

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: P840560

Luminaire Tested: **LD6C120D010 EU61209050 6LBSQLI**

Issue Date: 3/23/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P840560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209348)
Test Lab: INNOVATION CENTER
Issue Date: 3/23/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C120D010 EU61209050 6LBSQLI
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

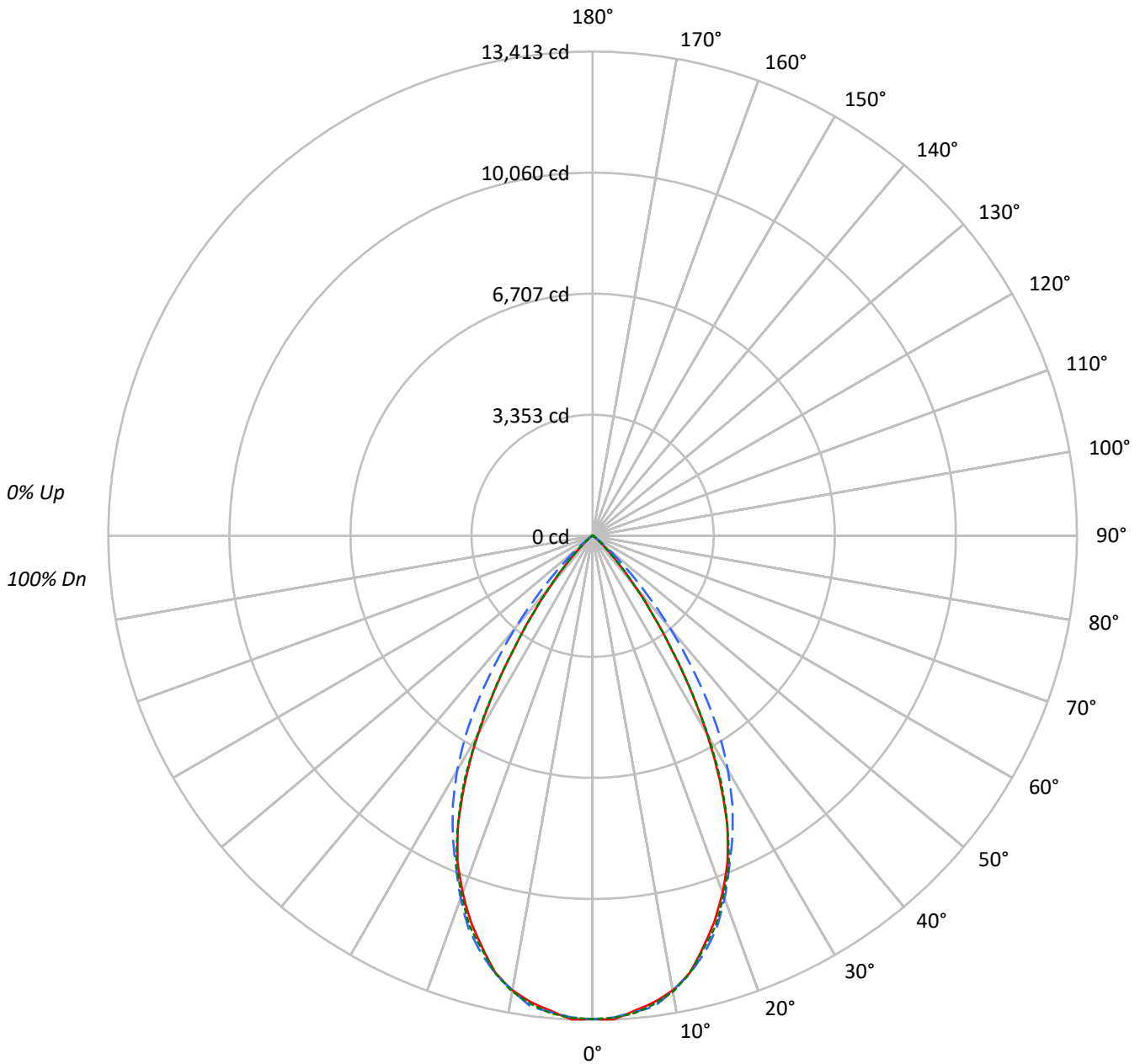
Lumens per Lamp: N/A
Luminaire Lumens: 12581.0 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 142.3
Input Voltage (V):
Input Current (Ain): 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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75			
5	92	83	78	73	90	82	77	73	81	76	72	79	75	72	77	74	71	69			
6	87	78	72	68	86	77	72	67	76	71	67	74	70	67	73	69	66	65			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56			
9	75	65	59	55	74	64	59	55	64	58	55	63	58	54	62	57	54	53			
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	576429	576429	576429
5°	570985	572438	573890
10°	559125	559125	560615
15°	526443	533209	528315
20°	481992	489740	485478
25°	418809	435223	419208
30°	314968	372440	317921
35°	195549	286895	196432
40°	102900	186820	102428
45°	42629	93472	43652
50°	16391	35039	16391
55°	8873	10764	8242
60°	5830	5063	5830
65°	3423	3423	3423
70°	2115	3172	2115
75°	1397	1397	1397
80°	2083	2083	2083
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1253.4	10.0
10°-20°	3334.1	26.5
20°-30°	4091.9	32.5
30°-40°	2824.8	22.5
40°-50°	883.2	7.0
50°-60°	138.0	1.1
60°-70°	39.8	0.3
70°-80°	13.0	0.1
80°-90°	2.9	0.0
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°	8679.3	69.0
0°-40°	11504.1	91.4
0°-60°	12525.3	99.6
0°-90°	12581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13388	13388	13388	13388	13388	
5°	13211	13262	13245	13249	13278	###
15°	11810	11979	11962	11945	11852	3303
25°	8816	9043	9161	9102	8824	3950
35°	3720	4400	5458	4442	3737	2377
45°	700	958	1535	949	717	627
55°	118	127	143	127	110	115
65°	34	42	34	42	34	37
75°	8	8	8	8	8	12
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	13388.0	13388.0	13388.0	13388.0	13388.0	13388.0	13388.0	13388.0	13388.0	13388.0	13388.0
2.5°	13413.2	13227.9	13346.0	13320.3	13388.0	13430.1	13388.0	13463.7	13413.2	13354.4	13371.2
5°	13211.1	13236.3	13227.9	13244.7	13261.5	13261.5	13346.0	13354.4	13371.2	13244.7	13278.3
7.5°	13033.5	13033.5	13076.1	13058.7	13118.1	13101.3	13109.7	13176.9	13185.3	13151.7	13126.5
10°	12788.8	12755.2	12713.2	12713.2	12788.8	12797.2	12865.0	12873.4	12923.8	12788.8	12806.1
12.5°	12409.6	12392.3	12325.1	12358.7	12418.0	12383.9	12493.6	12502.1	12485.2	12426.4	12460.0
15°	11810.4	11878.1	11860.8	11852.4	11987.4	11970.6	11962.2	11987.4	11995.8	11962.2	11937.0
17.5°	11211.7	11270.5	11278.9	11295.7	11320.9	11346.6	11380.3	11473.2	11439.1	11413.9	11498.4
20°	10519.5	10494.3	10562.0	10629.2	10654.4	10654.4	10705.4	10772.6	10722.2	10688.6	10697.0
22.5°	9769.0	9811.0	9777.4	9844.6	9878.7	9920.8	9971.2	10030.5	9988.0	9895.6	10005.3
25°	8815.8	8841.0	8950.7	8942.3	8992.8	9094.1	9169.7	9169.7	9169.7	9161.3	9161.3
27.5°	7617.8	7601.0	7736.0	7828.4	7955.0	8115.7	8216.5	8376.7	8402.5	8376.7	8317.9
30°	6335.3	6318.5	6487.1	6605.3	6833.2	6909.3	7187.7	7339.5	7499.7	7491.3	7449.2
32.5°	5002.4	5036.5	5171.5	5340.1	5525.5	5761.8	6023.4	6360.5	6504.4	6538.0	6461.9
35°	3720.4	3770.8	3897.4	4040.8	4268.7	4530.3	4892.6	5213.5	5458.3	5458.3	5398.9
37.5°	2682.6	2699.5	2817.6	2910.6	3146.4	3382.7	3695.2	4133.7	4285.5	4344.3	4285.5
40°	1830.8	1830.8	1898.0	1999.4	2193.2	2395.9	2682.6	3011.4	3230.9	3323.9	3222.5
42.5°	1164.3	1181.1	1231.6	1299.3	1442.7	1619.7	1839.2	2083.9	2244.1	2311.3	2218.9
45°	700.1	716.9	759.4	809.8	902.8	1012.6	1164.3	1341.3	1476.3	1535.1	1493.1
47.5°	421.7	438.5	455.3	489.5	556.7	632.8	708.5	809.8	894.4	902.8	886.0
50°	244.7	244.7	261.5	286.8	320.4	362.9	404.9	463.7	489.5	523.1	489.5
52.5°	160.2	160.2	160.2	168.6	185.4	202.7	219.5	253.1	269.9	269.9	261.5
55°	118.2	118.2	118.2	118.2	126.6	126.6	126.6	135.0	143.4	143.4	143.4
57.5°	84.6	84.6	84.6	93.0	93.0	93.0	84.6	84.6	84.6	84.6	84.6
60°	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	58.8	58.8	58.8
62.5°	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
65°	33.6	33.6	33.6	42.0	42.0	42.0	42.0	33.6	33.6	33.6	33.6
67.5°	25.2	25.2	25.2	33.6	33.6	33.6	33.6	33.6	25.2	25.2	25.2
70°	16.8	16.8	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
72.5°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
75°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
77.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
80°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
82.5°	0.0	0.0	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	13388.0	13388.0	13388.0	13388.0	13388.0	13388.0	13388.0	13388.0
2.5°	13421.7	13379.6	13379.6	13379.6	13362.8	13379.6	13404.8	13362.8
5°	13278.3	13295.1	13219.5	13278.3	13303.5	13261.5	13362.8	13278.3
7.5°	13151.7	13126.5	13008.3	13092.9	13143.3	13160.1	13151.7	13084.5
10°	12898.6	12839.7	12788.8	12788.8	12772.0	12763.6	12856.6	12822.9
12.5°	12443.2	12485.2	12409.6	12451.6	12418.0	12426.4	12434.8	12418.0
15°	12055.1	12013.1	11911.7	11979.0	11937.0	11894.9	11979.0	11852.4
17.5°	11447.5	11439.1	11380.3	11338.2	11355.0	11346.6	11388.7	11329.8
20°	10730.6	10747.4	10713.8	10697.0	10671.8	10612.4	10663.4	10595.6
22.5°	9954.4	9971.2	10005.3	9937.6	9946.0	9861.9	9937.6	9861.9
25°	9169.7	9161.3	9119.3	9085.7	8992.8	8899.8	8883.0	8824.2
27.5°	8309.5	8250.7	8149.3	8039.5	7896.2	7769.6	7761.2	7719.2
30°	7364.7	7238.1	7052.7	6875.2	6656.2	6461.9	6461.9	6394.7
32.5°	6369.5	6082.2	5829.0	5610.0	5323.3	5213.5	5103.8	5044.9
35°	5179.9	4926.8	4622.7	4260.3	4125.3	3855.4	3872.2	3737.2
37.5°	4057.6	3745.6	3458.9	3163.7	2927.4	2800.8	2733.1	2665.8
40°	3011.4	2707.9	2395.9	2201.6	1991.0	1881.2	1839.2	1822.4
42.5°	2058.2	1805.1	1602.9	1442.7	1332.9	1214.8	1181.1	1164.3
45°	1341.3	1197.9	1012.6	886.0	809.8	742.6	742.6	716.9
47.5°	801.4	708.5	616.0	531.5	481.1	438.5	421.7	413.3
50°	446.9	396.5	346.1	312.0	278.3	253.1	244.7	244.7
52.5°	244.7	219.5	202.7	177.0	160.2	160.2	160.2	151.8
55°	126.6	126.6	126.6	126.6	118.2	118.2	118.2	109.8
57.5°	84.6	84.6	93.0	93.0	93.0	84.6	84.6	84.6
60°	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
62.5°	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
65°	33.6	42.0	42.0	42.0	42.0	33.6	33.6	33.6
67.5°	25.2	33.6	33.6	33.6	25.2	25.2	25.2	25.2
70°	25.2	25.2	25.2	25.2	25.2	16.8	16.8	16.8
72.5°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
75°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
77.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
80°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
82.5°	8.4	8.4	8.4	8.4	8.4	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	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)