

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: P#

Luminaire Tested: **LX6C120D010 EX6C1209027 6LBSQLI**

Issue Date: 3/23/2022



Test Information

Test Method: LM-79-08
Report Number: P#
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: LX6C120D010 EX6C1209027 6LBSQLI
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

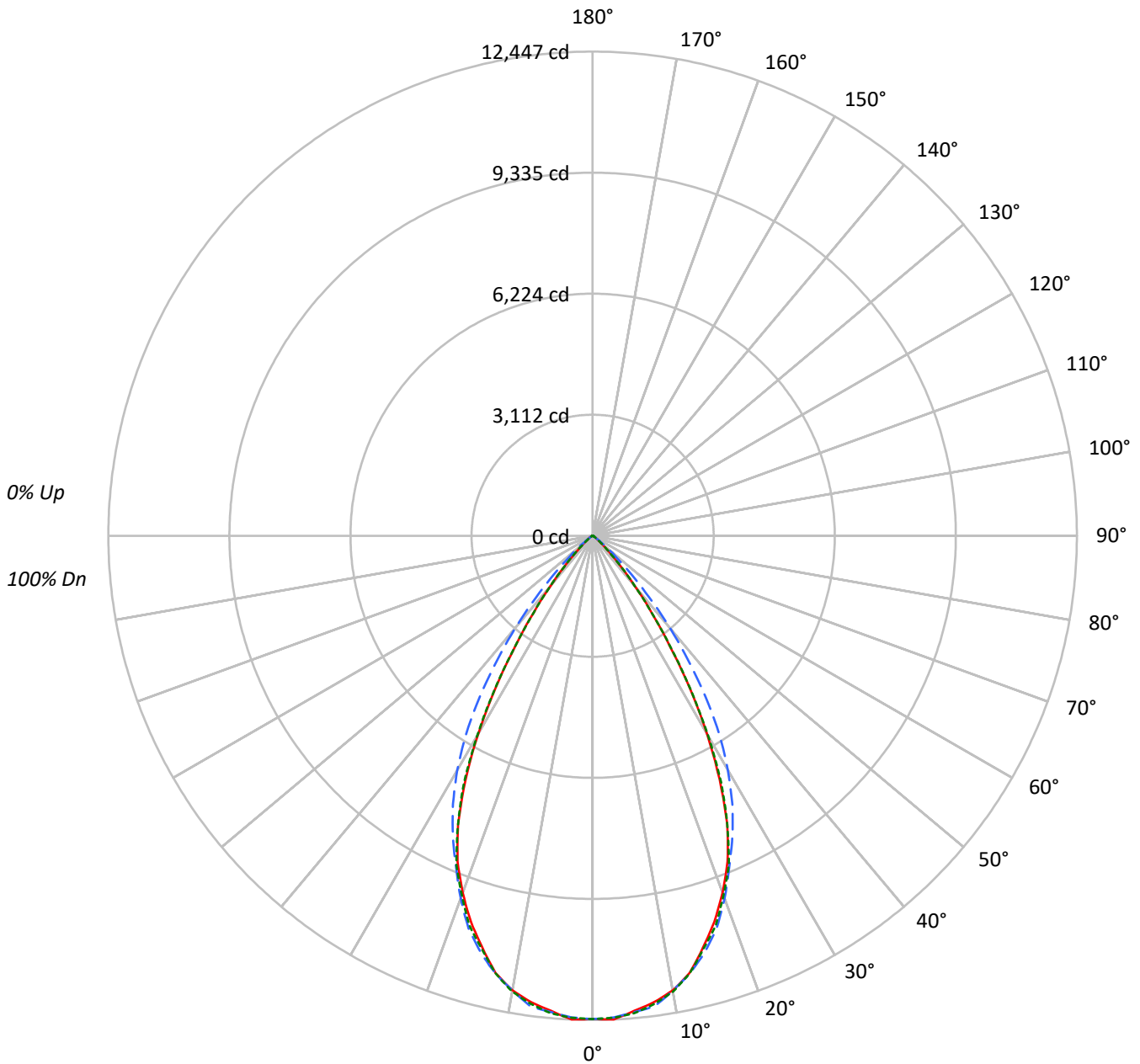
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11675.0 lumens
Efficiency: N/A
Efficacy: 82.0 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): 142.3
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

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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°	534919	534919	534919
5°	529866	531214	532563
10°	518859	518859	520245
15°	488532	494808	490270
20°	447279	454473	450519
25°	388647	403883	389018
30°	292288	345618	295027
35°	181468	266233	182288
40°	95493	173365	95054
45°	39560	86744	40510
50°	15212	32513	15212
55°	8235	9991	7649
60°	5416	4702	5416
65°	3179	3179	3179
70°	1964	2946	1964
75°	1298	1298	1298
80°	1934	1934	1934
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1163.1	10.0
10°-20°	3094.0	26.5
20°-30°	3797.2	32.5
30°-40°	2621.3	22.5
40°-50°	819.6	7.0
50°-60°	128.1	1.1
60°-70°	37.0	0.3
70°-80°	12.1	0.1
80°-90°	2.7	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°	8054.3	69.0
0°-40°	10675.6	91.4
0°-60°	11623.3	99.6
0°-90°	11675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12424	12424	12424	12424	12424	
5°	12260	12306	12291	12295	12322	###
15°	10960	11116	11101	11085	10999	3065
25°	8181	8392	8502	8447	8189	3666
35°	3452	4083	5065	4122	3468	2205
45°	650	889	1425	881	665	582
55°	110	118	133	118	102	107
65°	31	39	31	39	31	35
75°	8	8	8	8	8	11
85°	0	0	0	0	0	1
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°	12423.9	12423.9	12423.9	12423.9	12423.9	12423.9	12423.9	12423.9	12423.9	12423.9	12423.9
2.5°	12447.3	12275.3	12384.9	12361.1	12423.9	12462.9	12423.9	12494.1	12447.3	12392.7	12408.3
5°	12259.7	12283.1	12275.3	12290.9	12306.5	12306.5	12384.9	12392.7	12408.3	12290.9	12322.1
7.5°	12095.0	12095.0	12134.4	12118.3	12173.4	12157.8	12165.6	12228.0	12235.8	12204.6	12181.2
10°	11867.8	11836.6	11797.7	11797.7	11867.8	11875.6	11938.5	11946.3	11993.1	11867.8	11883.9
12.5°	11516.0	11499.9	11437.5	11468.7	11523.8	11492.1	11593.9	11601.7	11586.1	11531.6	11562.7
15°	10959.9	11022.7	11006.7	10998.9	11124.1	11108.5	11100.7	11124.1	11131.9	11100.7	11077.3
17.5°	10404.3	10458.9	10466.7	10482.3	10505.7	10529.5	10560.7	10647.0	10615.3	10591.9	10670.4
20°	9761.9	9738.5	9801.4	9863.8	9887.2	9887.2	9934.5	9996.8	9950.1	9918.9	9926.7
22.5°	9065.5	9104.5	9073.3	9135.7	9167.3	9206.3	9253.1	9308.2	9268.7	9182.9	9284.8
25°	8180.9	8204.3	8306.2	8298.4	8345.2	8439.2	8509.4	8509.4	8509.4	8501.6	8501.6
27.5°	7069.2	7053.6	7178.9	7264.7	7382.1	7531.3	7624.8	7773.5	7797.4	7773.5	7718.9
30°	5879.1	5863.5	6019.9	6129.6	6341.1	6411.8	6670.1	6810.9	6959.6	6951.8	6912.8
32.5°	4642.2	4673.8	4799.1	4955.5	5127.6	5346.9	5589.6	5902.5	6036.0	6067.2	5996.5
35°	3452.5	3499.3	3616.7	3749.8	3961.3	4204.0	4540.3	4838.1	5065.2	5065.2	5010.1
37.5°	2489.5	2505.1	2614.7	2701.0	2919.8	3139.1	3429.1	3836.1	3976.9	4031.5	3976.9
40°	1699.0	1699.0	1761.3	1855.4	2035.2	2223.4	2489.5	2794.6	2998.3	3084.5	2990.5
42.5°	1080.5	1096.1	1142.9	1205.7	1338.8	1503.0	1706.8	1933.9	2082.5	2144.9	2059.1
45°	649.7	665.3	704.7	751.5	837.8	939.6	1080.5	1244.7	1370.0	1424.6	1385.6
47.5°	391.4	407.0	422.5	454.2	516.6	587.3	657.5	751.5	830.0	837.8	822.2
50°	227.1	227.1	242.7	266.1	297.3	336.8	375.8	430.3	454.2	485.4	454.2
52.5°	148.6	148.6	148.6	156.4	172.0	188.1	203.7	234.9	250.5	250.5	242.7
55°	109.7	109.7	109.7	109.7	117.5	117.5	117.5	125.3	133.1	133.1	133.1
57.5°	78.5	78.5	78.5	86.3	86.3	86.3	78.5	78.5	78.5	78.5	78.5
60°	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	54.6	54.6	54.6
62.5°	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
65°	31.2	31.2	31.2	39.0	39.0	39.0	39.0	31.2	31.2	31.2	31.2
67.5°	23.4	23.4	23.4	31.2	31.2	31.2	31.2	31.2	23.4	23.4	23.4
70°	15.6	15.6	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
72.5°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
75°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
80°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
82.5°	0.0	0.0	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	12423.9	12423.9	12423.9	12423.9	12423.9	12423.9	12423.9	12423.9
2.5°	12455.1	12416.1	12416.1	12416.1	12400.5	12416.1	12439.5	12400.5
5°	12322.1	12337.7	12267.5	12322.1	12345.5	12306.5	12400.5	12322.1
7.5°	12204.6	12181.2	12071.6	12150.0	12196.8	12212.4	12204.6	12142.2
10°	11969.7	11915.1	11867.8	11867.8	11852.2	11844.4	11930.7	11899.5
12.5°	11547.2	11586.1	11516.0	11555.0	11523.8	11531.6	11539.4	11523.8
15°	11187.0	11148.0	11053.9	11116.3	11077.3	11038.3	11116.3	10998.9
17.5°	10623.1	10615.3	10560.7	10521.7	10537.3	10529.5	10568.5	10513.9
20°	9957.9	9973.4	9942.3	9926.7	9903.3	9848.2	9895.5	9832.6
22.5°	9237.5	9253.1	9284.8	9221.9	9229.7	9151.8	9221.9	9151.8
25°	8509.4	8501.6	8462.6	8431.4	8345.2	8258.9	8243.3	8188.7
27.5°	7711.1	7656.5	7562.5	7460.6	7327.5	7210.1	7202.3	7163.3
30°	6834.3	6716.9	6544.8	6380.1	6176.9	5996.5	5996.5	5934.2
32.5°	5910.8	5644.2	5409.3	5206.0	4939.9	4838.1	4736.2	4681.6
35°	4806.9	4572.0	4289.8	3953.5	3828.3	3577.8	3593.3	3468.1
37.5°	3765.4	3475.9	3209.8	2935.9	2716.6	2599.1	2536.3	2473.9
40°	2794.6	2512.9	2223.4	2043.0	1847.6	1745.7	1706.8	1691.2
42.5°	1910.0	1675.1	1487.4	1338.8	1236.9	1127.3	1096.1	1080.5
45°	1244.7	1111.7	939.6	822.2	751.5	689.1	689.1	665.3
47.5°	743.7	657.5	571.7	493.2	446.4	407.0	391.4	383.6
50°	414.7	368.0	321.2	289.5	258.3	234.9	227.1	227.1
52.5°	227.1	203.7	188.1	164.2	148.6	148.6	148.6	140.8
55°	117.5	117.5	117.5	117.5	109.7	109.7	109.7	101.9
57.5°	78.5	78.5	86.3	86.3	86.3	78.5	78.5	78.5
60°	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
62.5°	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
65°	31.2	39.0	39.0	39.0	39.0	31.2	31.2	31.2
67.5°	23.4	31.2	31.2	31.2	23.4	23.4	23.4	23.4
70°	23.4	23.4	23.4	23.4	23.4	15.6	15.6	15.6
72.5°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
75°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
77.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
80°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
82.5°	7.8	7.8	7.8	7.8	7.8	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)