

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: P840487

Luminaire Tested: **LD6C08D010 EU6089027 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: P840487
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: LD6C08D010 EU6089027 6LBSQLI
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

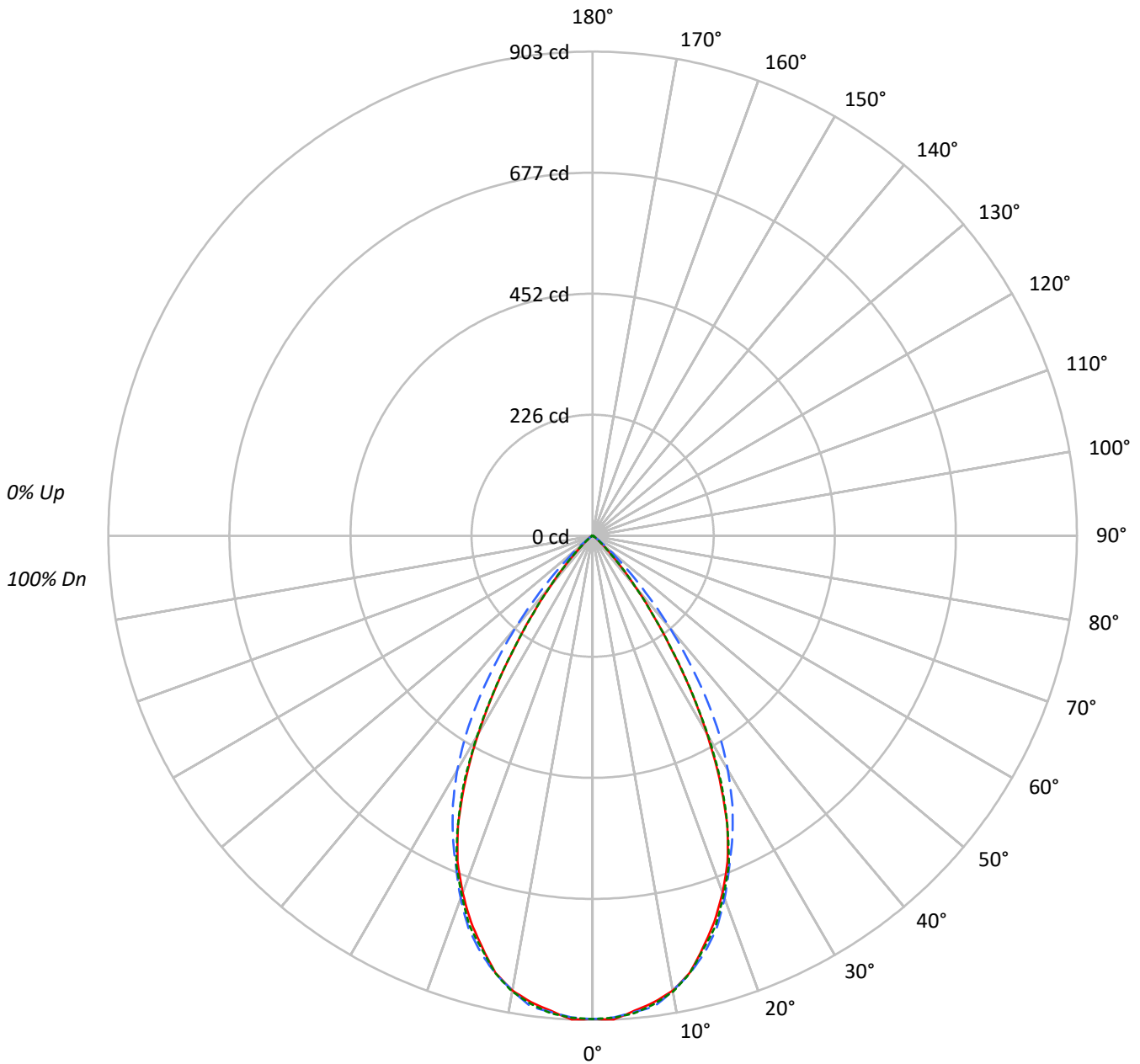
Lumens per Lamp: N/A
Luminaire Lumens: 847.1 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V):
Input Current (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

TEST NUMBER: P840487

CATALOG NUMBER: LD6C08D010 EU6089027 6LBSQLI

Luminous Intensity Polar Plot





TEST NUMBER: P840487

CATALOG NUMBER: LD6C08D010 EU6089027 6LBSQLI

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°	38806	38806	38806
5°	38440	38539	38634
10°	37643	37643	37743
15°	35441	35896	35566
20°	32449	32971	32683
25°	28195	29302	28224
30°	21204	25072	21403
35°	13167	19316	13224
40°	6930	12579	6896
45°	2868	6290	2941
50°	1105	2358	1105
55°	601	728	555
60°	396	344	396
65°	234	234	234
70°	138	214	138
75°	100	100	100
80°	149	149	149
85°	0	0	0



TEST NUMBER: P840487

CATALOG NUMBER: LD6C08D010 EU6089027 6LBSQLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	10.0
10°-20°	224.5	26.5
20°-30°	275.5	32.5
30°-40°	190.2	22.5
40°-50°	59.5	7.0
50°-60°	9.3	1.1
60°-70°	2.7	0.3
70°-80°	0.9	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°	584.3	69.0
0°-40°	774.5	91.4
0°-60°	843.3	99.6
0°-90°	847.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	847.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	901	901	901	901	901	
5°	889	893	892	892	894	84
15°	795	806	805	804	798	222
25°	594	609	617	613	594	266
35°	250	296	368	299	252	160
45°	47	64	103	64	48	42
55°	8	8	10	8	7	8
65°	2	3	2	3	2	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P840487

CATALOG NUMBER: LD6C08D010 EU6089027 6LBSQLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3
2.5°	903.0	890.5	898.5	896.8	901.3	904.2	901.3	906.4	903.0	899.1	900.2
5°	889.4	891.1	890.5	891.7	892.8	892.8	898.5	899.1	900.2	891.7	893.9
7.5°	877.5	877.5	880.3	879.2	883.2	882.0	882.6	887.1	887.7	885.4	883.7
10°	861.0	858.7	855.9	855.9	861.0	861.6	866.1	866.7	870.1	861.0	862.2
12.5°	835.5	834.3	829.8	832.0	836.0	833.7	841.1	841.7	840.6	836.6	838.9
15°	795.1	799.7	798.5	797.9	807.0	805.9	805.3	807.0	807.6	805.3	803.6
17.5°	754.8	758.8	759.3	760.5	762.2	763.9	766.2	772.4	770.1	768.4	774.1
20°	708.2	706.5	711.1	715.6	717.3	717.3	720.7	725.3	721.9	719.6	720.2
22.5°	657.7	660.5	658.3	662.8	665.1	667.9	671.3	675.3	672.4	666.2	673.6
25°	593.5	595.2	602.6	602.0	605.4	612.3	617.3	617.3	617.3	616.8	616.8
27.5°	512.9	511.7	520.8	527.0	535.6	546.4	553.2	564.0	565.7	564.0	560.0
30°	426.5	425.4	436.7	444.7	460.0	465.2	483.9	494.1	504.9	504.3	501.5
32.5°	336.8	339.1	348.2	359.5	372.0	387.9	405.5	428.2	437.9	440.2	435.0
35°	250.5	253.9	262.4	272.0	287.4	305.0	329.4	351.0	367.5	367.5	363.5
37.5°	180.6	181.7	189.7	196.0	211.8	227.7	248.8	278.3	288.5	292.5	288.5
40°	123.3	123.3	127.8	134.6	147.7	161.3	180.6	202.7	217.5	223.8	217.0
42.5°	78.4	79.5	82.9	87.5	97.1	109.0	123.8	140.3	151.1	155.6	149.4
45°	47.1	48.3	51.1	54.5	60.8	68.2	78.4	90.3	99.4	103.3	100.5
47.5°	28.4	29.5	30.7	33.0	37.5	42.6	47.7	54.5	60.2	60.8	59.6
50°	16.5	16.5	17.6	19.3	21.6	24.4	27.3	31.2	33.0	35.2	33.0
52.5°	10.8	10.8	10.8	11.3	12.5	13.6	14.8	17.0	18.2	18.2	17.6
55°	8.0	8.0	8.0	8.0	8.5	8.5	8.5	9.1	9.7	9.7	9.7
57.5°	5.7	5.7	5.7	6.3	6.3	6.3	5.7	5.7	5.7	5.7	5.7
60°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.0	4.0	4.0
62.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
65°	2.3	2.3	2.3	2.8	2.8	2.8	2.8	2.3	2.3	2.3	2.3
67.5°	1.7	1.7	1.7	2.3	2.3	2.3	2.3	2.3	1.7	1.7	1.7
70°	1.1	1.1	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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



TEST NUMBER: P840487

CATALOG NUMBER: LD6C08D010 EU6089027 6LBSQLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3
2.5°	903.6	900.8	900.8	900.8	899.6	900.8	902.5	899.6
5°	893.9	895.1	890.0	893.9	895.6	892.8	899.6	893.9
7.5°	885.4	883.7	875.8	881.5	884.9	886.0	885.4	880.9
10°	868.4	864.4	861.0	861.0	859.9	859.3	865.6	863.3
12.5°	837.7	840.6	835.5	838.3	836.0	836.6	837.2	836.0
15°	811.6	808.8	801.9	806.5	803.6	800.8	806.5	797.9
17.5°	770.7	770.1	766.2	763.3	764.5	763.9	766.7	762.8
20°	722.4	723.6	721.3	720.2	718.5	714.5	717.9	713.3
22.5°	670.2	671.3	673.6	669.0	669.6	663.9	669.0	663.9
25°	617.3	616.8	613.9	611.7	605.4	599.2	598.0	594.1
27.5°	559.4	555.5	548.6	541.3	531.6	523.1	522.5	519.7
30°	495.8	487.3	474.8	462.9	448.1	435.0	435.0	430.5
32.5°	428.8	409.5	392.4	377.7	358.4	351.0	343.6	339.6
35°	348.7	331.7	311.2	286.8	277.7	259.6	260.7	251.6
37.5°	273.2	252.2	232.9	213.0	197.1	188.6	184.0	179.5
40°	202.7	182.3	161.3	148.2	134.0	126.7	123.8	122.7
42.5°	138.6	121.5	107.9	97.1	89.7	81.8	79.5	78.4
45°	90.3	80.7	68.2	59.6	54.5	50.0	50.0	48.3
47.5°	54.0	47.7	41.5	35.8	32.4	29.5	28.4	27.8
50°	30.1	26.7	23.3	21.0	18.7	17.0	16.5	16.5
52.5°	16.5	14.8	13.6	11.9	10.8	10.8	10.8	10.2
55°	8.5	8.5	8.5	8.5	8.0	8.0	8.0	7.4
57.5°	5.7	5.7	6.3	6.3	6.3	5.7	5.7	5.7
60°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
62.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
65°	2.3	2.8	2.8	2.8	2.8	2.3	2.3	2.3
67.5°	1.7	2.3	2.3	2.3	1.7	1.7	1.7	1.7
70°	1.7	1.7	1.7	1.7	1.7	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	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)