

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: P840503

Luminaire Tested: **LD6C08D010 EU6089050 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: P840503
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 EU6089050 6LBSQLI
Description: 6 INCH 800 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

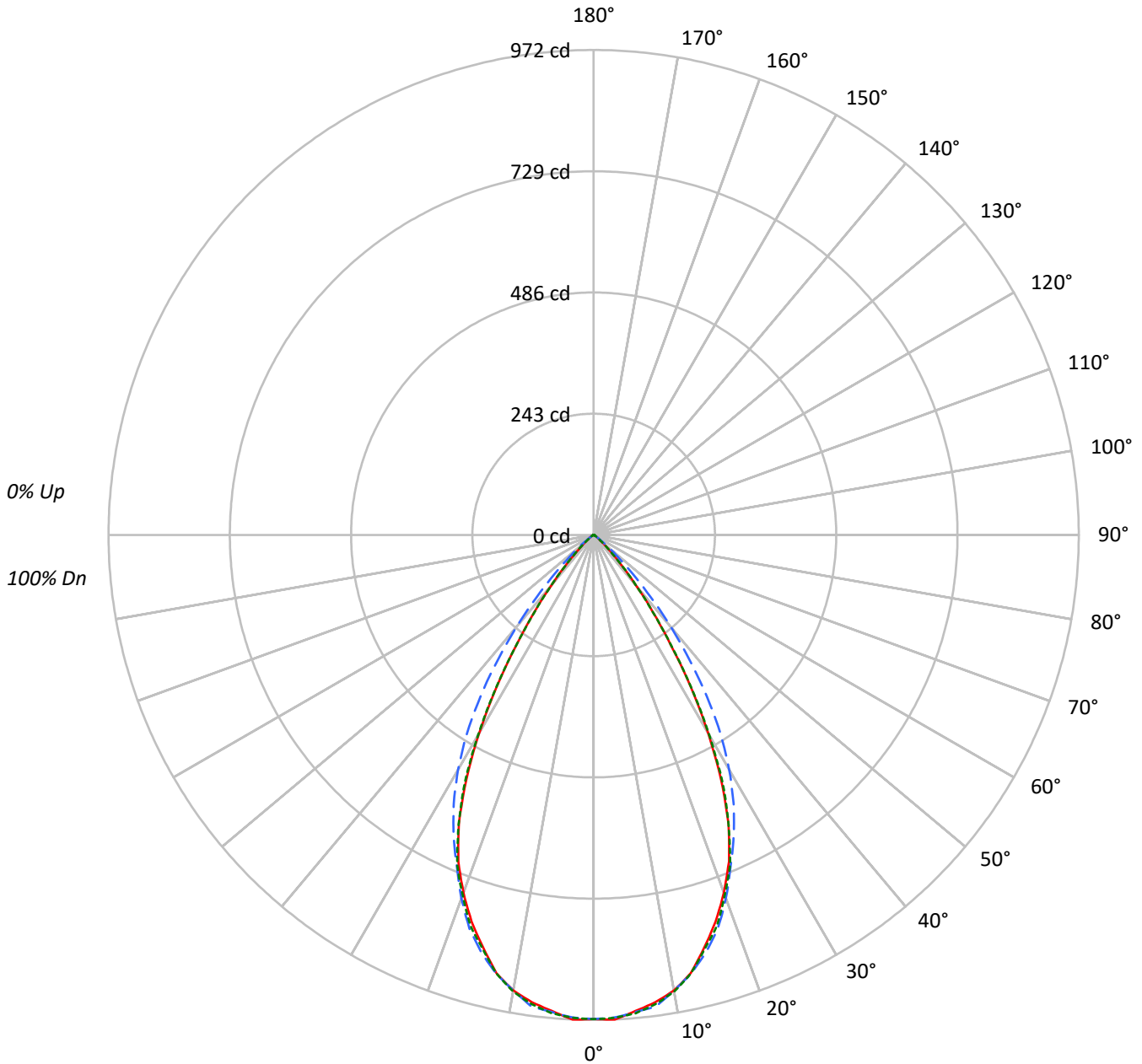
Lumens per Lamp: N/A
Luminaire Lumens: 912.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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: P840503

CATALOG NUMBER: LD6C08D010 EU6089050 6LBSQLI

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°	41786	41786	41786
5°	41392	41496	41599
10°	40533	40533	40638
15°	38160	38651	38298
20°	34941	35500	35193
25°	30362	31549	30390
30°	22830	26996	23049
35°	14176	20798	14239
40°	7458	13545	7425
45°	3087	6777	3166
50°	1186	2539	1186
55°	646	781	601
60°	422	370	422
65°	245	245	245
70°	151	227	151
75°	100	100	100
80°	149	149	149
85°	0	0	0



TEST NUMBER: P840503

CATALOG NUMBER: LD6C08D010 EU6089050 6LBSQLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	10.0
10°-20°	241.7	26.5
20°-30°	296.6	32.5
30°-40°	204.8	22.5
40°-50°	64.0	7.0
50°-60°	10.0	1.1
60°-70°	2.9	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°	629.2	69.0
0°-40°	833.9	91.4
0°-60°	908.0	99.6
0°-90°	912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	958	961	960	960	962	91
15°	856	868	867	866	859	239
25°	639	656	664	660	640	286
35°	270	319	396	322	271	172
45°	51	69	111	69	52	45
55°	9	9	10	9	8	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: P840503

CATALOG NUMBER: LD6C08D010 EU6089050 6LBSQLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5
2.5°	972.3	958.9	967.5	965.6	970.5	973.5	970.5	976.0	972.3	968.1	969.3
5°	957.7	959.5	958.9	960.1	961.3	961.3	967.5	968.1	969.3	960.1	962.5
7.5°	944.8	944.8	947.9	946.6	950.9	949.7	950.3	955.2	955.8	953.4	951.5
10°	927.1	924.6	921.6	921.6	927.1	927.7	932.6	933.2	936.8	927.1	928.3
12.5°	899.6	898.3	893.4	895.9	900.2	897.7	905.7	906.3	905.1	900.8	903.2
15°	856.1	861.0	859.8	859.2	869.0	867.7	867.1	869.0	869.6	867.1	865.3
17.5°	812.7	817.0	817.6	818.8	820.7	822.5	825.0	831.7	829.2	827.4	833.5
20°	762.6	760.7	765.6	770.5	772.3	772.3	776.0	780.9	777.3	774.8	775.4
22.5°	708.2	711.2	708.8	713.6	716.1	719.2	722.8	727.1	724.0	717.3	725.3
25°	639.1	640.9	648.8	648.2	651.9	659.2	664.7	664.7	664.7	664.1	664.1
27.5°	552.2	551.0	560.8	567.5	576.7	588.3	595.6	607.2	609.1	607.2	603.0
30°	459.2	458.0	470.3	478.8	495.3	500.9	521.0	532.0	543.7	543.0	540.0
32.5°	362.6	365.1	374.9	387.1	400.5	417.7	436.6	461.1	471.5	473.9	468.4
35°	269.7	273.3	282.5	292.9	309.4	328.4	354.7	377.9	395.7	395.7	391.4
37.5°	194.5	195.7	204.3	211.0	228.1	245.2	267.9	299.7	310.7	314.9	310.7
40°	132.7	132.7	137.6	144.9	159.0	173.7	194.5	218.3	234.2	241.0	233.6
42.5°	84.4	85.6	89.3	94.2	104.6	117.4	133.3	151.1	162.7	167.5	160.8
45°	50.7	52.0	55.1	58.7	65.4	73.4	84.4	97.2	107.0	111.3	108.2
47.5°	30.6	31.8	33.0	35.5	40.4	45.9	51.4	58.7	64.8	65.4	64.2
50°	17.7	17.7	19.0	20.8	23.2	26.3	29.4	33.6	35.5	37.9	35.5
52.5°	11.6	11.6	11.6	12.2	13.4	14.7	15.9	18.4	19.6	19.6	19.0
55°	8.6	8.6	8.6	8.6	9.2	9.2	9.2	9.8	10.4	10.4	10.4
57.5°	6.1	6.1	6.1	6.7	6.7	6.7	6.1	6.1	6.1	6.1	6.1
60°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.3	4.3	4.3
62.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
65°	2.4	2.4	2.4	3.0	3.0	3.0	3.0	2.4	2.4	2.4	2.4
67.5°	1.8	1.8	1.8	2.4	2.4	2.4	2.4	2.4	1.8	1.8	1.8
70°	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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: P840503

CATALOG NUMBER: LD6C08D010 EU6089050 6LBSQLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5
2.5°	972.9	969.9	969.9	969.9	968.7	969.9	971.7	968.7
5°	962.5	963.8	958.3	962.5	964.4	961.3	968.7	962.5
7.5°	953.4	951.5	943.0	949.1	952.8	954.0	953.4	948.5
10°	935.0	930.8	927.1	927.1	925.8	925.2	932.0	929.5
12.5°	902.0	905.1	899.6	902.6	900.2	900.8	901.4	900.2
15°	873.9	870.8	863.5	868.4	865.3	862.3	868.4	859.2
17.5°	829.8	829.2	825.0	821.9	823.1	822.5	825.6	821.3
20°	777.9	779.1	776.6	775.4	773.6	769.3	773.0	768.1
22.5°	721.6	722.8	725.3	720.4	721.0	714.9	720.4	714.9
25°	664.7	664.1	661.1	658.6	651.9	645.1	643.9	639.7
27.5°	602.4	598.1	590.7	582.8	572.4	563.2	562.6	559.6
30°	533.9	524.7	511.3	498.4	482.5	468.4	468.4	463.6
32.5°	461.7	440.9	422.5	406.7	385.9	377.9	370.0	365.7
35°	375.5	357.1	335.1	308.8	299.0	279.5	280.7	270.9
37.5°	294.1	271.5	250.7	229.3	212.2	203.0	198.1	193.2
40°	218.3	196.3	173.7	159.6	144.3	136.4	133.3	132.1
42.5°	149.2	130.8	116.2	104.6	96.6	88.1	85.6	84.4
45°	97.2	86.8	73.4	64.2	58.7	53.8	53.8	52.0
47.5°	58.1	51.4	44.7	38.5	34.9	31.8	30.6	30.0
50°	32.4	28.7	25.1	22.6	20.2	18.4	17.7	17.7
52.5°	17.7	15.9	14.7	12.8	11.6	11.6	11.6	11.0
55°	9.2	9.2	9.2	9.2	8.6	8.6	8.6	8.0
57.5°	6.1	6.1	6.7	6.7	6.7	6.1	6.1	6.1
60°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
62.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
65°	2.4	3.0	3.0	3.0	3.0	2.4	2.4	2.4
67.5°	1.8	2.4	2.4	2.4	1.8	1.8	1.8	1.8
70°	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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)