

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: P840483

Luminaire Tested: **LD6C05D010 EU6059727 6LBSQLI**

Issue Date: 2/15/2022

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: P840483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209355)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C05D010 EU6059727 6LBSQLI
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 97CRI LEDS AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

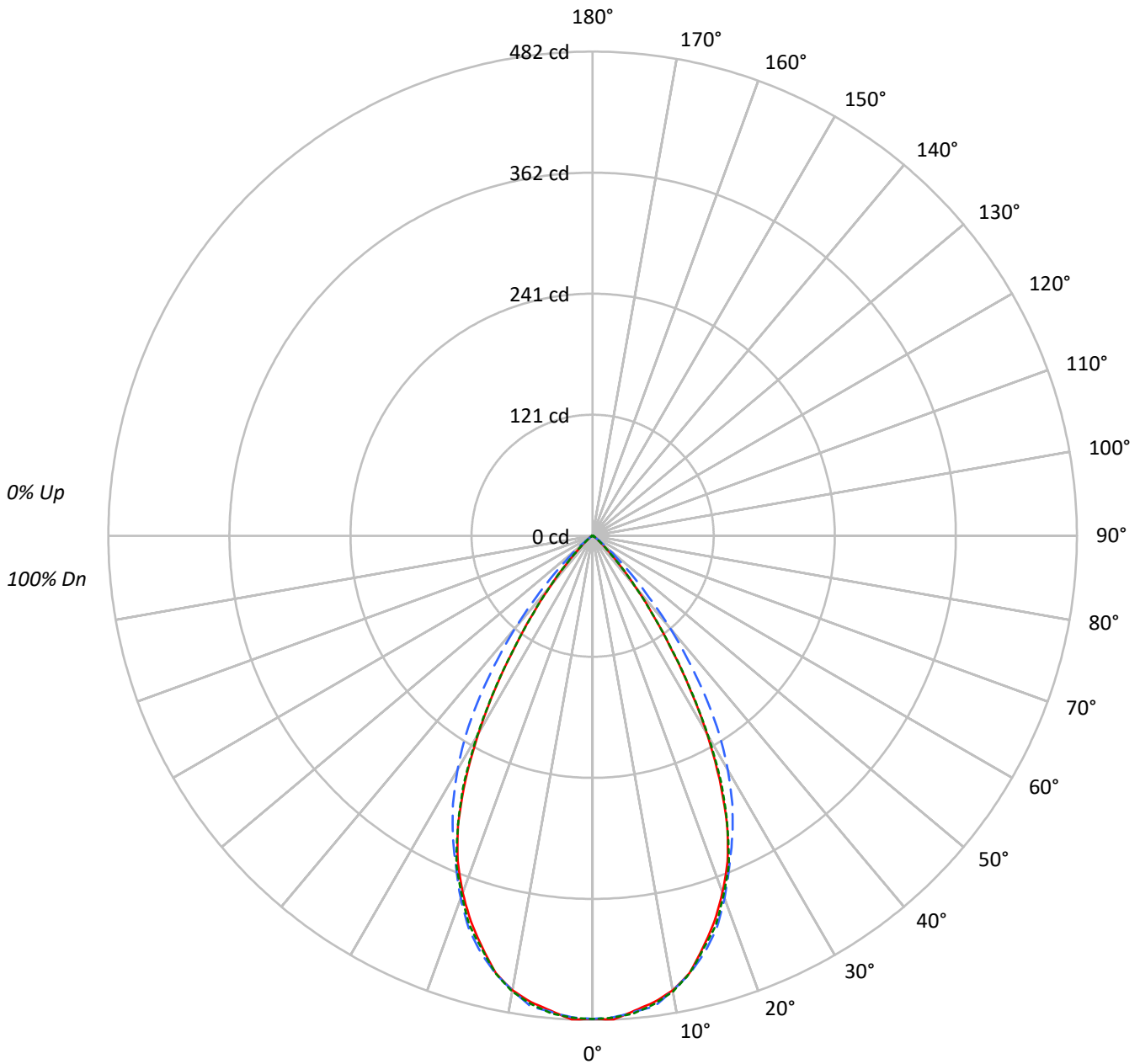
Lumens per Lamp: N/A
Luminaire Lumens: 452.0 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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°	20710	20710	20710
5°	20512	20564	20620
10°	20089	20089	20142
15°	18913	19158	18980
20°	17320	17594	17443
25°	15045	15634	15060
30°	11315	13379	11420
35°	7027	10307	7059
40°	3698	6711	3681
45°	1534	3361	1571
50°	589	1259	589
55°	315	383	293
60°	207	181	207
65°	122	122	122
70°	76	113	76
75°	50	50	50
80°	74	74	74
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	10.0
10°-20°	119.8	26.5
20°-30°	147.0	32.5
30°-40°	101.5	22.5
40°-50°	31.7	7.0
50°-60°	4.9	1.1
60°-70°	1.4	0.3
70°-80°	0.5	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°	311.8	69.0
0°-40°	413.3	91.4
0°-60°	450.0	99.6
0°-90°	452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	452.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	481	481	481	481	481	
5°	475	476	476	476	477	45
15°	424	430	430	429	426	119
25°	317	325	329	327	317	142
35°	134	158	196	160	134	85
45°	25	34	55	34	26	23
55°	4	4	5	4	4	4
65°	1	2	1	2	1	1
75°	0	0	0	0	0	0
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°	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0
2.5°	481.9	475.2	479.5	478.6	481.0	482.5	481.0	483.7	481.9	479.8	480.4
5°	474.6	475.5	475.2	475.8	476.4	476.4	479.5	479.8	480.4	475.8	477.1
7.5°	468.3	468.3	469.8	469.2	471.3	470.7	471.0	473.4	473.7	472.5	471.6
10°	459.5	458.3	456.7	456.7	459.5	459.8	462.2	462.5	464.3	459.5	460.1
12.5°	445.8	445.2	442.8	444.0	446.1	444.9	448.9	449.2	448.6	446.4	447.7
15°	424.3	426.7	426.1	425.8	430.7	430.1	429.8	430.7	431.0	429.8	428.9
17.5°	402.8	404.9	405.2	405.8	406.7	407.7	408.9	412.2	411.0	410.1	413.1
20°	378.0	377.0	379.5	381.9	382.8	382.8	384.6	387.0	385.2	384.0	384.3
22.5°	351.0	352.5	351.3	353.7	354.9	356.4	358.3	360.4	358.9	355.5	359.5
25°	316.7	317.6	321.6	321.3	323.1	326.7	329.5	329.5	329.5	329.1	329.1
27.5°	273.7	273.1	277.9	281.3	285.8	291.6	295.2	301.0	301.9	301.0	298.8
30°	227.6	227.0	233.1	237.3	245.5	248.2	258.2	263.7	269.4	269.1	267.6
32.5°	179.7	180.9	185.8	191.9	198.5	207.0	216.4	228.5	233.7	234.9	232.2
35°	133.7	135.5	140.0	145.2	153.4	162.8	175.8	187.3	196.1	196.1	194.0
37.5°	96.4	97.0	101.2	104.6	113.0	121.5	132.8	148.5	154.0	156.1	154.0
40°	65.8	65.8	68.2	71.8	78.8	86.1	96.4	108.2	116.1	119.4	115.8
42.5°	41.8	42.4	44.3	46.7	51.8	58.2	66.1	74.9	80.6	83.0	79.7
45°	25.2	25.8	27.3	29.1	32.4	36.4	41.8	48.2	53.0	55.2	53.6
47.5°	15.1	15.8	16.4	17.6	20.0	22.7	25.5	29.1	32.1	32.4	31.8
50°	8.8	8.8	9.4	10.3	11.5	13.0	14.6	16.7	17.6	18.8	17.6
52.5°	5.8	5.8	5.8	6.1	6.7	7.3	7.9	9.1	9.7	9.7	9.4
55°	4.2	4.2	4.2	4.2	4.5	4.5	4.5	4.9	5.1	5.1	5.1
57.5°	3.0	3.0	3.0	3.3	3.3	3.3	3.0	3.0	3.0	3.0	3.0
60°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.1	2.1	2.1
62.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
65°	1.2	1.2	1.2	1.5	1.5	1.5	1.5	1.2	1.2	1.2	1.2
67.5°	0.9	0.9	0.9	1.2	1.2	1.2	1.2	1.2	0.9	0.9	0.9
70°	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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°	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0
2.5°	482.2	480.7	480.7	480.7	480.1	480.7	481.6	480.1
5°	477.1	477.7	474.9	477.1	478.0	476.4	480.1	477.1
7.5°	472.5	471.6	467.4	470.4	472.2	472.8	472.5	470.1
10°	463.4	461.3	459.5	459.5	458.9	458.6	461.9	460.7
12.5°	447.0	448.6	445.8	447.4	446.1	446.4	446.7	446.1
15°	433.1	431.6	428.0	430.4	428.9	427.4	430.4	425.8
17.5°	411.3	411.0	408.9	407.3	408.0	407.7	409.2	407.0
20°	385.5	386.1	384.9	384.3	383.4	381.3	383.1	380.7
22.5°	357.6	358.3	359.5	357.0	357.3	354.3	357.0	354.3
25°	329.5	329.1	327.6	326.4	323.1	319.8	319.1	317.0
27.5°	298.5	296.4	292.8	288.8	283.7	279.1	278.8	277.3
30°	264.6	260.0	253.4	247.0	239.1	232.2	232.2	229.7
32.5°	228.8	218.5	209.4	201.6	191.2	187.3	183.4	181.2
35°	186.1	177.0	166.1	153.1	148.2	138.5	139.1	134.3
37.5°	145.8	134.6	124.3	113.7	105.2	100.6	98.2	95.8
40°	108.2	97.3	86.1	79.1	71.5	67.6	66.1	65.5
42.5°	74.0	64.9	57.6	51.8	47.9	43.6	42.4	41.8
45°	48.2	43.0	36.4	31.8	29.1	26.7	26.7	25.8
47.5°	28.8	25.5	22.1	19.1	17.3	15.8	15.1	14.9
50°	16.1	14.2	12.4	11.2	10.0	9.1	8.8	8.8
52.5°	8.8	7.9	7.3	6.4	5.8	5.8	5.8	5.5
55°	4.5	4.5	4.5	4.5	4.2	4.2	4.2	3.9
57.5°	3.0	3.0	3.3	3.3	3.3	3.0	3.0	3.0
60°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
62.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
65°	1.2	1.5	1.5	1.5	1.5	1.2	1.2	1.2
67.5°	0.9	1.2	1.2	1.2	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.9	0.9	0.9	0.6	0.6	0.6
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	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)