

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: P840515

Luminaire Tested: **LD6C100D010 EU61009035 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: P840515
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: LD6C100D010 EU61009035 6LBSQLI
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

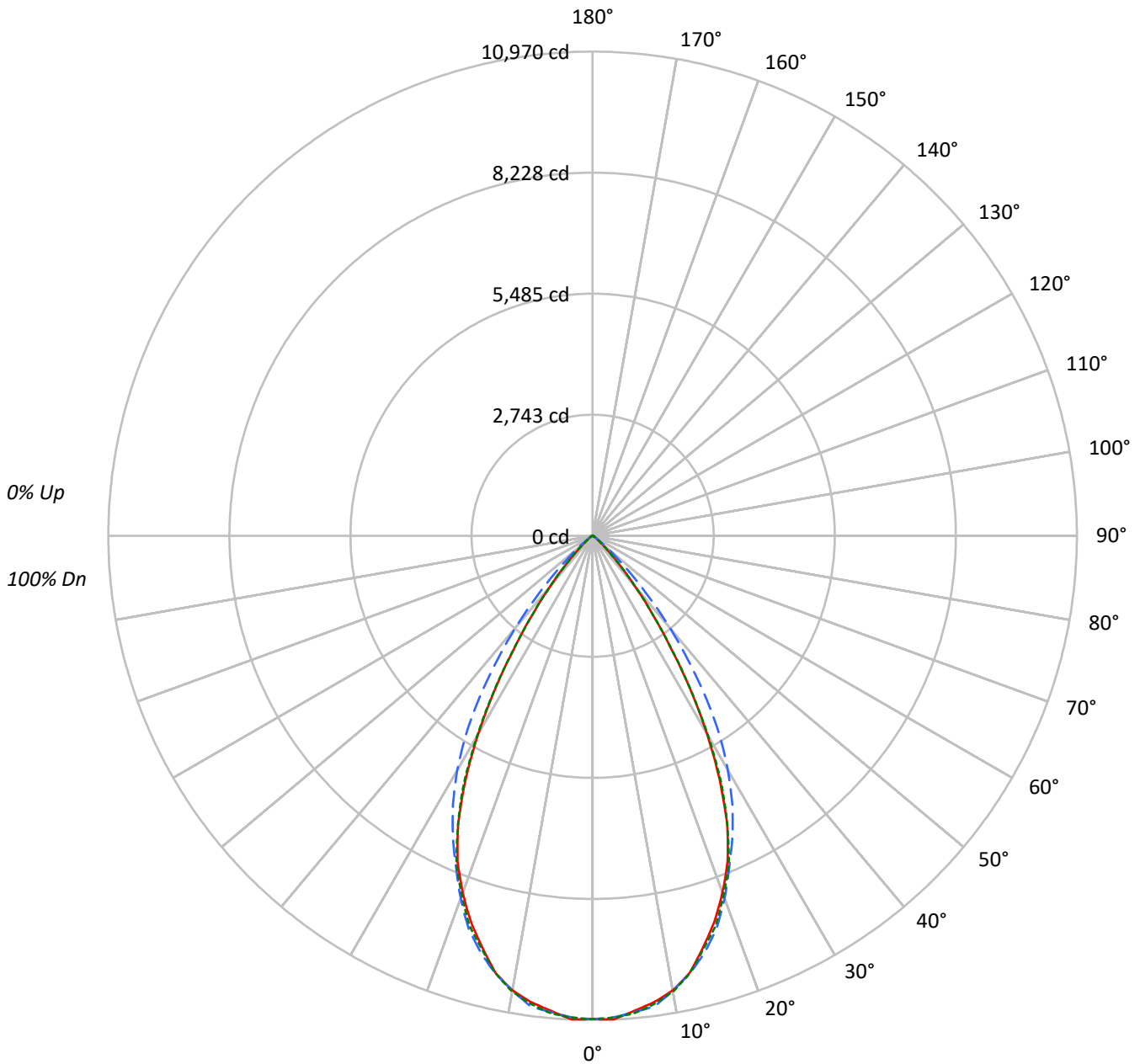
Lumens per Lamp: N/A
Luminaire Lumens: 10289.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
Input Voltage (V):
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									
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	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°	471416	471416	471416
5°	466963	468152	469336
10°	457262	457262	458486
15°	430536	436068	432065
20°	394180	400517	397034
25°	342509	355934	342837
30°	257591	304587	260002
35°	159923	234628	160648
40°	84156	152788	83768
45°	34859	76447	35700
50°	13410	28655	13410
55°	7251	8805	6741
60°	4771	4142	4771
65°	2802	2802	2802
70°	1725	2593	1725
75°	1148	1148	1148
80°	1711	1711	1711
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1025.0	10.0
10°-20°	2726.7	26.5
20°-30°	3346.4	32.5
30°-40°	2310.1	22.5
40°-50°	722.3	7.0
50°-60°	112.9	1.1
60°-70°	32.5	0.3
70°-80°	10.7	0.1
80°-90°	2.4	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°	7098.1	69.0
0°-40°	9408.3	91.4
0°-60°	10243.4	99.6
0°-90°	10289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10949	10949	10949	10949	10949	
5°	10804	10846	10832	10835	10859	###
15°	9659	9797	9783	9769	9693	2702
25°	7210	7396	7492	7444	7217	3230
35°	3043	3598	4464	3632	3056	1944
45°	572	783	1256	776	586	513
55°	97	104	117	104	90	94
65°	28	34	28	34	28	30
75°	7	7	7	7	7	10
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°	10949.0	10949.0	10949.0	10949.0	10949.0	10949.0	10949.0	10949.0	10949.0	10949.0	10949.0
2.5°	10969.6	10818.0	10914.7	10893.6	10949.0	10983.4	10949.0	11010.9	10969.6	10921.5	10935.3
5°	10804.3	10824.9	10818.0	10831.8	10845.5	10845.5	10914.7	10921.5	10935.3	10831.8	10859.2
7.5°	10659.1	10659.1	10693.9	10679.7	10728.2	10714.5	10721.4	10776.4	10783.2	10755.7	10735.1
10°	10458.9	10431.5	10397.1	10397.1	10458.9	10465.8	10521.2	10528.1	10569.3	10458.9	10473.1
12.5°	10148.8	10134.7	10079.7	10107.2	10155.7	10127.8	10217.6	10224.4	10210.7	10162.6	10190.1
15°	9658.8	9714.2	9700.0	9693.1	9803.5	9789.8	9782.9	9803.5	9810.4	9782.9	9762.3
17.5°	9169.1	9217.2	9224.1	9237.9	9258.5	9279.5	9307.0	9383.0	9355.1	9334.5	9403.6
20°	8603.0	8582.4	8637.8	8692.8	8713.4	8713.4	8755.1	8810.1	8768.8	8741.3	8748.2
22.5°	7989.3	8023.6	7996.1	8051.1	8079.0	8113.4	8154.6	8203.2	8168.4	8092.8	8182.6
25°	7209.7	7230.3	7320.1	7313.2	7354.5	7437.4	7499.2	7499.2	7499.2	7492.3	7492.3
27.5°	6230.0	6216.3	6326.7	6402.2	6505.8	6637.2	6719.7	6850.7	6871.7	6850.7	6802.5
30°	5181.2	5167.4	5305.3	5401.9	5588.3	5650.6	5878.2	6002.4	6133.4	6126.5	6092.1
32.5°	4091.1	4119.0	4229.4	4367.2	4518.9	4712.1	4926.0	5201.8	5319.5	5346.9	5284.7
35°	3042.6	3083.9	3187.4	3304.6	3491.0	3704.9	4001.3	4263.7	4463.9	4463.9	4415.3
37.5°	2193.9	2207.7	2304.3	2380.3	2573.2	2766.5	3022.0	3380.7	3504.8	3552.9	3504.8
40°	1497.3	1497.3	1552.2	1635.1	1793.6	1959.4	2193.9	2462.8	2642.3	2718.4	2635.5
42.5°	952.2	966.0	1007.2	1062.6	1179.9	1324.6	1504.1	1704.3	1835.3	1890.3	1814.7
45°	572.5	586.3	621.1	662.3	738.3	828.1	952.2	1097.0	1207.3	1255.5	1221.1
47.5°	344.9	358.6	372.4	400.3	455.3	517.6	579.4	662.3	731.5	738.3	724.6
50°	200.2	200.2	213.9	234.5	262.0	296.8	331.2	379.3	400.3	427.8	400.3
52.5°	131.0	131.0	131.0	137.9	151.6	165.8	179.5	207.0	220.8	220.8	213.9
55°	96.6	96.6	96.6	96.6	103.5	103.5	103.5	110.4	117.3	117.3	117.3
57.5°	69.2	69.2	69.2	76.0	76.0	76.0	69.2	69.2	69.2	69.2	69.2
60°	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	48.1	48.1	48.1
62.5°	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
65°	27.5	27.5	27.5	34.4	34.4	34.4	34.4	27.5	27.5	27.5	27.5
67.5°	20.6	20.6	20.6	27.5	27.5	27.5	27.5	27.5	20.6	20.6	20.6
70°	13.7	13.7	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
72.5°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
75°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
77.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
80°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
82.5°	0.0	0.0	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
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°	10949.0	10949.0	10949.0	10949.0	10949.0	10949.0	10949.0	10949.0
2.5°	10976.5	10942.1	10942.1	10942.1	10928.4	10942.1	10962.8	10928.4
5°	10859.2	10873.0	10811.1	10859.2	10879.9	10845.5	10928.4	10859.2
7.5°	10755.7	10735.1	10638.5	10707.6	10748.9	10762.6	10755.7	10700.8
10°	10548.7	10500.6	10458.9	10458.9	10445.2	10438.3	10514.4	10486.9
12.5°	10176.3	10210.7	10148.8	10183.2	10155.7	10162.6	10169.5	10155.7
15°	9858.9	9824.6	9741.7	9796.6	9762.3	9727.9	9796.6	9693.1
17.5°	9362.0	9355.1	9307.0	9272.6	9286.4	9279.5	9313.9	9265.8
20°	8775.7	8789.4	8762.0	8748.2	8727.6	8679.1	8720.7	8665.3
22.5°	8140.9	8154.6	8182.6	8127.1	8134.0	8065.3	8127.1	8065.3
25°	7499.2	7492.3	7458.0	7430.5	7354.5	7278.4	7264.7	7216.6
27.5°	6795.7	6747.6	6664.7	6574.9	6457.7	6354.1	6347.3	6312.9
30°	6023.0	5919.5	5767.9	5622.7	5443.6	5284.7	5284.7	5229.7
32.5°	5209.1	4974.1	4767.1	4588.0	4353.5	4263.7	4174.0	4125.9
35°	4236.2	4029.2	3780.5	3484.2	3373.8	3153.0	3166.8	3056.4
37.5°	3318.4	3063.3	2828.7	2587.4	2394.1	2290.6	2235.2	2180.2
40°	2462.8	2214.5	1959.4	1800.5	1628.3	1538.5	1504.1	1490.4
42.5°	1683.2	1476.2	1310.9	1179.9	1090.1	993.5	966.0	952.2
45°	1097.0	979.7	828.1	724.6	662.3	607.3	607.3	586.3
47.5°	655.4	579.4	503.8	434.7	393.4	358.6	344.9	338.0
50°	365.5	324.3	283.0	255.1	227.6	207.0	200.2	200.2
52.5°	200.2	179.5	165.8	144.7	131.0	131.0	131.0	124.1
55°	103.5	103.5	103.5	103.5	96.6	96.6	96.6	89.8
57.5°	69.2	69.2	76.0	76.0	76.0	69.2	69.2	69.2
60°	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
62.5°	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
65°	27.5	34.4	34.4	34.4	34.4	27.5	27.5	27.5
67.5°	20.6	27.5	27.5	27.5	20.6	20.6	20.6	20.6
70°	20.6	20.6	20.6	20.6	20.6	13.7	13.7	13.7
72.5°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
75°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
77.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
80°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
82.5°	6.9	6.9	6.9	6.9	6.9	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)