

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: P799684

Luminaire Tested: **LD6C40D010 EU6409035 6LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799684
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: LD6C40D010 EU6409035 6LBMDSWLI
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

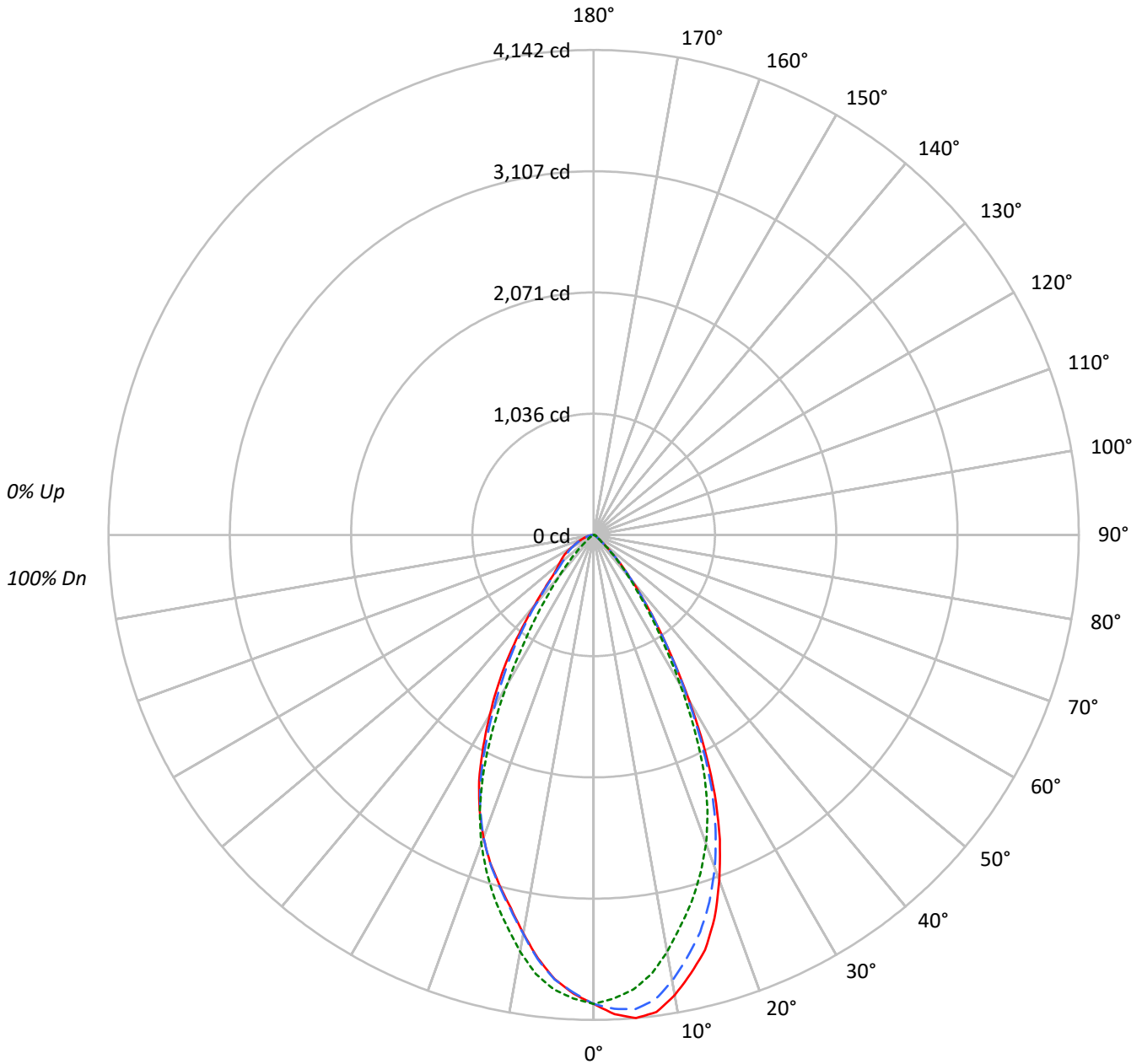
Lumens per Lamp: N/A
Luminaire Lumens: 3449.0 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92					92			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78					78			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73					73			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67					67			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63					63			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59					59			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55					55			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52					52			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49					49			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	219610	219610	219610
5°	227960	214456	209608
10°	222129	201160	192309
15°	208327	183804	175864
20°	182891	163633	160506
25°	147916	134433	139974
30°	102832	93641	112024
35°	63383	57366	84544
40°	35867	32153	56148
45°	17420	16614	38322
50°	6635	6635	32570
55°	3632	4291	30059
60°	2653	3410	24636
65°	2244	2919	20171
70°	1939	2500	16621
75°	1822	2563	14276
80°	1105	2178	10355
85°	1069	4340	9812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.7	10.6
10°-20°	921.7	26.7
20°-30°	1037.6	30.1
30°-40°	642.5	18.6
40°-50°	255.9	7.4
50°-60°	116.5	3.4
60°-70°	67.0	1.9
70°-80°	31.8	0.9
80°-90°	9.3	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°	2326.1	67.4
0°-40°	2968.6	86.1
0°-60°	3341.0	96.9
0°-90°	3449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3449.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4006	4006	4006	4006	4006	
5°	4142	4066	3897	3812	3809	390
15°	3671	3512	3239	3107	3099	1016
25°	2445	2380	2222	2278	2314	1099
35°	947	942	857	1194	1263	609
45°	225	225	214	467	494	190
55°	38	36	45	276	314	38
65°	17	16	22	154	156	17
75°	9	9	12	66	67	9
85°	2	2	7	16	16	1
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°	4006.0	4006.0	4006.0	4006.0	4006.0	4006.0	4006.0	4006.0	4006.0
2.5°	4097.6	4059.5	4050.9	4018.1	3962.8	3931.7	3912.6	3898.8	3923.0
5°	4142.5	4101.0	4066.5	3999.1	3897.1	3840.1	3812.4	3789.9	3809.0
7.5°	4109.7	4050.9	4004.2	3910.9	3781.3	3693.2	3655.1	3629.2	3646.5
10°	3990.4	3919.6	3866.0	3755.4	3613.7	3508.2	3461.6	3437.4	3454.7
12.5°	3834.9	3776.1	3694.9	3573.9	3421.8	3311.2	3276.7	3257.7	3264.6
15°	3670.7	3601.6	3511.7	3390.7	3238.6	3128.0	3107.3	3095.2	3098.7
17.5°	3432.2	3364.8	3287.0	3169.5	3029.5	2939.7	2939.7	2931.0	2936.2
20°	3135.0	3098.7	3022.6	2924.1	2804.9	2723.6	2749.6	2740.9	2751.3
22.5°	2813.5	2785.9	2720.2	2639.0	2538.7	2474.8	2531.8	2530.1	2543.9
25°	2445.4	2424.7	2379.7	2310.6	2222.5	2182.7	2277.8	2277.8	2314.1
27.5°	2039.3	2018.5	1987.4	1928.7	1856.1	1844.0	1984.0	2001.3	2041.0
30°	1624.5	1610.7	1593.4	1539.8	1479.3	1501.8	1695.4	1724.7	1769.7
32.5°	1254.7	1246.0	1240.8	1192.5	1138.9	1213.2	1434.4	1472.4	1517.4
35°	947.1	928.0	941.9	905.6	857.2	950.5	1194.2	1227.0	1263.3
37.5°	698.2	684.4	696.5	670.5	627.3	729.3	959.2	979.9	1004.1
40°	501.2	489.1	499.5	483.9	449.3	544.4	751.8	774.2	784.6
42.5°	356.0	335.3	345.6	333.5	316.3	409.6	591.0	611.8	615.2
45°	224.7	217.8	224.7	217.8	214.3	304.2	466.6	485.6	494.3
47.5°	136.5	127.9	127.9	124.4	127.9	224.7	385.4	413.0	426.9
50°	77.8	74.3	72.6	70.9	77.8	176.3	333.5	364.7	381.9
52.5°	51.8	50.1	50.1	48.4	57.0	148.6	300.7	328.4	345.6
55°	38.0	36.3	36.3	36.3	44.9	127.9	276.5	299.0	314.5
57.5°	29.4	29.4	29.4	27.7	38.0	108.9	247.1	259.2	271.3
60°	24.2	22.5	22.5	22.5	31.1	93.3	212.6	217.8	224.7
62.5°	19.0	19.0	19.0	19.0	25.9	83.0	183.2	183.2	186.6
65°	17.3	15.6	15.6	15.6	22.5	72.6	153.8	152.1	155.5
67.5°	13.8	13.8	13.8	13.8	19.0	62.2	126.2	124.4	127.9
70°	12.1	12.1	12.1	12.1	15.6	51.8	102.0	100.2	103.7
72.5°	10.4	10.4	10.4	10.4	13.8	43.2	81.2	81.2	83.0
75°	8.6	8.6	8.6	8.6	12.1	32.8	65.7	65.7	67.4
77.5°	6.9	6.9	6.9	6.9	8.6	25.9	50.1	48.4	48.4
80°	3.5	5.2	5.2	5.2	6.9	19.0	36.3	32.8	32.8
82.5°	1.7	3.5	3.5	3.5	6.9	13.8	24.2	22.5	22.5
85°	1.7	1.7	1.7	5.2	6.9	10.4	15.6	15.6	15.6
87.5°	0.0	1.7	3.5	6.9	8.6	8.6	10.4	8.6	8.6
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)