

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: P840482

Luminaire Tested: **LD6C05D010 EU6059050 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: P840482
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 EU6059050 6LBSQLI
Description: 6 INCH 500 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

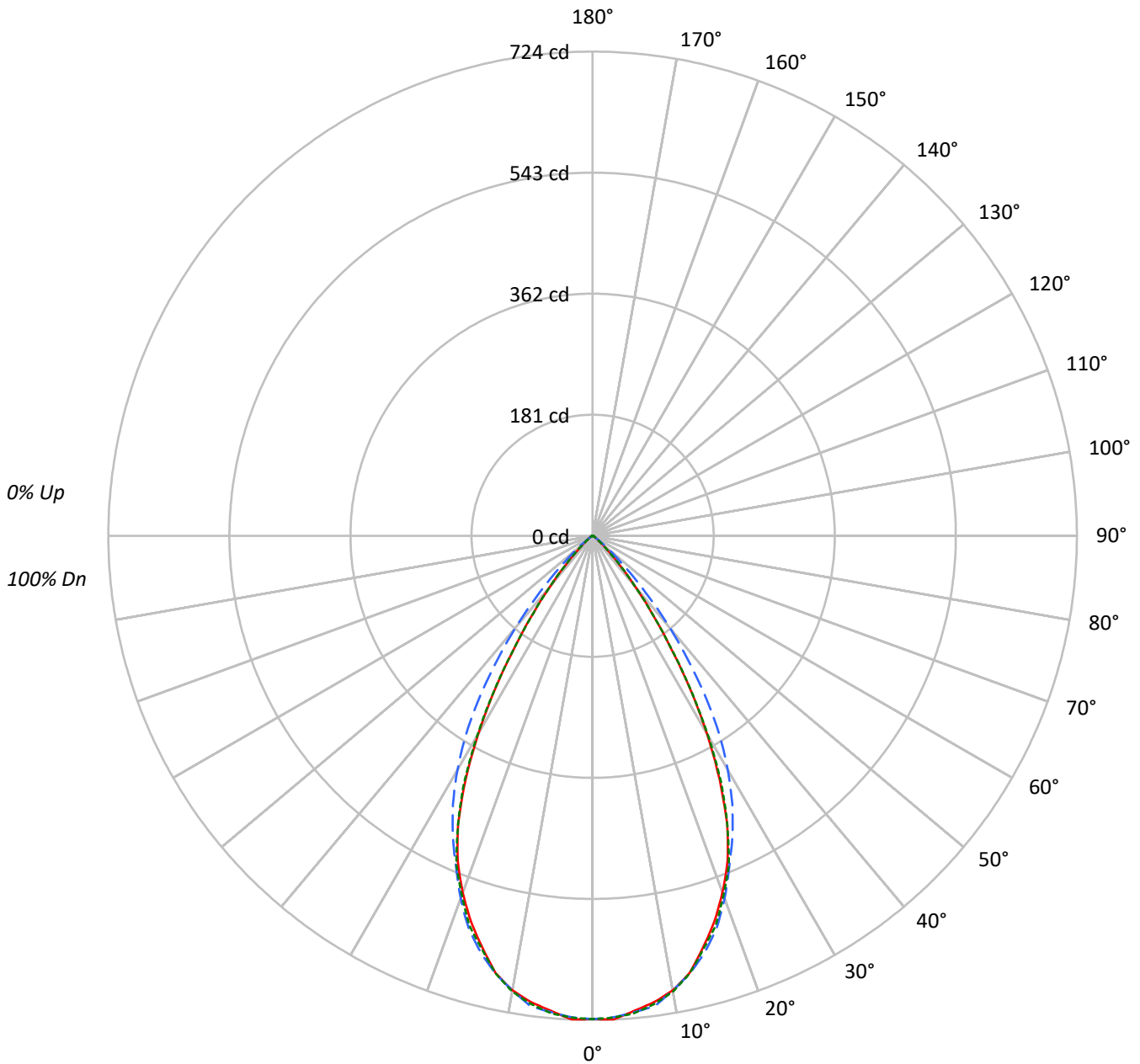
Lumens per Lamp: N/A
Luminaire Lumens: 679.1 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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	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°	31112	31112	31112
5°	30816	30894	30972
10°	30175	30175	30259
15°	28412	28777	28514
20°	26011	26433	26199
25°	22604	23487	22623
30°	16998	20100	17157
35°	10554	15485	10602
40°	5553	10083	5531
45°	2302	5048	2356
50°	884	1889	884
55°	480	578	443
60°	319	276	319
65°	183	183	183
70°	113	176	113
75°	83	83	83
80°	124	124	124
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	10.0
10°-20°	179.9	26.5
20°-30°	220.8	32.5
30°-40°	152.5	22.5
40°-50°	47.7	7.0
50°-60°	7.5	1.1
60°-70°	2.2	0.3
70°-80°	0.7	0.1
80°-90°	0.2	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°	468.4	69.0
0°-40°	620.9	91.4
0°-60°	676.0	99.5
0°-90°	679.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	679.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	723	723	723	723	723	
5°	713	716	715	715	717	67
15°	637	647	646	645	640	178
25°	476	488	494	491	476	213
35°	201	237	295	240	202	128
45°	38	52	83	51	39	34
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°	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6
2.5°	723.9	713.9	720.3	718.9	722.6	724.8	722.6	726.6	723.9	720.7	721.6
5°	713.0	714.4	713.9	714.8	715.7	715.7	720.3	720.7	721.6	714.8	716.6
7.5°	703.4	703.4	705.7	704.8	708.0	707.1	707.5	711.2	711.6	709.8	708.4
10°	690.2	688.4	686.1	686.1	690.2	690.7	694.3	694.8	697.5	690.2	691.2
12.5°	669.8	668.8	665.2	667.0	670.2	668.4	674.3	674.7	673.8	670.7	672.5
15°	637.4	641.1	640.1	639.7	647.0	646.1	645.6	647.0	647.4	645.6	644.2
17.5°	605.1	608.3	608.7	609.6	611.0	612.4	614.2	619.2	617.4	616.0	620.6
20°	567.7	566.4	570.0	573.7	575.0	575.0	577.8	581.4	578.7	576.9	577.3
22.5°	527.2	529.5	527.7	531.3	533.2	535.4	538.1	541.4	539.1	534.1	540.0
25°	475.8	477.2	483.1	482.6	485.3	490.8	494.9	494.9	494.9	494.4	494.4
27.5°	411.1	410.2	417.5	422.5	429.3	438.0	443.4	452.1	453.5	452.1	448.9
30°	341.9	341.0	350.1	356.5	368.8	372.9	387.9	396.1	404.8	404.3	402.0
32.5°	270.0	271.8	279.1	288.2	298.2	311.0	325.1	343.3	351.0	352.9	348.7
35°	200.8	203.5	210.3	218.1	230.4	244.5	264.1	281.4	294.6	294.6	291.4
37.5°	144.8	145.7	152.1	157.1	169.8	182.6	199.4	223.1	231.3	234.5	231.3
40°	98.8	98.8	102.4	107.9	118.4	129.3	144.8	162.5	174.4	179.4	173.9
42.5°	62.8	63.7	66.5	70.1	77.9	87.4	99.3	112.5	121.1	124.7	119.8
45°	37.8	38.7	41.0	43.7	48.7	54.6	62.8	72.4	79.7	82.9	80.6
47.5°	22.8	23.7	24.6	26.4	30.0	34.2	38.2	43.7	48.3	48.7	47.8
50°	13.2	13.2	14.1	15.5	17.3	19.6	21.9	25.0	26.4	28.2	26.4
52.5°	8.6	8.6	8.6	9.1	10.0	10.9	11.8	13.7	14.6	14.6	14.1
55°	6.4	6.4	6.4	6.4	6.8	6.8	6.8	7.3	7.7	7.7	7.7
57.5°	4.6	4.6	4.6	5.0	5.0	5.0	4.6	4.6	4.6	4.6	4.6
60°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.2	3.2	3.2
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	2.3	2.3	2.3	2.3	1.8	1.8	1.8	1.8
67.5°	1.4	1.4	1.4	1.8	1.8	1.8	1.8	1.8	1.4	1.4	1.4
70°	0.9	0.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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°	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6
2.5°	724.4	722.1	722.1	722.1	721.2	722.1	723.5	721.2
5°	716.6	717.5	713.5	716.6	718.0	715.7	721.2	716.6
7.5°	709.8	708.4	702.1	706.6	709.3	710.3	709.8	706.2
10°	696.1	693.0	690.2	690.2	689.3	688.9	693.9	692.1
12.5°	671.6	673.8	669.8	672.0	670.2	670.7	671.1	670.2
15°	650.6	648.4	642.9	646.5	644.2	642.0	646.5	639.7
17.5°	617.8	617.4	614.2	611.9	612.8	612.4	614.6	611.5
20°	579.1	580.0	578.2	577.3	576.0	572.8	575.5	571.8
22.5°	537.2	538.1	540.0	536.3	536.8	532.3	536.3	532.3
25°	494.9	494.4	492.2	490.4	485.3	480.3	479.4	476.2
27.5°	448.5	445.3	439.8	433.9	426.2	419.3	418.9	416.6
30°	397.5	390.6	380.6	371.1	359.2	348.7	348.7	345.1
32.5°	343.8	328.3	314.6	302.8	287.3	281.4	275.5	272.3
35°	279.6	265.9	249.5	229.9	222.6	208.1	209.0	201.7
37.5°	219.0	202.2	186.7	170.7	158.0	151.2	147.5	143.9
40°	162.5	146.1	129.3	118.8	107.5	101.5	99.3	98.4
42.5°	111.1	97.4	86.5	77.9	71.9	65.6	63.7	62.8
45°	72.4	64.7	54.6	47.8	43.7	40.1	40.1	38.7
47.5°	43.3	38.2	33.2	28.7	26.0	23.7	22.8	22.3
50°	24.1	21.4	18.7	16.8	15.0	13.7	13.2	13.2
52.5°	13.2	11.8	10.9	9.6	8.6	8.6	8.6	8.2
55°	6.8	6.8	6.8	6.8	6.4	6.4	6.4	5.9
57.5°	4.6	4.6	5.0	5.0	5.0	4.6	4.6	4.6
60°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
62.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
65°	1.8	2.3	2.3	2.3	2.3	1.8	1.8	1.8
67.5°	1.4	1.8	1.8	1.8	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	1.4	1.4	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°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5	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)