

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 EX6C1209040 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 EX6C1209040 6LBSQLI
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

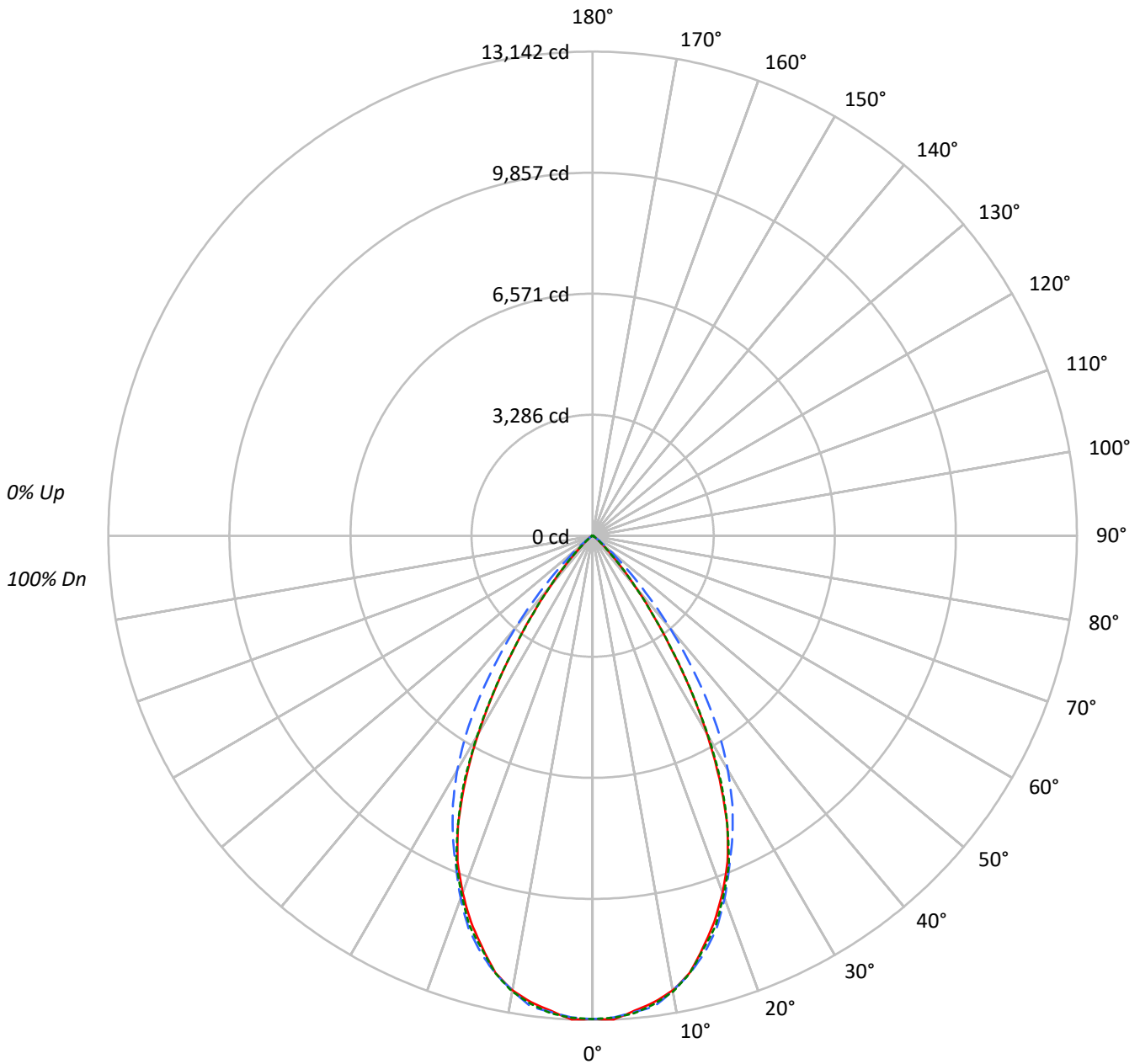
Lumens per Lamp: N/A
Luminaire Lumens: 12327.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93					93			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87					87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80					80			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75					75			
5	92	83	78	73	90	82	77	73	81	76	72	79	75	72	77	74	71	69					69			
6	87	78	72	68	86	77	72	67	76	71	67	74	70	67	73	69	66	65					65			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60					60			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56					56			
9	75	65	59	55	74	64	59	55	64	58	55	63	58	54	62	57	54	53					53			
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50					50			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	564791	564791	564791
5°	559454	560881	562302
10°	547836	547836	549301
15°	515812	522444	517648
20°	472260	479852	475678
25°	410353	426439	410743
30°	308610	364918	311503
35°	191602	281103	192469
40°	100821	183049	100360
45°	41764	91584	42769
50°	16062	34329	16062
55°	8693	10547	8070
60°	5718	4960	5718
65°	3352	3352	3352
70°	2077	3109	2077
75°	1364	1364	1364
80°	2033	2033	2033
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1228.1	10.0
10°-20°	3266.8	26.5
20°-30°	4009.3	32.5
30°-40°	2767.7	22.5
40°-50°	865.3	7.0
50°-60°	135.2	1.1
60°-70°	39.0	0.3
70°-80°	12.7	0.1
80°-90°	2.8	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°	8504.1	69.0
0°-40°	11271.8	91.4
0°-60°	12272.4	99.6
0°-90°	12327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13118	13118	13118	13118	13118	
5°	12944	12994	12977	12981	13010	###
15°	11572	11737	11721	11704	11613	3237
25°	8638	8861	8976	8919	8646	3870
35°	3645	4311	5348	4352	3662	2329
45°	686	938	1504	930	702	614
55°	116	124	140	124	108	113
65°	33	41	33	41	33	37
75°	8	8	8	8	8	12
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°	13117.7	13117.7	13117.7	13117.7	13117.7	13117.7	13117.7	13117.7	13117.7	13117.7	13117.7
2.5°	13142.4	12960.8	13076.6	13051.4	13117.7	13158.9	13117.7	13191.8	13142.4	13084.8	13101.3
5°	12944.3	12969.0	12960.8	12977.3	12993.7	12993.7	13076.6	13084.8	13101.3	12977.3	13010.2
7.5°	12770.4	12770.4	12812.1	12795.1	12853.3	12836.8	12845.0	12910.9	12919.1	12886.2	12861.5
10°	12530.6	12497.7	12456.5	12456.5	12530.6	12538.8	12605.2	12613.5	12662.9	12530.6	12547.6
12.5°	12159.1	12142.1	12076.2	12109.2	12167.3	12133.9	12241.4	12249.6	12233.2	12175.5	12208.5
15°	11571.9	11638.3	11621.3	11613.1	11745.4	11728.9	11720.7	11745.4	11753.6	11720.7	11696.0
17.5°	10985.3	11042.9	11051.2	11067.6	11092.3	11117.6	11150.5	11241.6	11208.1	11183.4	11266.3
20°	10307.1	10282.4	10348.8	10414.6	10439.3	10439.3	10489.3	10555.1	10505.7	10472.8	10481.0
22.5°	9571.8	9612.9	9580.0	9645.9	9679.3	9720.5	9769.9	9828.0	9786.3	9695.8	9803.3
25°	8637.8	8662.5	8770.0	8761.8	8811.2	8910.5	8984.6	8984.6	8984.6	8976.4	8976.4
27.5°	7464.0	7447.6	7579.8	7670.4	7794.4	7951.8	8050.6	8207.6	8232.8	8207.6	8150.0
30°	6207.4	6190.9	6356.1	6471.9	6695.2	6769.9	7042.6	7191.3	7348.2	7340.0	7298.8
32.5°	4901.4	4934.9	5067.1	5232.3	5413.9	5645.5	5901.8	6232.1	6373.1	6406.0	6331.4
35°	3645.3	3694.7	3818.7	3959.2	4182.5	4438.8	4793.9	5108.3	5348.1	5348.1	5289.9
37.5°	2628.5	2645.0	2760.7	2851.8	3082.9	3314.4	3620.6	4050.3	4199.0	4256.6	4199.0
40°	1793.8	1793.8	1859.7	1959.0	2148.9	2347.5	2628.5	2950.6	3165.7	3256.8	3157.5
42.5°	1140.8	1157.3	1206.7	1273.1	1413.6	1587.0	1802.1	2041.9	2198.8	2264.7	2174.1
45°	685.9	702.4	744.1	793.5	884.6	992.1	1140.8	1314.2	1446.5	1504.1	1463.0
47.5°	413.2	429.7	446.1	479.6	545.5	620.1	694.2	793.5	876.3	884.6	868.1
50°	239.8	239.8	256.3	281.0	313.9	355.6	396.7	454.4	479.6	512.5	479.6
52.5°	156.9	156.9	156.9	165.2	181.6	198.6	215.1	248.0	264.5	264.5	256.3
55°	115.8	115.8	115.8	115.8	124.0	124.0	124.0	132.2	140.5	140.5	140.5
57.5°	82.8	82.8	82.8	91.1	91.1	91.1	82.8	82.8	82.8	82.8	82.8
60°	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	57.6	57.6	57.6
62.5°	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
65°	32.9	32.9	32.9	41.2	41.2	41.2	41.2	32.9	32.9	32.9	32.9
67.5°	24.7	24.7	24.7	32.9	32.9	32.9	32.9	32.9	24.7	24.7	24.7
70°	16.5	16.5	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
72.5°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
75°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
77.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
80°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
82.5°	0.0	0.0	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
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°	13117.7	13117.7	13117.7	13117.7	13117.7	13117.7	13117.7	13117.7
2.5°	13150.7	13109.5	13109.5	13109.5	13093.0	13109.5	13134.2	13093.0
5°	13010.2	13026.7	12952.6	13010.2	13034.9	12993.7	13093.0	13010.2
7.5°	12886.2	12861.5	12745.7	12828.6	12878.0	12894.4	12886.2	12820.3
10°	12638.2	12580.5	12530.6	12530.6	12514.1	12505.9	12597.0	12564.1
12.5°	12192.0	12233.2	12159.1	12200.2	12167.3	12175.5	12183.8	12167.3
15°	11811.7	11770.6	11671.3	11737.1	11696.0	11654.8	11737.1	11613.1
17.5°	11216.4	11208.1	11150.5	11109.3	11125.8	11117.6	11158.7	11101.1
20°	10514.0	10530.4	10497.5	10481.0	10456.3	10398.2	10448.1	10381.7
22.5°	9753.4	9769.9	9803.3	9736.9	9745.2	9662.8	9736.9	9662.8
25°	8984.6	8976.4	8935.2	8902.3	8811.2	8720.1	8703.7	8646.0
27.5°	8141.7	8084.1	7984.8	7877.2	7736.8	7612.7	7604.5	7563.3
30°	7216.0	7092.0	6910.3	6736.4	6521.8	6331.4	6331.4	6265.6
32.5°	6240.9	5959.4	5711.4	5496.8	5215.8	5108.3	5000.7	4943.1
35°	5075.3	4827.3	4529.4	4174.3	4042.0	3777.6	3794.0	3661.8
37.5°	3975.7	3670.0	3389.0	3099.8	2868.3	2744.3	2677.9	2612.0
40°	2950.6	2653.2	2347.5	2157.1	1950.8	1843.2	1802.1	1785.6
42.5°	2016.7	1768.6	1570.5	1413.6	1306.0	1190.2	1157.3	1140.8
45°	1314.2	1173.8	992.1	868.1	793.5	727.6	727.6	702.4
47.5°	785.3	694.2	603.6	520.8	471.4	429.7	413.2	405.0
50°	437.9	388.5	339.1	305.7	272.7	248.0	239.8	239.8
52.5°	239.8	215.1	198.6	173.4	156.9	156.9	156.9	148.7
55°	124.0	124.0	124.0	124.0	115.8	115.8	115.8	107.5
57.5°	82.8	82.8	91.1	91.1	91.1	82.8	82.8	82.8
60°	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
62.5°	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
65°	32.9	41.2	41.2	41.2	41.2	32.9	32.9	32.9
67.5°	24.7	32.9	32.9	32.9	24.7	24.7	24.7	24.7
70°	24.7	24.7	24.7	24.7	24.7	16.5	16.5	16.5
72.5°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
75°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
77.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
80°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
82.5°	8.2	8.2	8.2	8.2	8.2	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)