

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: P799694

Luminaire Tested: **LD6C40D010 EU6409040 6LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799694
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 6LBMDSWGPH
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

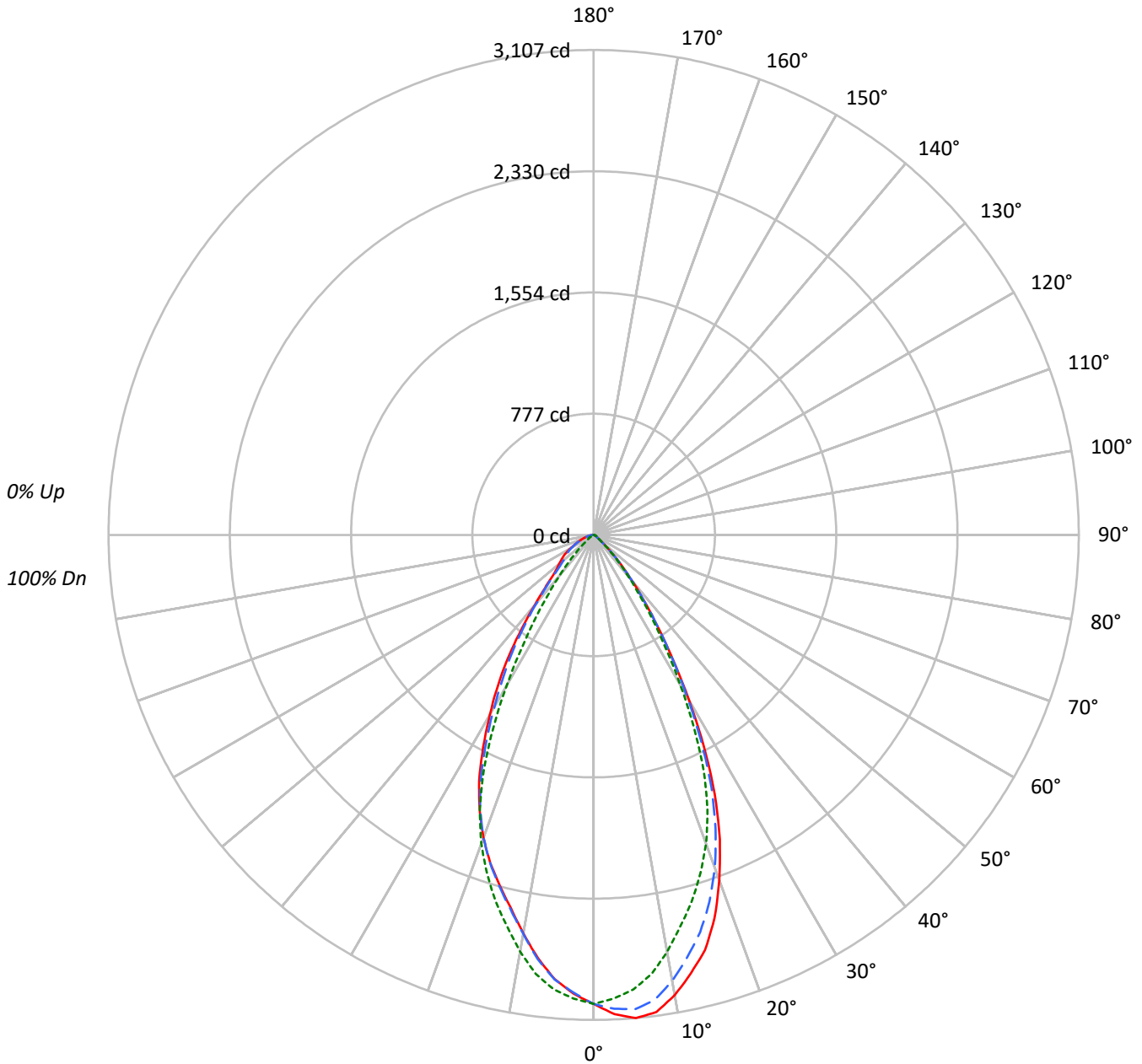
Lumens per Lamp: N/A
Luminaire Lumens: 2587.0 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): 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	57	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°	164724	164724	164724
5°	170988	160857	157219
10°	166613	150882	144247
15°	156261	137867	131908
20°	137177	122738	120393
25°	110946	100832	104988
30°	77132	70239	84026
35°	47542	43032	63416
40°	26900	24117	42115
45°	13063	12459	28739
50°	4972	4972	24434
55°	2724	3221	22546
60°	1984	2555	18474
65°	1686	2192	15138
70°	1459	1875	12470
75°	1377	1927	10718
80°	821	1642	7766
85°	818	3271	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.1	10.6
10°-20°	691.4	26.7
20°-30°	778.3	30.1
30°-40°	481.9	18.6
40°-50°	191.9	7.4
50°-60°	87.4	3.4
60°-70°	50.2	1.9
70°-80°	23.9	0.9
80°-90°	7.0	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°	1744.7	67.4
0°-40°	2226.7	86.1
0°-60°	2505.9	96.9
0°-90°	2587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2587.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3005	3005	3005	3005	3005	
5°	3107	3050	2923	2860	2857	293
15°	2753	2634	2429	2331	2324	762
25°	1834	1785	1667	1708	1736	824
35°	710	706	643	896	948	457
45°	168	168	161	350	371	143
55°	28	27	34	207	236	28
65°	13	12	17	115	117	13
75°	6	6	9	49	51	7
85°	1	1	5	12	12	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°	3004.8	3004.8	3004.8	3004.8	3004.8	3004.8	3004.8	3004.8	3004.8
2.5°	3073.5	3045.0	3038.5	3013.8	2972.4	2949.0	2934.8	2924.4	2942.5
5°	3107.2	3076.1	3050.1	2999.6	2923.1	2880.3	2859.6	2842.7	2857.0
7.5°	3082.5	3038.5	3003.5	2933.5	2836.3	2770.1	2741.6	2722.2	2735.1
10°	2993.1	2940.0	2899.8	2816.8	2710.5	2631.4	2596.4	2578.3	2591.3
12.5°	2876.4	2832.4	2771.4	2680.7	2566.6	2483.7	2457.7	2443.5	2448.7
15°	2753.3	2701.4	2634.0	2543.3	2429.2	2346.3	2330.7	2321.6	2324.2
17.5°	2574.4	2523.8	2465.5	2377.4	2272.4	2205.0	2205.0	2198.5	2202.4
20°	2351.4	2324.2	2267.2	2193.3	2103.9	2042.9	2062.4	2055.9	2063.7
22.5°	2110.3	2089.6	2040.3	1979.4	1904.2	1856.3	1899.0	1897.7	1908.1
25°	1834.2	1818.7	1785.0	1733.1	1667.0	1637.2	1708.5	1708.5	1735.7
27.5°	1529.6	1514.1	1490.7	1446.6	1392.2	1383.1	1488.1	1501.1	1530.9
30°	1218.5	1208.1	1195.2	1155.0	1109.6	1126.5	1271.6	1293.7	1327.4
32.5°	941.1	934.6	930.7	894.4	854.2	910.0	1075.9	1104.4	1138.1
35°	710.4	696.1	706.5	679.2	643.0	713.0	895.7	920.4	947.6
37.5°	523.7	513.3	522.4	503.0	470.5	547.0	719.4	735.0	753.1
40°	375.9	366.8	374.6	363.0	337.0	408.3	563.9	580.7	588.5
42.5°	267.0	251.5	259.3	250.2	237.2	307.2	443.3	458.9	461.5
45°	168.5	163.3	168.5	163.3	160.7	228.1	350.0	364.3	370.7
47.5°	102.4	95.9	95.9	93.3	95.9	168.5	289.1	309.8	320.2
50°	58.3	55.7	54.4	53.1	58.3	132.2	250.2	273.5	286.5
52.5°	38.9	37.6	37.6	36.3	42.8	111.5	225.6	246.3	259.3
55°	28.5	27.2	27.2	27.2	33.7	95.9	207.4	224.3	235.9
57.5°	22.0	22.0	22.0	20.7	28.5	81.7	185.4	194.4	203.5
60°	18.1	16.9	16.9	16.9	23.3	70.0	159.4	163.3	168.5
62.5°	14.3	14.3	14.3	14.3	19.4	62.2	137.4	137.4	140.0
65°	13.0	11.7	11.7	11.7	16.9	54.4	115.4	114.1	116.7
67.5°	10.4	10.4	10.4	10.4	14.3	46.7	94.6	93.3	95.9
70°	9.1	9.1	9.1	9.1	11.7	38.9	76.5	75.2	77.8
72.5°	7.8	7.8	7.8	7.8	10.4	32.4	60.9	60.9	62.2
75°	6.5	6.5	6.5	6.5	9.1	24.6	49.3	49.3	50.6
77.5°	5.2	5.2	5.2	5.2	6.5	19.4	37.6	36.3	36.3
80°	2.6	3.9	3.9	3.9	5.2	14.3	27.2	24.6	24.6
82.5°	1.3	2.6	2.6	2.6	5.2	10.4	18.1	16.9	16.9
85°	1.3	1.3	1.3	3.9	5.2	7.8	11.7	11.7	11.7
87.5°	0.0	1.3	2.6	5.2	6.5	6.5	7.8	6.5	6.5
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)