

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: P799732

Luminaire Tested: **LD6C45D010 EU6459030 6LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799732
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: LD6C45D010 EU6459030 6LBMDSWLI
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

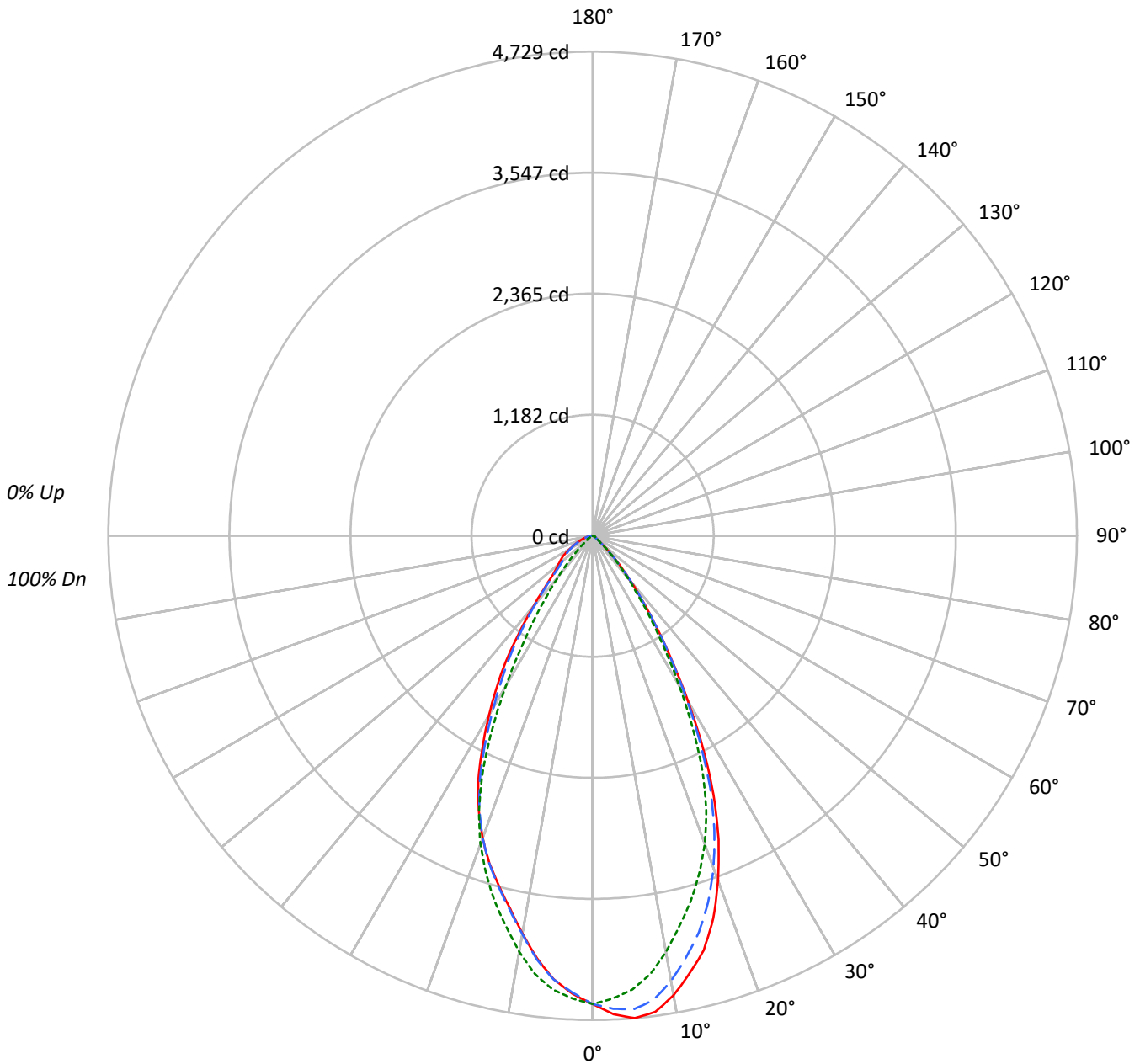
Lumens per Lamp: N/A
Luminaire Lumens: 3937.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78		
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73		
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67		
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63		
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59		
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55		
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52		
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	250682	250682	250682
5°	260213	244799	239263
10°	253558	229622	219518
15°	237805	209814	200745
20°	208764	186782	183218
25°	168844	153450	159777
30°	117385	106896	127874
35°	72351	65484	96510
40°	40941	36704	64092
45°	19886	18963	43741
50°	7573	7573	37184
55°	4148	4903	34312
60°	3026	3892	28123
65°	2555	3321	23025
70°	2212	2853	18978
75°	2097	2923	16288
80°	1231	2494	11839
85°	1258	4969	11196



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.6	10.6
10°-20°	1052.2	26.7
20°-30°	1184.4	30.1
30°-40°	733.4	18.6
40°-50°	292.1	7.4
50°-60°	133.0	3.4
60°-70°	76.4	1.9
70°-80°	36.3	0.9
80°-90°	10.6	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°	2655.2	67.4
0°-40°	3388.6	86.1
0°-60°	3813.7	96.9
0°-90°	3937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3937.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4573	4573	4573	4573	4573	
5°	4729	4642	4448	4352	4348	445
15°	4190	4009	3697	3547	3537	1159
25°	2791	2716	2537	2600	2642	1255
35°	1081	1075	978	1363	1442	695
45°	256	256	245	533	564	217
55°	43	41	51	316	359	43
65°	20	18	26	176	178	19
75°	10	10	14	75	77	10
85°	2	2	8	18	18	2
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°	4572.8	4572.8	4572.8	4572.8	4572.8	4572.8	4572.8	4572.8	4572.8
2.5°	4677.3	4633.9	4624.1	4586.6	4523.5	4487.9	4466.2	4450.5	4478.1
5°	4728.6	4681.3	4641.8	4564.9	4448.5	4383.4	4351.8	4326.2	4347.9
7.5°	4691.1	4624.1	4570.8	4464.3	4316.3	4215.7	4172.3	4142.7	4162.4
10°	4555.0	4474.1	4413.0	4286.7	4125.0	4004.6	3951.4	3923.7	3943.5
12.5°	4377.5	4310.4	4217.7	4079.6	3906.0	3779.7	3740.3	3718.6	3726.5
15°	4190.1	4111.2	4008.6	3870.5	3696.9	3570.6	3547.0	3533.1	3537.1
17.5°	3917.8	3840.9	3752.1	3618.0	3458.2	3355.6	3355.6	3345.7	3351.7
20°	3578.5	3537.1	3450.3	3337.8	3201.7	3109.0	3138.6	3128.7	3140.6
22.5°	3211.6	3180.0	3105.1	3012.4	2897.9	2824.9	2890.0	2888.1	2903.9
25°	2791.4	2767.7	2716.4	2637.5	2536.9	2491.6	2600.1	2600.1	2641.5
27.5°	2327.8	2304.1	2268.6	2201.6	2118.7	2104.9	2264.7	2284.4	2329.8
30°	1854.4	1838.6	1818.9	1757.7	1688.7	1714.3	1935.2	1968.8	2020.1
32.5°	1432.2	1422.3	1416.4	1361.2	1300.0	1384.9	1637.4	1680.8	1732.1
35°	1081.1	1059.4	1075.1	1033.7	978.5	1085.0	1363.2	1400.6	1442.1
37.5°	797.0	781.2	795.0	765.4	716.1	832.5	1094.9	1118.5	1146.2
40°	572.1	558.3	570.1	552.4	512.9	621.4	858.1	883.8	895.6
42.5°	406.4	382.7	394.5	380.7	361.0	467.5	674.7	698.3	702.3
45°	256.5	248.6	256.5	248.6	244.6	347.2	532.6	554.3	564.2
47.5°	155.8	146.0	146.0	142.0	146.0	256.5	439.9	471.5	487.3
50°	88.8	84.8	82.9	80.9	88.8	201.2	380.7	416.2	436.0
52.5°	59.2	57.2	57.2	55.2	65.1	169.7	343.3	374.8	394.5
55°	43.4	41.4	41.4	41.4	51.3	146.0	315.6	341.3	359.0
57.5°	33.5	33.5	33.5	31.6	43.4	124.3	282.1	295.9	309.7
60°	27.6	25.6	25.6	25.6	35.5	106.5	242.6	248.6	256.5
62.5°	21.7	21.7	21.7	21.7	29.6	94.7	209.1	209.1	213.1
65°	19.7	17.8	17.8	17.8	25.6	82.9	175.6	173.6	177.5
67.5°	15.8	15.8	15.8	15.8	21.7	71.0	144.0	142.0	146.0
70°	13.8	13.8	13.8	13.8	17.8	59.2	116.4	114.4	118.4
72.5°	11.8	11.8	11.8	11.8	15.8	49.3	92.7	92.7	94.7
75°	9.9	9.9	9.9	9.9	13.8	37.5	75.0	75.0	76.9
77.5°	7.9	7.9	7.9	7.9	9.9	29.6	57.2	55.2	55.2
80°	3.9	5.9	5.9	5.9	7.9	21.7	41.4	37.5	37.5
82.5°	2.0	3.9	3.9	3.9	7.9	15.8	27.6	25.6	25.6
85°	2.0	2.0	2.0	5.9	7.9	11.8	17.8	17.8	17.8
87.5°	0.0	2.0	3.9	7.9	9.9	9.9	11.8	9.9	9.9
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)