

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: P840476

Luminaire Tested: **LD6C05D010 EU6059035 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: P840476
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 EU6059035 6LBSQLI
Description: 6 INCH 500 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

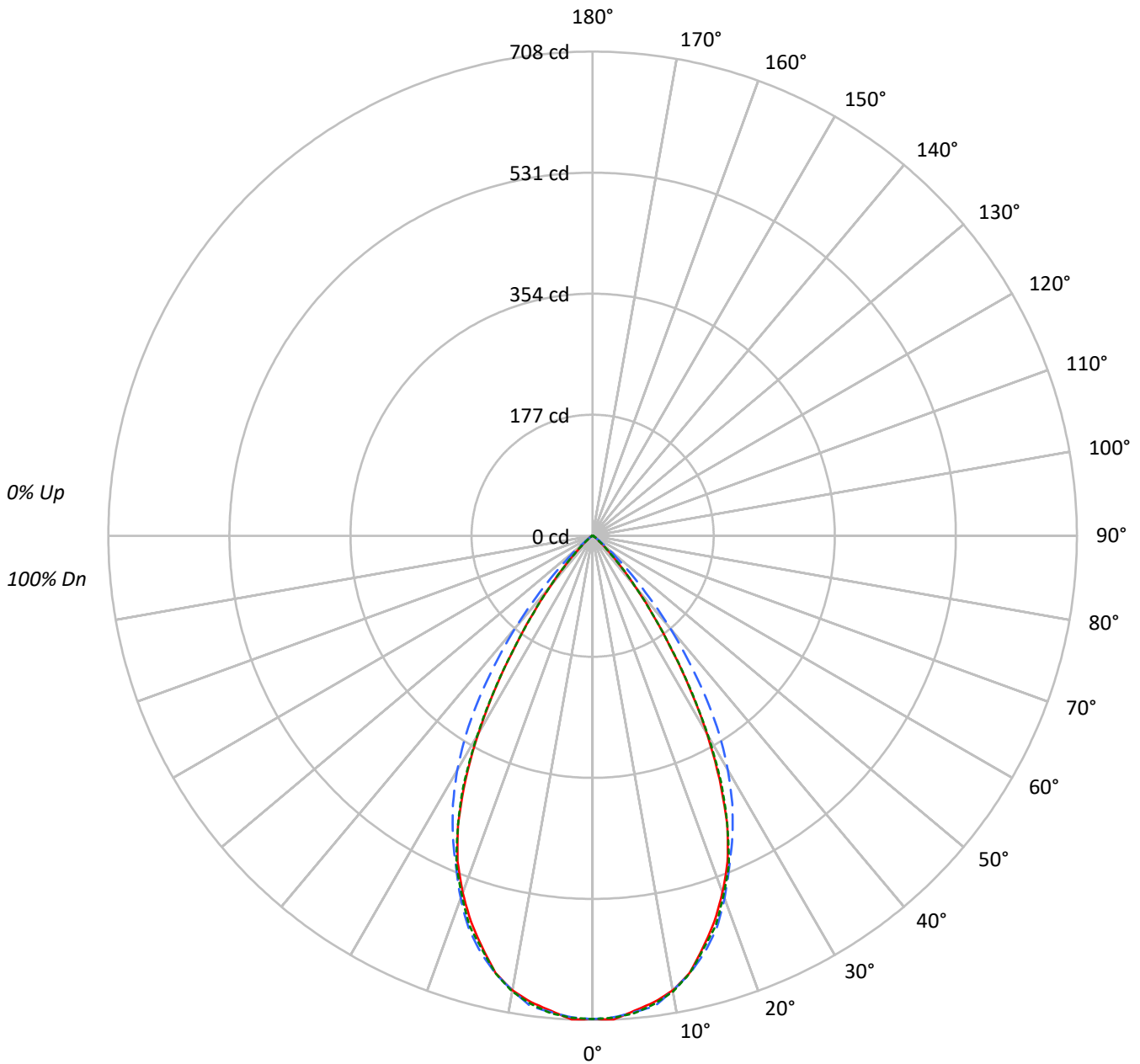
Lumens per Lamp: N/A
Luminaire Lumens: 664.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V):
Input Current (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									
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°	30423	30423	30423
5°	30137	30211	30289
10°	29511	29511	29590
15°	27783	28140	27881
20°	25439	25846	25622
25°	22105	22969	22124
30°	16625	19658	16779
35°	10323	15143	10365
40°	5429	9858	5407
45°	2247	4932	2302
50°	864	1849	864
55°	465	570	435
60°	310	267	310
65°	183	183	183
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°	66.2	10.0
10°-20°	176.0	26.5
20°-30°	216.0	32.5
30°-40°	149.1	22.5
40°-50°	46.6	7.0
50°-60°	7.3	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°	458.1	69.0
0°-40°	607.2	91.4
0°-60°	661.1	99.6
0°-90°	664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	707	707	707	707	707	
5°	697	700	699	699	701	66
15°	623	632	631	630	626	174
25°	465	477	484	480	466	208
35°	196	232	288	234	197	125
45°	37	50	81	50	38	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°	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6
2.5°	707.9	698.1	704.4	703.0	706.6	708.8	706.6	710.6	707.9	704.8	705.7
5°	697.3	698.6	698.1	699.0	699.9	699.9	704.4	704.8	705.7	699.0	700.8
7.5°	687.9	687.9	690.1	689.2	692.3	691.5	691.9	695.5	695.9	694.1	692.8
10°	675.0	673.2	671.0	671.0	675.0	675.4	679.0	679.4	682.1	675.0	675.9
12.5°	655.0	654.0	650.5	652.3	655.4	653.6	659.4	659.8	658.9	655.8	657.6
15°	623.3	626.9	626.0	625.5	632.7	631.8	631.3	632.7	633.1	631.3	630.0
17.5°	591.7	594.8	595.3	596.2	597.5	598.9	600.6	605.5	603.7	602.4	606.9
20°	555.2	553.9	557.4	561.0	562.3	562.3	565.0	568.6	565.9	564.1	564.6
22.5°	515.6	517.8	516.0	519.6	521.4	523.6	526.3	529.4	527.1	522.3	528.1
25°	465.3	466.6	472.4	472.0	474.6	480.0	484.0	484.0	484.0	483.5	483.5
27.5°	402.1	401.2	408.3	413.2	419.8	428.3	433.7	442.1	443.5	442.1	439.0
30°	334.4	333.5	342.4	348.6	360.6	364.7	379.4	387.4	395.8	395.4	393.2
32.5°	264.0	265.8	272.9	281.8	291.6	304.1	317.9	335.7	343.3	345.1	341.0
35°	196.4	199.0	205.7	213.3	225.3	239.1	258.2	275.2	288.1	288.1	284.9
37.5°	141.6	142.5	148.7	153.6	166.1	178.5	195.0	218.2	226.2	229.3	226.2
40°	96.6	96.6	100.2	105.5	115.8	126.5	141.6	158.9	170.5	175.4	170.1
42.5°	61.5	62.3	65.0	68.6	76.1	85.5	97.1	110.0	118.4	122.0	117.1
45°	36.9	37.8	40.1	42.7	47.6	53.4	61.5	70.8	77.9	81.0	78.8
47.5°	22.3	23.1	24.0	25.8	29.4	33.4	37.4	42.7	47.2	47.6	46.8
50°	12.9	12.9	13.8	15.1	16.9	19.2	21.4	24.5	25.8	27.6	25.8
52.5°	8.5	8.5	8.5	8.9	9.8	10.7	11.6	13.4	14.2	14.2	13.8
55°	6.2	6.2	6.2	6.2	6.7	6.7	6.7	7.1	7.6	7.6	7.6
57.5°	4.5	4.5	4.5	4.9	4.9	4.9	4.5	4.5	4.5	4.5	4.5
60°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.1	3.1	3.1
62.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
65°	1.8	1.8	1.8	2.2	2.2	2.2	2.2	1.8	1.8	1.8	1.8
67.5°	1.3	1.3	1.3	1.8	1.8	1.8	1.8	1.8	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°	706.6	706.6	706.6	706.6	706.6	706.6	706.6	706.6
2.5°	708.4	706.2	706.2	706.2	705.3	706.2	707.5	705.3
5°	700.8	701.7	697.7	700.8	702.1	699.9	705.3	700.8
7.5°	694.1	692.8	686.6	691.0	693.7	694.6	694.1	690.6
10°	680.8	677.7	675.0	675.0	674.1	673.6	678.5	676.8
12.5°	656.7	658.9	655.0	657.2	655.4	655.8	656.3	655.4
15°	636.2	634.0	628.7	632.2	630.0	627.8	632.2	625.5
17.5°	604.2	603.7	600.6	598.4	599.3	598.9	601.1	598.0
20°	566.3	567.2	565.5	564.6	563.2	560.1	562.8	559.2
22.5°	525.4	526.3	528.1	524.5	524.9	520.5	524.5	520.5
25°	484.0	483.5	481.3	479.5	474.6	469.7	468.8	465.7
27.5°	438.6	435.5	430.1	424.3	416.7	410.1	409.6	407.4
30°	388.7	382.0	372.2	362.9	351.3	341.0	341.0	337.5
32.5°	336.2	321.0	307.6	296.1	281.0	275.2	269.4	266.3
35°	273.4	260.0	244.0	224.9	217.7	203.5	204.4	197.2
37.5°	214.2	197.7	182.6	167.0	154.5	147.8	144.2	140.7
40°	158.9	142.9	126.5	116.2	105.1	99.3	97.1	96.2
42.5°	108.6	95.3	84.6	76.1	70.3	64.1	62.3	61.5
45°	70.8	63.2	53.4	46.8	42.7	39.2	39.2	37.8
47.5°	42.3	37.4	32.5	28.1	25.4	23.1	22.3	21.8
50°	23.6	20.9	18.3	16.5	14.7	13.4	12.9	12.9
52.5°	12.9	11.6	10.7	9.3	8.5	8.5	8.5	8.0
55°	6.7	6.7	6.7	6.7	6.2	6.2	6.2	5.8
57.5°	4.5	4.5	4.9	4.9	4.9	4.5	4.5	4.5
60°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
62.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
65°	1.8	2.2	2.2	2.2	2.2	1.8	1.8	1.8
67.5°	1.3	1.8	1.8	1.8	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)