

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: P840506

Luminaire Tested: **LD6C08D010 EU6089730 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: P840506
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 EU6089730 6LBSQLI
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 97CRI LEDS AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

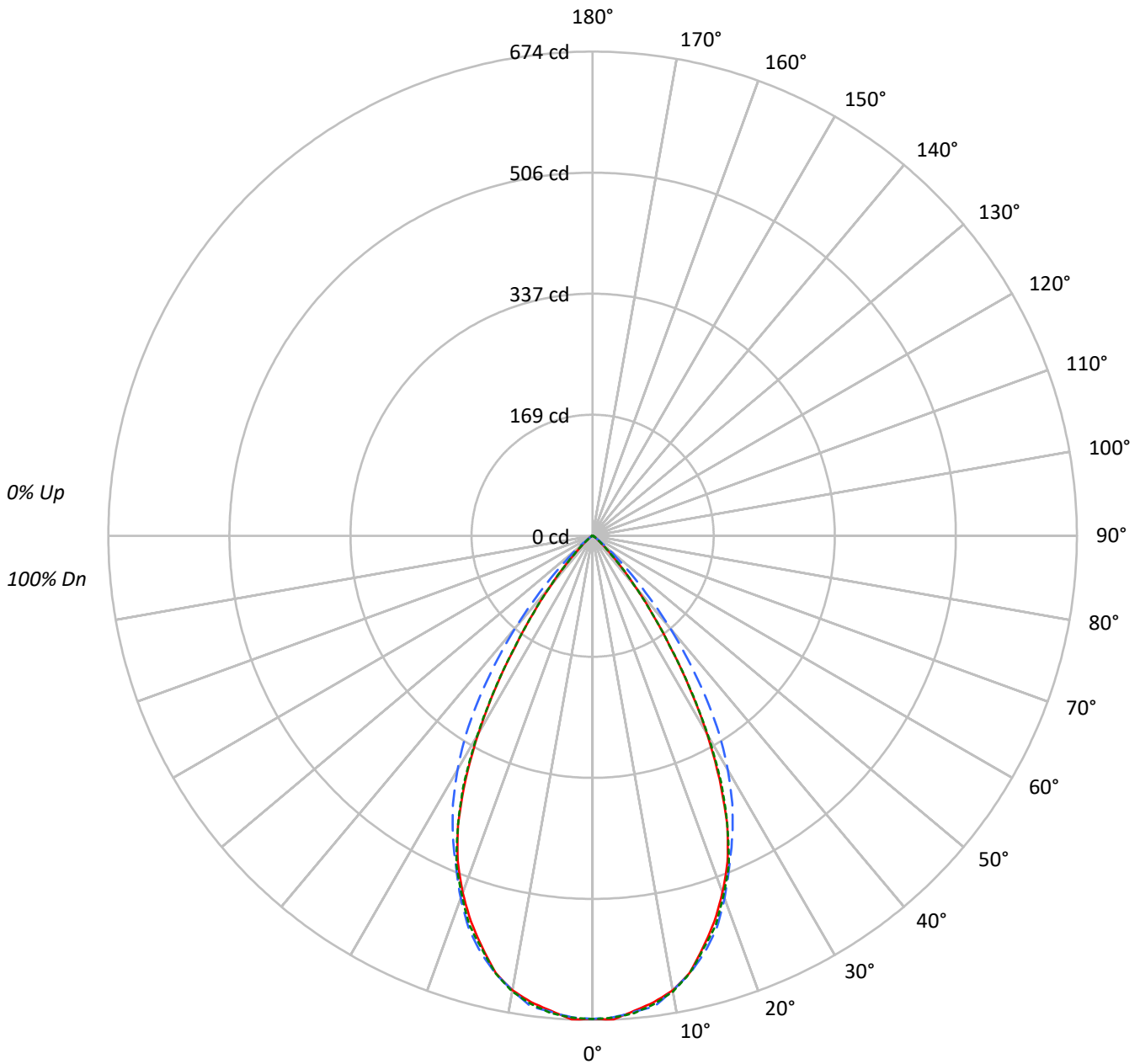
Lumens per Lamp: N/A
Luminaire Lumens: 632.0 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P840506

CATALOG NUMBER: LD6C08D010 EU6089730 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°	28959	28959	28959
5°	28685	28754	28828
10°	28090	28090	28164
15°	26446	26785	26540
20°	24215	24600	24389
25°	21041	21863	21060
30°	15825	18708	15969
35°	9824	14412	9866
40°	5171	9386	5143
45°	2143	4695	2192
50°	824	1762	824
55°	443	540	413
60°	293	258	293
65°	173	173	173
70°	101	164	101
75°	67	67	67
80°	99	99	99
85°	0	0	0



TEST NUMBER: P840506

CATALOG NUMBER: LD6C08D010 EU6089730 6LBSQLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	10.0
10°-20°	167.5	26.5
20°-30°	205.6	32.5
30°-40°	141.9	22.5
40°-50°	44.4	7.0
50°-60°	6.9	1.1
60°-70°	2.0	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°	436.0	69.0
0°-40°	577.9	91.4
0°-60°	629.2	99.6
0°-90°	632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	673	673	673	673	673	
5°	664	666	665	666	667	63
15°	593	602	601	600	595	166
25°	443	454	460	457	443	198
35°	187	221	274	223	188	119
45°	35	48	77	48	36	32
55°	6	6	7	6	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°	672.6	672.6	672.6	672.6	672.6	672.6	672.6	672.6	672.6	672.6	672.6
2.5°	673.8	664.5	670.4	669.2	672.6	674.7	672.6	676.4	673.8	670.9	671.7
5°	663.7	664.9	664.5	665.3	666.2	666.2	670.4	670.9	671.7	665.3	667.0
7.5°	654.8	654.8	656.9	656.0	659.0	658.1	658.6	662.0	662.4	660.7	659.4
10°	642.5	640.8	638.6	638.6	642.5	642.9	646.3	646.7	649.2	642.5	643.3
12.5°	623.4	622.5	619.1	620.8	623.8	622.1	627.6	628.0	627.2	624.2	625.9
15°	593.3	596.7	595.8	595.4	602.2	601.3	600.9	602.2	602.6	600.9	599.7
17.5°	563.2	566.2	566.6	567.4	568.7	570.0	571.7	576.3	574.6	573.4	577.6
20°	528.5	527.2	530.6	534.0	535.2	535.2	537.8	541.2	538.6	536.9	537.4
22.5°	490.7	492.9	491.2	494.6	496.3	498.4	500.9	503.9	501.8	497.1	502.6
25°	442.9	444.1	449.6	449.2	451.8	456.8	460.7	460.7	460.7	460.2	460.2
27.5°	382.7	381.8	388.6	393.3	399.6	407.7	412.8	420.8	422.1	420.8	417.8
30°	318.3	317.4	325.9	331.8	343.3	347.1	361.1	368.7	376.7	376.3	374.2
32.5°	251.3	253.0	259.8	268.3	277.6	289.4	302.6	319.5	326.7	328.4	324.6
35°	186.9	189.4	195.8	203.0	214.4	227.6	245.8	261.9	274.2	274.2	271.2
37.5°	134.8	135.6	141.5	146.2	158.1	169.9	185.6	207.6	215.3	218.2	215.3
40°	92.0	92.0	95.4	100.4	110.2	120.4	134.8	151.3	162.3	167.0	161.9
42.5°	58.5	59.3	61.9	65.3	72.5	81.4	92.4	104.7	112.7	116.1	111.5
45°	35.2	36.0	38.1	40.7	45.3	50.9	58.5	67.4	74.2	77.1	75.0
47.5°	21.2	22.0	22.9	24.6	28.0	31.8	35.6	40.7	44.9	45.3	44.5
50°	12.3	12.3	13.1	14.4	16.1	18.2	20.3	23.3	24.6	26.3	24.6
52.5°	8.0	8.0	8.0	8.5	9.3	10.2	11.0	12.7	13.6	13.6	13.1
55°	5.9	5.9	5.9	5.9	6.3	6.3	6.3	6.8	7.2	7.2	7.2
57.5°	4.2	4.2	4.2	4.7	4.7	4.7	4.2	4.2	4.2	4.2	4.2
60°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.0	3.0	3.0
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°	1.7	1.7	1.7	2.1	2.1	2.1	2.1	1.7	1.7	1.7	1.7
67.5°	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7	1.3	1.3	1.3
70°	0.8	0.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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



TEST NUMBER: P840506

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	672.6	672.6	672.6	672.6	672.6	672.6	672.6	672.6
2.5°	674.2	672.1	672.1	672.1	671.3	672.1	673.4	671.3
5°	667.0	667.9	664.1	667.0	668.3	666.2	671.3	667.0
7.5°	660.7	659.4	653.5	657.7	660.3	661.1	660.7	657.3
10°	648.0	645.0	642.5	642.5	641.6	641.2	645.9	644.2
12.5°	625.1	627.2	623.4	625.5	623.8	624.2	624.7	623.8
15°	605.6	603.5	598.4	601.8	599.7	597.5	601.8	595.4
17.5°	575.1	574.6	571.7	569.6	570.4	570.0	572.1	569.1
20°	539.0	539.9	538.2	537.4	536.1	533.1	535.7	532.3
22.5°	500.1	500.9	502.6	499.2	499.6	495.4	499.2	495.4
25°	460.7	460.2	458.1	456.4	451.8	447.1	446.2	443.3
27.5°	417.4	414.5	409.4	403.9	396.7	390.3	389.9	387.8
30°	370.0	363.6	354.3	345.4	334.4	324.6	324.6	321.2
32.5°	320.0	305.6	292.8	281.8	267.4	261.9	256.4	253.4
35°	260.2	247.5	232.2	214.0	207.2	193.7	194.5	187.7
37.5°	203.8	188.2	173.7	158.9	147.1	140.7	137.3	133.9
40°	151.3	136.0	120.4	110.6	100.0	94.5	92.4	91.5
42.5°	103.4	90.7	80.5	72.5	67.0	61.0	59.3	58.5
45°	67.4	60.2	50.9	44.5	40.7	37.3	37.3	36.0
47.5°	40.3	35.6	30.9	26.7	24.1	22.0	21.2	20.8
50°	22.5	19.9	17.4	15.7	14.0	12.7	12.3	12.3
52.5°	12.3	11.0	10.2	8.9	8.0	8.0	8.0	7.6
55°	6.3	6.3	6.3	6.3	5.9	5.9	5.9	5.5
57.5°	4.2	4.2	4.7	4.7	4.7	4.2	4.2	4.2
60°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
62.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
65°	1.7	2.1	2.1	2.1	2.1	1.7	1.7	1.7
67.5°	1.3	1.7	1.7	1.7	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3	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)