

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: P799658

Luminaire Tested: **LD6C40D010 EU6409027 6LBMDSWGPH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799658  
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 EU6409027 6LBMDSWGPH  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

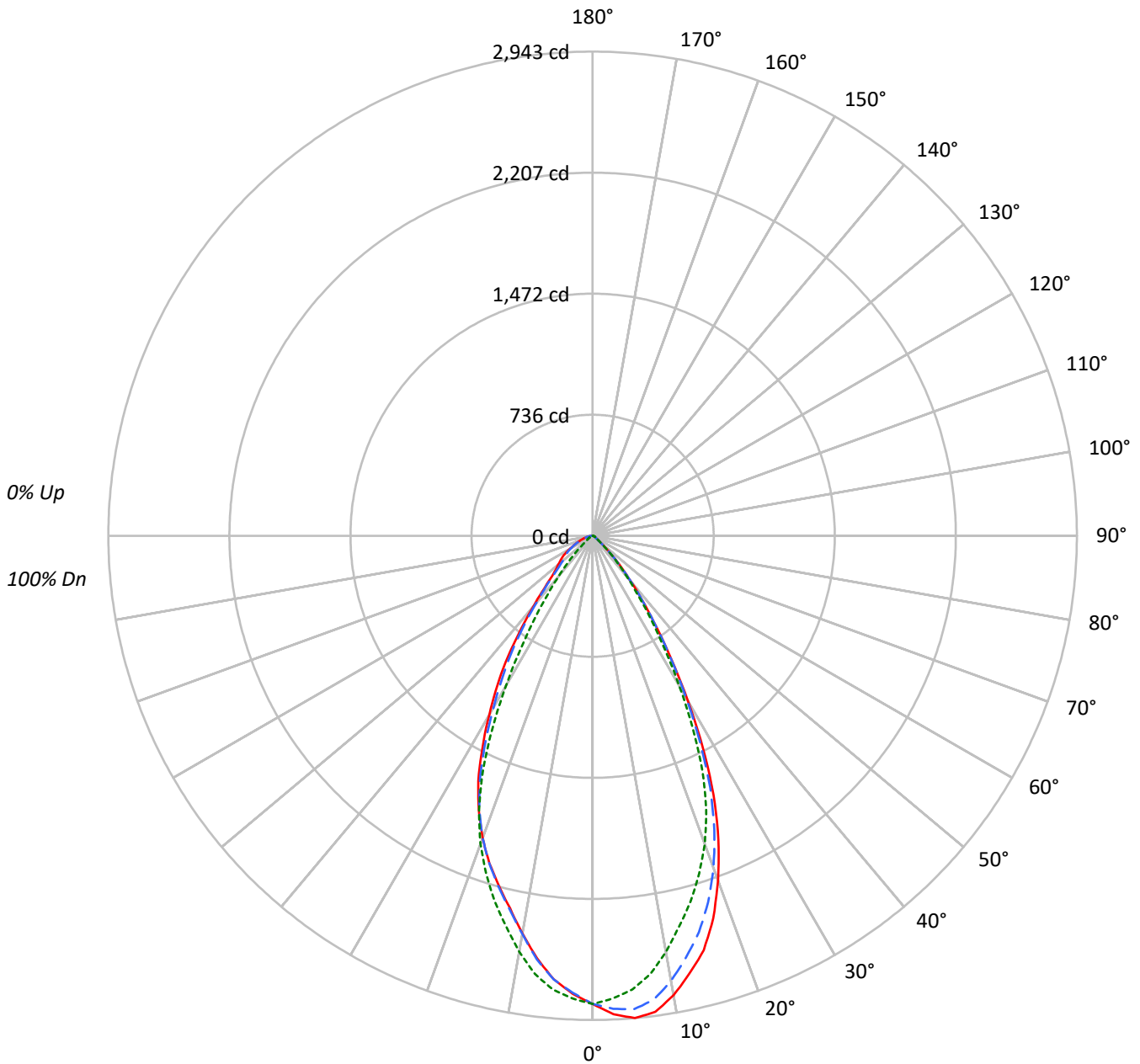
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2450.0 lumens  
Efficiency: N/A  
Efficacy: 52.1 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	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°	155996	155996	155996
5°	161930	152338	148894
10°	157790	142894	136604
15°	147986	130568	124921
20°	129914	116233	114017
25°	105073	95491	99429
30°	73049	66523	79576
35°	45019	40749	60057
40°	25476	22843	39882
45°	12373	11800	27220
50°	4708	4708	23138
55°	2581	3049	21352
60°	1886	2423	17499
65°	1596	2075	14334
70°	1378	1763	11813
75°	1292	1822	10146
80°	789	1547	7356
85°	755	3082	6919



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.5	10.6
10°-20°	654.8	26.7
20°-30°	737.1	30.1
30°-40°	456.4	18.6
40°-50°	181.8	7.4
50°-60°	82.7	3.4
60°-70°	47.6	1.9
70°-80°	22.6	0.9
80°-90°	6.6	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°	1652.3	67.4
0°-40°	2108.8	86.1
0°-60°	2373.3	96.9
0°-90°	2450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2450.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2846	2846	2846	2846	2846	
5°	2943	2889	2768	2708	2706	277
15°	2608	2494	2301	2207	2201	721
25°	1737	1690	1579	1618	1644	781
35°	673	669	609	848	897	432
45°	160	160	152	332	351	135
55°	27	26	32	196	223	27
65°	12	11	16	109	110	12
75°	6	6	9	47	48	6
85°	1	1	5	11	11	1
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°	2845.6	2845.6	2845.6	2845.6	2845.6	2845.6	2845.6	2845.6	2845.6
2.5°	2910.7	2883.7	2877.6	2854.2	2815.0	2792.9	2779.4	2769.5	2786.7
5°	2942.6	2913.2	2888.6	2840.7	2768.3	2727.8	2708.1	2692.2	2705.7
7.5°	2919.3	2877.6	2844.4	2778.1	2686.1	2623.4	2596.4	2578.0	2590.3
10°	2834.6	2784.3	2746.2	2667.6	2567.0	2492.1	2458.9	2441.8	2454.0
12.5°	2724.1	2682.4	2624.7	2538.7	2430.7	2352.1	2327.6	2314.1	2319.0
15°	2607.5	2558.4	2494.5	2408.6	2300.6	2222.0	2207.3	2198.7	2201.1
17.5°	2438.1	2390.2	2335.0	2251.5	2152.0	2088.2	2088.2	2082.1	2085.7
20°	2226.9	2201.1	2147.1	2077.1	1992.4	1934.7	1953.2	1947.0	1954.4
22.5°	1998.6	1978.9	1932.3	1874.6	1803.4	1758.0	1798.5	1797.2	1807.1
25°	1737.1	1722.4	1690.4	1641.3	1578.7	1550.5	1618.0	1618.0	1643.8
27.5°	1448.6	1433.9	1411.8	1370.0	1318.5	1309.9	1409.3	1421.6	1449.8
30°	1154.0	1144.2	1131.9	1093.8	1050.9	1066.8	1204.3	1225.2	1257.1
32.5°	891.3	885.1	881.4	847.1	809.0	861.8	1018.9	1045.9	1077.9
35°	672.7	659.2	669.1	643.3	608.9	675.2	848.3	871.6	897.4
37.5°	496.0	486.1	494.7	476.3	445.6	518.1	681.3	696.1	713.3
40°	356.0	347.4	354.8	343.7	319.2	386.7	534.0	550.0	557.3
42.5°	252.9	238.2	245.5	236.9	224.7	290.9	419.8	434.6	437.0
45°	159.6	154.7	159.6	154.7	152.2	216.1	331.5	345.0	351.1
47.5°	97.0	90.8	90.8	88.4	90.8	159.6	273.8	293.4	303.2
50°	55.2	52.8	51.6	50.3	55.2	125.2	236.9	259.0	271.3
52.5°	36.8	35.6	35.6	34.4	40.5	105.6	213.6	233.2	245.5
55°	27.0	25.8	25.8	25.8	31.9	90.8	196.4	212.4	223.4
57.5°	20.9	20.9	20.9	19.6	27.0	77.3	175.6	184.1	192.7
60°	17.2	16.0	16.0	16.0	22.1	66.3	151.0	154.7	159.6
62.5°	13.5	13.5	13.5	13.5	18.4	58.9	130.1	130.1	132.6
65°	12.3	11.0	11.0	11.0	16.0	51.6	109.3	108.0	110.5
67.5°	9.8	9.8	9.8	9.8	13.5	44.2	89.6	88.4	90.8
70°	8.6	8.6	8.6	8.6	11.0	36.8	72.4	71.2	73.7
72.5°	7.4	7.4	7.4	7.4	9.8	30.7	57.7	57.7	58.9
75°	6.1	6.1	6.1	6.1	8.6	23.3	46.6	46.6	47.9
77.5°	4.9	4.9	4.9	4.9	6.1	18.4	35.6	34.4	34.4
80°	2.5	3.7	3.7	3.7	4.9	13.5	25.8	23.3	23.3
82.5°	1.2	2.5	2.5	2.5	4.9	9.8	17.2	16.0	16.0
85°	1.2	1.2	1.2	3.7	4.9	7.4	11.0	11.0	11.0
87.5°	0.0	1.2	2.5	4.9	6.1	6.1	7.4	6.1	6.1
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)