

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: P840473

Luminaire Tested: **LD6C05D010 EU6059030 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: P840473
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: LD6C05D010 EU6059030 6LBSQLI
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

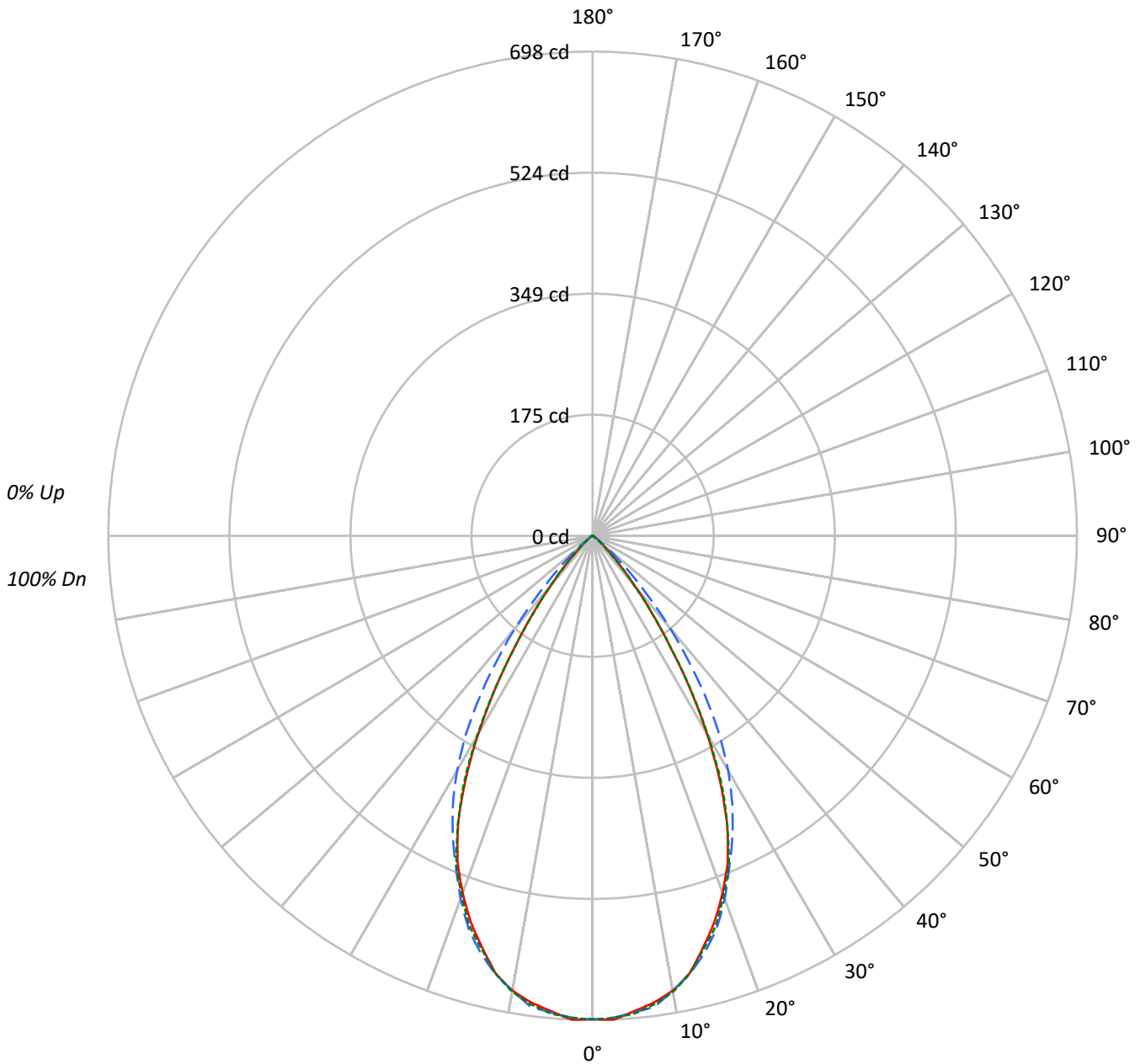
Lumens per Lamp: N/A
Luminaire Lumens: 654.9 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	82	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°	30010	30010	30010
5°	29727	29805	29878
10°	29109	29109	29187
15°	27409	27761	27507
20°	25095	25498	25274
25°	21806	22661	21825
30°	16396	19389	16551
35°	10181	14938	10228
40°	5356	9729	5334
45°	2216	4865	2271
50°	851	1822	851
55°	465	563	428
60°	301	267	301
65°	173	173	173
70°	113	164	113
75°	67	67	67
80°	99	99	99
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	10.0
10°-20°	173.6	26.5
20°-30°	213.0	32.5
30°-40°	147.1	22.5
40°-50°	46.0	7.0
50°-60°	7.2	1.1
60°-70°	2.1	0.3
70°-80°	0.7	0.1
80°-90°	0.1	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°	451.9	69.0
0°-40°	598.9	91.4
0°-60°	652.1	99.6
0°-90°	654.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	654.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	697	697	697	697	697	
5°	688	690	690	690	691	65
15°	615	624	623	622	617	172
25°	459	471	477	474	459	206
35°	194	229	284	231	195	124
45°	36	50	80	49	37	33
55°	6	7	8	7	6	6
65°	2	2	2	2	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
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°	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
2.5°	698.3	688.7	694.8	693.5	697.0	699.2	697.0	701.0	698.3	695.3	696.1
5°	687.8	689.1	688.7	689.6	690.4	690.4	694.8	695.3	696.1	689.6	691.3
7.5°	678.6	678.6	680.8	679.9	683.0	682.1	682.5	686.0	686.5	684.7	683.4
10°	665.8	664.1	661.9	661.9	665.8	666.3	669.8	670.2	672.8	665.8	666.7
12.5°	646.1	645.2	641.7	643.4	646.5	644.7	650.5	650.9	650.0	647.0	648.7
15°	614.9	618.4	617.5	617.1	624.1	623.2	622.8	624.1	624.5	622.8	621.5
17.5°	583.7	586.8	587.2	588.1	589.4	590.7	592.5	597.3	595.5	594.2	598.6
20°	547.7	546.4	549.9	553.4	554.7	554.7	557.4	560.9	558.2	556.5	556.9
22.5°	508.6	510.8	509.0	512.5	514.3	516.5	519.1	522.2	520.0	515.2	520.9
25°	459.0	460.3	466.0	465.6	468.2	473.5	477.4	477.4	477.4	477.0	477.0
27.5°	396.6	395.7	402.8	407.6	414.2	422.5	427.8	436.1	437.5	436.1	433.1
30°	329.8	329.0	337.7	343.9	355.8	359.7	374.2	382.1	390.5	390.0	387.8
32.5°	260.4	262.2	269.2	278.0	287.7	300.0	313.6	331.1	338.6	340.4	336.4
35°	193.7	196.3	202.9	210.4	222.2	235.9	254.7	271.4	284.2	284.2	281.1
37.5°	139.7	140.5	146.7	151.5	163.8	176.1	192.4	215.2	223.1	226.2	223.1
40°	95.3	95.3	98.8	104.1	114.2	124.7	139.7	156.8	168.2	173.1	167.8
42.5°	60.6	61.5	64.1	67.6	75.1	84.3	95.8	108.5	116.8	120.3	115.5
45°	36.4	37.3	39.5	42.2	47.0	52.7	60.6	69.8	76.9	79.9	77.7
47.5°	22.0	22.8	23.7	25.5	29.0	32.9	36.9	42.2	46.6	47.0	46.1
50°	12.7	12.7	13.6	14.9	16.7	18.9	21.1	24.1	25.5	27.2	25.5
52.5°	8.3	8.3	8.3	8.8	9.7	10.6	11.4	13.2	14.1	14.1	13.6
55°	6.2	6.2	6.2	6.2	6.6	6.6	6.6	7.0	7.5	7.5	7.5
57.5°	4.4	4.4	4.4	4.8	4.8	4.8	4.4	4.4	4.4	4.4	4.4
60°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.1	3.1	3.1
62.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
65°	1.7	1.7	1.7	2.2	2.2	2.2	2.2	1.7	1.7	1.7	1.7
67.5°	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7	1.3	1.3	1.3
70°	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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°	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
2.5°	698.8	696.6	696.6	696.6	695.7	696.6	697.9	695.7
5°	691.3	692.2	688.2	691.3	692.6	690.4	695.7	691.3
7.5°	684.7	683.4	677.2	681.7	684.3	685.1	684.7	681.2
10°	671.5	668.5	665.8	665.8	664.9	664.5	669.3	667.6
12.5°	647.8	650.0	646.1	648.3	646.5	647.0	647.4	646.5
15°	627.6	625.4	620.2	623.7	621.5	619.3	623.7	617.1
17.5°	596.0	595.5	592.5	590.3	591.2	590.7	592.9	589.9
20°	558.7	559.5	557.8	556.9	555.6	552.5	555.2	551.6
22.5°	518.3	519.1	520.9	517.4	517.8	513.4	517.4	513.4
25°	477.4	477.0	474.8	473.0	468.2	463.3	462.5	459.4
27.5°	432.6	429.6	424.3	418.6	411.1	404.5	404.1	401.9
30°	383.4	376.8	367.2	357.9	346.5	336.4	336.4	332.9
32.5°	331.6	316.7	303.5	292.1	277.1	271.4	265.7	262.7
35°	269.7	256.5	240.7	221.8	214.8	200.7	201.6	194.6
37.5°	211.2	195.0	180.1	164.7	152.4	145.8	142.3	138.8
40°	156.8	141.0	124.7	114.6	103.7	97.9	95.8	94.9
42.5°	107.2	94.0	83.4	75.1	69.4	63.2	61.5	60.6
45°	69.8	62.4	52.7	46.1	42.2	38.7	38.7	37.3
47.5°	41.7	36.9	32.1	27.7	25.0	22.8	22.0	21.5
50°	23.3	20.6	18.0	16.2	14.5	13.2	12.7	12.7
52.5°	12.7	11.4	10.6	9.2	8.3	8.3	8.3	7.9
55°	6.6	6.6	6.6	6.6	6.2	6.2	6.2	5.7
57.5°	4.4	4.4	4.8	4.8	4.8	4.4	4.4	4.4
60°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
62.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
65°	1.7	2.2	2.2	2.2	2.2	1.7	1.7	1.7
67.5°	1.3	1.7	1.7	1.7	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3	0.9	0.9	0.9
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.4	0.4	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)