

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P859168

Luminaire Tested: **LD4C60D010 EU4609027 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C60D010 EU4609027 4LBMDSWGPH
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

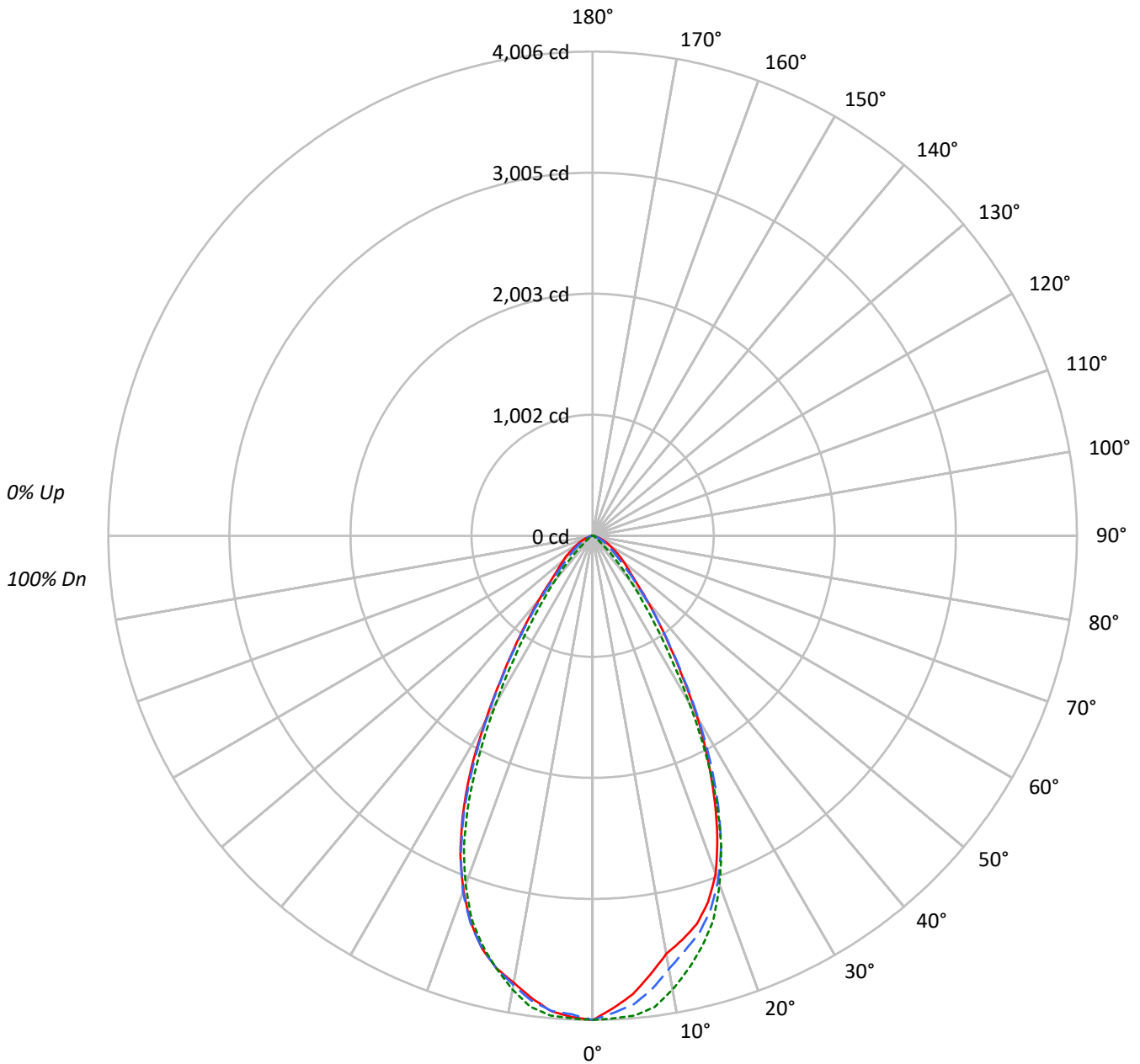
Lumens per Lamp: N/A
Luminaire Lumens: 3647.0 lumens
Efficiency: N/A
Efficacy: 50.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72																			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67																			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62																			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58																			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55																			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51																			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	492176	492176	492176
5°	469638	491380	486804
10°	438018	475455	468506
15°	422974	446580	449734
20°	389076	401209	408491
25°	322483	328352	344280
30°	245317	226889	252339
35°	166099	135939	167959
40°	113112	77894	109648
45°	78479	39231	74170
50°	63855	15959	59727
55°	51684	9938	47036
60°	41058	7592	37249
65°	32384	6308	28779
70°	24461	5568	22234
75°	17610	4414	16139
80°	13159	4386	10966
85°	8739	4370	8739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.3	10.1
10°-20°	967.8	26.5
20°-30°	1110.4	30.4
30°-40°	674.5	18.5
40°-50°	289.1	7.9
50°-60°	138.7	3.8
60°-70°	67.4	1.8
70°-80°	25.0	0.7
80°-90°	5.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2446.5	67.1
0°-40°	3121.0	85.6
0°-60°	3548.8	97.3
0°-90°	3647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3647.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4006	4006	4006	4006	4006	
5°	3808	3892	3984	3944	3947	354
15°	3326	3403	3511	3533	3536	926
25°	2379	2456	2422	2515	2540	1079
35°	1108	1123	906	1095	1120	710
45°	452	402	226	362	427	367
55°	241	179	46	161	220	218
65°	111	74	22	68	99	113
75°	37	25	9	22	34	41
85°	6	6	3	3	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4006.2	4006.2	4006.2	4006.2	4006.2	4006.2	4006.2	4006.2	4006.2
2.5°	3910.3	3953.6	3950.5	3987.6	3996.9	3987.6	3962.9	3987.6	3984.5
5°	3808.2	3857.7	3891.7	3953.6	3984.5	3978.3	3944.3	3950.5	3947.4
7.5°	3659.7	3721.6	3780.3	3873.2	3931.9	3928.8	3879.3	3870.1	3857.7
10°	3511.2	3570.0	3638.0	3733.9	3811.3	3823.7	3774.2	3761.8	3755.6
12.5°	3424.6	3471.0	3517.4	3600.9	3669.0	3693.7	3665.9	3669.0	3665.9
15°	3325.6	3372.0	3402.9	3464.8	3511.2	3545.2	3532.9	3551.4	3536.0
17.5°	3177.1	3232.8	3245.2	3291.6	3325.6	3347.2	3359.6	3378.2	3353.4
20°	2976.0	3019.3	3034.8	3053.4	3068.8	3096.7	3133.8	3152.4	3124.5
22.5°	2694.5	2778.0	2774.9	2765.7	2781.1	2790.4	2849.2	2880.1	2858.5
25°	2379.0	2465.6	2456.3	2419.2	2422.3	2440.8	2515.1	2555.3	2539.8
27.5°	2047.9	2128.4	2106.7	2035.6	2017.0	2044.9	2140.8	2187.2	2177.9
30°	1729.3	1781.9	1747.9	1621.0	1599.4	1633.4	1757.1	1803.6	1778.8
32.5°	1385.9	1426.1	1410.7	1256.0	1218.9	1252.9	1398.3	1441.6	1413.8
35°	1107.5	1144.6	1123.0	940.4	906.4	943.5	1095.1	1144.6	1119.9
37.5°	887.9	915.7	887.9	693.0	662.0	699.1	844.5	909.5	878.6
40°	705.3	727.0	689.9	510.4	485.7	504.3	640.4	705.3	683.7
42.5°	556.8	572.3	532.1	374.3	346.5	371.2	482.6	541.4	529.0
45°	451.7	451.7	402.2	259.9	225.8	250.6	361.9	423.8	426.9
47.5°	386.7	377.4	315.5	173.2	129.9	164.0	287.7	352.7	361.9
50°	334.1	321.7	259.9	126.8	83.5	117.6	238.2	303.2	312.5
52.5°	287.7	278.4	216.6	99.0	58.8	89.7	201.1	263.0	272.2
55°	241.3	235.1	179.4	77.3	46.4	68.1	160.9	213.5	219.6
57.5°	198.0	188.7	145.4	65.0	37.1	55.7	133.0	176.3	182.5
60°	167.1	157.8	117.6	52.6	30.9	43.3	108.3	145.4	151.6
62.5°	139.2	129.9	95.9	43.3	24.7	37.1	86.6	117.6	123.7
65°	111.4	105.2	74.2	34.0	21.7	27.8	68.1	92.8	99.0
67.5°	89.7	83.5	58.8	27.8	18.6	21.7	52.6	74.2	80.4
70°	68.1	61.9	43.3	21.7	15.5	18.6	40.2	55.7	61.9
72.5°	49.5	46.4	34.0	18.6	12.4	15.5	27.8	40.2	46.4
75°	37.1	34.0	24.7	12.4	9.3	12.4	21.7	30.9	34.0
77.5°	24.7	24.7	18.6	9.3	9.3	9.3	15.5	21.7	21.7
80°	18.6	15.5	12.4	6.2	6.2	6.2	9.3	15.5	15.5
82.5°	12.4	9.3	9.3	6.2	6.2	6.2	6.2	9.3	9.3
85°	6.2	6.2	6.2	3.1	3.1	3.1	3.1	6.2	6.2
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)