 1.50"

Ordering Notes

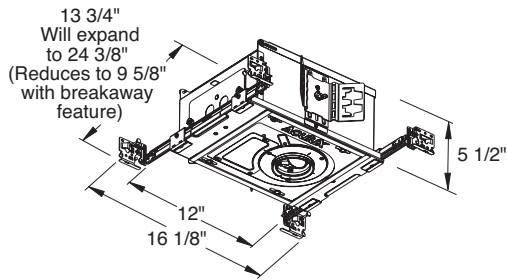
¹ MVOLT standard on ZT. 120 standard on FPC
² NLIGHT compatible with ZT only
³ Available only on 2DPIN, 2DBV only
⁴ Available on 2DP, 2DH only
⁵ Flangeless trims in drywall ceilings must specify ceiling installation (FMA2)

2" LED RECESSED DOWNLIGHT 800/1200 LUMEN ROUND APERTURE NEW CONSTRUCTION AX2 D

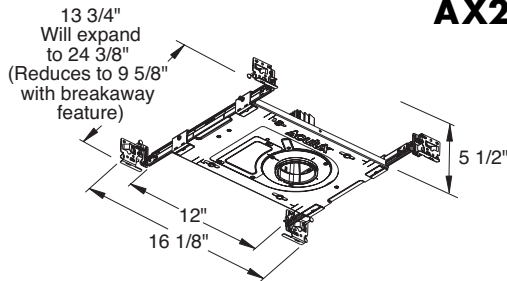
DIMENSIONS

NEW CONSTRUCTION

AX2 D ICAT



AX2 D



Trim Style	Cutout Size
Self Flanged Trims	2-7/8"
Flangeless Trims (Solid Ceiling)	2-7/8"
Flangeless Trims (Drywall Ceiling)	3"

Note: An accurate hole saw is recommended for best results

ACCESSORIES

Cat. #	Description
2AXOPT/18D	18° Spot Optic
2AXOPT/24D	24° Narrow Flood Optic
2AXOPT/35D	35° Flood Optic
2AXOPT/45D	45° Wide Flood Optic
AF2/10	10° Film (Use with Spot Optic)
AF2/20	20° Film (Use with Spot Optic)
AF2/40	40° Film (Use with Spot Optic)
AF2/50	50° Film (Use with Spot Optic)
AF2/90x1	90°x1° Film (Use with Spot Optic)
HB1	(2) Real Nail 3 Bar Hangers
HB26	(2) 26" C-Channel Bar Hangers
HB50	(2) 50" C-Channel Bar Hangers
LB27	(2) 27" Linear Bar Hangers
EMI20	20W Emergency Lighting Inverter

To order, specify catalog number.

DIFFUSING FILMS

To achieve the desired beam angle (FWHM), specify the following primary LED optic on the luminaire and order the diffusing film from the table below

Desired FWHM	Primary Optic	Film
18°	18D	-
20°	18D	AF2/10
24°	24D	-
30°	18D	AF2/20
35°	35D	-
45°	45D	-
50°	18D	AF2/40
55°	18D	AF2/50
60°x20°	18D	AF2/90x1

ELECTRICAL DATA

Lumen Package	08LM			12LM		
	FPC	ZT		FPC	ZT	
Voltage	120	120	277	120	120	277
Input Power	10.1	9.6	9.6	14.8	14.8	14.6
Input Current	0.09	0.08	0.04	0.12	0.12	0.06
Frequency	50/60Hz	50/60Hz		50/60Hz	50/60Hz	
Power Factor	0.99	0.99	0.93	0.99	0.99	0.95

2" LED RECESSED DOWNLIGHT 800/1200 LUMEN

ROUND APERTURE NEW CONSTRUCTION AX2 D

TRIM SELECTION

DOWNLIGHT TRIMS

2DP Parabolic Downlight Trim



Self-Flanged



Aperture: 2 1/4"



Flangeless



CCT/CRI:	80CRI 27K, 30K, 35K, 40K
Optic:	18D, 24D, 35D, 45D
Trim Finish:	CS, CD, WTD, W



Construction:	ICAT
CCT/CRI:	90CRI, 30K
Optic:	18D, 24D, 35D, 45D
Trim Finish:	CS, CD, WTD, W

2DH Hyperbolic Downlight Trim



Self-Flanged



Aperture: 2 1/4"



Flangeless



CCT/CRI:	80CRI 27K, 30K, 35K, 40K
Optic:	18D, 24D, 35D, 45D
Trim Finish:	CS, CD, WTD, W



Construction:	ICAT
CCT/CRI:	90CRI, 30K
Optic:	18D, 24D, 35D, 45D
Trim Finish:	CS, CD, WTD, W

2DBV Downlight Bevel



Self-Flanged



Aperture: 1 3/8"



Flangeless



CCT/CRI:	80CRI 27K, 30K, 35K, 40K
Optic:	18D, 24D, 35D
Trim Finish:	BD BLFM/BLSF, BD WHFM/WHSF

2DPIN Downlight Pinhole



Self-Flanged



Aperture: 1 1/4"



Flangeless



* With WET option

2" LED RECESSED DOWNLIGHT 800/1200 LUMEN ROUND DOWNLIGHT BEVEL NEW CONSTRUCTION 2DBV Trim

2DBV Downlight Bevel



Self-Flanged



Flangeless



PHOTOMETRICS

SPOT

PHOTOMETRIC REPORT

Test Report #: PT02140112

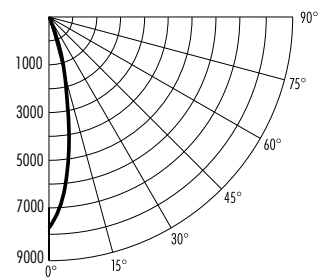
Catalog No: AX2 D 12LM 30K

80CRI 18D FPC 120

2DBV BD

Luminaire Spacing Criterion: 0.32

Luminaire LPW: 67



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	7843
5	6604
15	1323
25	133
35	11
45	0
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	72	67	63
5.0'	46	43	40
6.0'	32	30	28
7.0'	26	24	23
8.0'	20	19	18
9.0'	16	14	14
10.0'	11	11	10

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	995	99.0
0-40°	1004	99.9
0-60°	1005	100.0
0-90°	1005	100.0

INITIAL FOOTCANDLES

(One Unit, 15.1W, 18.4° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	217.9	1.9'
8	122.5	2.6'
10	78.4	3.2'
12	54.5	3.9'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	154
55	47
65	64
75	0
85	0

NARROW FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02140108

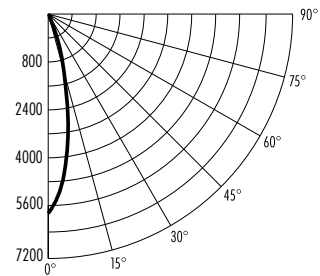
Catalog No: AX2 D 12LM 30K

80CRI 24D FPC 120

2DBV BD

Luminaire Spacing Criterion: 0.36

Luminaire LPW: 61



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	5812
5	4866
15	1396
25	200
35	19
45	3
55	1
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	65	60	56
5.0'	42	38	36
6.0'	29	27	25
7.0'	23	22	20
8.0'	19	17	16
9.0'	14	13	12
10.0'	10	10	9

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	904	98.0
0-40°	918	99.6
0-60°	921	99.9
0-90°	922	100.0

INITIAL FOOTCANDLES

(One Unit, 15.1W, 20.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	161.4	2.1'
8	90.8	2.9'
10	58.1	3.6'
12	40.4	4.3'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	845
55	332
65	321
75	315
85	312

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2" LED RECESSED DOWNLIGHT 800/1200 LUMEN

ROUND DOWNLIGHT BEVEL NEW CONSTRUCTION 2DBV Trim (continued)

2DBV Downlight Bevel



Self-Flanged



Flangeless



PHOTOMETRICS

FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02140104

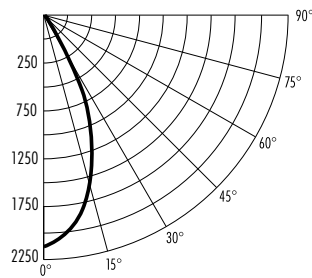
Catalog No: AX2 D 12LM 30K

80CRI 35D FPC 120

2DBV BD

Luminaire Spacing Criterion: 0.68

Luminaire LPW: 61



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2194
5	2171
15	1985
25	491
35	53
45	3
55	1
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	65	59	53
5.0'	42	37	34
6.0'	29	26	24
7.0'	23	21	19
8.0'	18	17	15
9.0'	14	13	12
10.0'	10	9	9

INITIAL FOOTCANDLES

(One Unit, 15.1W, 39.8° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	60.9	4.3'
8	34.3	5.8'
10	21.9	7.2'
12	15.2	8.7'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	882	95.1
0-40°	921	99.5
0-60°	927	99.9
0-90°	927	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	999
55	332
65	257
75	210
85	0

WIDE FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02140116

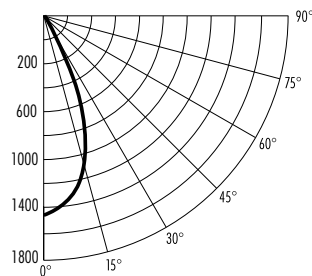
Catalog No: AX2 D 12LM 30K

80CRI 45D FPC 120

2DBV BD

Luminaire Spacing Criterion: 0.74

Luminaire LPW: 47



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1456
5	1410
15	1168
25	382
35	91
45	3
55	1
65	1
75	1
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	50	45	41
5.0'	32	29	26
6.0'	22	20	18
7.0'	18	16	15
8.0'	14	13	12
9.0'	11	10	9
10.0'	8	7	6

INITIAL FOOTCANDLES

(One Unit, 15.1W, 42.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	40.4	4.7'
8	22.8	6.3'
10	14.6	7.8'
12	10.1	9.4'

ZONAL LUMEN SUMMARY

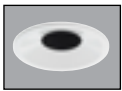
Zone	Lumens	%Fixture
0-30°	646	90.5
0-40°	705	98.9
0-60°	712	99.8
0-90°	714	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	845
55	568
65	514
75	525
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2DBV Downlight Bevel



Self-Flanged



Flangeless



2" LED RECESSED DOWNLIGHT 800/1200 LUMEN

ROUND DOWNLIGHT BEVEL NEW CONSTRUCTION 2DBV Trim with WET option

PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report #: PT02140111

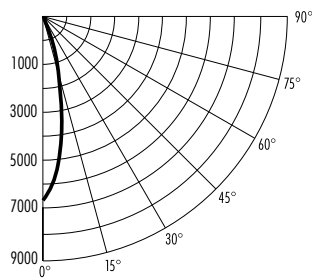
Catalog No: AX2 D 12LM 30K

80CRI 18D FPC 120

2DBV BD WET

Luminaire Spacing Criterion: 0.32

Luminaire LPW: 60



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
Vertical	0°
0	6799
5	5646
15	1218
25	133
35	13
45	3
55	1
65	1
75	1
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	64	59	56
5.0'	41	38	36
6.0'	29	26	25
7.0'	23	21	20
8.0'	18	17	16
9.0'	14	13	12
10.0'	10	9	9

INITIAL FOOTCANDLES

(One Unit, 15.1W, 18.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	188.9	2.0'
8	106.2	2.6'
10	68.0	3.3'
12	47.2	3.9'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	845
55	521
65	514
75	525
85	0

NARROW FLOOD PHOTOMETRIC REPORT

Test Report #: PT02140107

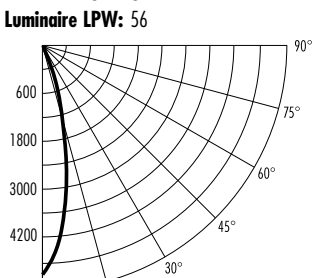
Catalog No: AX2 D 12LM 30K

80CRI 24D FPC 120

2DBV BD WET

Luminaire Spacing Criterion: 0.36

Luminaire LPW: 56



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
Vertical	0°
0	5033
5	4243
15	1287
25	194
35	21
45	3
55	1
65	1
75	1
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	59	55	51
5.0'	38	35	33
6.0'	26	24	23
7.0'	21	20	18
8.0'	17	16	15
9.0'	13	12	11
10.0'	10	9	8

INITIAL FOOTCANDLES

(One Unit, 15.1W, 20.8° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	139.8	2.2'
8	78.6	2.9'
10	50.3	3.7'
12	35.0	4.4'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	1076
55	521
65	514
75	525
85	312

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2" LED RECESSED DOWNLIGHT 800/1200 LUMEN

ROUND DOWNLIGHT BEVEL NEW CONSTRUCTION 2DBV Trim with WET option (continued)

2DBV Downlight Bevel



Self-Flanged



Flangeless



PHOTOMETRICS

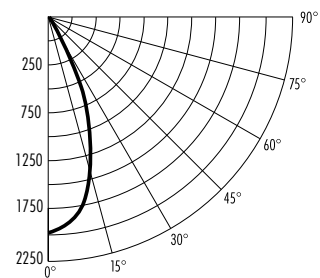
FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02140103
Catalog No: AX2 D 12LM 30K
80CRI 35D FPC 120
2DBV BD WET

Luminaire Spacing Criterion: 0.66

Luminaire LPW: 56



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1989
5	1951
15	1446
25	474
35	58
45	5
55	1
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	59	54	49
5.0'	38	34	31
6.0'	26	24	22
7.0'	21	19	18
8.0'	17	15	14
9.0'	13	12	11
10.0'	10	9	8

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	798	94.0
0-40°	842	99.1
0-60°	848	99.9
0-90°	849	100.0

INITIAL FOOTCANDLES

(One Unit, 15.1W, 39.5° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	55.3	4.3'
8	31.1	5.7'
10	19.9	7.2'
12	13.8	8.6'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	1575
55	521
65	450
75	315
85	0

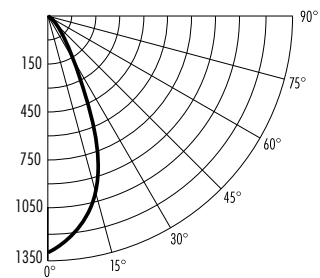
WIDE FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02140115
Catalog No: AX2 D 12LM 30K
80CRI 45D FPC 120
2DBV BD WET

Luminaire Spacing Criterion: 0.72

Luminaire LPW: 43



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1303
5	1267
15	1041
25	377
35	86
45	8
55	2
65	1
75	1
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	46	41	37
5.0'	29	26	24
6.0'	20	18	16
7.0'	16	15	13
8.0'	13	12	10
9.0'	10	9	8
10.0'	7	7	6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	584	89.5
0-40°	640	98.1
0-60°	651	99.7
0-90°	653	100.0

INITIAL FOOTCANDLES

(One Unit, 15.1W, 42.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	36.2	4.7'
8	20.4	6.3'
10	13.0	7.8'
12	9.0	9.4'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	2382
55	758
65	707
75	630
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2" LED RECESSED DOWNLIGHT 800/1200 LUMEN ROUND HYPERBOLIC DOWNLIGHT NEW CONSTRUCTION 2DH Trim

2DH Hyperbolic Downlight Trim



Self-Flanged



Flangeless



PHOTOMETRICS

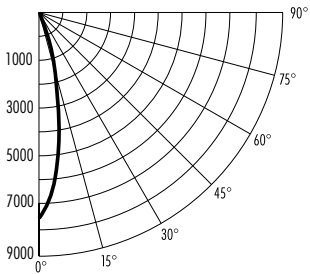
SPOT

PHOTOMETRIC REPORT

Test Report #: PT02140706
Catalog No: AX2 D 12LM 30K
80CRI 18D FPC 120
2DH CD

Luminaire Spacing Criterion: 0.36

Luminaire LPW: 83



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
Vertical 0°	0
0	7636
5	6522
15	1790
25	260
35	55
45	11
55	2
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	86	80	74
5.0'	55	51	47
6.0'	38	35	33
7.0'	31	29	27
8.0'	25	23	21
9.0'	19	17	16
10.0'	14	13	12

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1177	96.1
0-40°	1213	99.1
0-60°	1224	100.0
0-90°	1224	100.0

INITIAL FOOTCANDLES

(One Unit, 14.8W, 20.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	212.1	2.1'
8	119.3	2.9'
10	76.4	3.6'
12	53.0	4.3'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	5853
55	1640
65	111
75	0
85	540

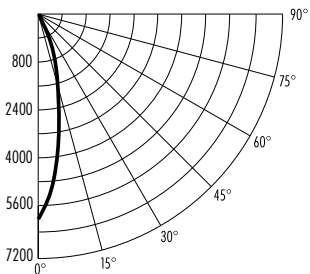
NARROW FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02140707
Catalog No: AX2 D 12LM 30K
80CRI 24D FPC 120
2DH CD

Luminaire Spacing Criterion: 0.40

Luminaire LPW: 77



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
Vertical 0°	0
0	5730
5	4949
15	1739
25	348
35	58
45	14
55	3
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	81	73	68
5.0'	52	47	44
6.0'	36	33	30
7.0'	29	26	25
8.0'	23	21	19
9.0'	18	16	15
10.0'	13	12	11

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1082	94.9
0-40°	1126	98.8
0-60°	1140	100.0
0-90°	1140	100.0

INITIAL FOOTCANDLES

(One Unit, 14.8W, 22.5° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	159.1	2.4'
8	89.5	3.2'
10	57.3	4.0'
12	39.8	4.8'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	7383
55	1640
65	0
75	0
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2" LED RECESSED DOWNLIGHT 800/1200 LUMEN

ROUND HYPERBOLIC DOWNLIGHT NEW CONSTRUCTION 2DH Trim (continued)

2DH Hyperbolic Downlight Trim



Self-Flanged



Flangeless



PHOTOMETRICS

FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02140708

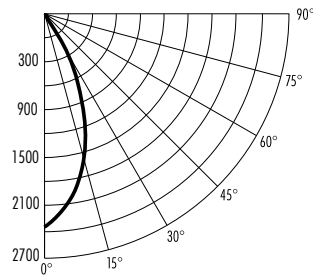
Catalog No: AX2 D 12LM 30K

80CRI 35D FPC 120

2DH CD

Luminaire Spacing Criterion: 0.66

Luminaire LPW: 73



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2368
5	2291
15	1670
25	678
35	98
45	18
55	4
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	75	67	61
5.0'	48	43	39
6.0'	34	30	27
7.0'	27	24	22
8.0'	21	19	17
9.0'	16	15	13
10.0'	12	11	10

INITIAL FOOTCANDLES

(One Unit, 14.8W, 39.5° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	65.8	4.3'
8	37.0	5.7'
10	23.7	7.2'
12	16.4	8.6'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	9511
55	2378
65	0
75	0
85	0

WIDE FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02140705

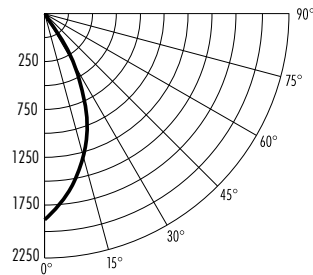
Catalog No: AX2 D 12LM 30K

80CRI 45D FPC 120

2DH CD

Luminaire Spacing Criterion: 0.70

Luminaire LPW: 70



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1877
5	1762
15	1332
25	782
35	163
45	31
55	6
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	72	64	57
5.0'	46	41	36
6.0'	32	28	25
7.0'	26	23	20
8.0'	21	18	16
9.0'	16	14	12
10.0'	12	10	9

INITIAL FOOTCANDLES

(One Unit, 14.8W, 44.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	52.1	4.9'
8	29.3	6.6'
10	18.8	8.2'
12	13.0	9.9'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	16695
55	3772
65	111
75	0
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2" LED RECESSED DOWNLIGHT 800/1200 LUMEN ROUND PARABOLIC DOWNLIGHT NEW CONSTRUCTION 2DP Trim

2DP Parabolic Downlight Trim



Self-Flanged



Flangeless



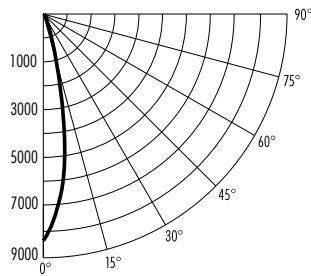
ROUND PARABOLIC DOWNLIGHT NEW CONSTRUCTION

PHOTOMETRICS

SPOT
PHOTOMETRIC REPORT

Test Report #: PT02140110
Catalog No: AX2 D 12LM 30K
80CRI 18D FPC 120
2DP CD

Luminaire Spacing Criterion: 0.34
Luminaire LPW: 85



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	8295
5	7082
15	1924
25	266
35	41
45	2
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES
Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	91	84	79
5.0'	58	54	50
6.0'	40	37	35
7.0'	33	30	28
8.0'	26	24	22
9.0'	20	18	17
10.0'	15	13	13

INITIAL FOOTCANDLES
(One Unit, 15.1W, 19.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	230.4	2.1'
8	129.6	2.8'
10	83.0	3.5'
12	57.6	4.1'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1255	97.7
0-40°	1282	99.8
0-60°	1285	100.0
0-90°	1285	100.0

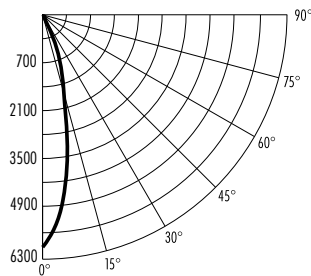
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	926
55	67
65	0
75	0
85	0

NARROW FLOOD
PHOTOMETRIC REPORT

Test Report #: PT02140106
Catalog No: AX2 D 12LM 30K
80CRI 24D FPC 120
2DP CD

Luminaire Spacing Criterion: 0.38
Luminaire LPW: 79



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	6191
5	5258
15	1855
25	360
35	46
45	5
55	1
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES
Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	84	77	72
5.0'	54	49	46
6.0'	37	34	32
7.0'	30	28	26
8.0'	24	22	20
9.0'	18	17	16
10.0'	13	12	11

INITIAL FOOTCANDLES
(One Unit, 15.1W, 22.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	172.0	2.4'
8	96.7	3.2'
10	61.9	3.9'
12	43.0	4.7'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1149	96.4
0-40°	1185	99.5
0-60°	1191	100.0
0-90°	1192	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	2232
55	470
65	273
75	149
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2" LED RECESSED DOWNLIGHT 800/1200 LUMEN

ROUND PARABOLIC DOWNLIGHT NEW CONSTRUCTION 2DP Trim (continued)

2DP Parabolic Downlight Trim



Self-Flanged



Flangeless



PHOTOMETRICS

FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02140102

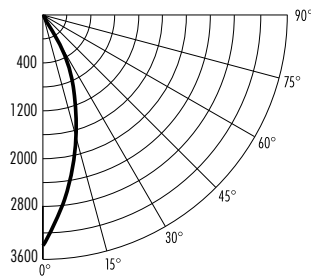
Catalog No: AX2 D 12LM 30K

80CRI 35D FPC 120

2DP CD

Luminaire Spacing Criterion: 0.52

Luminaire LPW: 75



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	3351
5	2793
15	1766
25	679
35	79
45	7
55	1
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	79	71	65
5.0'	51	46	42
6.0'	35	32	29
7.0'	28	26	23
8.0'	22	20	18
9.0'	17	16	14
10.0'	13	11	10

INITIAL FOOTCANDLES

(One Unit, 15.1W, 31.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	93.1	3.4'
8	52.4	4.5'
10	33.5	5.7'
12	23.3	6.8'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1049	93.0
0-40°	1119	99.2
0-60°	1127	99.9
0-90°	1128	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	3158
55	738
65	364
75	298
85	442

WIDE FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02140114

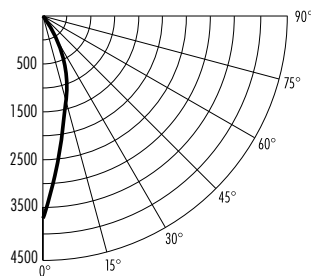
Catalog No: AX2 D 12LM 30K

80CRI 45D FPC 120

2DP CD

Luminaire Spacing Criterion: 0.34

Luminaire LPW: 73



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	3642
5	2631
15	1429
25	774
35	131
45	11
55	2
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	77	69	62
5.0'	49	44	40
6.0'	34	31	27
7.0'	28	25	22
8.0'	22	20	18
9.0'	17	15	13
10.0'	12	11	10

INITIAL FOOTCANDLES

(One Unit, 15.1W, 20.8° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	101.2	2.2'
8	56.9	2.9'
10	36.4	3.7'
12	25.3	4.4'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	976	88.9
0-40°	1079	98.2
0-60°	1097	99.9
0-90°	1099	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	5009
55	1342
65	820
75	298
85	442

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2" LED RECESSED DOWNLIGHT 800/1200 LUMEN

ROUND PARABOLIC DOWNLIGHT NEW CONSTRUCTION 2DP Trim with WET option

2DP Parabolic Downlight Trim



Self-Flanged



Flangeless



PHOTOMETRICS

SPOT

PHOTOMETRIC REPORT

Test Report #: PT02140109

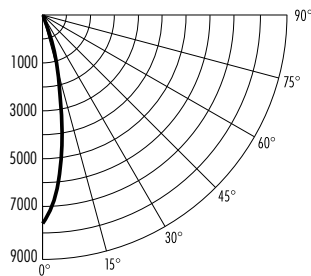
Catalog No: AX2 D 12LM 30K

80CRI 18D FPC 120

2DP CD WET

Luminaire Spacing Criterion: 0.36

Luminaire LPW: 78



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	7086
5	6018
15	1749
25	283
35	45
45	4
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60"x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	83	76	71
5.0'	53	49	45
6.0'	37	34	32
7.0'	30	27	26
8.0'	24	22	20
9.0'	18	17	15
10.0'	13	12	11

INITIAL FOOTCANDLES

(One Unit, 15.1W, 20.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	196.8	2.1'
8	110.7	2.9'
10	70.9	3.6'
12	49.2	4.3'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	1579
55	67
65	0
75	0
85	0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1139	97.1
0-40°	1169	99.7
0-60°	1172	100.0
0-90°	1172	100.0

NARROW FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02140105

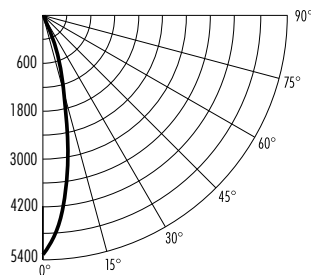
Catalog No: AX2 D 12LM 30K

80CRI 24D FPC 120

2DP CD WET

Luminaire Spacing Criterion: 0.40

Luminaire LPW: 72



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	5307
5	4574
15	1687
25	360
35	53
45	6
55	1
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60"x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	77	70	65
5.0'	49	45	42
6.0'	34	31	29
7.0'	28	25	24
8.0'	22	20	19
9.0'	17	15	14
10.0'	12	11	10

INITIAL FOOTCANDLES

(One Unit, 15.1W, 23° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	147.4	2.4'
8	82.9	3.3'
10	53.1	4.1'
12	36.9	4.9'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	2613
55	537
65	364
75	149
85	442

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1042	95.7
0-40°	1082	99.4
0-60°	1089	99.9
0-90°	1089	100.0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2" LED RECESSED DOWNLIGHT 800/1200 LUMEN

2DP Parabolic Downlight Trim



Self-Flanged



Flangeless



ROUND PARABOLIC DOWNLIGHT NEW CONSTRUCTION 2DP Trim with WET option (continued)

PHOTOMETRICS

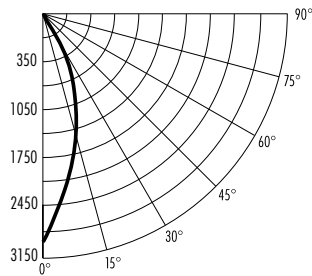
FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02140101
Catalog No: AX2 D 12LM 30K
80CRI 35D FPC 120
2DP CD WET

Luminaire Spacing Criterion: 0.54

Luminaire LPW: 69



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2907
5	2471
15	1571
25	637
35	94
45	9
55	1
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60"x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	72	65	59
5.0'	46	42	38
6.0'	32	29	26
7.0'	26	24	21
8.0'	21	19	17
9.0'	16	14	13
10.0'	12	10	9

INITIAL FOOTCANDLES (One Unit, 15.1W, 32.4° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	80.8	3.5'
8	45.4	4.6'
10	29.1	5.8'
12	20.2	7.0'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	948	91.6
0-40°	1025	98.9
0-60°	1035	99.9
0-90°	1035	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	3757
55	805
65	455
75	149
85	0

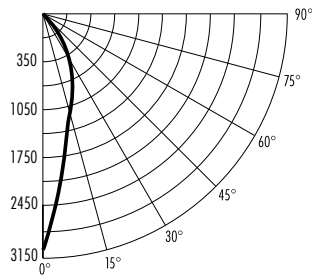
WIDE FLOOD

PHOTOMETRIC REPORT

Test Report #: PT02140113
Catalog No: AX2 D 12LM 30K
80CRI 45D FPC 120
2DP CD WET

Luminaire Spacing Criterion: 0.38

Luminaire LPW: 66



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	3097
5	2311
15	1291
25	699
35	130
45	14
55	3
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60"x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	70	63	56
5.0'	45	40	36
6.0'	31	28	25
7.0'	25	23	20
8.0'	20	18	16
9.0'	15	14	12
10.0'	11	10	9

INITIAL FOOTCANDLES (One Unit, 15.1W, 22.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	86.0	2.4'
8	48.4	3.2'
10	31.0	4.1'
12	21.5	4.9'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	878	87.8
0-40°	979	97.9
0-60°	998	99.8
0-90°	1000	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	6098
55	1410
65	820
75	446
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2" LED RECESSED DOWNLIGHT 800/1200 LUMEN ROUND 1 1/4" DOWNLIGHT PINHOLE NEW CONSTRUCTION 2DPIN Trim

2DPIN Downlight Pinhole, 1 1/4"



Self-Flanged



Flangeless



ROUND 1 1/4" DOWNLIGHT PINHOLE NEW CONSTRUCTION

PHOTOMETRICS

SPOT

PHOTOMETRIC REPORT

Test Report #: PT10142003R

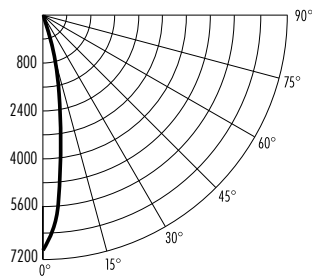
Catalog No: AX2 D 12LM 30K

80CRI 18D FPC 120

2DPIN BD

Luminaire Spacing Criterion: 0.28

Luminaire LPW: 48



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	7031
5	5469
15	823
25	62
35	7
45	0
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	51	47	45
5.0'	33	30	29
6.0'	23	21	20
7.0'	18	17	16
8.0'	15	13	13
9.0'	11	10	10
10.0'	8	8	7

INITIAL FOOTCANDLES

(One Unit, 14.8W, 16.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	195.3	1.7'
8	109.9	2.3'
10	70.3	2.9'
12	48.8	3.4'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	710	99.2
0-40°	715	99.8
0-60°	715	100.0
0-90°	716	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	960
55	592
65	402
75	656
85	0

NARROW FLOOD

PHOTOMETRIC REPORT

Test Report #: PT10142005R

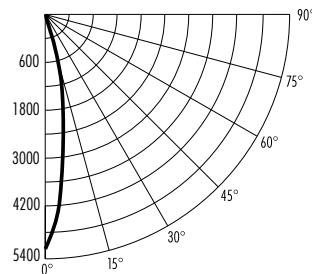
Catalog No: AX2 D 12LM 30K

80CRI 24D FPC 120

2DPIN BD

Luminaire Spacing Criterion: 0.32

Luminaire LPW: 45



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	5147
5	4064
15	915
25	83
35	12
45	0
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	47	44	41
5.0'	30	28	26
6.0'	21	19	18
7.0'	17	16	15
8.0'	13	12	12
9.0'	10	10	9
10.0'	8	7	7

INITIAL FOOTCANDLES

(One Unit, 14.8W, 18.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	143.0	1.9'
8	80.4	2.6'
10	51.5	3.2'
12	35.7	3.9'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	655	98.5
0-40°	663	99.8
0-60°	665	100.0
0-90°	665	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	960
55	592
65	402
75	656
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2" LED RECESSED DOWNLIGHT 800/1200 LUMEN

ROUND 1 1/4" DOWNLIGHT PINHOLE NEW CONSTRUCTION 2DPIN Trim (continued)

2DPIN Downlight Pinhole, 1 1/4"



Self-Flanged



Flangeless¹



PHOTOMETRICS

FLOOD

PHOTOMETRIC REPORT

Test Report #: PT10142007R

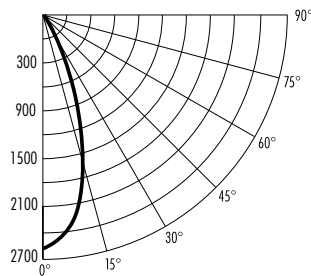
Catalog No: AX2 D 12LM 30K

80CRI 35D FPC 120

2DPIN BD

Luminaire Spacing Criterion: 0.58

Luminaire LPW: 58



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2603
5	2518
15	1629
25	328
35	25
45	1
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	60	55	50
5.0'	39	35	32
6.0'	27	24	22
7.0'	22	20	18
8.0'	17	16	14
9.0'	13	12	11
10.0'	10	9	8

INITIAL FOOTCANDLES

(One Unit, 14.8W, 34.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	72.3	3.7'
8	70.7	5.0'
10	26.0	6.2'
12	18.1	7.5'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	832	97.2
0-40°	855	99.8
0-60°	856	100.0
0-90°	856	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	1201
55	888
65	803
75	656
85	0

WIDE FLOOD

PHOTOMETRIC REPORT

Test Report #: PT10142009R

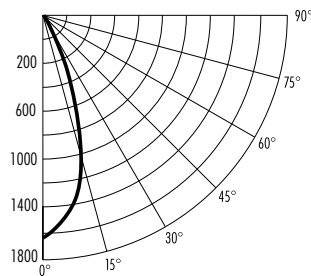
Catalog No: AX2 D 12LM 30K

80CRI 45D FPC 120

2DPIN BD

Luminaire Spacing Criterion: 0.60

Luminaire LPW: 40



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1634
5	1556
15	1070
25	254
35	50
45	1
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	41	37	34
5.0'	26	24	22
6.0'	18	17	15
7.0'	15	13	12
8.0'	12	11	10
9.0'	9	8	7
10.0'	7	6	5

INITIAL FOOTCANDLES

(One Unit, 14.8W, 34.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	45.4	3.8'
8	25.5	5.0'
10	16.3	6.3'
12	11.3	7.5'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	550	93.9
0-40°	584	99.7
0-60°	585	99.9
0-90°	586	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	1681
55	1184
65	803
75	656
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2DPIN Downlight Pinhole, 1 1/4"



Self-Flanged



Flangeless¹



2" LED RECESSED DOWNLIGHT 800/1200 LUMEN

ROUND 1 1/4" DOWNLIGHT PINHOLE NEW CONSTRUCTION
2DPIN Trim with WET option

PHOTOMETRICS

SPOT

PHOTOMETRIC REPORT

Test Report #: PT02140111

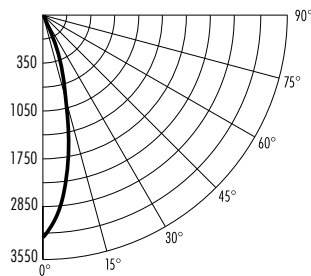
Catalog No: AX2 D 12LM 30K

80CRI 18D FPC 120

2DPIN BD WET

Luminaire Spacing Criterion: 0.38

Luminaire LPW: 44



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	3246
5	2803
15	974
25	195
35	39
45	10
55	3
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	46	42	38
5.0'	29	27	25
6.0'	20	19	17
7.0'	16	15	14
8.0'	13	12	11
9.0'	10	9	8
10.0'	7	7	6

INITIAL FOOTCANDLES

(One Unit, 14.8W, 22.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	90.2	2.4'
8	50.7	3.2'
10	32.5	3.9'
12	22.5	4.7'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	609	94.0
0-40°	635	98.0
0-60°	646	99.7
0-90°	649	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	18729
55	7400
65	4017
75	1968
85	0

NARROW FLOOD

PHOTOMETRIC REPORT

Test Report #: PT10142004R

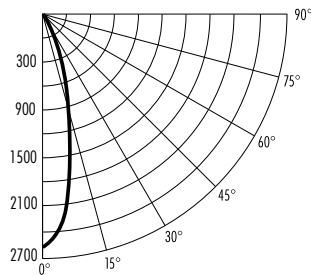
Catalog No: AX2 D 12LM 30K

80CRI 24D FPC 120

2DPIN BD WET

Luminaire Spacing Criterion: 0.42

Luminaire LPW: 41



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2549
5	2261
15	929
25	216
35	45
45	11
55	3
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	43	39	35
5.0'	27	25	23
6.0'	19	17	16
7.0'	15	14	13
8.0'	12	11	10
9.0'	9	8	8
10.0'	7	6	6

INITIAL FOOTCANDLES

(One Unit, 14.8W, 24.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	70.8	2.6'
8	39.8	3.5'
10	25.5	4.4'
12	17.7	5.3'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	559	92.6
0-40°	590	97.7
0-60°	602	99.7
0-90°	604	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	21387
55	7999
65	4021
75	1968
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.

2" LED RECESSED DOWNLIGHT 800/1200 LUMEN

ROUND 1 1/4" DOWNLIGHT PINHOLE NEW CONSTRUCTION 2DPIN Trim with WET option (continued)

2DPIN Downlight Pinhole, 1 1/4"



Self-Flanged



Flangeless¹



PHOTOMETRICS

FLOOD

PHOTOMETRIC REPORT

Test Report #: PT10142006R

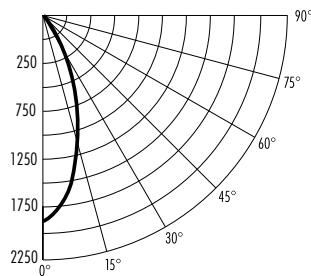
Catalog No: AX2 D 12LM 30K

80CRI 35D FPC 120

2DPIN BD WET

Luminaire Spacing Criterion: 0.60

Luminaire LPW: 52



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1863
5	1778
15	1160
25	422
35	102
45	22
55	5
65	2
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	54	48	43
5.0'	35	31	28
6.0'	24	21	19
7.0'	19	17	16
8.0'	15	14	12
9.0'	12	10	9
10.0'	9	8	7

INITIAL FOOTCANDLES

(One Unit, 14.8W, 35.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	51.8	3.9'
8	29.1	5.1'
10	18.6	6.4'
12	12.9	7.7'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	676	87.7
0-40°	745	96.6
0-60°	769	99.7
0-90°	771	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	42054
55	13034
65	5628
75	1312
85	0

WIDE FLOOD

PHOTOMETRIC REPORT

Test Report #: PT10142008R

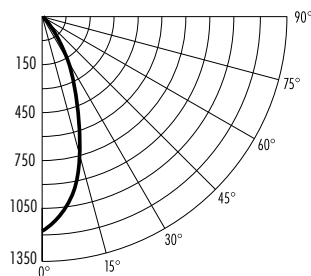
Catalog No: AX2 D 12LM 30K

80CRI 45D FPC 120

2DPIN BD WET

Luminaire Spacing Criterion: 0.62

Luminaire LPW: 36



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1175
5	1162
15	758
25	300
35	88
45	19
55	4
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	37	33	29
5.0'	24	21	19
6.0'	16	15	13
7.0'	13	12	11
8.0'	11	9	8
9.0'	8	7	6
10.0'	6	5	5

INITIAL FOOTCANDLES

(One Unit, 14.8W, 36.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	32.6	4.0'
8	18.4	5.3'
10	11.8	6.6'
12	8.2	8.0'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	450	84.9
0-40°	508	95.8
0-60°	529	99.7
0-90°	530	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	37248
55	9775
65	2619
75	1312
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.