

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: P799697

Luminaire Tested: **LD6C40D010 EU6409040 6LBMDSWMW**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799697  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C40D010 EU6409040 6LBMDSWMW  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

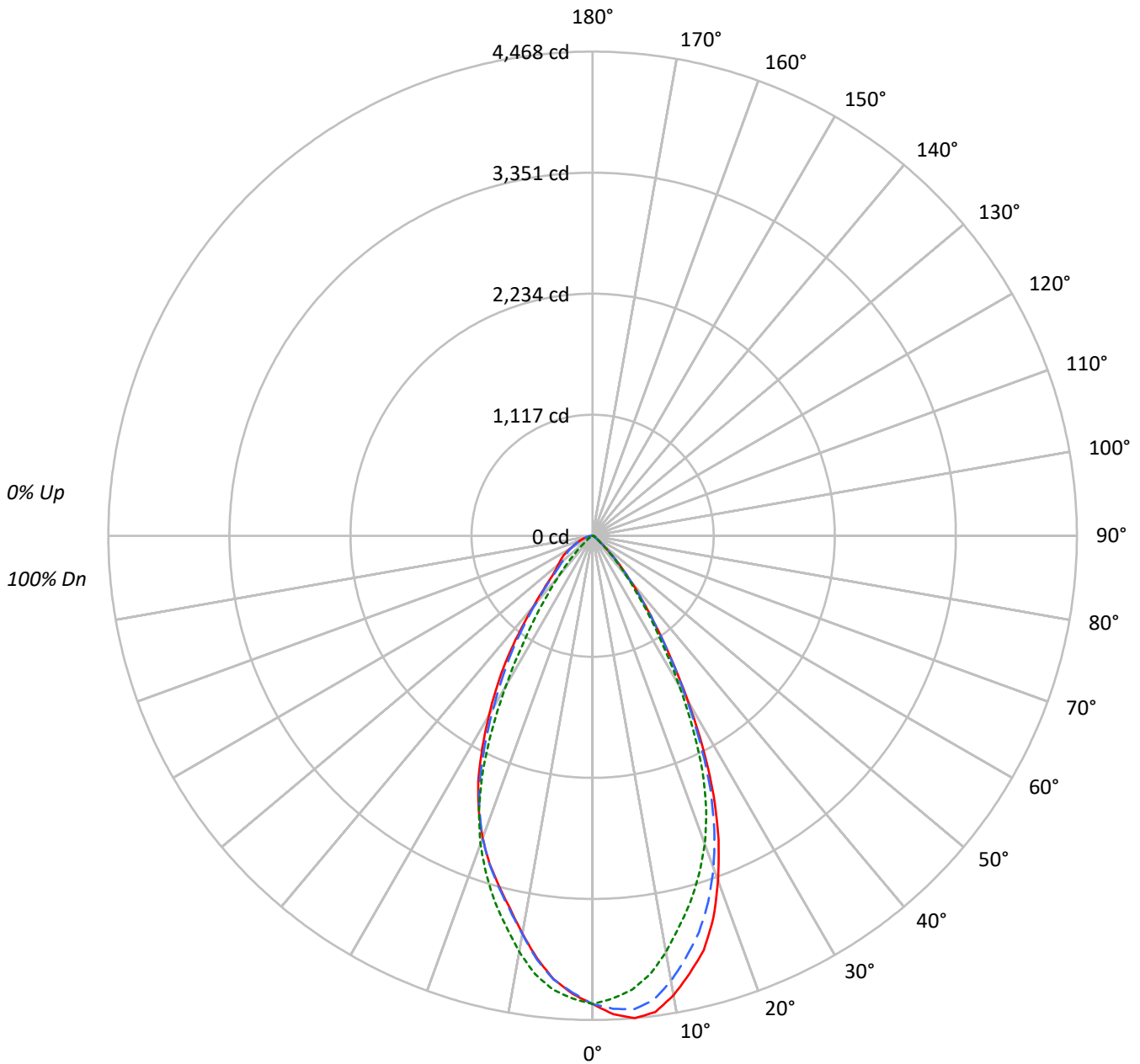
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3720.0 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83  
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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100				
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92				92				
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85				
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78				78				
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73				73				
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67				67				
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63				63				
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59				59				
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55				55				
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52				52				
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49				49				

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

	0°	90°	180°
0°	236862	236862	236862
5°	245872	231306	226072
10°	239586	216963	207417
15°	224695	198247	189678
20°	197260	176491	173119
25°	159535	144994	150970
30°	110916	101003	120822
35°	68362	61870	91189
40°	38687	34679	60563
45°	18785	17917	41330
50°	7155	7155	35129
55°	3919	4635	32419
60°	2862	3684	26566
65°	2413	3139	21766
70°	2084	2693	17920
75°	1970	2754	15399
80°	1168	2368	11176
85°	1195	4717	10567



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.6	10.6
10°-20°	994.2	26.7
20°-30°	1119.2	30.1
30°-40°	693.0	18.6
40°-50°	276.0	7.4
50°-60°	125.6	3.4
60°-70°	72.2	1.9
70°-80°	34.3	0.9
80°-90°	10.0	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°	2508.9	67.4
0°-40°	3201.9	86.1
0°-60°	3603.5	96.9
0°-90°	3720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3720.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4321	4321	4321	4321	4321	
5°	4468	4386	4203	4112	4108	421
15°	3959	3788	3493	3352	3342	1095
25°	2638	2567	2397	2457	2496	1186
35°	1022	1016	924	1288	1363	656
45°	242	242	231	503	533	205
55°	41	39	48	298	339	41
65°	19	17	24	166	168	18
75°	9	9	13	71	73	10
85°	2	2	8	17	17	2
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°	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7
2.5°	4419.5	4378.5	4369.2	4333.8	4274.1	4240.6	4220.1	4205.2	4231.3
5°	4468.0	4423.3	4386.0	4313.3	4203.3	4141.8	4112.0	4087.7	4108.2
7.5°	4432.6	4369.2	4318.9	4218.2	4078.4	3983.4	3942.3	3914.4	3933.0
10°	4304.0	4227.5	4169.7	4050.5	3897.6	3783.9	3733.6	3707.5	3726.1
12.5°	4136.2	4072.8	3985.2	3854.7	3690.7	3571.4	3534.1	3513.6	3521.1
15°	3959.1	3884.6	3787.6	3657.2	3493.1	3373.8	3351.5	3338.4	3342.1
17.5°	3701.9	3629.2	3545.3	3418.6	3267.6	3170.6	3170.6	3161.3	3166.9
20°	3381.3	3342.1	3260.1	3153.9	3025.3	2937.7	2965.6	2956.3	2967.5
22.5°	3034.6	3004.8	2933.9	2846.3	2738.2	2669.2	2730.7	2728.9	2743.8
25°	2637.5	2615.2	2566.7	2492.2	2397.1	2354.2	2456.7	2456.7	2495.9
27.5°	2199.5	2177.1	2143.6	2080.2	2001.9	1988.9	2139.9	2158.5	2201.4
30°	1752.2	1737.2	1718.6	1660.8	1595.6	1619.8	1828.6	1860.3	1908.7
32.5°	1353.3	1343.9	1338.3	1286.2	1228.4	1308.5	1547.1	1588.1	1636.6
35°	1021.5	1001.0	1015.9	976.7	924.5	1025.2	1288.0	1323.4	1362.6
37.5°	753.1	738.1	751.2	723.2	676.6	786.6	1034.5	1056.9	1083.0
40°	540.6	527.5	538.7	521.9	484.6	587.2	810.8	835.1	846.3
42.5°	384.0	361.6	372.8	359.8	341.1	441.8	637.5	659.9	663.6
45°	242.3	234.9	242.3	234.9	231.1	328.1	503.3	523.8	533.1
47.5°	147.3	137.9	137.9	134.2	137.9	242.3	415.7	445.5	460.4
50°	83.9	80.2	78.3	76.4	83.9	190.1	359.8	393.3	411.9
52.5°	55.9	54.1	54.1	52.2	61.5	160.3	324.3	354.2	372.8
55°	41.0	39.1	39.1	39.1	48.5	137.9	298.2	322.5	339.2
57.5°	31.7	31.7	31.7	29.8	41.0	117.4	266.6	279.6	292.6
60°	26.1	24.2	24.2	24.2	33.6	100.7	229.3	234.9	242.3
62.5°	20.5	20.5	20.5	20.5	28.0	89.5	197.6	197.6	201.3
65°	18.6	16.8	16.8	16.8	24.2	78.3	165.9	164.0	167.8
67.5°	14.9	14.9	14.9	14.9	20.5	67.1	136.1	134.2	137.9
70°	13.0	13.0	13.0	13.0	16.8	55.9	110.0	108.1	111.8
72.5°	11.2	11.2	11.2	11.2	14.9	46.6	87.6	87.6	89.5
75°	9.3	9.3	9.3	9.3	13.0	35.4	70.8	70.8	72.7
77.5°	7.5	7.5	7.5	7.5	9.3	28.0	54.1	52.2	52.2
80°	3.7	5.6	5.6	5.6	7.5	20.5	39.1	35.4	35.4
82.5°	1.9	3.7	3.7	3.7	7.5	14.9	26.1	24.2	24.2
85°	1.9	1.9	1.9	5.6	7.5	11.2	16.8	16.8	16.8
87.5°	0.0	1.9	3.7	7.5	9.3	9.3	11.2	9.3	9.3
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)