

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: P799750

Luminaire Tested: **LD6C45D010 EU6459040 6LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799750
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 EU6459040 6LBMDDWLI
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

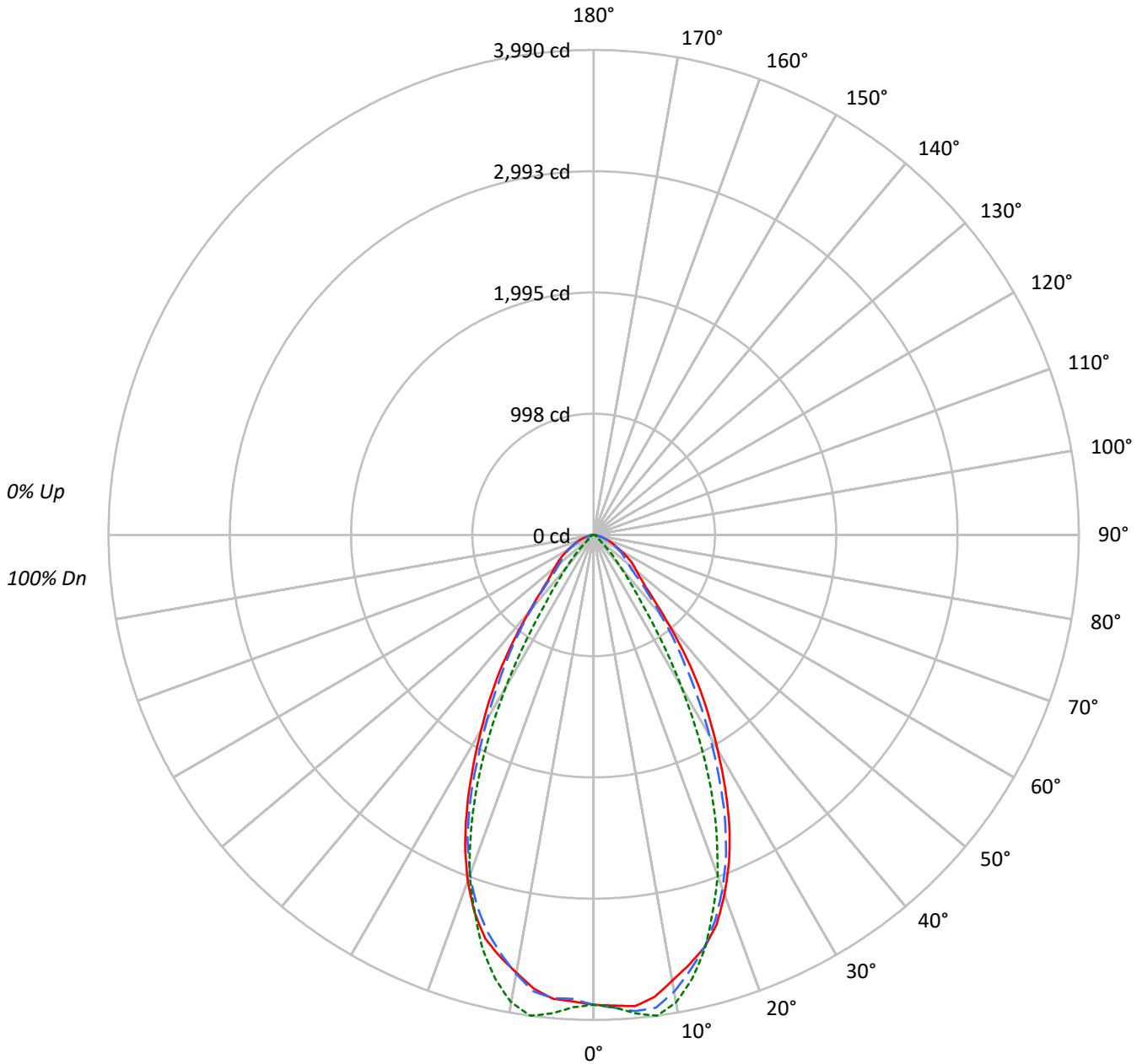
Lumens per Lamp: N/A
Luminaire Lumens: 3936.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P799750

CATALOG NUMBER: LD6C45D010 EU6459040 6LBMDDWLI

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°	211946	211946	211946
5°	214164	217411	210807
10°	207222	217403	203609
15°	199445	200222	195205
20°	183556	173924	176678
25°	159747	137149	148805
30°	128843	91122	116891
35°	99889	46980	87783
40°	68536	24346	59104
45°	46958	12195	41469
50°	39078	5202	35555
55°	35143	4511	31760
60°	27816	4309	26522
65°	22960	3827	22700
70°	18593	3462	18593
75°	13746	3749	14572
80°	8082	3094	8682
85°	6164	3711	6164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.0	9.4
10°-20°	965.9	24.5
20°-30°	1102.6	28.0
30°-40°	731.2	18.6
40°-50°	352.7	9.0
50°-60°	216.9	5.5
60°-70°	131.3	3.3
70°-80°	55.2	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°	2436.5	61.9
0°-40°	3167.7	80.5
0°-60°	3737.3	95.0
0°-90°	3936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3936.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3866	3866	3866	3866	3866	
5°	3892	3933	3951	3825	3831	366
15°	3514	3514	3528	3378	3440	979
25°	2641	2553	2267	2399	2460	1198
35°	1493	1316	702	1227	1312	923
45°	606	531	157	496	535	494
55°	368	299	47	299	332	323
65°	177	169	30	159	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°	3866.2	3866.2	3866.2	3866.2	3866.2	3866.2	3866.2	3866.2	3866.2
2.5°	3876.0	3881.9	3893.7	3895.7	3889.8	3852.4	3821.0	3832.8	3842.6
5°	3891.8	3903.6	3933.1	3960.6	3950.8	3887.8	3824.9	3822.9	3830.8
7.5°	3834.7	3862.3	3923.2	3992.0	3990.1	3881.9	3789.5	3765.9	3765.9
10°	3722.6	3748.2	3815.1	3907.5	3905.5	3769.8	3667.6	3655.8	3657.7
12.5°	3622.3	3634.1	3667.6	3740.3	3740.3	3606.6	3527.9	3539.7	3555.5
15°	3514.2	3522.0	3514.2	3537.8	3527.9	3417.8	3378.5	3415.9	3439.5
17.5°	3360.8	3364.7	3323.4	3292.0	3254.6	3185.8	3195.6	3250.7	3256.6
20°	3146.4	3172.0	3097.3	3016.7	2981.3	2916.4	2971.4	3032.4	3028.5
22.5°	2910.5	2940.0	2843.6	2709.9	2637.1	2611.5	2709.9	2764.9	2763.0
25°	2641.0	2662.7	2552.6	2365.7	2267.4	2263.5	2399.2	2456.2	2460.1
27.5°	2338.2	2346.1	2222.2	1978.3	1856.4	1885.9	2057.0	2135.6	2145.5
30°	2035.4	2031.4	1903.6	1600.8	1439.5	1520.1	1750.2	1836.7	1846.6
32.5°	1758.1	1746.3	1600.8	1238.9	1046.2	1166.2	1469.0	1559.5	1575.2
35°	1492.6	1472.9	1315.6	916.4	702.0	881.0	1227.1	1305.8	1311.7
37.5°	1215.3	1205.5	1081.6	686.3	489.7	668.6	1001.0	1058.0	1052.1
40°	957.7	957.7	855.4	509.3	340.2	497.5	792.5	843.6	825.9
42.5°	751.2	761.0	674.5	375.6	241.9	369.7	627.3	674.5	654.9
45°	605.7	605.7	531.0	279.2	157.3	275.3	495.6	538.8	534.9
47.5°	513.3	505.4	430.7	204.5	86.5	206.5	416.9	470.0	468.0
50°	458.2	446.4	369.7	161.3	61.0	171.1	365.8	414.9	416.9
52.5°	414.9	397.2	332.3	143.6	53.1	149.5	332.3	371.7	371.7
55°	367.7	357.9	298.9	127.8	47.2	133.7	298.9	334.3	332.3
57.5°	310.7	308.7	267.4	116.0	43.3	118.0	267.4	289.1	281.2
60°	253.7	261.5	232.1	104.2	39.3	106.2	228.1	245.8	241.9
62.5°	212.4	222.2	202.6	92.4	33.4	94.4	192.7	210.4	206.5
65°	177.0	184.9	169.1	78.7	29.5	78.7	159.3	175.0	175.0
67.5°	145.5	151.4	139.6	64.9	25.6	64.9	129.8	143.6	145.5
70°	116.0	120.0	110.1	51.1	21.6	53.1	102.3	116.0	116.0
72.5°	90.5	92.4	86.5	41.3	19.7	41.3	78.7	90.5	90.5
75°	64.9	68.8	64.9	31.5	17.7	31.5	61.0	66.9	68.8
77.5°	37.4	47.2	47.2	25.6	13.8	23.6	43.3	45.2	45.2
80°	25.6	29.5	33.4	17.7	9.8	17.7	27.5	29.5	27.5
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)