

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: P799808

Luminaire Tested: **LD6C50D010 EU6509040 6LBMDDWGPB**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799808
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: LD6C50D010 EU6509040 6LBMDDWGPH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

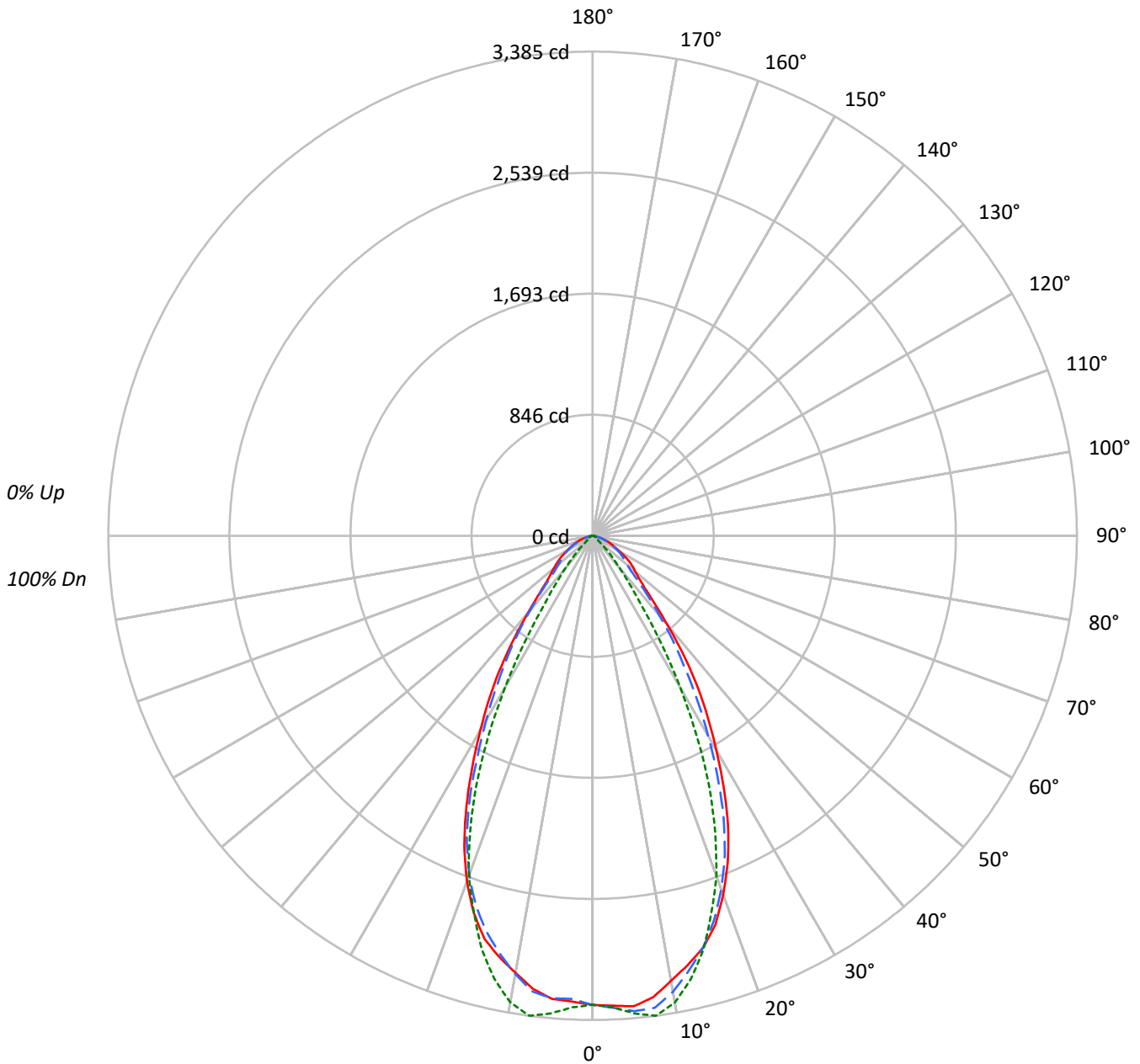
Lumens per Lamp: N/A
Luminaire Lumens: 3339.0 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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									
RC	80									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																			
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91																			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70																			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64																			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59																			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55																			
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51																			
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48																			
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	179799	179799	179799
5°	181680	184432	178835
10°	175793	184427	172726
15°	169195	169853	165597
20°	155717	147544	149877
25°	135522	116347	126237
30°	109295	77303	99161
35°	84738	39859	74465
40°	58137	20653	50144
45°	39834	10350	35182
50°	33150	4409	30165
55°	29820	3823	26943
60°	23595	3662	22498
65°	19470	3243	19263
70°	15772	2949	15772
75°	11671	3177	12370
80°	6851	2620	7387
85°	5221	3145	5221



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.2	9.4
10°-20°	819.4	24.5
20°-30°	935.3	28.0
30°-40°	620.3	18.6
40°-50°	299.2	9.0
50°-60°	184.0	5.5
60°-70°	111.4	3.3
70°-80°	46.8	1.4
80°-90°	10.3	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°	2067.0	61.9
0°-40°	2687.2	80.5
0°-60°	3170.4	95.0
0°-90°	3339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3339.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3280	3280	3280	3280	3280	
5°	3302	3336	3352	3245	3250	310
15°	2981	2981	2993	2866	2918	831
25°	2240	2165	1924	2035	2087	1016
35°	1266	1116	596	1041	1113	783
45°	514	450	134	420	454	419
55°	312	254	40	254	282	274
65°	150	144	25	135	148	151
75°	55	55	15	52	58	59
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°	3279.8	3279.8	3279.8	3279.8	3279.8	3279.8	3279.8	3279.8	3279.8
2.5°	3288.1	3293.1	3303.1	3304.8	3299.8	3268.1	3241.4	3251.4	3259.8
5°	3301.5	3311.5	3336.5	3359.9	3351.5	3298.1	3244.7	3243.1	3249.8
7.5°	3253.1	3276.4	3328.2	3386.5	3384.9	3293.1	3214.7	3194.7	3194.7
10°	3158.0	3179.7	3236.4	3314.8	3313.1	3198.0	3111.3	3101.3	3102.9
12.5°	3072.9	3082.9	3111.3	3173.0	3173.0	3059.6	2992.8	3002.8	3016.2
15°	2981.2	2987.8	2981.2	3001.2	2992.8	2899.4	2866.1	2897.8	2917.8
17.5°	2851.0	2854.4	2819.3	2792.7	2761.0	2702.6	2710.9	2757.6	2762.6
20°	2669.2	2690.9	2627.5	2559.1	2529.1	2474.0	2520.7	2572.4	2569.1
22.5°	2469.0	2494.0	2412.3	2298.8	2237.1	2215.4	2298.8	2345.6	2343.9
25°	2240.5	2258.8	2165.4	2006.9	1923.5	1920.2	2035.3	2083.6	2087.0
27.5°	1983.5	1990.2	1885.1	1678.3	1574.8	1599.9	1745.0	1811.7	1820.1
30°	1726.6	1723.3	1614.9	1358.0	1221.2	1289.6	1484.7	1558.1	1566.5
32.5°	1491.4	1481.4	1358.0	1051.0	887.5	989.3	1246.2	1322.9	1336.3
35°	1266.2	1249.5	1116.1	777.4	595.6	747.4	1041.0	1107.7	1112.7
37.5°	1031.0	1022.6	917.5	582.2	415.4	567.2	849.1	897.5	892.5
40°	812.4	812.4	725.7	432.1	288.6	422.1	672.3	715.7	700.7
42.5°	637.3	645.6	572.2	318.6	205.2	313.6	532.2	572.2	555.5
45°	513.8	513.8	450.4	236.9	133.5	233.6	420.4	457.1	453.8
47.5°	435.4	428.7	365.3	173.5	73.4	175.2	353.7	398.7	397.0
50°	388.7	378.7	313.6	136.8	51.7	145.1	310.3	352.0	353.7
52.5°	352.0	337.0	281.9	121.8	45.0	126.8	281.9	315.3	315.3
55°	312.0	303.6	253.6	108.4	40.0	113.4	253.6	283.6	281.9
57.5°	263.6	261.9	226.9	98.4	36.7	100.1	226.9	245.2	238.6
60°	215.2	221.9	196.9	88.4	33.4	90.1	193.5	208.5	205.2
62.5°	180.2	188.5	171.8	78.4	28.4	80.1	163.5	178.5	175.2
65°	150.1	156.8	143.5	66.7	25.0	66.7	135.1	148.5	148.5
67.5°	123.5	128.5	118.4	55.1	21.7	55.1	110.1	121.8	123.5
70°	98.4	101.8	93.4	43.4	18.4	45.0	86.7	98.4	98.4
72.5°	76.7	78.4	73.4	35.0	16.7	35.0	66.7	76.7	76.7
75°	55.1	58.4	55.1	26.7	15.0	26.7	51.7	56.7	58.4
77.5°	31.7	40.0	40.0	21.7	11.7	20.0	36.7	38.4	38.4
80°	21.7	25.0	28.4	15.0	8.3	15.0	23.4	25.0	23.4
82.5°	15.0	16.7	16.7	10.0	6.7	10.0	15.0	16.7	15.0
85°	8.3	11.7	11.7	8.3	5.0	6.7	8.3	10.0	8.3
87.5°	5.0	6.7	8.3	6.7	5.0	5.0	5.0	5.0	3.3
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)