

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: P799657

Luminaire Tested: **LD6C40D010 EU6409027 6LBMDDWWMH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799657  
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 EU6409027 6LBMDDWWMH  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

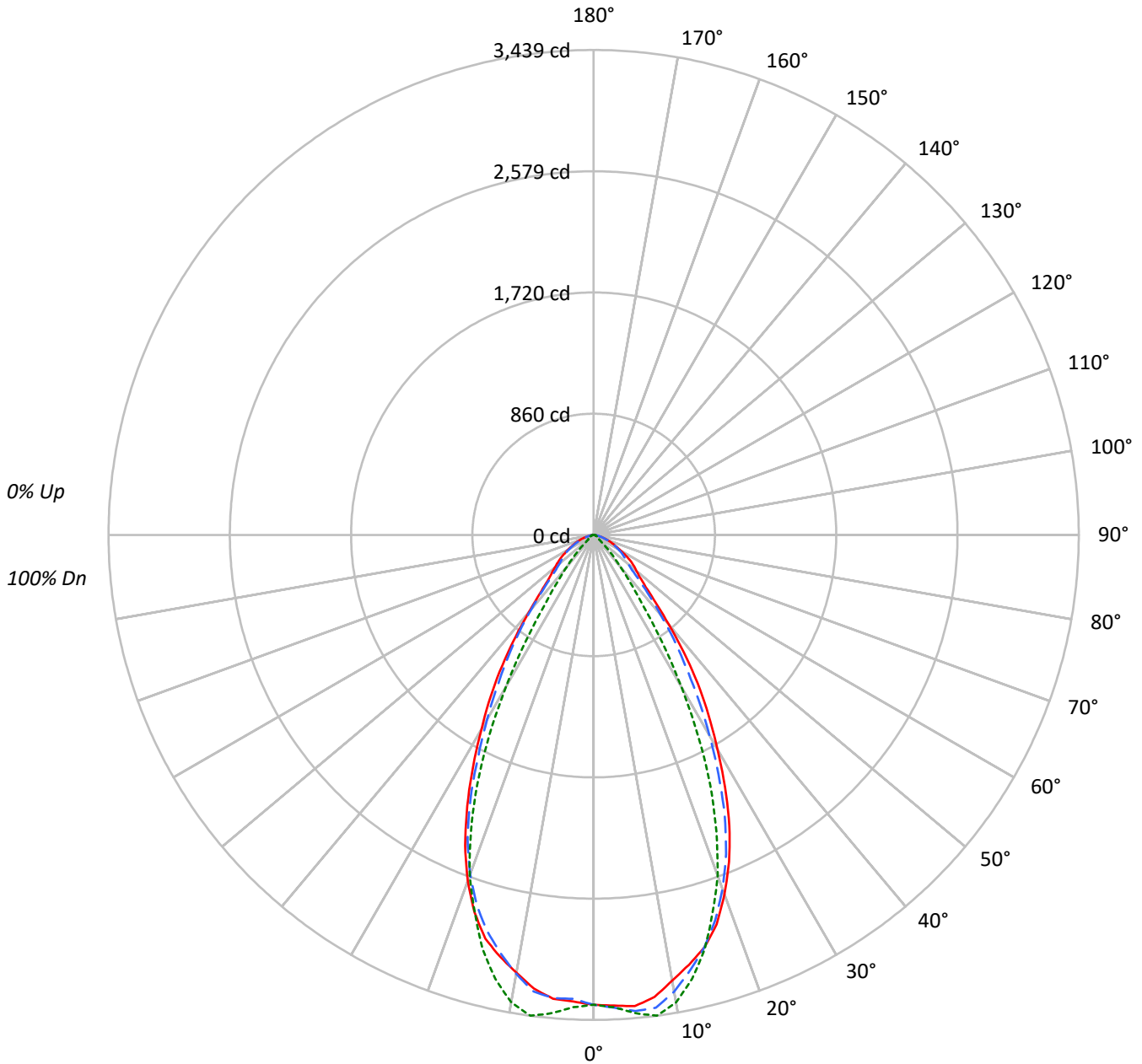
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3392.0 lumens  
Efficiency: N/A  
Efficacy: 72.2 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°	182650	182650	182650
5°	184564	187359	181669
10°	178582	187355	175470
15°	171880	172549	168225
20°	158190	149883	152257
25°	137669	118192	128239
30°	111030	78525	100737
35°	86083	40488	75650
40°	59061	20982	50938
45°	40469	10513	35740
50°	33679	4477	30643
55°	30288	3890	27373
60°	23967	3717	22860
65°	19782	3295	19561
70°	16028	2981	16028
75°	11840	3241	12560
80°	6945	2683	7482
85°	5346	3208	5346



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.2	9.4
10°-20°	832.4	24.5
20°-30°	950.2	28.0
30°-40°	630.1	18.6
40°-50°	303.9	9.0
50°-60°	187.0	5.5
60°-70°	113.1	3.3
70°-80°	47.6	1.4
80°-90°	10.5	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°	2099.8	61.9
0°-40°	2729.9	80.5
0°-60°	3220.8	95.0
0°-90°	3392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3392.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3332	3332	3332	3332	3332	
5°	3354	3390	3405	3296	3301	315
15°	3028	3028	3040	2912	2964	844
25°	2276	2200	1954	2068	2120	1032
35°	1286	1134	605	1058	1130	796
45°	522	458	136	427	461	426
55°	317	258	41	258	286	279
65°	152	146	25	137	151	153
75°	56	56	15	52	59	60
85°	8	12	5	8	8	11
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°	3331.8	3331.8	3331.8	3331.8	3331.8	3331.8	3331.8	3331.8	3331.8
2.5°	3340.3	3345.4	3355.6	3357.3	3352.2	3320.0	3292.9	3303.0	3311.5
5°	3353.9	3364.0	3389.5	3413.2	3404.7	3350.5	3296.3	3294.6	3301.3
7.5°	3304.7	3328.4	3381.0	3440.3	3438.6	3345.4	3265.7	3245.4	3245.4
10°	3208.1	3230.2	3287.8	3367.4	3365.7	3248.8	3160.7	3150.5	3152.2
12.5°	3121.7	3131.9	3160.7	3223.4	3223.4	3108.1	3040.3	3050.5	3064.1
15°	3028.5	3035.3	3028.5	3048.8	3040.3	2945.4	2911.5	2943.7	2964.1
17.5°	2896.3	2899.7	2864.1	2837.0	2804.8	2745.5	2753.9	2801.4	2806.5
20°	2711.6	2733.6	2669.2	2599.7	2569.2	2513.3	2560.7	2613.3	2609.9
22.5°	2508.2	2533.6	2450.6	2335.3	2272.6	2250.6	2335.3	2382.8	2381.1
25°	2276.0	2294.7	2199.8	2038.8	1954.0	1950.6	2067.6	2116.7	2120.1
27.5°	2015.0	2021.8	1915.0	1704.9	1599.8	1625.2	1772.7	1840.5	1849.0
30°	1754.0	1750.7	1640.5	1379.5	1240.5	1310.0	1508.3	1582.9	1591.4
32.5°	1515.1	1504.9	1379.5	1067.7	901.6	1005.0	1266.0	1343.9	1357.5
35°	1286.3	1269.4	1133.8	789.7	605.0	759.2	1057.5	1125.3	1130.4
37.5°	1047.3	1038.9	932.1	591.5	422.0	576.2	862.6	911.8	906.7
40°	825.3	825.3	737.2	438.9	293.2	428.8	683.0	727.0	711.8
42.5°	647.4	655.9	581.3	323.7	208.5	318.6	540.6	581.3	564.3
45°	522.0	522.0	457.6	240.7	135.6	237.3	427.1	464.4	461.0
47.5°	442.3	435.5	371.1	176.3	74.6	177.9	359.3	405.0	403.3
50°	394.9	384.7	318.6	139.0	52.5	147.4	315.2	357.6	359.3
52.5°	357.6	342.3	286.4	123.7	45.8	128.8	286.4	320.3	320.3
55°	316.9	308.4	257.6	110.2	40.7	115.2	257.6	288.1	286.4
57.5°	267.8	266.1	230.5	100.0	37.3	101.7	230.5	249.1	242.3
60°	218.6	225.4	200.0	89.8	33.9	91.5	196.6	211.8	208.5
62.5°	183.0	191.5	174.6	79.7	28.8	81.3	166.1	181.3	177.9
65°	152.5	159.3	145.7	67.8	25.4	67.8	137.3	150.8	150.8
67.5°	125.4	130.5	120.3	55.9	22.0	55.9	111.9	123.7	125.4
70°	100.0	103.4	94.9	44.1	18.6	45.8	88.1	100.0	100.0
72.5°	78.0	79.7	74.6	35.6	16.9	35.6	67.8	78.0	78.0
75°	55.9	59.3	55.9	27.1	15.3	27.1	52.5	57.6	59.3
77.5°	32.2	40.7	40.7	22.0	11.9	20.3	37.3	39.0	39.0
80°	22.0	25.4	28.8	15.3	8.5	15.3	23.7	25.4	23.7
82.5°	15.3	16.9	16.9	10.2	6.8	10.2	15.3	16.9	15.3
85°	8.5	11.9	11.9	8.5	5.1	6.8	8.5	10.2	8.5
87.5°	5.1	6.8	8.5	6.8	5.1	5.1	5.1	5.1	3.4
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)