

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: P840505

Luminaire Tested: **LD6C08D010 EU6089727 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: P840505
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: LD6C08D010 EU6089727 6LBSQLI
Description: 6 INCH 800 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

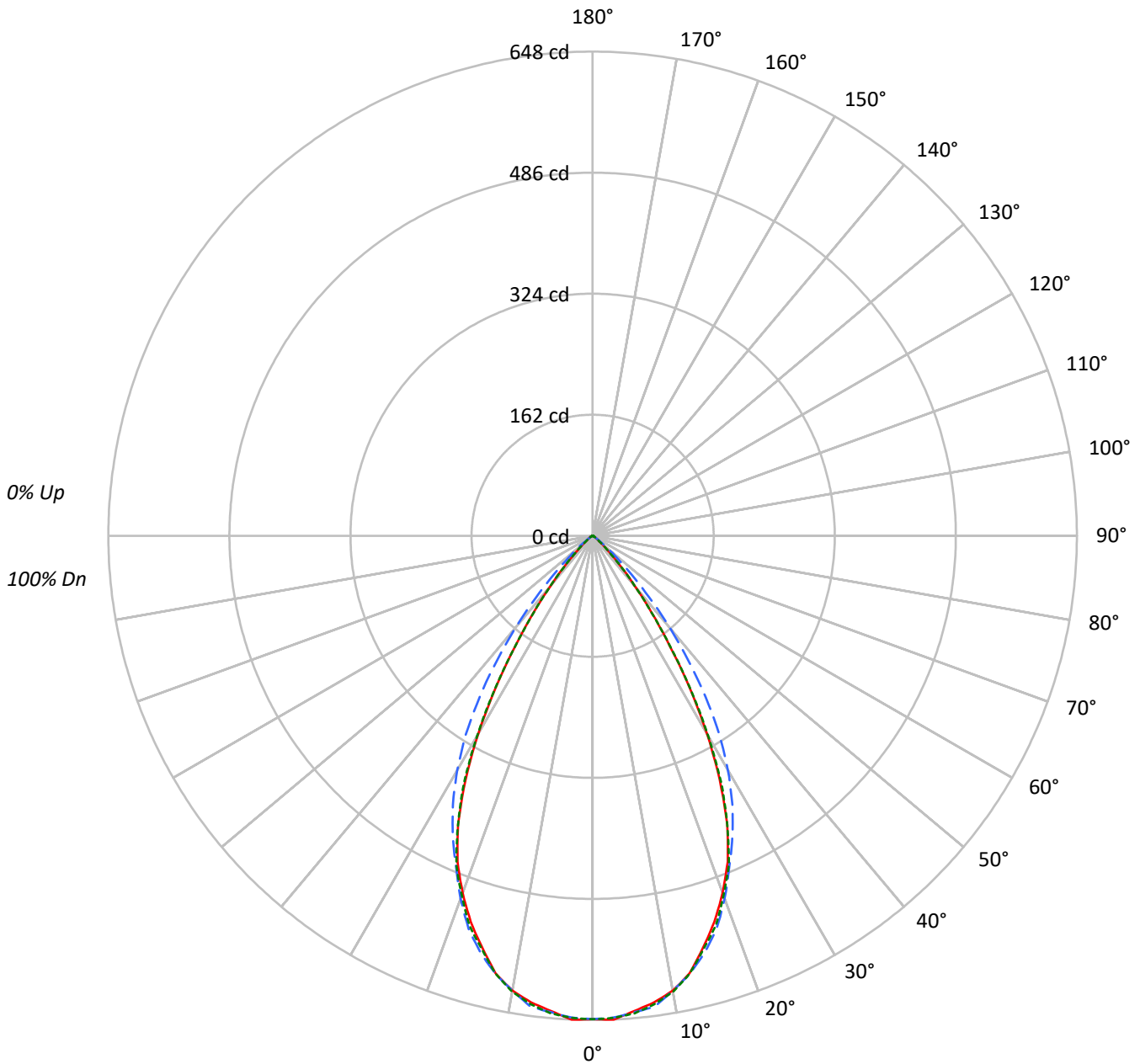
Lumens per Lamp: N/A
Luminaire Lumens: 608.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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					20					
RC	80					70					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°	27857	27857	27857
5°	27592	27665	27734
10°	27023	27023	27093
15°	25443	25769	25532
20°	23294	23665	23464
25°	20238	21031	20257
30°	15223	17997	15362
35°	9451	13866	9493
40°	4974	9027	4952
45°	2058	4518	2113
50°	790	1695	790
55°	428	518	398
60°	284	250	284
65°	163	163	163
70°	101	151	101
75°	67	67	67
80°	99	99	99
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	10.0
10°-20°	161.1	26.5
20°-30°	197.7	32.5
30°-40°	136.5	22.5
40°-50°	42.7	7.0
50°-60°	6.7	1.1
60°-70°	1.9	0.3
70°-80°	0.6	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°	419.4	69.0
0°-40°	556.0	91.4
0°-60°	605.3	99.6
0°-90°	608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	608.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	647	647	647	647	647	
5°	638	641	640	640	642	60
15°	571	579	578	577	573	160
25°	426	437	443	440	426	191
35°	180	213	264	215	181	115
45°	34	46	74	46	35	30
55°	6	6	7	6	5	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°	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
2.5°	648.2	639.3	645.0	643.7	647.0	649.0	647.0	650.7	648.2	645.4	646.2
5°	638.4	639.7	639.3	640.1	640.9	640.9	645.0	645.4	646.2	640.1	641.7
7.5°	629.9	629.9	631.9	631.1	634.0	633.1	633.5	636.8	637.2	635.6	634.4
10°	618.1	616.4	614.4	614.4	618.1	618.5	621.7	622.1	624.6	618.1	618.9
12.5°	599.7	598.9	595.6	597.3	600.1	598.5	603.8	604.2	603.4	600.5	602.2
15°	570.8	574.0	573.2	572.8	579.3	578.5	578.1	579.3	579.7	578.1	576.9
17.5°	541.8	544.7	545.1	545.9	547.1	548.3	550.0	554.5	552.8	551.6	555.7
20°	508.4	507.2	510.4	513.7	514.9	514.9	517.4	520.6	518.2	516.5	517.0
22.5°	472.1	474.1	472.5	475.8	477.4	479.4	481.9	484.7	482.7	478.2	483.5
25°	426.0	427.3	432.6	432.1	434.6	439.5	443.2	443.2	443.2	442.7	442.7
27.5°	368.1	367.3	373.9	378.3	384.5	392.2	397.1	404.8	406.1	404.8	402.0
30°	306.2	305.4	313.5	319.2	330.2	333.9	347.4	354.7	362.4	362.0	360.0
32.5°	241.8	243.4	249.9	258.1	267.0	278.4	291.1	307.4	314.3	316.0	312.3
35°	179.8	182.2	188.3	195.3	206.3	218.9	236.5	251.9	263.8	263.8	260.9
37.5°	129.7	130.5	136.2	140.7	152.1	163.5	178.6	199.8	207.1	210.0	207.1
40°	88.5	88.5	91.7	96.6	106.0	115.8	129.7	145.5	156.1	160.6	155.7
42.5°	56.3	57.1	59.5	62.8	69.7	78.3	88.9	100.7	108.4	111.7	107.2
45°	33.8	34.7	36.7	39.1	43.6	48.9	56.3	64.8	71.3	74.2	72.2
47.5°	20.4	21.2	22.0	23.6	26.9	30.6	34.2	39.1	43.2	43.6	42.8
50°	11.8	11.8	12.6	13.9	15.5	17.5	19.6	22.4	23.6	25.3	23.6
52.5°	7.7	7.7	7.7	8.2	9.0	9.8	10.6	12.2	13.1	13.1	12.6
55°	5.7	5.7	5.7	5.7	6.1	6.1	6.1	6.5	6.9	6.9	6.9
57.5°	4.1	4.1	4.1	4.5	4.5	4.5	4.1	4.1	4.1	4.1	4.1
60°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.9	2.9	2.9
62.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
65°	1.6	1.6	1.6	2.0	2.0	2.0	2.0	1.6	1.6	1.6	1.6
67.5°	1.2	1.2	1.2	1.6	1.6	1.6	1.6	1.6	1.2	1.2	1.2
70°	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0
2.5°	648.6	646.6	646.6	646.6	645.8	646.6	647.8	645.8
5°	641.7	642.5	638.9	641.7	642.9	640.9	645.8	641.7
7.5°	635.6	634.4	628.7	632.7	635.2	636.0	635.6	632.3
10°	623.4	620.5	618.1	618.1	617.2	616.8	621.3	619.7
12.5°	601.3	603.4	599.7	601.8	600.1	600.5	600.9	600.1
15°	582.6	580.6	575.7	578.9	576.9	574.8	578.9	572.8
17.5°	553.2	552.8	550.0	547.9	548.7	548.3	550.4	547.5
20°	518.6	519.4	517.8	517.0	515.7	512.9	515.3	512.1
22.5°	481.1	481.9	483.5	480.3	480.7	476.6	480.3	476.6
25°	443.2	442.7	440.7	439.1	434.6	430.1	429.3	426.4
27.5°	401.6	398.7	393.8	388.5	381.6	375.5	375.1	373.0
30°	355.9	349.8	340.8	332.3	321.7	312.3	312.3	309.0
32.5°	307.8	293.9	281.7	271.1	257.3	251.9	246.7	243.8
35°	250.3	238.1	223.4	205.9	199.4	186.3	187.1	180.6
37.5°	196.1	181.0	167.2	152.9	141.5	135.4	132.1	128.8
40°	145.5	130.9	115.8	106.4	96.2	90.9	88.9	88.1
42.5°	99.5	87.2	77.5	69.7	64.4	58.7	57.1	56.3
45°	64.8	57.9	48.9	42.8	39.1	35.9	35.9	34.7
47.5°	38.7	34.2	29.8	25.7	23.2	21.2	20.4	20.0
50°	21.6	19.2	16.7	15.1	13.5	12.2	11.8	11.8
52.5°	11.8	10.6	9.8	8.6	7.7	7.7	7.7	7.3
55°	6.1	6.1	6.1	6.1	5.7	5.7	5.7	5.3
57.5°	4.1	4.1	4.5	4.5	4.5	4.1	4.1	4.1
60°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
62.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
65°	1.6	2.0	2.0	2.0	2.0	1.6	1.6	1.6
67.5°	1.2	1.6	1.6	1.6	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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)