

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: P799703

Luminaire Tested: **LD6C40D010 EU6409050 6LBMDDWMW**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799703  
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: LD6C40D010 EU6409050 6LBMDDWMW  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

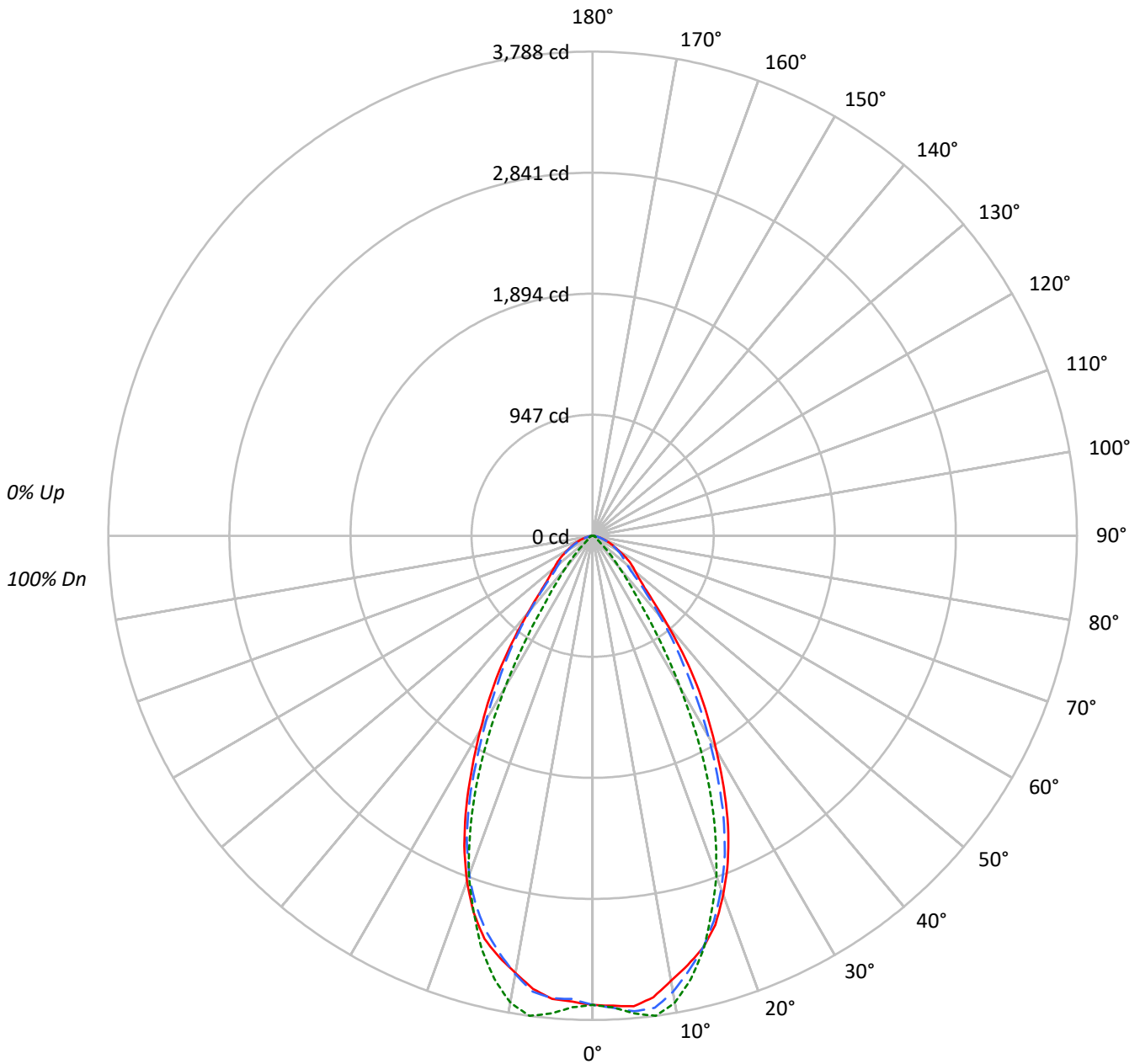
Lumens per Lamp: N/A  
Luminaire Lumens: 3737.0 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
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°	201228	201228	201228
5°	203334	206416	200148
10°	196745	206415	193316
15°	189360	190103	185336
20°	174280	165127	167740
25°	151672	130217	141280
30°	122323	86513	110979
35°	94837	44611	83346
40°	65072	23115	56119
45°	44586	11583	39376
50°	37099	4938	33756
55°	33366	4282	30154
60°	26412	4090	25184
65°	21792	3632	21559
70°	17663	3286	17663
75°	13047	3558	13831
80°	7671	2936	8240
85°	5850	3522	5850



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.4	9.4
10°-20°	917.1	24.5
20°-30°	1046.8	28.0
30°-40°	694.2	18.6
40°-50°	334.8	9.0
50°-60°	206.0	5.5
60°-70°	124.6	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°	2313.3	61.9
0°-40°	3007.6	80.5
0°-60°	3548.4	95.0
0°-90°	3737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3737.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3671	3671	3671	3671	3671	
5°	3695	3734	3751	3632	3637	347
15°	3336	3336	3350	3208	3266	930
25°	2508	2424	2153	2278	2336	1137
35°	1417	1249	667	1165	1245	877
45°	575	504	149	470	508	469
55°	349	284	45	284	316	307
65°	168	161	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°	3670.7	3670.7	3670.7	3670.7	3670.7	3670.7	3670.7	3670.7	3670.7
2.5°	3680.1	3685.7	3696.9	3698.7	3693.1	3657.7	3627.8	3639.0	3648.3
5°	3695.0	3706.2	3734.2	3760.3	3751.0	3691.3	3631.5	3629.6	3637.1
7.5°	3640.8	3667.0	3724.9	3790.2	3788.3	3685.7	3597.9	3575.5	3575.5
10°	3534.4	3558.7	3622.2	3709.9	3708.1	3579.2	3482.1	3470.9	3472.8
12.5°	3439.2	3450.4	3482.1	3551.2	3551.2	3424.3	3349.6	3360.8	3375.7
15°	3336.5	3344.0	3336.5	3358.9	3349.6	3245.0	3207.7	3243.2	3265.6
17.5°	3190.9	3194.6	3155.4	3125.5	3090.1	3024.7	3034.0	3086.3	3091.9
20°	2987.4	3011.6	2940.7	2864.1	2830.5	2768.9	2821.2	2879.1	2875.3
22.5°	2763.3	2791.3	2699.8	2572.9	2503.8	2479.5	2572.9	2625.1	2623.3
25°	2507.5	2528.1	2423.5	2246.1	2152.8	2149.0	2277.9	2332.0	2335.7
27.5°	2220.0	2227.5	2109.8	1878.3	1762.5	1790.5	1953.0	2027.7	2037.0
30°	1932.4	1928.7	1807.4	1519.8	1366.7	1443.3	1661.7	1743.9	1753.2
32.5°	1669.2	1658.0	1519.8	1176.3	993.3	1107.2	1394.7	1480.6	1495.5
35°	1417.1	1398.5	1249.1	870.1	666.6	836.5	1165.1	1239.8	1245.4
37.5°	1153.9	1144.5	1026.9	651.6	464.9	634.8	950.4	1004.5	998.9
40°	909.3	909.3	812.2	483.6	323.0	472.4	752.4	801.0	784.2
42.5°	713.2	722.6	640.4	356.6	229.7	351.0	595.6	640.4	621.7
45°	575.1	575.1	504.1	265.1	149.4	261.4	470.5	511.6	507.9
47.5°	487.3	479.8	408.9	194.2	82.2	196.0	395.8	446.2	444.4
50°	435.0	423.8	351.0	153.1	57.9	162.4	347.3	394.0	395.8
52.5°	394.0	377.2	315.5	136.3	50.4	141.9	315.5	352.9	352.9
55°	349.1	339.8	283.8	121.4	44.8	127.0	283.8	317.4	315.5
57.5°	295.0	293.1	253.9	110.2	41.1	112.0	253.9	274.5	267.0
60°	240.9	248.3	220.3	99.0	37.3	100.8	216.6	233.4	229.7
62.5°	201.6	211.0	192.3	87.8	31.7	89.6	183.0	199.8	196.0
65°	168.0	175.5	160.6	74.7	28.0	74.7	151.2	166.2	166.2
67.5°	138.2	143.8	132.6	61.6	24.3	61.6	123.2	136.3	138.2
70°	110.2	113.9	104.6	48.5	20.5	50.4	97.1	110.2	110.2
72.5°	85.9	87.8	82.2	39.2	18.7	39.2	74.7	85.9	85.9
75°	61.6	65.3	61.6	29.9	16.8	29.9	57.9	63.5	65.3
77.5°	35.5	44.8	44.8	24.3	13.1	22.4	41.1	42.9	42.9
80°	24.3	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)