

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: P840565

Luminaire Tested: **LD6C130D010 EU61309027 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: P840565
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: LD6C130D010 EU61309027 6LBSQLI
Description: 6 INCH 13000 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

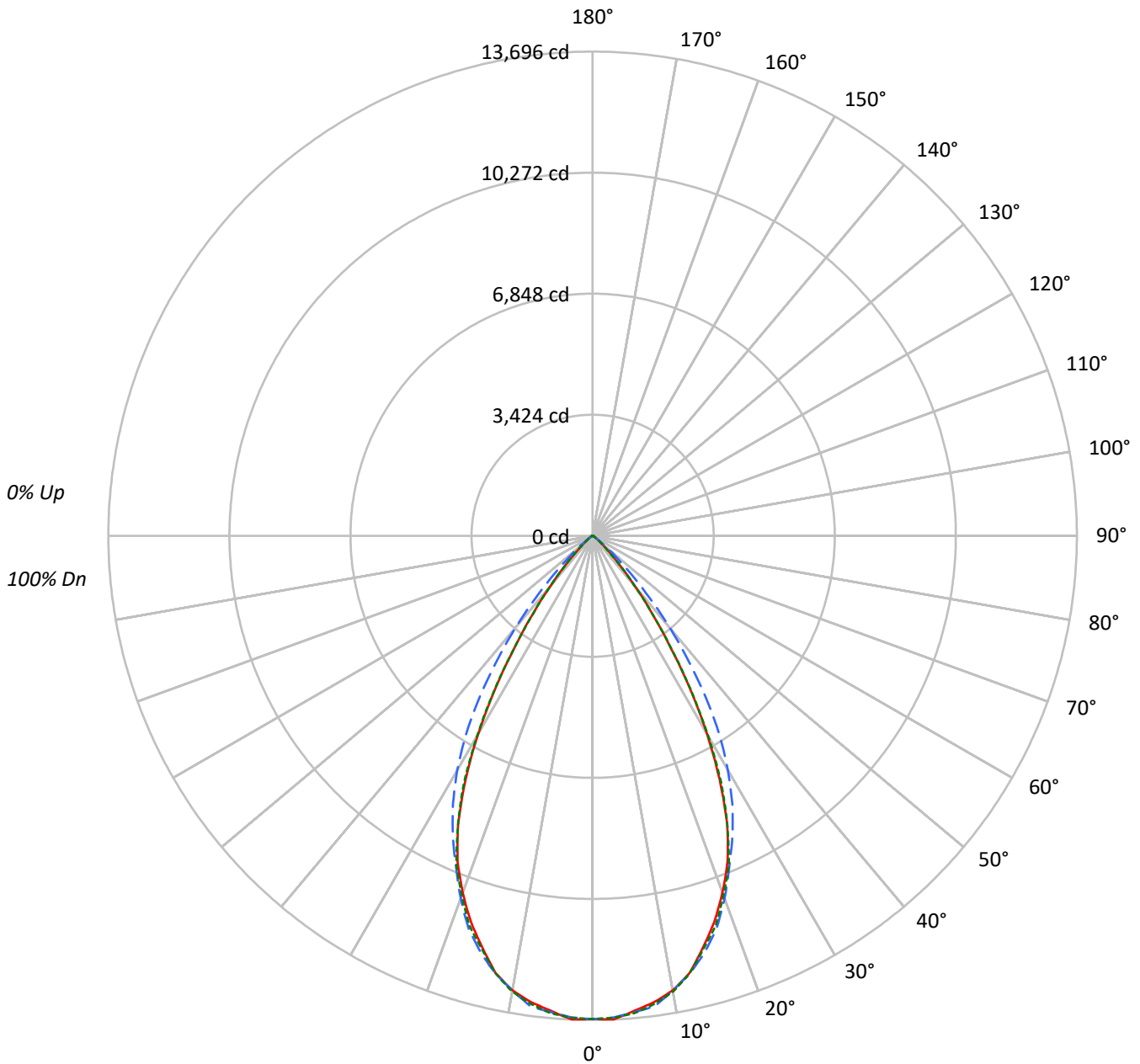
Lumens per Lamp: N/A
Luminaire Lumens: 12846.0 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 144.3
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: P840565

CATALOG NUMBER: LD6C130D010 EU61309027 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	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°	588571	588571	588571
5°	583009	584492	585978
10°	570903	570903	572424
15°	537533	544437	539445
20°	492145	500053	495705
25°	427631	444392	428035
30°	321605	380281	324618
35°	199670	292934	200568
40°	105070	190755	104587
45°	43524	95445	44571
50°	16739	35775	16739
55°	9060	10990	8415
60°	5959	5175	5959
65°	3494	3494	3494
70°	2165	3235	2165
75°	1431	1431	1431
80°	2132	2132	2132
85°	0	0	0



TEST NUMBER: P840565

CATALOG NUMBER: LD6C130D010 EU61309027 6LBSQLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1279.8	10.0
10°-20°	3404.3	26.5
20°-30°	4178.1	32.5
30°-40°	2884.2	22.5
40°-50°	901.8	7.0
50°-60°	140.9	1.1
60°-70°	40.6	0.3
70°-80°	13.3	0.1
80°-90°	3.0	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°	8862.1	69.0
0°-40°	11746.4	91.4
0°-60°	12789.1	99.6
0°-90°	12846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13670	13670	13670	13670	13670	
5°	13489	13541	13524	13528	13558	###
15°	12059	12231	12214	12197	12102	3373
25°	9002	9234	9354	9294	9010	4033
35°	3799	4492	5573	4535	3816	2427
45°	715	978	1568	969	732	640
55°	121	129	146	129	112	117
65°	34	43	34	43	34	38
75°	9	9	9	9	9	12
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P840565

CATALOG NUMBER: LD6C130D010 EU61309027 6LBSQLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	13670.0	13670.0	13670.0	13670.0	13670.0	13670.0	13670.0	13670.0	13670.0	13670.0	13670.0
2.5°	13695.8	13506.5	13627.1	13600.9	13670.0	13712.9	13670.0	13747.3	13695.8	13635.7	13652.9
5°	13489.3	13515.1	13506.5	13523.6	13540.8	13540.8	13627.1	13635.7	13652.9	13523.6	13558.0
7.5°	13308.1	13308.1	13351.5	13333.8	13394.4	13377.2	13385.8	13454.5	13463.0	13428.7	13403.0
10°	13058.2	13023.9	12981.0	12981.0	13058.2	13066.8	13135.9	13144.5	13196.0	13058.2	13075.9
12.5°	12671.0	12653.3	12584.7	12619.0	12679.6	12644.7	12756.8	12765.4	12748.2	12688.2	12722.5
15°	12059.2	12128.3	12110.6	12102.1	12239.9	12222.7	12214.1	12239.9	12248.4	12214.1	12188.4
17.5°	11447.8	11507.9	11516.5	11533.6	11559.4	11585.6	11620.0	11714.9	11680.0	11654.3	11740.6
20°	10741.1	10715.3	10784.5	10853.1	10878.9	10878.9	10930.9	10999.5	10948.0	10913.7	10922.3
22.5°	9974.8	10017.7	9983.3	10052.0	10086.8	10129.7	10181.2	10241.8	10198.4	10104.0	10216.1
25°	9001.5	9027.2	9139.3	9130.7	9182.2	9285.7	9362.9	9362.9	9362.9	9354.3	9354.3
27.5°	7778.3	7761.1	7898.9	7993.3	8122.6	8286.6	8389.6	8553.2	8579.4	8553.2	8493.1
30°	6468.8	6451.6	6623.7	6744.4	6977.1	7054.9	7339.1	7494.1	7657.6	7649.0	7606.1
32.5°	5107.8	5142.6	5280.4	5452.6	5641.9	5883.2	6150.2	6494.5	6641.4	6675.8	6598.0
35°	3798.8	3850.3	3979.5	4125.9	4358.6	4625.7	4995.7	5323.3	5573.2	5573.2	5512.6
37.5°	2739.2	2756.3	2877.0	2971.9	3212.7	3454.0	3773.0	4220.8	4375.8	4435.8	4375.8
40°	1869.4	1869.4	1938.0	2041.5	2239.4	2446.4	2739.2	3074.8	3299.0	3393.9	3290.4
42.5°	1188.9	1206.0	1257.5	1326.7	1473.1	1653.8	1877.9	2127.8	2291.4	2360.0	2265.6
45°	714.8	732.0	775.4	826.9	921.8	1033.9	1188.9	1369.6	1507.4	1567.5	1524.6
47.5°	430.6	447.8	464.9	499.8	568.4	646.2	723.4	826.9	913.2	921.8	904.7
50°	249.9	249.9	267.1	292.8	327.1	370.5	413.4	473.5	499.8	534.1	499.8
52.5°	163.6	163.6	163.6	172.1	189.3	207.0	224.2	258.5	275.6	275.6	267.1
55°	120.7	120.7	120.7	120.7	129.2	129.2	129.2	137.8	146.4	146.4	146.4
57.5°	86.3	86.3	86.3	94.9	94.9	94.9	86.3	86.3	86.3	86.3	86.3
60°	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	60.1	60.1	60.1
62.5°	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
65°	34.3	34.3	34.3	42.9	42.9	42.9	42.9	34.3	34.3	34.3	34.3
67.5°	25.7	25.7	25.7	34.3	34.3	34.3	34.3	34.3	25.7	25.7	25.7
70°	17.2	17.2	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
72.5°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
75°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
77.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
80°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
82.5°	0.0	0.0	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
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: P840565

CATALOG NUMBER: LD6C130D010 EU61309027 6LBSQLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	13670.0	13670.0	13670.0	13670.0	13670.0	13670.0	13670.0	13670.0
2.5°	13704.4	13661.5	13661.5	13661.5	13644.3	13661.5	13687.2	13644.3
5°	13558.0	13575.1	13497.9	13558.0	13583.7	13540.8	13644.3	13558.0
7.5°	13428.7	13403.0	13282.3	13368.7	13420.1	13437.3	13428.7	13360.1
10°	13170.3	13110.2	13058.2	13058.2	13041.0	13032.4	13127.4	13093.0
12.5°	12705.3	12748.2	12671.0	12713.9	12679.6	12688.2	12696.7	12679.6
15°	12309.0	12266.1	12162.6	12231.3	12188.4	12145.5	12231.3	12102.1
17.5°	11688.6	11680.0	11620.0	11577.1	11594.2	11585.6	11628.5	11568.5
20°	10956.6	10973.8	10939.5	10922.3	10896.6	10836.0	10888.0	10818.8
22.5°	10164.0	10181.2	10216.1	10146.9	10155.5	10069.7	10146.9	10069.7
25°	9362.9	9354.3	9311.4	9277.1	9182.2	9087.3	9070.1	9010.0
27.5°	8484.5	8424.5	8321.0	8208.9	8062.5	7933.3	7924.7	7881.8
30°	7519.8	7390.6	7201.3	7020.0	6796.4	6598.0	6598.0	6529.4
32.5°	6503.6	6210.3	5951.8	5728.2	5435.4	5323.3	5211.3	5151.2
35°	5289.0	5030.5	4720.1	4350.0	4212.2	3936.6	3953.8	3815.9
37.5°	4143.1	3824.5	3531.7	3230.4	2989.0	2859.8	2790.6	2722.0
40°	3074.8	2764.9	2446.4	2248.0	2032.9	1920.8	1877.9	1860.8
42.5°	2101.6	1843.1	1636.6	1473.1	1361.0	1240.3	1206.0	1188.9
45°	1369.6	1223.2	1033.9	904.7	826.9	758.3	758.3	732.0
47.5°	818.3	723.4	629.0	542.7	491.2	447.8	430.6	422.0
50°	456.3	404.9	353.4	318.5	284.2	258.5	249.9	249.9
52.5°	249.9	224.2	207.0	180.7	163.6	163.6	163.6	155.0
55°	129.2	129.2	129.2	129.2	120.7	120.7	120.7	112.1
57.5°	86.3	86.3	94.9	94.9	94.9	86.3	86.3	86.3
60°	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
62.5°	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
65°	34.3	42.9	42.9	42.9	42.9	34.3	34.3	34.3
67.5°	25.7	34.3	34.3	34.3	25.7	25.7	25.7	25.7
70°	25.7	25.7	25.7	25.7	25.7	17.2	17.2	17.2
72.5°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
75°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
77.5°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
80°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
82.5°	8.6	8.6	8.6	8.6	8.6	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)