

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: P799868

Luminaire Tested: **LD6C55D010 EU6559040 6LBMDDWGPB**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799868  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C55D010 EU6559040 6LBMDDWGPH  
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

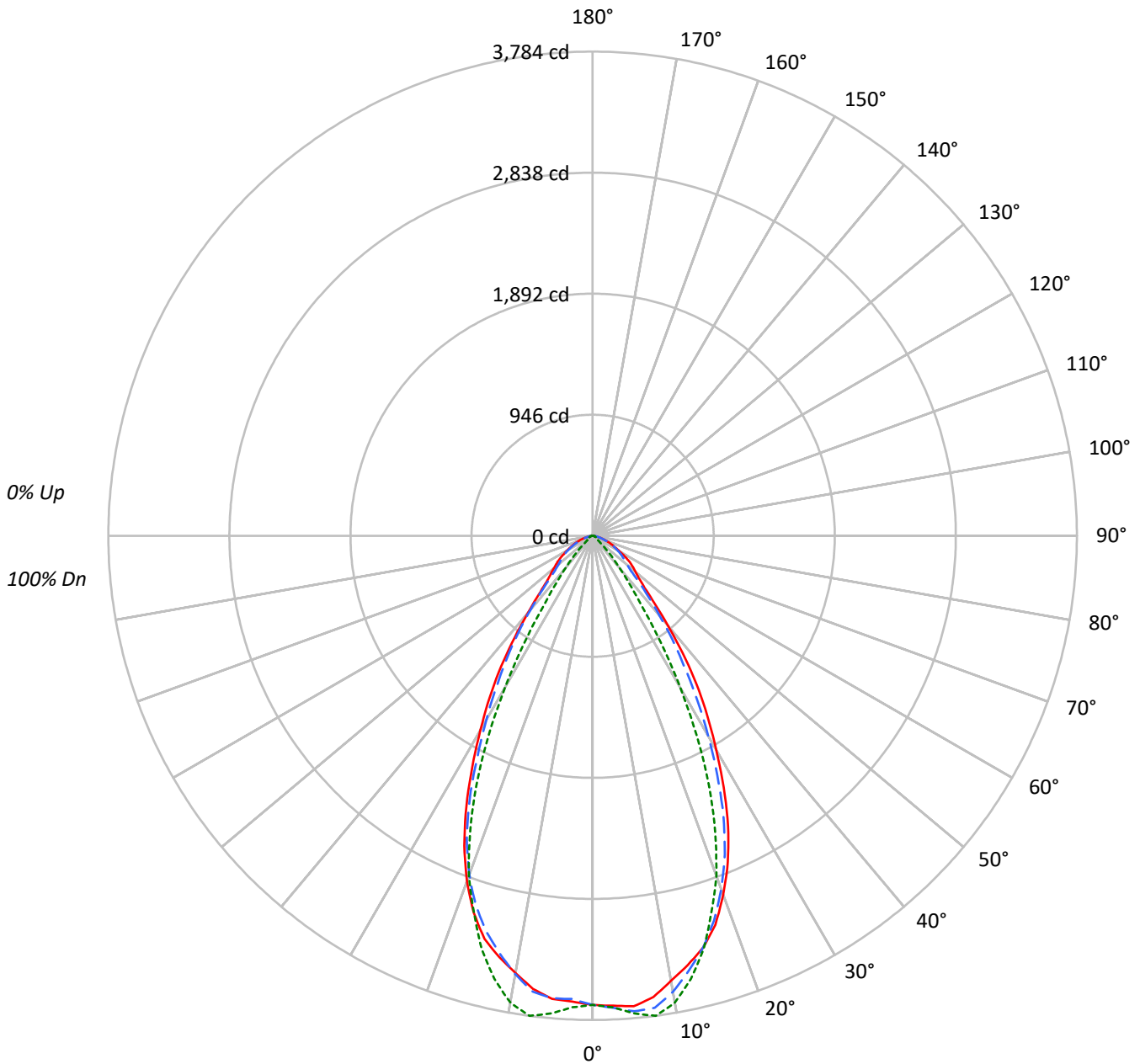
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3733.0 lumens  
Efficiency: N/A  
Efficacy: 58.4 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 63.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83					83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70					70			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64					64			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59					59			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55					55			
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51					51			
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48					48			
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45					45			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	201015	201015	201015
5°	203114	206196	199933
10°	196534	206192	193110
15°	189155	189899	185137
20°	174093	164952	167565
25°	151509	130078	141129
30°	122196	86425	110859
35°	94736	44557	83252
40°	65000	23093	56055
45°	44540	11567	39330
50°	37065	4929	33722
55°	33337	4282	30126
60°	26379	4090	25151
65°	21779	3632	21533
70°	17631	3286	17631
75°	13026	3558	13831
80°	7640	2936	8240
85°	5850	3522	5850



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.0	9.4
10°-20°	916.1	24.5
20°-30°	1045.7	28.0
30°-40°	693.5	18.6
40°-50°	334.5	9.0
50°-60°	205.8	5.5
60°-70°	124.5	3.3
70°-80°	52.4	1.4
80°-90°	11.6	0.3
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°	2310.9	61.9
0°-40°	3004.3	80.5
0°-60°	3544.6	95.0
0°-90°	3733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3733.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3667	3667	3667	3667	3667	
5°	3691	3730	3747	3628	3633	347
15°	3333	3333	3346	3204	3262	929
25°	2505	2421	2150	2275	2333	1136
35°	1416	1248	666	1164	1244	876
45°	574	504	149	470	507	468
55°	349	284	45	284	315	307
65°	168	160	28	151	166	169
75°	62	62	17	58	65	66
85°	9	13	6	9	9	12
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°	3666.8	3666.8	3666.8	3666.8	3666.8	3666.8	3666.8	3666.8	3666.8
2.5°	3676.1	3681.7	3692.9	3694.8	3689.2	3653.7	3623.9	3635.1	3644.4
5°	3691.0	3702.2	3730.2	3756.3	3747.0	3687.3	3627.6	3625.8	3633.2
7.5°	3636.9	3663.1	3720.9	3786.2	3784.3	3681.7	3594.1	3571.7	3571.7
10°	3530.6	3554.9	3618.3	3706.0	3704.1	3575.4	3478.4	3467.2	3469.1
12.5°	3435.5	3446.7	3478.4	3547.4	3547.4	3420.6	3346.0	3357.2	3372.1
15°	3332.9	3340.4	3332.9	3355.3	3346.0	3241.5	3204.2	3239.7	3262.1
17.5°	3187.5	3191.2	3152.0	3122.2	3086.7	3021.5	3030.8	3083.0	3088.6
20°	2984.2	3008.4	2937.5	2861.1	2827.5	2765.9	2818.2	2876.0	2872.3
22.5°	2760.4	2788.3	2696.9	2570.1	2501.1	2476.9	2570.1	2622.3	2620.5
25°	2504.8	2525.3	2420.9	2243.7	2150.5	2146.7	2275.4	2329.5	2333.2
27.5°	2217.6	2225.1	2107.6	1876.3	1760.7	1788.6	1950.9	2025.5	2034.8
30°	1930.4	1926.7	1805.4	1518.2	1365.3	1441.7	1659.9	1742.0	1751.3
32.5°	1667.4	1656.2	1518.2	1175.0	992.2	1106.0	1393.2	1479.0	1493.9
35°	1415.6	1397.0	1247.8	869.1	665.8	835.6	1163.8	1238.4	1244.0
37.5°	1152.6	1143.3	1025.8	650.9	464.4	634.1	949.3	1003.4	997.8
40°	908.3	908.3	811.3	483.1	322.7	471.9	751.6	800.1	783.3
42.5°	712.5	721.8	639.7	356.2	229.4	350.6	595.0	639.7	621.1
45°	574.5	574.5	503.6	264.8	149.2	261.1	470.0	511.0	507.3
47.5°	486.8	479.3	408.5	194.0	82.1	195.8	395.4	445.8	443.9
50°	434.6	423.4	350.6	152.9	57.8	162.3	346.9	393.5	395.4
52.5°	393.5	376.8	315.2	136.2	50.4	141.7	315.2	352.5	352.5
55°	348.8	339.4	283.5	121.2	44.8	126.8	283.5	317.1	315.2
57.5°	294.7	292.8	253.7	110.0	41.0	111.9	253.7	274.2	266.7
60°	240.6	248.1	220.1	98.9	37.3	100.7	216.4	233.1	229.4
62.5°	201.4	210.8	192.1	87.7	31.7	89.5	182.8	199.6	195.8
65°	167.9	175.3	160.4	74.6	28.0	74.6	151.1	166.0	166.0
67.5°	138.0	143.6	132.4	61.5	24.2	61.5	123.1	136.2	138.0
70°	110.0	113.8	104.4	48.5	20.5	50.4	97.0	110.0	110.0
72.5°	85.8	87.7	82.1	39.2	18.7	39.2	74.6	85.8	85.8
75°	61.5	65.3	61.5	29.8	16.8	29.8	57.8	63.4	65.3
77.5°	35.4	44.8	44.8	24.2	13.1	22.4	41.0	42.9	42.9
80°	24.2	28.0	31.7	16.8	9.3	16.8	26.1	28.0	26.1
82.5°	16.8	18.7	18.7	11.2	7.5	11.2	16.8	18.7	16.8
85°	9.3	13.1	13.1	9.3	5.6	7.5	9.3	11.2	9.3
87.5°	5.6	7.5	9.3	7.5	5.6	5.6	5.6	5.6	3.7
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)