

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: P840574

Luminaire Tested: **LD6C130D010 EU61309040 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: P840574
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 EU61309040 6LBSQLI
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

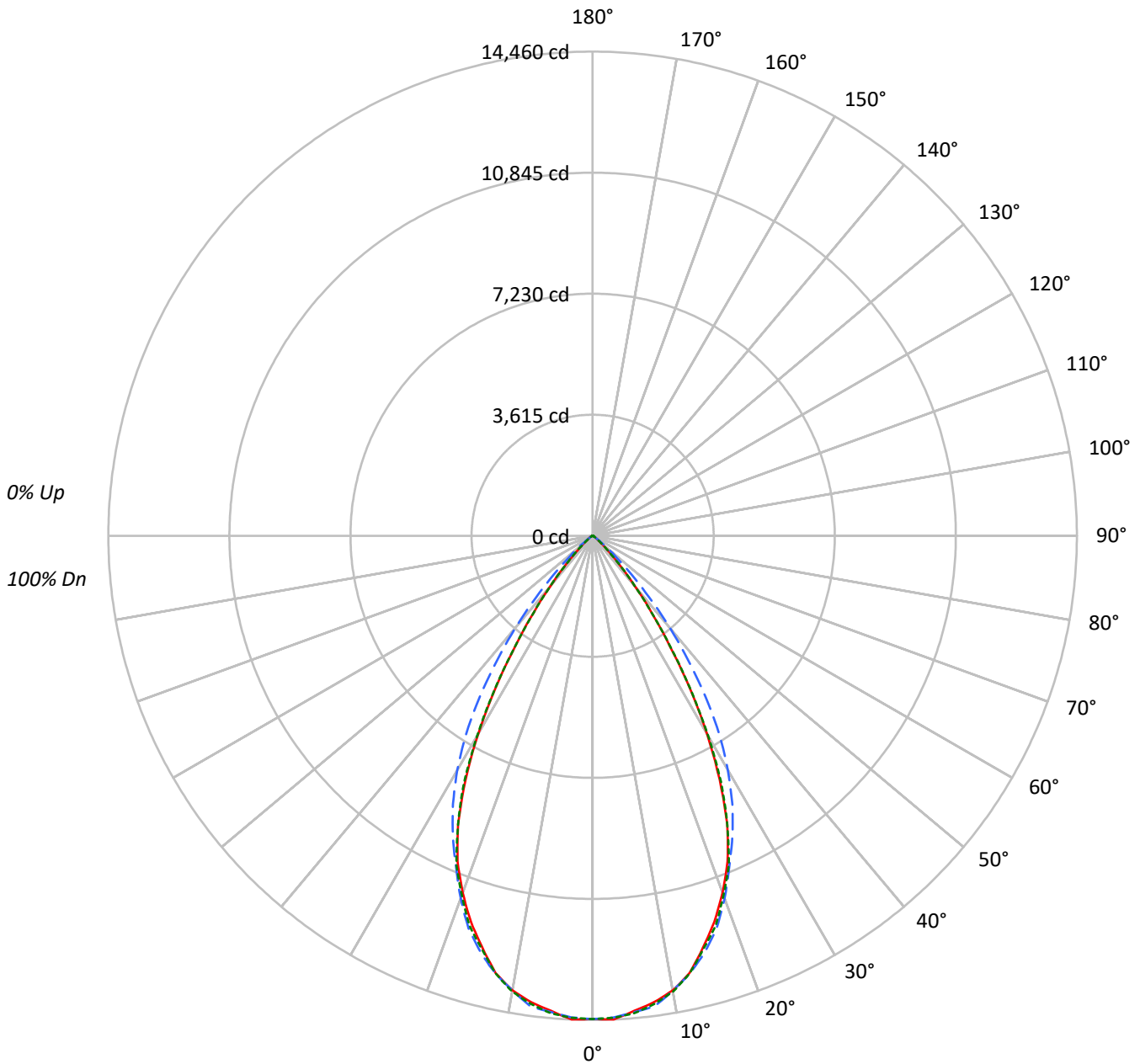
Lumens per Lamp: N/A
Luminaire Lumens: 13563.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 144.3
Input Voltage (V):
Input Current (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: P840574

CATALOG NUMBER: LD6C130D010 EU61309040 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°	621422	621422	621422
5°	615550	617119	618683
10°	602766	602766	604375
15°	567531	574828	569551
20°	519614	527966	523375
25°	451499	469195	451926
30°	339553	401510	342735
35°	210813	309286	211764
40°	110932	201400	110421
45°	45954	100767	47056
50°	17670	37772	17670
55°	9563	11605	8880
60°	6286	5459	6286
65°	3688	3688	3688
70°	2279	3424	2279
75°	1514	1514	1514
80°	2256	2256	2256
85°	0	0	0



TEST NUMBER: P840574

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1351.2	10.0
10°-20°	3594.3	26.5
20°-30°	4411.3	32.5
30°-40°	3045.2	22.5
40°-50°	952.1	7.0
50°-60°	148.8	1.1
60°-70°	42.9	0.3
70°-80°	14.1	0.1
80°-90°	3.2	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°	9356.8	69.0
0°-40°	12402.0	91.4
0°-60°	13502.9	99.6
0°-90°	13563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14433	14433	14433	14433	14433	
5°	14242	14297	14278	14283	14315	###
15°	12732	12914	12896	12878	12778	3561
25°	9504	9749	9876	9813	9513	4258
35°	4011	4743	5884	4788	4029	2562
45°	755	1032	1655	1023	773	676
55°	127	136	155	136	118	124
65°	36	45	36	45	36	40
75°	9	9	9	9	9	13
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P840574

CATALOG NUMBER: LD6C130D010 EU61309040 6LBSQLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	14433.0	14433.0	14433.0	14433.0	14433.0	14433.0	14433.0	14433.0	14433.0	14433.0	14433.0
2.5°	14460.2	14260.3	14387.7	14360.0	14433.0	14478.3	14433.0	14514.6	14460.2	14396.8	14414.9
5°	14242.2	14269.4	14260.3	14278.5	14296.6	14296.6	14387.7	14396.8	14414.9	14278.5	14314.7
7.5°	14050.9	14050.9	14096.7	14078.0	14142.0	14123.9	14133.0	14205.4	14214.5	14178.3	14151.1
10°	13787.0	13750.8	13705.5	13705.5	13787.0	13796.1	13869.1	13878.2	13932.5	13787.0	13805.7
12.5°	13378.2	13359.6	13287.1	13323.3	13387.3	13350.5	13468.8	13477.9	13459.8	13396.4	13432.6
15°	12732.2	12805.3	12786.6	12777.5	12923.0	12904.9	12895.9	12923.0	12932.1	12895.9	12868.7
17.5°	12086.8	12150.2	12159.3	12177.4	12204.6	12232.3	12268.5	12368.7	12331.9	12304.8	12395.9
20°	11340.6	11313.4	11386.4	11458.9	11486.1	11486.1	11541.0	11613.5	11559.1	11522.9	11531.9
22.5°	10531.5	10576.8	10540.6	10613.0	10649.8	10695.1	10749.5	10813.5	10767.6	10667.9	10786.3
25°	9503.9	9531.1	9649.4	9640.3	9694.7	9804.0	9885.5	9885.5	9885.5	9876.4	9876.4
27.5°	8212.4	8194.3	8339.8	8439.5	8575.9	8749.2	8857.9	9030.6	9058.3	9030.6	8967.1
30°	6829.8	6811.7	6993.4	7120.8	7366.6	7448.7	7748.7	7912.4	8085.0	8076.0	8030.7
32.5°	5392.9	5429.7	5575.2	5756.9	5956.8	6211.5	6493.5	6857.0	7012.1	7048.4	6966.3
35°	4010.8	4065.2	4201.6	4356.2	4601.9	4883.9	5274.5	5620.5	5884.3	5884.3	5820.3
37.5°	2892.0	2910.2	3037.6	3137.8	3392.0	3646.8	3983.6	4456.4	4620.0	4683.4	4620.0
40°	1973.7	1973.7	2046.2	2155.4	2364.4	2582.9	2892.0	3246.5	3483.1	3583.3	3474.1
42.5°	1255.2	1273.3	1327.7	1400.7	1555.3	1746.1	1982.8	2246.6	2419.3	2491.8	2392.1
45°	754.7	772.8	818.7	873.0	973.3	1091.6	1255.2	1446.0	1591.5	1654.9	1609.6
47.5°	454.6	472.8	490.9	527.7	600.1	682.2	763.8	873.0	964.2	973.3	955.1
50°	263.8	263.8	282.0	309.1	345.4	391.2	436.5	499.9	527.7	563.9	527.7
52.5°	172.7	172.7	172.7	181.7	199.9	218.5	236.7	272.9	291.0	291.0	282.0
55°	127.4	127.4	127.4	127.4	136.4	136.4	136.4	145.5	154.6	154.6	154.6
57.5°	91.2	91.2	91.2	100.2	100.2	100.2	91.2	91.2	91.2	91.2	91.2
60°	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	63.4	63.4	63.4
62.5°	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
65°	36.2	36.2	36.2	45.3	45.3	45.3	45.3	36.2	36.2	36.2	36.2
67.5°	27.2	27.2	27.2	36.2	36.2	36.2	36.2	36.2	27.2	27.2	27.2
70°	18.1	18.1	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
72.5°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
75°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
77.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
80°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
82.5°	0.0	0.0	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
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: P840574

CATALOG NUMBER: LD6C130D010 EU61309040 6LBSQLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	14433.0	14433.0	14433.0	14433.0	14433.0	14433.0	14433.0	14433.0
2.5°	14469.3	14424.0	14424.0	14424.0	14405.9	14424.0	14451.2	14405.9
5°	14314.7	14332.8	14251.3	14314.7	14341.9	14296.6	14405.9	14314.7
7.5°	14178.3	14151.1	14023.7	14114.8	14169.2	14187.3	14178.3	14105.8
10°	13905.4	13841.9	13787.0	13787.0	13768.9	13759.8	13860.1	13823.8
12.5°	13414.5	13459.8	13378.2	13423.5	13387.3	13396.4	13405.4	13387.3
15°	12996.1	12950.8	12841.5	12914.0	12868.7	12823.4	12914.0	12777.5
17.5°	12341.0	12331.9	12268.5	12223.2	12241.4	12232.3	12277.6	12214.2
20°	11568.2	11586.3	11550.1	11531.9	11504.8	11440.8	11495.7	11422.7
22.5°	10731.4	10749.5	10786.3	10713.2	10722.3	10631.7	10713.2	10631.7
25°	9885.5	9876.4	9831.1	9794.9	9694.7	9594.5	9576.4	9512.9
27.5°	8958.1	8894.7	8785.4	8667.1	8512.5	8376.1	8367.0	8321.7
30°	7939.5	7803.1	7603.2	7411.8	7175.8	6966.3	6966.3	6893.8
32.5°	6866.6	6556.9	6284.0	6047.9	5738.8	5620.5	5502.1	5438.7
35°	5584.2	5311.3	4983.5	4592.8	4447.3	4156.3	4174.4	4028.9
37.5°	4374.3	4038.0	3728.9	3410.7	3155.9	3019.4	2946.4	2873.9
40°	3246.5	2919.2	2582.9	2373.4	2146.4	2028.1	1982.8	1964.6
42.5°	2218.9	1946.0	1728.0	1555.3	1437.0	1309.6	1273.3	1255.2
45°	1446.0	1291.5	1091.6	955.1	873.0	800.6	800.6	772.8
47.5°	864.0	763.8	664.1	573.0	518.6	472.8	454.6	445.6
50°	481.8	427.5	373.1	336.3	300.1	272.9	263.8	263.8
52.5°	263.8	236.7	218.5	190.8	172.7	172.7	172.7	163.6
55°	136.4	136.4	136.4	136.4	127.4	127.4	127.4	118.3
57.5°	91.2	91.2	100.2	100.2	100.2	91.2	91.2	91.2
60°	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
62.5°	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
65°	36.2	45.3	45.3	45.3	45.3	36.2	36.2	36.2
67.5°	27.2	36.2	36.2	36.2	27.2	27.2	27.2	27.2
70°	27.2	27.2	27.2	27.2	27.2	18.1	18.1	18.1
72.5°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
75°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
77.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
80°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
82.5°	9.1	9.1	9.1	9.1	9.1	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)