

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 EX6C1209030 6LBCSSQMW**

Issue Date: 5/25/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209457)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/25/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C120D010 EX6C1209030 6LBCSSQMW  
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

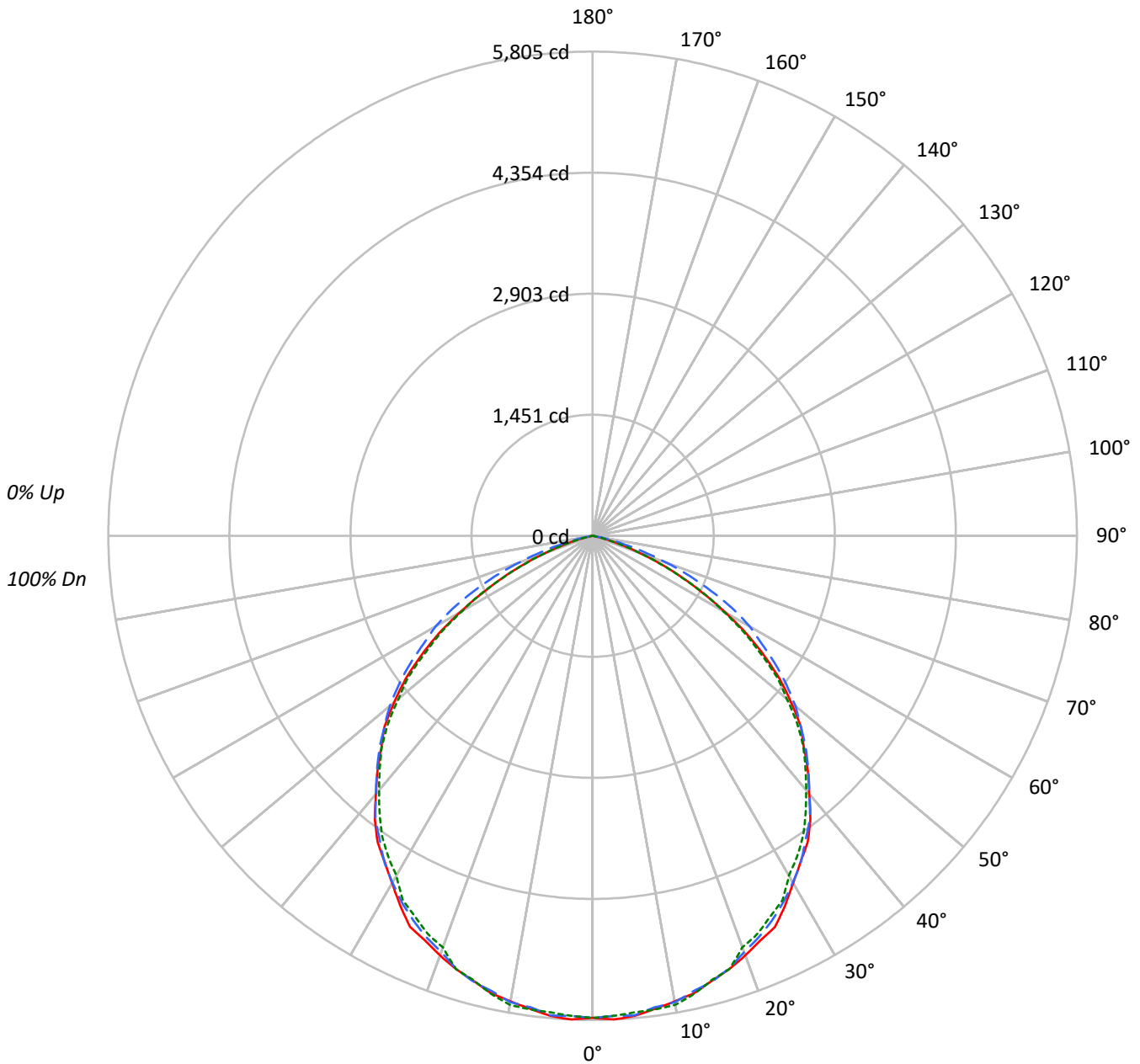
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13953.0 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
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<sub>in</sub>): 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87	87	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75	75	75	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64	64	64	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	56	56	56
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49	49	49	49
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43	43	43	43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38	38	38	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34	34	34	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31	31	31	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28	28	28	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	248827	248827	248827
5°	249778	249415	247937
10°	247830	248198	249689
15°	246207	246595	245833
20°	245264	243317	240581
25°	245799	241752	239320
30°	239007	238589	233926
35°	236105	233871	231175
40°	227086	227086	223736
45°	217998	220062	217468
50°	207827	212409	203272
55°	188759	200282	184278
60°	157816	187163	155620
65°	120716	159776	119829
70°	75129	118031	76186
75°	28380	63830	26933
80°	2083	10563	2083
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	546.6	3.9
10°-20°	1558.6	11.2
20°-30°	2345.3	16.8
30°-40°	2774.5	19.9
40°-50°	2768.8	19.8
50°-60°	2296.0	16.5
60°-70°	1341.4	9.6
70°-80°	319.4	2.3
80°-90°	2.3	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°	4450.5	31.9
0°-40°	7225.0	51.8
0°-60°	12289.9	88.1
0°-90°	13953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13953.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5779	5779	5779	5779	5779	
5°	5779	5749	5771	5754	5737	548
15°	5524	5519	5532	5507	5515	1561
25°	5174	5114	5089	5072	5038	2365
35°	4492	4450	4450	4424	4398	2793
45°	3580	3584	3614	3576	3572	2770
55°	2515	2604	2668	2596	2455	2233
65°	1185	1334	1568	1330	1176	1178
75°	171	247	384	243	162	231
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°	5779.2	5779.2	5779.2	5779.2	5779.2	5779.2	5779.2	5779.2	5779.2	5779.2	5779.2
2.5°	5805.0	5770.8	5796.2	5745.3	5779.2	5745.3	5753.7	5736.6	5770.8	5762.1	5753.7
5°	5779.2	5787.9	5770.8	5787.9	5762.1	5736.6	5762.1	5745.3	5694.0	5770.8	5753.7
7.5°	5719.5	5728.2	5711.1	5736.6	5719.5	5685.3	5753.7	5702.4	5694.0	5702.4	5736.6
10°	5668.6	5685.3	5677.0	5668.6	5677.0	5677.0	5659.9	5634.4	5659.9	5677.0	5668.6
12.5°	5617.3	5642.8	5625.7	5608.9	5591.8	5600.2	5617.3	5574.7	5574.7	5591.8	5642.8
15°	5523.5	5540.6	5548.9	5515.1	5515.1	5523.5	5557.7	5489.3	5523.5	5532.2	5540.6
17.5°	5446.7	5455.4	5455.4	5429.6	5446.7	5421.3	5446.7	5412.6	5446.7	5438.4	5455.4
20°	5352.9	5370.0	5352.9	5352.9	5336.1	5344.5	5344.5	5344.5	5319.1	5310.4	5327.4
22.5°	5250.7	5250.7	5233.6	5250.7	5233.6	5225.2	5267.8	5199.8	5267.8	5208.1	5259.4
25°	5174.0	5131.4	5105.9	5097.2	5131.4	5097.2	5114.3	5088.8	5105.9	5088.8	5097.2
27.5°	4995.0	4969.5	4960.8	4969.5	4969.5	4960.8	4995.0	4901.2	4960.8	4952.5	4952.5
30°	4807.4	4807.4	4824.5	4807.4	4824.5	4799.0	4833.2	4756.4	4807.4	4799.0	4807.4
32.5°	4637.1	4645.5	4645.5	4662.6	4637.1	4645.5	4645.5	4620.0	4637.1	4645.5	4628.4
35°	4492.0	4449.5	4449.5	4449.5	4449.5	4449.5	4466.6	4441.1	4466.6	4449.5	4449.5
37.5°	4287.6	4245.1	4245.1	4236.4	4278.9	4253.4	4296.0	4261.8	4261.8	4278.9	4278.9
40°	4040.3	4057.4	4031.9	4065.8	4057.4	4023.2	4100.0	4049.0	4082.9	4040.3	4074.5
42.5°	3818.8	3827.2	3818.8	3810.1	3844.3	3835.9	3869.8	3835.9	3827.2	3827.2	3886.8
45°	3580.2	3580.2	3580.2	3605.7	3580.2	3588.6	3622.8	3605.7	3622.8	3614.1	3673.7
47.5°	3383.9	3341.3	3332.9	3383.9	3375.5	3383.9	3383.9	3392.6	3400.9	3383.9	3409.7
50°	3102.7	3085.6	3085.6	3094.3	3102.7	3119.8	3145.3	3162.4	3145.3	3171.1	3179.4
52.5°	2829.9	2812.8	2821.5	2855.4	2872.5	2864.1	2906.7	2915.1	2906.7	2923.8	2923.8
55°	2514.6	2497.5	2523.0	2565.9	2591.3	2616.8	2659.4	2625.5	2659.4	2668.1	2676.5
57.5°	2190.6	2182.2	2190.6	2233.1	2258.9	2318.6	2386.6	2386.6	2420.8	2395.3	2420.8
60°	1832.7	1832.7	1866.8	1892.3	1960.7	2003.2	2071.3	2105.4	2139.6	2173.5	2156.7
62.5°	1491.5	1500.2	1525.7	1585.4	1627.9	1687.9	1764.3	1798.5	1858.1	1892.3	1875.2
65°	1184.9	1184.9	1202.0	1252.9	1295.5	1372.2	1440.6	1517.3	1551.5	1568.3	1577.0
67.5°	886.3	878.0	912.1	946.3	988.9	1065.6	1142.4	1184.9	1244.6	1261.7	1252.9
70°	596.8	605.2	622.3	656.5	707.4	767.1	852.5	886.3	920.5	937.6	920.5
72.5°	375.0	375.0	383.7	417.5	451.7	494.3	553.9	588.1	630.7	639.4	622.3
75°	170.6	170.6	187.7	204.4	230.2	264.4	306.9	332.4	357.9	383.7	383.7
77.5°	34.2	42.6	51.3	51.3	68.0	93.8	119.3	144.8	170.6	170.6	170.6
80°	8.4	8.4	8.4	8.4	8.4	8.4	17.1	25.5	42.6	42.6	42.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	5779.2	5779.2	5779.2	5779.2	5779.2	5779.2	5779.2	5779.2
2.5°	5779.2	5830.4	5779.2	5753.7	5787.9	5779.2	5753.7	5762.1
5°	5753.7	5770.8	5787.9	5719.5	5762.1	5770.8	5753.7	5736.6
7.5°	5728.2	5736.6	5728.2	5711.1	5711.1	5711.1	5728.2	5728.2
10°	5719.5	5694.0	5651.5	5625.7	5651.5	5651.5	5642.8	5711.1
12.5°	5608.9	5642.8	5617.3	5566.0	5617.3	5608.9	5608.9	5625.7
15°	5523.5	5523.5	5540.6	5472.5	5506.4	5498.0	5498.0	5515.1
17.5°	5438.4	5438.4	5429.6	5412.6	5404.2	5429.6	5404.2	5446.7
20°	5319.1	5336.1	5387.1	5302.0	5327.4	5302.0	5302.0	5250.7
22.5°	5174.0	5259.4	5216.5	5208.1	5199.8	5208.1	5225.2	5165.6
25°	5080.1	5080.1	5097.2	5046.3	5046.3	5063.4	5054.7	5037.6
27.5°	4952.5	4943.8	4935.4	4918.3	4960.8	4927.0	4927.0	4927.0
30°	4773.5	4799.0	4790.6	4747.7	4799.0	4781.9	4756.4	4705.2
32.5°	4620.0	4654.2	4602.9	4594.6	4585.9	4594.6	4602.9	4560.4
35°	4432.4	4441.1	4441.1	4406.9	4415.3	4406.9	4389.8	4398.2
37.5°	4261.8	4253.4	4210.9	4193.8	4202.2	4202.2	4210.9	4193.8
40°	4023.2	4049.0	4049.0	3989.4	4006.1	3989.4	3989.4	3980.7
42.5°	3827.2	3835.9	3810.1	3784.6	3784.6	3776.3	3759.2	3776.3
45°	3622.8	3614.1	3588.6	3563.1	3563.1	3554.4	3537.3	3571.5
47.5°	3392.6	3375.5	3367.1	3332.9	3332.9	3281.6	3290.4	3324.2
50°	3162.4	3145.3	3111.4	3094.3	3068.5	3043.1	3034.7	3034.7
52.5°	2889.6	2889.6	2855.4	2821.5	2812.8	2795.8	2778.7	2787.4
55°	2651.0	2651.0	2625.5	2565.9	2531.7	2489.1	2463.3	2454.9
57.5°	2378.2	2361.1	2309.9	2241.8	2207.6	2173.5	2148.0	2148.0
60°	2105.4	2062.9	2011.6	1952.0	1892.3	1832.7	1815.6	1807.2
62.5°	1807.2	1764.3	1670.8	1602.5	1559.9	1525.7	1491.5	1517.3
65°	1508.6	1449.0	1363.9	1295.5	1252.9	1202.0	1176.2	1176.2
67.5°	1193.3	1133.6	1048.5	980.2	937.6	903.4	869.6	869.6
70°	878.0	835.4	758.7	699.0	664.8	613.6	605.2	605.2
72.5°	596.8	545.5	485.9	443.3	409.2	375.0	357.9	349.5
75°	332.4	298.2	255.7	230.2	196.0	178.9	161.9	161.9
77.5°	136.4	110.9	85.1	68.0	51.3	42.6	34.2	42.6
80°	25.5	17.1	8.4	8.4	8.4	8.4	8.4	8.4
82.5°	0.0	0.0	0.0	0.0	0.0	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)