

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: P799761

Luminaire Tested: **LD6C45D010 EU6459050 6LBMDDWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799761
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: LD6C45D010 EU6459050 6LBMDDWH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

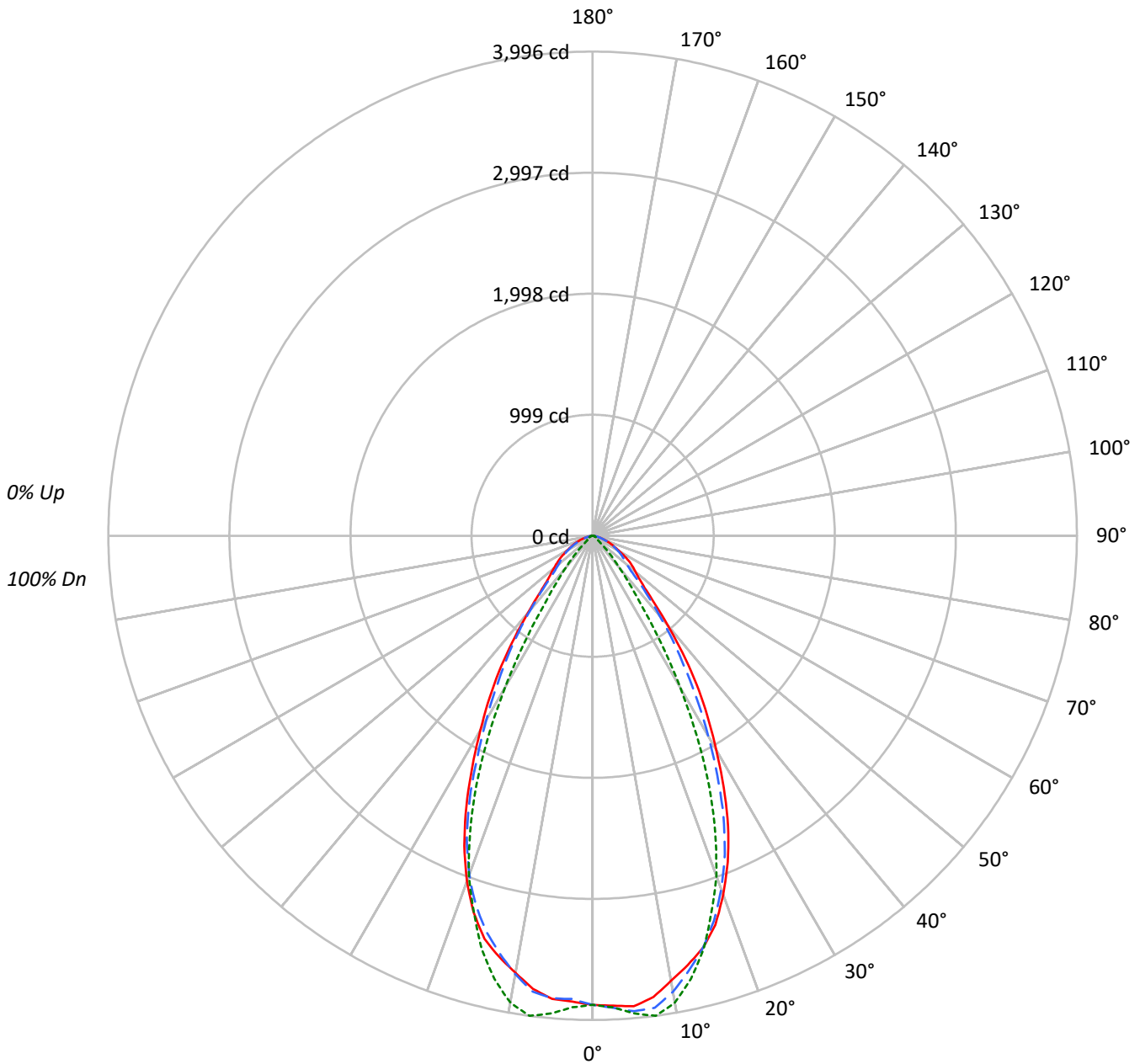
Lumens per Lamp: N/A
Luminaire Lumens: 3942.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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	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°	212269	212269	212269
5°	214489	217741	211126
10°	207539	217737	203921
15°	199746	200529	195501
20°	183836	174187	176946
25°	159995	137361	149035
30°	129039	91261	117069
35°	100043	47054	87917
40°	68643	24381	59197
45°	47028	12218	41531
50°	39137	5211	35607
55°	35201	4521	31808
60°	27860	4320	26566
65°	22999	3827	22739
70°	18625	3478	18625
75°	13768	3749	14594
80°	8082	3094	8713
85°	6164	3711	6164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.6	9.4
10°-20°	967.4	24.5
20°-30°	1104.2	28.0
30°-40°	732.3	18.6
40°-50°	353.2	9.0
50°-60°	217.3	5.5
60°-70°	131.5	3.3
70°-80°	55.3	1.4
80°-90°	12.2	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°	2440.2	61.9
0°-40°	3172.5	80.5
0°-60°	3743.0	95.0
0°-90°	3942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3942.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3872	3872	3872	3872	3872	
5°	3898	3939	3957	3831	3837	366
15°	3520	3520	3533	3384	3445	981
25°	2645	2556	2271	2403	2464	1199
35°	1495	1318	703	1229	1314	925
45°	607	532	158	496	536	495
55°	368	299	47	299	333	324
65°	177	169	30	160	175	178
75°	65	65	18	61	69	69
85°	10	14	6	10	10	13
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°	3872.1	3872.1	3872.1	3872.1	3872.1	3872.1	3872.1	3872.1	3872.1
2.5°	3881.9	3887.8	3899.7	3901.6	3895.7	3858.3	3826.8	3838.6	3848.5
5°	3897.7	3909.5	3939.0	3966.6	3956.8	3893.7	3830.7	3828.8	3836.6
7.5°	3840.6	3868.1	3929.2	3998.1	3996.2	3887.8	3795.3	3771.6	3771.6
10°	3728.3	3753.9	3820.9	3913.4	3911.5	3775.6	3673.2	3661.3	3663.3
12.5°	3627.9	3639.7	3673.2	3746.0	3746.0	3612.1	3533.3	3545.1	3560.9
15°	3519.5	3527.4	3519.5	3543.2	3533.3	3423.0	3383.6	3421.1	3444.7
17.5°	3365.9	3369.9	3328.5	3297.0	3259.6	3190.6	3200.5	3255.6	3261.5
20°	3151.2	3176.8	3102.0	3021.3	2985.8	2920.8	2976.0	3037.0	3033.1
22.5°	2914.9	2944.4	2847.9	2714.0	2641.1	2615.5	2714.0	2769.2	2767.2
25°	2645.1	2666.7	2556.4	2369.3	2270.9	2266.9	2402.8	2459.9	2463.9
27.5°	2341.8	2349.6	2225.6	1981.3	1859.2	1888.8	2060.1	2138.9	2148.8
30°	2038.5	2034.5	1906.5	1603.2	1441.7	1522.4	1752.9	1839.5	1849.4
32.5°	1760.8	1748.9	1603.2	1240.8	1047.8	1167.9	1471.2	1561.8	1577.6
35°	1494.9	1475.2	1317.6	917.8	703.1	882.3	1229.0	1307.8	1313.7
37.5°	1217.2	1207.3	1083.2	687.4	490.4	669.6	1002.5	1059.6	1053.7
40°	959.2	959.2	856.7	510.1	340.7	498.3	793.7	844.9	827.2
42.5°	752.4	762.2	675.5	376.2	242.3	370.3	628.3	675.5	655.9
45°	606.6	606.6	531.8	279.7	157.6	275.7	496.3	539.6	535.7
47.5°	514.0	506.2	431.3	204.8	86.7	206.8	417.5	470.7	468.7
50°	458.9	447.1	370.3	161.5	61.1	171.3	366.3	415.6	417.5
52.5°	415.6	397.8	332.8	143.8	53.2	149.7	332.8	372.2	372.2
55°	368.3	358.5	299.4	128.0	47.3	133.9	299.4	334.8	332.8
57.5°	311.2	309.2	267.9	116.2	43.3	118.2	267.9	289.5	281.6
60°	254.1	261.9	232.4	104.4	39.4	106.4	228.5	246.2	242.3
62.5°	212.7	222.6	202.9	92.6	33.5	94.5	193.0	210.7	206.8
65°	177.3	185.1	169.4	78.8	29.5	78.8	159.5	175.3	175.3
67.5°	145.7	151.7	139.8	65.0	25.6	65.0	130.0	143.8	145.7
70°	116.2	120.1	110.3	51.2	21.7	53.2	102.4	116.2	116.2
72.5°	90.6	92.6	86.7	41.4	19.7	41.4	78.8	90.6	90.6
75°	65.0	68.9	65.0	31.5	17.7	31.5	61.1	67.0	68.9
77.5°	37.4	47.3	47.3	25.6	13.8	23.6	43.3	45.3	45.3
80°	25.6	29.5	33.5	17.7	9.8	17.7	27.6	29.5	27.6
82.5°	17.7	19.7	19.7	11.8	7.9	11.8	17.7	19.7	17.7
85°	9.8	13.8	13.8	9.8	5.9	7.9	9.8	11.8	9.8
87.5°	5.9	7.9	9.8	7.9	5.9	5.9	5.9	5.9	3.9
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)