

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 EX6C1209035 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 EX6C1209035 6LBSQLI
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

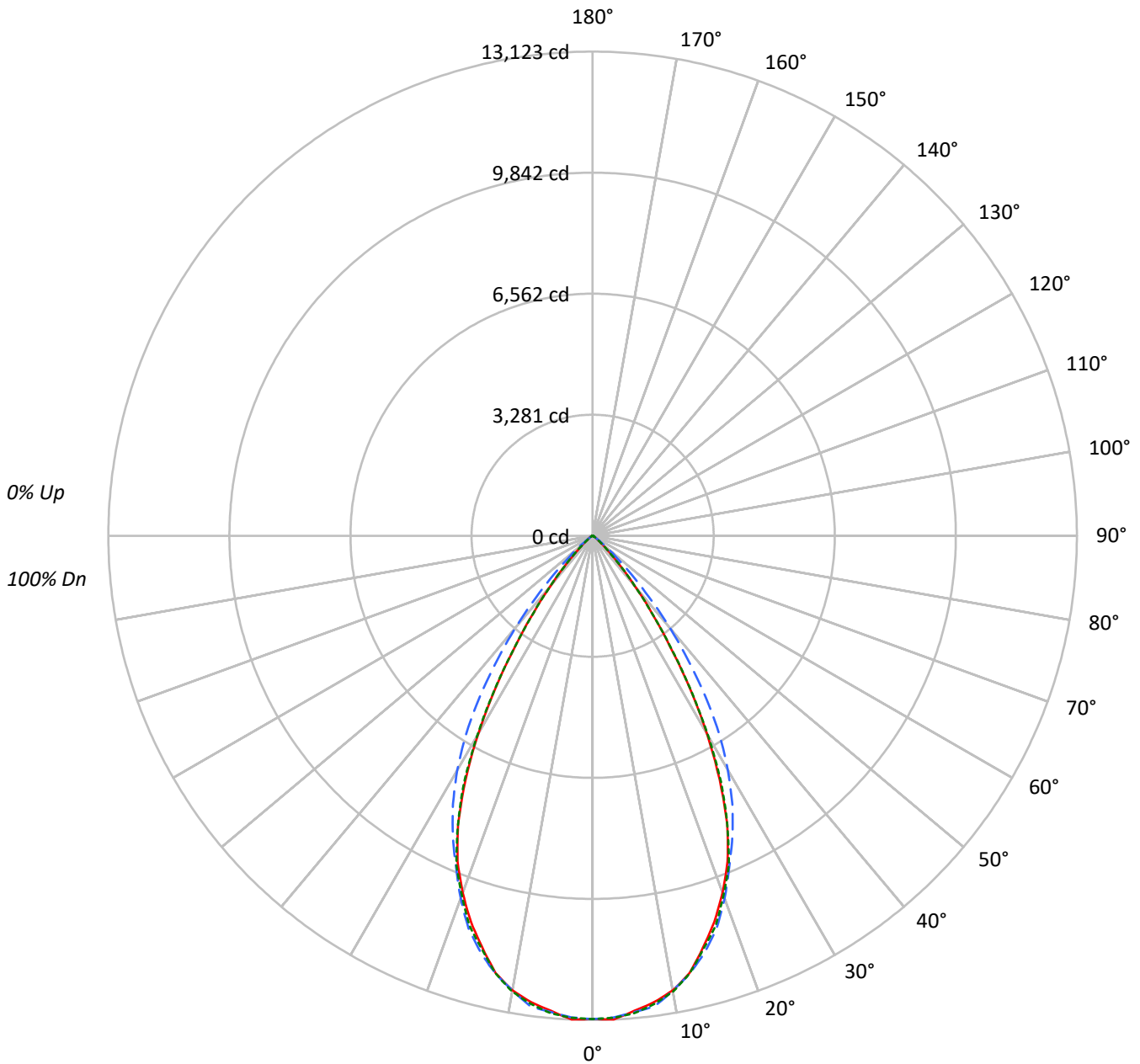
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12309.0 lumens
Efficiency: N/A
Efficacy: 86.5 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°	563969	563969	563969
5°	558637	560059	561481
10°	547036	547036	548496
15°	515058	521678	516890
20°	471568	479151	474986
25°	409754	425816	410144
30°	308157	364386	311046
35°	191323	280693	192185
40°	100675	182779	100214
45°	41703	91451	42708
50°	16036	34282	16036
55°	8678	10532	8062
60°	5709	4951	5709
65°	3352	3352	3352
70°	2065	3109	2065
75°	1364	1364	1364
80°	2033	2033	2033
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1226.3	10.0
10°-20°	3262.0	26.5
20°-30°	4003.4	32.5
30°-40°	2763.7	22.5
40°-50°	864.1	7.0
50°-60°	135.0	1.1
60°-70°	38.9	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°	8491.7	69.0
0°-40°	11255.4	91.4
0°-60°	12254.4	99.6
0°-90°	12309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13099	13099	13099	13099	13099	
5°	12925	12975	12958	12962	12991	###
15°	11555	11720	11704	11687	11596	3232
25°	8625	8848	8963	8906	8633	3865
35°	3640	4304	5340	4345	3656	2325
45°	685	937	1502	929	701	614
55°	116	124	140	124	107	113
65°	33	41	33	41	33	36
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°	13098.6	13098.6	13098.6	13098.6	13098.6	13098.6	13098.6	13098.6	13098.6	13098.6	13098.6
2.5°	13123.3	12941.9	13057.5	13032.3	13098.6	13139.7	13098.6	13172.6	13123.3	13065.7	13082.2
5°	12925.4	12950.1	12941.9	12958.3	12974.8	12974.8	13057.5	13065.7	13082.2	12958.3	12991.2
7.5°	12751.8	12751.8	12793.4	12776.4	12834.5	12818.0	12826.3	12892.0	12900.3	12867.4	12842.7
10°	12512.3	12479.4	12438.3	12438.3	12512.3	12520.5	12586.8	12595.0	12644.4	12512.3	12529.3
12.5°	12141.3	12124.4	12058.6	12091.5	12149.5	12116.1	12223.5	12231.8	12215.3	12157.8	12190.7
15°	11555.0	11621.3	11604.4	11596.1	11728.2	11711.8	11703.5	11728.2	11736.4	11703.5	11678.9
17.5°	10969.3	11026.8	11035.0	11051.5	11076.2	11101.3	11134.2	11225.2	11191.8	11167.1	11249.8
20°	10292.0	10267.4	10333.7	10399.4	10424.1	10424.1	10473.9	10539.7	10490.4	10457.5	10465.7
22.5°	9557.8	9598.9	9566.0	9631.8	9665.2	9706.3	9755.6	9813.7	9772.0	9681.6	9789.0
25°	8625.2	8649.8	8757.2	8749.0	8798.3	8897.5	8971.5	8971.5	8971.5	8963.3	8963.3
27.5°	7453.1	7436.7	7568.7	7659.2	7783.0	7940.2	8038.9	8195.6	8220.8	8195.6	8138.1
30°	6198.3	6181.9	6346.8	6462.5	6685.5	6760.0	7032.3	7180.8	7337.5	7329.3	7288.2
32.5°	4894.2	4927.6	5059.7	5224.6	5406.0	5637.2	5893.1	6223.0	6363.8	6396.7	6322.2
35°	3640.0	3689.3	3813.1	3953.4	4176.4	4432.3	4786.9	5100.8	5340.3	5340.3	5282.2
37.5°	2624.7	2641.1	2756.7	2847.7	3078.4	3309.6	3615.3	4044.4	4192.9	4250.4	4192.9
40°	1791.2	1791.2	1857.0	1956.2	2145.8	2344.1	2624.7	2946.3	3161.1	3252.0	3152.9
42.5°	1139.2	1155.6	1204.9	1271.2	1411.5	1584.7	1799.4	2038.9	2195.6	2261.4	2170.9
45°	684.9	701.4	743.0	792.3	883.3	990.7	1139.2	1312.3	1444.4	1501.9	1460.8
47.5°	412.6	429.0	445.5	478.9	544.7	619.2	693.2	792.3	875.1	883.3	866.8
50°	239.4	239.4	255.9	280.6	313.4	355.1	396.2	453.7	478.9	511.8	478.9
52.5°	156.7	156.7	156.7	164.9	181.4	198.3	214.8	247.7	264.1	264.1	255.9
55°	115.6	115.6	115.6	115.6	123.8	123.8	123.8	132.1	140.3	140.3	140.3
57.5°	82.7	82.7	82.7	90.9	90.9	90.9	82.7	82.7	82.7	82.7	82.7
60°	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	57.5	57.5	57.5
62.5°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
65°	32.9	32.9	32.9	41.1	41.1	41.1	41.1	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°	16.4	16.4	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
72.5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
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°	13098.6	13098.6	13098.6	13098.6	13098.6	13098.6	13098.6	13098.6
2.5°	13131.5	13090.4	13090.4	13090.4	13073.9	13090.4	13115.0	13073.9
5°	12991.2	13007.6	12933.7	12991.2	13015.9	12974.8	13073.9	12991.2
7.5°	12867.4	12842.7	12727.1	12809.8	12859.1	12875.6	12867.4	12801.6
10°	12619.7	12562.2	12512.3	12512.3	12495.9	12487.6	12578.6	12545.7
12.5°	12174.2	12215.3	12141.3	12182.4	12149.5	12157.8	12166.0	12149.5
15°	11794.5	11753.4	11654.2	11720.0	11678.9	11637.8	11720.0	11596.1
17.5°	11200.0	11191.8	11134.2	11093.1	11109.6	11101.3	11142.4	11084.9
20°	10498.6	10515.0	10482.2	10465.7	10441.1	10383.0	10432.8	10366.6
22.5°	9739.2	9755.6	9789.0	9722.7	9730.9	9648.7	9722.7	9648.7
25°	8971.5	8963.3	8922.2	8889.3	8798.3	8707.4	8690.9	8633.4
27.5°	8129.8	8072.3	7973.1	7865.7	7725.5	7601.6	7593.4	7552.3
30°	7205.5	7081.6	6900.2	6726.6	6512.3	6322.2	6322.2	6256.4
32.5°	6231.7	5950.7	5703.0	5488.7	5208.2	5100.8	4993.4	4935.9
35°	5067.9	4820.3	4522.7	4168.2	4036.1	3772.0	3788.5	3656.4
37.5°	3969.9	3664.6	3384.1	3095.3	2864.1	2740.3	2674.0	2608.2
40°	2946.3	2649.3	2344.1	2154.0	1947.9	1840.5	1799.4	1783.0
42.5°	2013.7	1766.0	1568.2	1411.5	1304.1	1188.5	1155.6	1139.2
45°	1312.3	1172.0	990.7	866.8	792.3	726.6	726.6	701.4
47.5°	784.1	693.2	602.7	520.0	470.7	429.0	412.6	404.4
50°	437.3	387.9	338.6	305.2	272.3	247.7	239.4	239.4
52.5°	239.4	214.8	198.3	173.2	156.7	156.7	156.7	148.5
55°	123.8	123.8	123.8	123.8	115.6	115.6	115.6	107.4
57.5°	82.7	82.7	90.9	90.9	90.9	82.7	82.7	82.7
60°	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
62.5°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
65°	32.9	41.1	41.1	41.1	41.1	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	16.4	16.4	16.4
72.5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
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)