

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: P799712

Luminaire Tested: **LD6C45D010 EU6459027 6LBMDDWGPB**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799712
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 EU6459027 6LBMDDWGPH
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDDW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

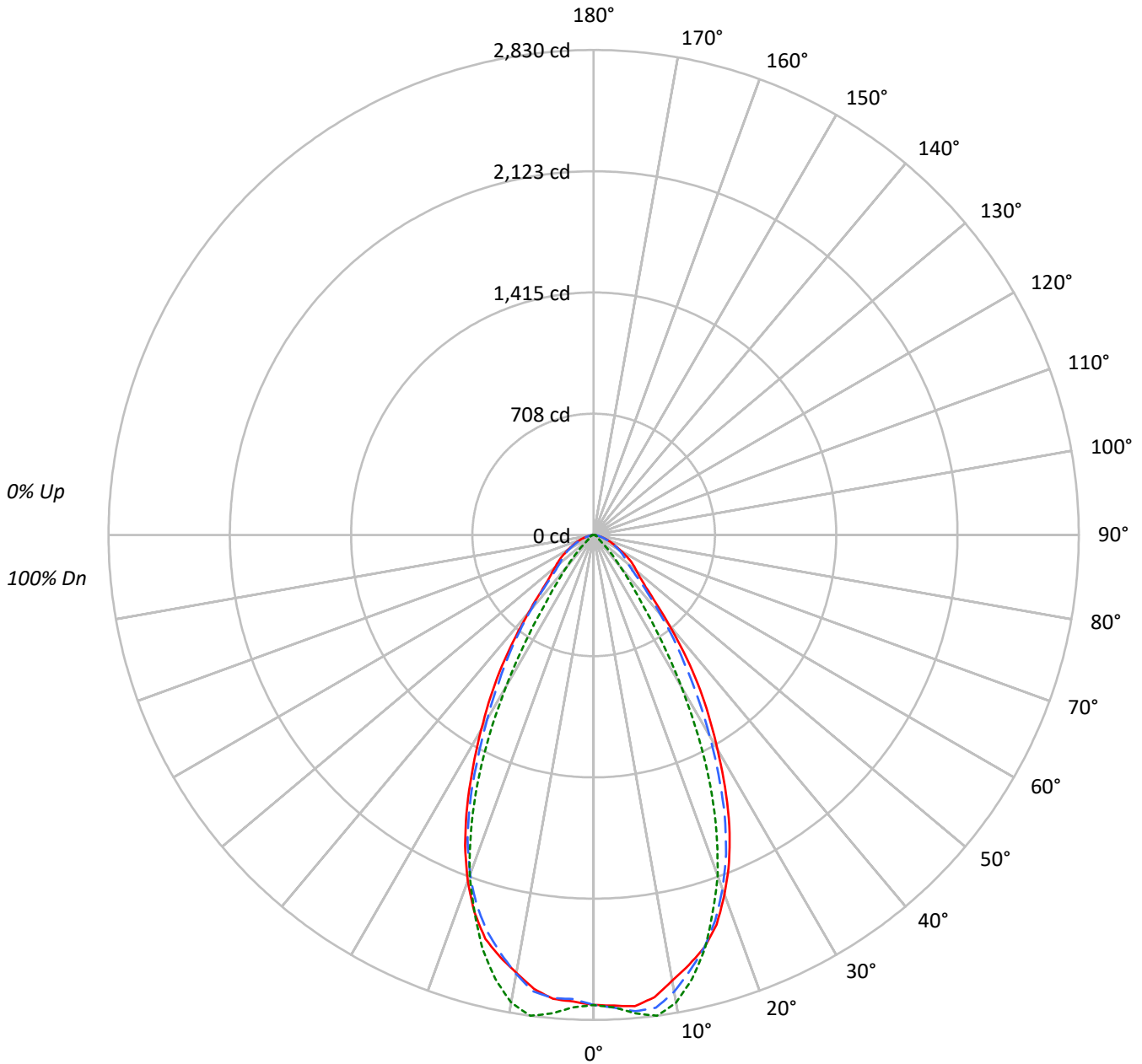
Lumens per Lamp: N/A
Luminaire Lumens: 2792.0 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P799712

CATALOG NUMBER: LD6C45D010 EU6459027 6LBMDDWGP

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°	150344	150344	150344
5°	151915	154220	149537
10°	146991	154217	144431
15°	141476	142027	138468
20°	130205	123374	125323
25°	113317	97288	105556
30°	91394	64637	82918
35°	70858	33328	62265
40°	48613	17268	41929
45°	33306	8652	29414
50°	27718	3684	25219
55°	24936	3202	22527
60°	19724	3059	18814
65°	16279	2711	16111
70°	13191	2452	13191
75°	9743	2669	10336
80°	5714	2210	6156
85°	4403	2642	4403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.1	9.4
10°-20°	685.2	24.5
20°-30°	782.1	28.0
30°-40°	518.7	18.6
40°-50°	250.2	9.0
50°-60°	153.9	5.5
60°-70°	93.1	3.3
70°-80°	39.2	1.4
80°-90°	8.7	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°	1728.3	61.9
0°-40°	2247.0	80.5
0°-60°	2651.0	95.0
0°-90°	2792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2792.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2742	2742	2742	2742	2742	
5°	2761	2790	2802	2713	2717	259
15°	2493	2493	2502	2396	2440	695
25°	1873	1811	1608	1702	1745	849
35°	1059	933	498	870	930	655
45°	430	377	112	352	379	350
55°	261	212	34	212	236	229
65°	126	120	21	113	124	126
75°	46	46	13	43	49	49
85°	7	10	4	7	7	9
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°	2742.5	2742.5	2742.5	2742.5	2742.5	2742.5	2742.5	2742.5	2742.5
2.5°	2749.5	2753.6	2762.0	2763.4	2759.2	2732.7	2710.4	2718.8	2725.7
5°	2760.6	2769.0	2789.9	2809.4	2802.5	2757.8	2713.2	2711.8	2717.4
7.5°	2720.2	2739.7	2782.9	2831.8	2830.4	2753.6	2688.1	2671.3	2671.3
10°	2640.6	2658.8	2706.2	2771.8	2770.4	2674.1	2601.6	2593.2	2594.6
12.5°	2569.5	2577.9	2601.6	2653.2	2653.2	2558.3	2502.5	2510.9	2522.1
15°	2492.8	2498.4	2492.8	2509.5	2502.5	2424.4	2396.5	2423.0	2439.8
17.5°	2384.0	2386.8	2357.5	2335.2	2308.7	2259.8	2266.8	2305.9	2310.0
20°	2231.9	2250.1	2197.1	2139.9	2114.8	2068.7	2107.8	2151.0	2148.2
22.5°	2064.5	2085.5	2017.1	1922.2	1870.6	1852.5	1922.2	1961.3	1959.9
25°	1873.4	1888.8	1810.7	1678.1	1608.4	1605.6	1701.8	1742.3	1745.1
27.5°	1658.6	1664.2	1576.3	1403.3	1316.8	1337.8	1459.1	1514.9	1521.9
30°	1443.8	1441.0	1350.3	1135.5	1021.1	1078.3	1241.5	1302.9	1309.9
32.5°	1247.1	1238.7	1135.5	878.8	742.1	827.2	1042.0	1106.2	1117.4
35°	1058.8	1044.8	933.2	650.0	498.0	624.9	870.5	926.2	930.4
37.5°	862.1	855.1	767.2	486.8	347.3	474.3	710.0	750.5	746.3
40°	679.3	679.3	606.8	361.3	241.3	352.9	562.2	598.4	585.9
42.5°	532.9	539.8	478.5	266.4	171.6	262.3	445.0	478.5	464.5
45°	429.6	429.6	376.6	198.1	111.6	195.3	351.5	382.2	379.4
47.5°	364.1	358.5	305.5	145.1	61.4	146.5	295.7	333.4	332.0
50°	325.0	316.7	262.3	114.4	43.2	121.4	259.5	294.3	295.7
52.5°	294.3	281.8	235.7	101.8	37.7	106.0	235.7	263.6	263.6
55°	260.9	253.9	212.0	90.7	33.5	94.9	212.0	237.1	235.7
57.5°	220.4	219.0	189.7	82.3	30.7	83.7	189.7	205.1	199.5
60°	179.9	185.5	164.6	73.9	27.9	75.3	161.8	174.4	171.6
62.5°	150.7	157.6	143.7	65.6	23.7	67.0	136.7	149.3	146.5
65°	125.5	131.1	120.0	55.8	20.9	55.8	113.0	124.2	124.2
67.5°	103.2	107.4	99.0	46.0	18.1	46.0	92.1	101.8	103.2
70°	82.3	85.1	78.1	36.3	15.3	37.7	72.5	82.3	82.3
72.5°	64.2	65.6	61.4	29.3	13.9	29.3	55.8	64.2	64.2
75°	46.0	48.8	46.0	22.3	12.6	22.3	43.2	47.4	48.8
77.5°	26.5	33.5	33.5	18.1	9.8	16.7	30.7	32.1	32.1
80°	18.1	20.9	23.7	12.6	7.0	12.6	19.5	20.9	19.5
82.5°	12.6	13.9	13.9	8.4	5.6	8.4	12.6	13.9	12.6
85°	7.0	9.8	9.8	7.0	4.2	5.6	7.0	8.4	7.0
87.5°	4.2	5.6	7.0	5.6	4.2	4.2	4.2	4.2	2.8
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)