

DESCRIPTION

Recessed 6-inch LED wall washer is available in various lumen and CRI/CCT options. Suitable for commercial construction and can be used for both new or renovation work. Insulation must be kept 3" from top and sides of housing. Cutout type kicker reflector reduces scallops and provides vertical illumination.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

MECHANICAL

Frame

Boat shaped galvanized steel frame with adjustable plaster lip accommodates ceilings up to 1/2" - 2" thick. May be used for new construction or remodeling installations. Provided with (2) remodel clips to secure frame when installed from below the ceiling.

Mounting Brackets

Bar hanger receivers adjust 2" vertically from above the ceiling or thru the aperture. Use with No Fuss™ bar hangers or with 1/2" EMT. Removable to facilitate installation from below the ceiling.

No Fuss™ Bar Hangers

Captive preinstalled bar hanger locks to tee grid with a screwdriver or pliers. Centering mechanism allows consistent positioning of fixtures.

OPTICAL

LED Module

Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation. Available in 80 or 90 CRI minimum, accuracy within 3 SDCM provides color uniformity. See ordering information for available CRI / CCT options. Passive thermal management achieves L70 at 50,000 hours in non IC applications. Integral diffuse lens provides visual shielding. Integral connector allows quick connection to housing flex.

Reflector

One piece parabolic aluminum reflector combines high optical efficiency with visual comfort. Attaches to LED module with (3) speed clamps minimizing light leaks to lens. Self-flanged standard with an optional white painted flange.

Trim Retention

Reflectors are retained with two torsion springs holding the flange tightly to the finished ceiling surface.

ELECTRICAL Junction Box

(6) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Listed for (12) #12 AWG (six in, six out) 90°C conductors and feed thru branch wiring.

Driver

Integral UNV 120 - 277V 50/60 Hz constant current driver provides noise free operation. For 347V input use Halo transformer H347 or H347200. Continuous, flicker-free dimming from 100% to 10% with leading or trailing edge phase cut at 120V or 0 -10V analog control.

Emergency Option

Provides 90 minutes of standby lighting meeting most life safety codes for egress lighting. Available with remote charge indicator and test switch.

Compliance

- cULus listed for wet location
- cCSAus listed for wet location
- Insulation must be kept 3" from top and sides.
- Airtight per ASTM-E283
- Optional City of Chicago environmental air (CCEA) marking for plenum applications.
- EMI/RFI emissions per FCC 47CFR Part 18 non-consumer limits.
- Contains no mercury or lead and RoHS compliant.
- Photometric testing in accordance with IES LM-79-08.
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11.
- Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.
- ENERGY STAR® listed for commercial applications, reference database for current listings.



PD612
PD618

PDM6

61WW

1,200 & 1,800
Lumen Series

LED

6-Inch Aperture
Wall Washer

Lumens	1200 Series	
Input Voltage	120V	277V
Input Current	0.19A	0.1A
Input Power	23 W	23.2 W
Efficiency	70 LpW	70 LpW
Inrush Current	2.14A	4.1A

Lumens	1800 Series	
Input Voltage	120V	277V
Input Current	0.24A	0.12A
Input Power	29.5 W	29.4 W
Efficiency	67 LpW	67 LpW
Inrush Current	2.88A	6.94A

THD: ≤ 20%
PF: ≥ 0.90
T Ambient -30 - +40°C
Sound Rating ≤ 22dba

ORDERING INFORMATION

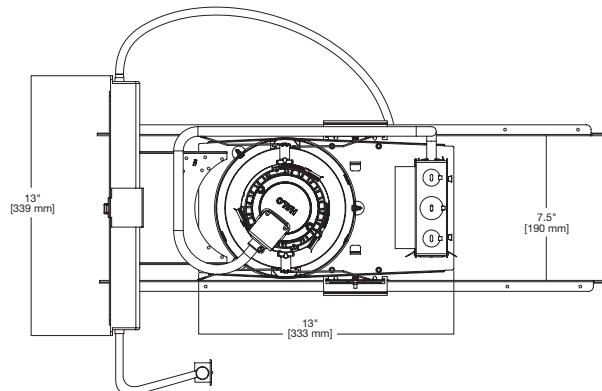
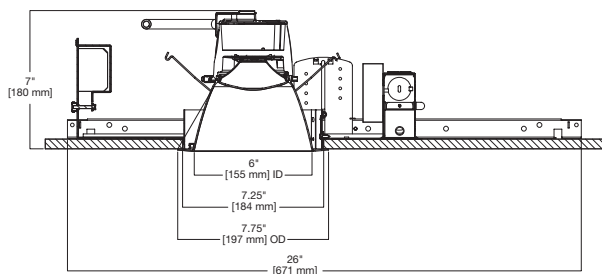
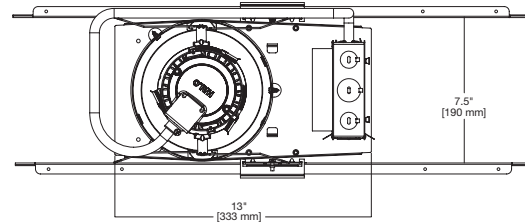
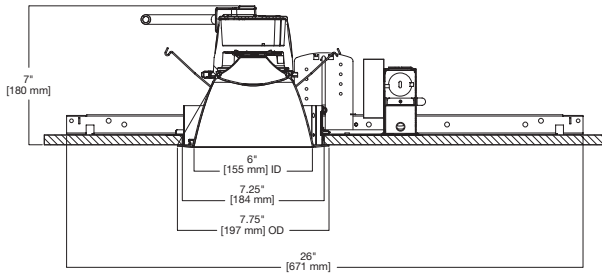
SAMPLE NUMBER: PD612ED010REM-PDM6827-61WWC

A complete luminaire consists of a housing, LED module and reflector, order separately.

Housing	Lumens	Driver	Options	LED Module	CRI/CCT
PD6 = 6" aperture LED downlight PD6CP = 6" aperture LED downlight, CCEA listed for City of Chicago plenum requirements	12 = 1,200 lumens (nominal) 18 = 1,800 lumens (nominal)	ED010 = 120-277V 50/60Hz, 0-10V and LE/ TE phase cut dimming	REM = Emergency operation with remote indicator and test switch (not available with PD6CP housing)	PDM6 = Downlight LED module for PD6 housing, provides 1,200 or 1,800 lumens (nominal) depending on connected housing type	827 = 80 CRI, 2700K CCT 927 = 90 CRI, 2700K CCT 830 = 80 CRI, 3000K CCT 930 = 90 CRI, 3000K CCT 835 = 80 CRI, 3500K CCT 935 = 90 CRI, 3500K CCT 840 = 80 CRI, 4000K CCT 940 = 90 CRI, 4000K CCT

Reflector	Finish Option	Flange Option	Accessories
61WW = 6" single wall wash	C = Specular clear G = Specular gold H = Semi-specular clear W = White (white flange)	Blank = Polished flange standard with C, G, & H reflector finishes Blank = White flange standard with W WF = White flange option available with C, G, & H reflector finishes	HB128APK = L channel hanger bar, 26", 'No-Fuss', pair (replacement) RMB22 = 22" long wood joist mounting bars, pair H347 = Step down transformer for 347V input, 75VA max H347200 = Step down transformer for 347V input, 200VA max

DIMENSIONS



COMPLIANCE TABLE

1200 LUMEN

80 CRI								
Catalog #	PD612ED010 - PDM6827		PD612ED010 - PDM6830		PD612ED010 - PDM6835		PD612ED010 - PDM6840	
	LUMENS	LPW	LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
61WWC	1440	63	1498	65	1550	67	1577	69
61WWCWF	1479	64	1538	67	1591	69	1619	70
61WWG	1442	63	1500	65	1552	67	1579	69
61WWGWF	1427	62	1484	65	1536	67	1563	68
61WWH	1396	61	1452	63	1502	65	1528	66
61WWHWF	1404	61	1460	63	1511	66	1537	67
61WWW	1409	61	1466	64	1516	66	1543	67

90 CRI								
Catalog #	PD612ED010 - PDM6927		PD612ED010 - PDM6930		PD612ED010 - PDM6935		PD612ED010 - PDM6940	
	LUMENS	LPW	LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
61WWC	1118	49	1201	52	1300	57	1299	56
61WWCWF	1147	50	1233	54	1335	58	1334	58
61WWG	1119	49	1203	52	1302	57	1301	57
61WWGWF	1107	48	1190	52	1288	56	1288	56
61WWH	1083	47	1164	51	1260	55	1259	55
61WWHWF	1089	47	1171	51	1267	55	1267	55
61WWW	1093	48	1175	51	1272	55	1271	55

1800 LUMEN

80 CRI								
Catalog #	PD618ED010 - PDM6827		PD618ED010 - PDM6830		PD618ED010 - PDM6835		PD618ED010 - PDM6840	
	LUMENS	LPW	LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
61WWC	1750	59	1825	62	1893	64	1927	65
61WWCWF	1796	61	1873	64	1944	66	1978	67
61WWG	1752	59	1827	62	1896	64	1930	65
61WWGWF	1734	59	1808	61	1876	64	1910	65
61WWH	1696	57	1769	60	1835	62	1868	63
61WWHWF	1706	58	1779	60	1846	63	1879	64
61WWW	1712	58	1785	61	1852	63	1885	64

90 CRI								
Catalog #	PD618ED010 - PDM6927		PD618ED010 - PDM6930		PD618ED010 - PDM6935		PD618ED010 - PDM6940	
	LUMENS	LPW	LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
61WWC	1365	46	1466	50	1583	54	1603	54
61WWCWF	1401	47	1505	51	1625	55	1646	56
61WWG	1367	46	1468	50	1585	54	1605	54
61WWGWF	1352	46	1453	49	1568	53	1588	54
61WWH	1323	45	1421	48	1534	52	1554	53
61WWHWF	1330	45	1429	48	1543	52	1563	53
61WWW	1335	45	1434	49	1548	52	1568	53

ES, T24

ES = ENERGY STAR® Qualified

T24 = Can be used to comply with California Title 24 Non-Residential

PHOTOMETRY

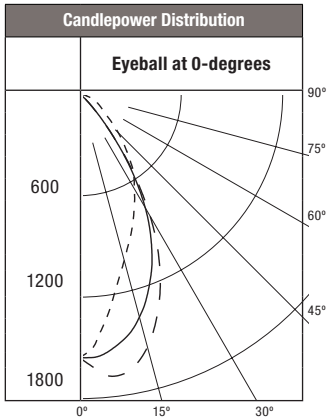
PD612ED010- PDM6835-61WWC

Spacing Criteria = 0.86

Lumens per Watt = 67.4 LpW

Test No. P121186

Test Model: PD612ED010- PDM6835-61WWC



Candela Distribution	
Degrees Vertical	Candela
0*	1558
5	1411
15	1019
25	761
35	551
45	323
55	169
65	111
75	46
85	11
90	0

*CBCP

Luminance	
(Average Candela/M²)	
Degree	Avg. 0° Luminance
45	25072
55	16181
65	14360
75	9658
85	6856

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	956	61.6
0-40	1282	82.7
0-60	1484	95.7
0-90	1550	100

Single Unit Footcandles								
2.5' from wall (distance from fixture along wall)								
	● —————							
1	11.8	8.9	4.3	1.4	0.5	0.2	0.1	
2	15.9	11.9	6.4	3	1.2	0.4	0.2	
3	18.1	14.4	7.6	3.2	1.4	0.6	0.3	
4	14.5	12.8	8.2	3.9	1.6	0.6	0.3	
5	10.4	9.6	7.3	4.3	2	0.8	0.3	
6	7.5	7.1	5.9	4.1	2.3	1.1	0.5	
7	5.4	5.2	4.6	3.6	2.4	1.3	0.6	
8	4	3.9	3.6	2.9	2.2	1.4	0.8	
9	3.1	3	2.8	2.4	1.9	1.4	0.9	
10	2.4	2.4	2.2	2	1.6	1.3	0.9	

Multiple Unit Footcandles			
2.5' from wall (spacing between fixtures)			
	● — 3 — ●		
1	13.2	12.6	13.2
2	18.9	18	18.9
3	21.3	22	21.3
4	18.4	21.4	18.4
5	14.7	17.1	14.7
6	11.6	13.1	11.6
7	9	9.9	9
8	7	7.6	7
9	5.5	5.8	5.5
10	4.4	4.6	4.4

Multiple Unit Footcandles			
2.5' from wall (spacing between fixtures)			
	● — 4 — ●		
1	12.3	8.5	12.3
2	17.1	12.8	17.1
3	19.5	15.1	19.5
4	16.1	16.4	16.1
5	12.4	14.7	12.4
6	9.8	11.7	9.8
7	7.8	9.1	7.8
8	6.2	7.1	6.2
9	5	5.6	5
10	4	4.4	4

Scaling factor for the Battery back up:

- 1800 Lumen = 0.33

- 1200 Lumen = 0.27

PHOTOMETRY - continued

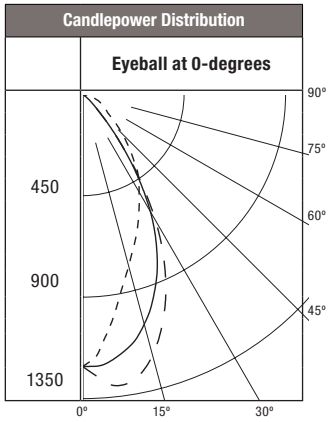
PD612ED010- PDM6930-61WWC

Spacing Criteria = 0.86

Lumens per Watt = 52.2 LpW

Test No. P121189

Test Model: PD612ED010- PDM6930-61WWC



Candela Distribution	
Degrees Vertical	Candela
0*	1207
5	1093
15	790
25	589
35	427
45	251
55	131
65	86
75	35
85	8
90	0

*CBCP

Luminance	
(Average Candela/M ²)	
Degree	Avg. 0° Luminance
45	19428
55	12540
65	11130
75	7477
85	5284

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	740	61.6
0-40	993	82.7
0-60	1150	95.7
0-90	1201	100

Single Unit Footcandles							
2.5' from wall (distance from fixture along wall)							
	● —————						
1	9.1	6.9	3.3	1.1	0.4	0.1	0.1
2	12.3	9.3	5	2.3	0.9	0.3	0.1
3	14.1	11.2	5.9	2.5	1.1	0.5	0.2
4	11.2	9.9	6.4	3	1.2	0.5	0.2
5	8	7.4	5.7	3.3	1.6	0.7	0.3
6	5.8	5.5	4.5	3.2	1.8	0.8	0.4
7	4.2	4.1	3.5	2.8	1.8	1	0.5
8	3.1	3	2.8	2.3	1.7	1.1	0.6
9	2.4	2.3	2.2	1.9	1.5	1.1	0.7
10	1.9	1.8	1.7	1.5	1.3	1	0.7

Multiple Unit Footcandles			
2.5' from wall (spacing between fixtures)			
	● — 3 — ●		
1	10.2	9.7	10.2
2	14.7	14	14.7
3	16.5	17	16.5
4	14.3	16.6	14.3
5	11.4	13.3	11.4
6	9	10.1	9
7	7	7.7	7
8	5.4	5.9	5.4
9	4.3	4.5	4.3
10	3.4	3.6	3.4

Multiple Unit Footcandles			
2.5' from wall (spacing between fixtures)			
	● — 4 — ●		
1	9.5	6.6	9.5
2	13.3	9.9	13.3
3	15.1	11.7	15.1
4	12.5	12.7	12.5
5	9.6	11.4	9.6
6	7.6	9.1	7.6
7	6.1	7.1	6.1
8	4.8	5.5	4.8
9	3.9	4.3	3.9
10	3.1	3.4	3.1

Scaling factor for the Battery back up:

- 1800 Lumen = 0.33
- 1200 Lumen = 0.27

PHOTOMETRY

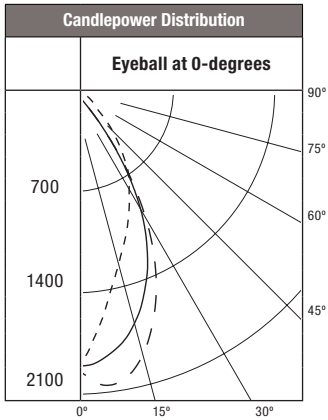
PD618ED010- PDM6835-61WWC

Spacing Criteria = 0.86

Lumens per Watt = 64.2 LpW

Test No. P121170

Test Model: PD618ED010- PDM6835-61WWC



Candela Distribution	
Degrees Vertical	Candela
0*	1903
5	1723
15	1244
25	929
35	673
45	395
55	207
65	135
75	56
85	13
90	0

*CBCP

Luminance	
(Average Candela/M²)	
Degree	Avg. 0° Luminance
45	30623
55	19765
65	17538
75	11798
85	8366

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	1167	61.6
0-40	1566	82.7
0-60	1813	95.7
0-90	1893	100

Single Unit Footcandles								
2.5' from wall (distance from fixture along wall)								
	● —————							
1	14.4	10.9	5.2	1.7	0.7	0.2	0.1	
2	19.4	14.6	7.8	3.7	1.5	0.5	0.2	
3	22.2	17.6	9.2	3.9	1.7	0.7	0.3	
4	17.7	15.6	10	4.8	2	0.8	0.4	
5	12.7	11.7	9	5.3	2.5	1	0.4	
6	9.1	8.6	7.2	5	2.8	1.3	0.6	
7	6.6	6.4	5.6	4.3	2.9	1.6	0.8	
8	4.9	4.8	4.4	3.6	2.7	1.7	1	
9	3.8	3.7	3.4	2.9	2.3	1.7	1.1	
10	2.9	2.9	2.7	2.4	2	1.5	1.1	

Multiple Unit Footcandles				
2.5' from wall (spacing between fixtures)				
	● — 3 — ●			
1	16.1	15.3	16.1	
2	23.1	22	23.1	
3	26	26.8	26	
4	22.5	26.1	22.5	
5	17.9	20.9	17.9	
6	14.2	16	14.2	
7	11	12.1	11	
8	8.5	9.2	8.5	
9	6.7	7.1	6.7	
10	5.3	5.6	5.3	

Multiple Unit Footcandles				
2.5' from wall (spacing between fixtures)				
	● — 4 — ●			
1	15	10.4	15	
2	20.9	15.7	20.9	
3	23.8	18.5	23.8	
4	19.7	20.1	19.7	
5	15.1	17.9	15.1	
6	12	14.3	12	
7	9.5	11.2	9.5	
8	7.6	8.7	7.6	
9	6.1	6.8	6.1	
10	4.9	5.4	4.9	

Scaling factor for the Battery back up:

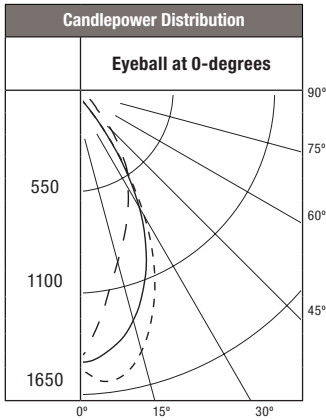
- 1800 Lumen = 0.33

- 1200 Lumen = 0.27

PHOTOMETRY - continued

PD618ED010- PDM6930-61WWC

Spacing Criteria = 0.86
Lumens per Watt = 49.7 LpW
Test No. P114373
Test Model: PD618ED010- PDM6930-61WWC



Candela Distribution	
Degrees Vertical	Candela
0*	1474
5	1572
15	1464
25	1058
35	496
45	92
55	14
65	6
75	0
85	0
90	0

*CBCP

Luminance	
(Average Candela/M²)	
Degree	Avg. 0° Luminance
45	7164
55	1376
65	804
75	0
85	0

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0-30	904	61.6
0-40	1212	82.7
0-60	1404	95.7
0-90	1466	100

Single Unit Footcandles								
2.5' from wall (distance from fixture along wall)								
	0.8	0.3	0.1	0	0	0	0	
1	0.8	0.3	0.1	0	0	0	0	
2	1.8	1.2	0.6	0.3	0.1	0	0	
3	10.4	6.6	2	0.4	0.2	0.1	0	
4	15.9	12.4	5.7	1.6	0.4	0.1	0.1	
5	14	12.1	7.5	3.3	1	0.3	0.1	
6	10.7	9.6	7.1	4.1	1.8	0.6	0.2	
7	7.9	7.3	5.8	4	2.3	1.1	0.4	
8	5.9	5.5	4.6	3.5	2.3	1.3	0.6	
9	4.4	4.2	3.7	2.9	2.1	1.4	0.8	
10	3.4	3.3	2.9	2.4	1.9	1.3	0.9	

Multiple Unit Footcandles				
2.5' from wall (spacing between fixtures)				
	0.8	0.3	0.8	
1	0.8	0.3	0.8	
2	2.1	1.6	2.1	
3	10.9	7.8	10.9	
4	17.5	17.9	17.5	
5	17.3	19.9	17.3	
6	14.8	16.8	14.8	
7	11.9	13.3	11.9	
8	9.4	10.3	9.4	
9	7.3	7.9	7.3	
10	5.8	6.2	5.8	

Multiple Unit Footcandles				
2.5' from wall (spacing between fixtures)				
	0.8	0.3	0.8	
1	0.8	0.3	0.8	
2	1.9	1.2	1.9	
3	10.6	4	10.6	
4	16.3	11.3	16.3	
5	15	15.1	15	
6	12.5	14.1	12.5	
7	10.2	11.6	10.2	
8	8.2	9.2	8.2	
9	6.6	7.3	6.6	
10	5.3	5.8	5.3	

Scaling factor for the Battery back up:

- 1800 Lumen = 0.33
- 1200 Lumen = 0.27