

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: **LX6C130D010 EX6C1309035 6LBCSSQMMS**

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: LX6C130D010 EX6C1309035 6LBCSSQMMS  
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

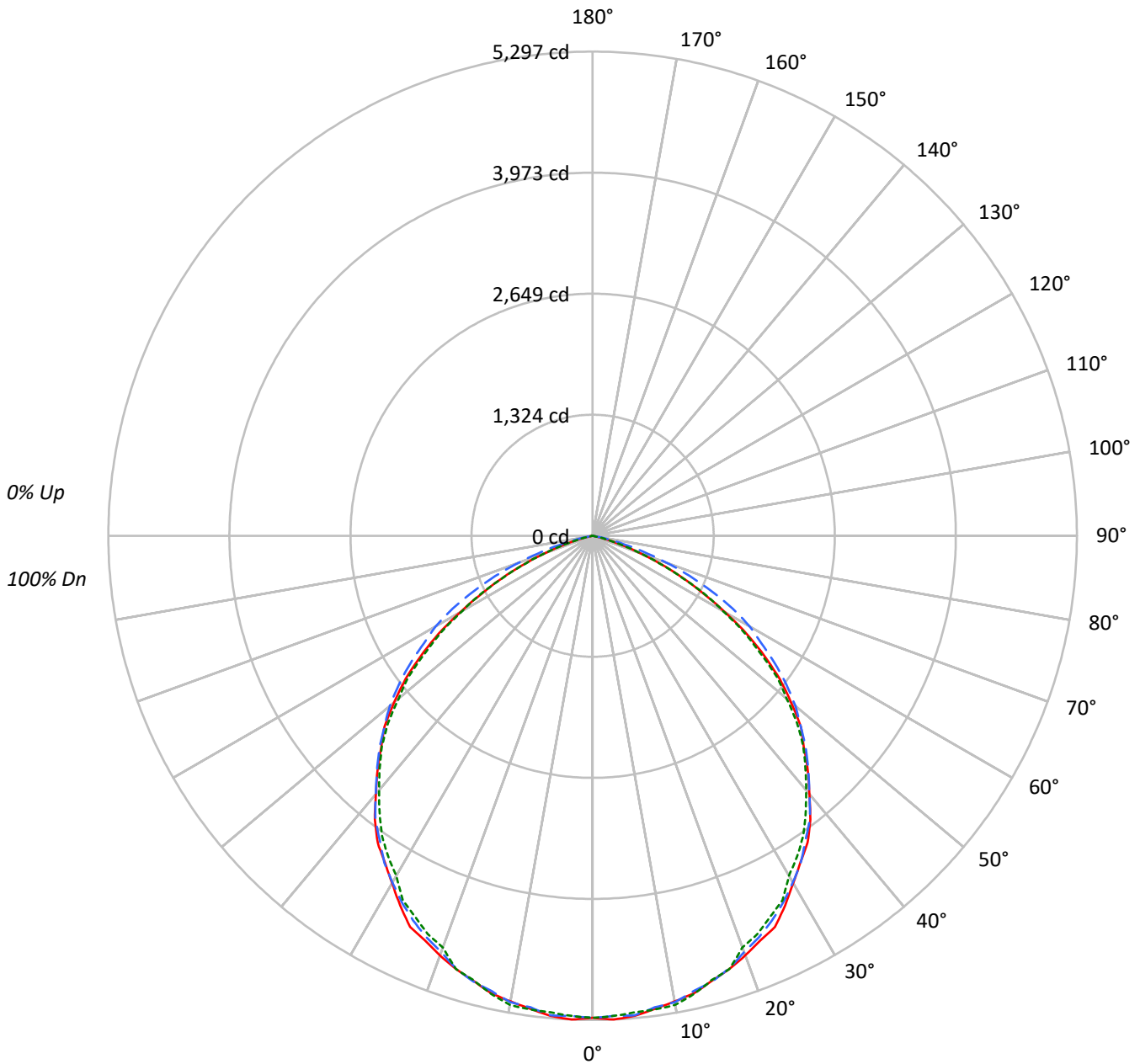
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12733.0 lumens  
Efficiency: N/A  
Efficacy: 88.2 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): 144.3  
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									
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	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75																			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64																			
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56																			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49																			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43																			
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38																			
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34																			
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28																			

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

	0°	45°	90°
0°	227071	227071	227071
5°	227939	227606	226257
10°	226158	226495	227859
15°	224678	225034	224339
20°	223821	222038	219546
25°	224307	220616	218393
30°	218106	217728	213472
35°	215464	213420	210960
40°	207228	207228	204171
45°	198939	200821	198452
50°	189655	193835	185495
55°	172252	182769	168169
60°	144013	170793	142015
65°	110161	145808	109356
70°	68558	107708	69527
75°	25885	58241	24571
80°	1909	9620	1909
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	498.8	3.9
10°-20°	1422.3	11.2
20°-30°	2140.3	16.8
30°-40°	2531.9	19.9
40°-50°	2526.7	19.8
50°-60°	2095.2	16.5
60°-70°	1224.1	9.6
70°-80°	291.5	2.3
80°-90°	2.1	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°	4061.4	31.9
0°-40°	6593.3	51.8
0°-60°	11215.3	88.1
0°-90°	12733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12733.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5274	5274	5274	5274	5274	
5°	5274	5247	5266	5251	5235	500
15°	5040	5037	5048	5025	5033	1425
25°	4722	4667	4644	4628	4597	2158
35°	4099	4060	4060	4037	4014	2549
45°	3267	3271	3298	3263	3259	2527
55°	2295	2376	2435	2369	2240	2037
65°	1081	1217	1431	1213	1073	1075
75°	156	226	350	222	148	211
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9
2.5°	5297.4	5266.2	5289.4	5243.0	5273.9	5243.0	5250.6	5235.0	5266.2	5258.3	5250.6
5°	5273.9	5281.8	5266.2	5281.8	5258.3	5235.0	5258.3	5243.0	5196.2	5266.2	5250.6
7.5°	5219.4	5227.4	5211.8	5235.0	5219.4	5188.2	5250.6	5203.8	5196.2	5203.8	5235.0
10°	5172.9	5188.2	5180.6	5172.9	5180.6	5180.6	5165.0	5141.7	5165.0	5180.6	5172.9
12.5°	5126.1	5149.4	5133.8	5118.5	5102.9	5110.6	5126.1	5087.3	5087.3	5102.9	5149.4
15°	5040.5	5056.1	5063.8	5032.9	5032.9	5040.5	5071.7	5009.3	5040.5	5048.5	5056.1
17.5°	4970.5	4978.4	4978.4	4954.9	4970.5	4947.3	4970.5	4939.3	4970.5	4962.8	4978.4
20°	4884.9	4900.5	4884.9	4884.9	4869.6	4877.2	4877.2	4877.2	4854.0	4846.0	4861.6
22.5°	4791.6	4791.6	4776.0	4791.6	4776.0	4768.4	4807.2	4745.1	4807.2	4752.8	4799.5
25°	4721.6	4682.7	4659.5	4651.5	4682.7	4651.5	4667.1	4643.9	4659.5	4643.9	4651.5
27.5°	4558.3	4535.0	4527.1	4535.0	4535.0	4527.1	4558.3	4472.7	4527.1	4519.4	4519.4
30°	4387.0	4387.0	4402.6	4387.0	4402.6	4379.4	4410.6	4340.5	4387.0	4379.4	4387.0
32.5°	4231.7	4239.3	4239.3	4254.9	4231.7	4239.3	4239.3	4216.1	4231.7	4239.3	4223.7
35°	4099.3	4060.4	4060.4	4060.4	4060.4	4060.4	4076.0	4052.8	4076.0	4060.4	4060.4
37.5°	3912.7	3873.9	3873.9	3865.9	3904.8	3881.5	3920.4	3889.2	3889.2	3904.8	3904.8
40°	3687.0	3702.6	3679.4	3710.3	3702.6	3671.5	3741.5	3695.0	3725.9	3687.0	3718.2
42.5°	3484.9	3492.6	3484.9	3477.0	3508.2	3500.5	3531.4	3500.5	3492.6	3492.6	3547.0
45°	3267.2	3267.2	3267.2	3290.4	3267.2	3274.8	3306.0	3290.4	3306.0	3298.1	3352.5
47.5°	3088.0	3049.1	3041.5	3088.0	3080.3	3088.0	3088.0	3095.9	3103.6	3088.0	3111.5
50°	2831.4	2815.8	2815.8	2823.8	2831.4	2847.0	2870.3	2885.8	2870.3	2893.8	2901.4
52.5°	2582.5	2566.9	2574.8	2605.7	2621.3	2613.7	2652.5	2660.2	2652.5	2668.1	2668.1
55°	2294.7	2279.1	2302.4	2341.5	2364.8	2388.0	2426.8	2395.9	2426.8	2434.8	2442.4
57.5°	1999.0	1991.4	1999.0	2037.9	2061.4	2115.8	2177.9	2177.9	2209.1	2185.9	2209.1
60°	1672.4	1672.4	1703.6	1726.9	1789.2	1828.1	1890.2	1921.3	1952.5	1983.4	1968.1
62.5°	1361.1	1369.1	1392.3	1446.7	1485.6	1540.3	1610.0	1641.2	1695.7	1726.9	1711.3
65°	1081.3	1081.3	1096.9	1143.4	1182.2	1252.3	1314.6	1384.7	1415.9	1431.2	1439.1
67.5°	808.8	801.2	832.4	863.6	902.4	972.4	1042.5	1081.3	1135.7	1151.3	1143.4
70°	544.6	552.3	567.9	599.1	645.5	700.0	778.0	808.8	840.0	855.6	840.0
72.5°	342.2	342.2	350.1	381.0	412.2	451.1	505.5	536.7	575.5	583.5	567.9
75°	155.6	155.6	171.2	186.5	210.1	241.3	280.1	303.4	326.6	350.1	350.1
77.5°	31.2	38.8	46.8	46.8	62.1	85.6	108.9	132.1	155.6	155.6	155.6
80°	7.7	7.7	7.7	7.7	7.7	7.7	15.6	23.2	38.8	38.8	38.8
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°	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9	5273.9
2.5°	5273.9	5320.6	5273.9	5250.6	5281.8	5273.9	5250.6	5258.3
5°	5250.6	5266.2	5281.8	5219.4	5258.3	5266.2	5250.6	5235.0
7.5°	5227.4	5235.0	5227.4	5211.8	5211.8	5211.8	5227.4	5227.4
10°	5219.4	5196.2	5157.3	5133.8	5157.3	5157.3	5149.4	5211.8
12.5°	5118.5	5149.4	5126.1	5079.4	5126.1	5118.5	5118.5	5133.8
15°	5040.5	5040.5	5056.1	4994.0	5024.9	5017.3	5017.3	5032.9
17.5°	4962.8	4962.8	4954.9	4939.3	4931.7	4954.9	4931.7	4970.5
20°	4854.0	4869.6	4916.1	4838.4	4861.6	4838.4	4838.4	4791.6
22.5°	4721.6	4799.5	4760.4	4752.8	4745.1	4752.8	4768.4	4713.9
25°	4636.0	4636.0	4651.5	4605.1	4605.1	4620.7	4612.7	4597.1
27.5°	4519.4	4511.5	4503.8	4488.2	4527.1	4496.2	4496.2	4496.2
30°	4356.1	4379.4	4371.7	4332.6	4379.4	4363.8	4340.5	4293.8
32.5°	4216.1	4247.3	4200.5	4192.8	4184.9	4192.8	4200.5	4161.6
35°	4044.8	4052.8	4052.8	4021.6	4029.2	4021.6	4006.0	4013.6
37.5°	3889.2	3881.5	3842.7	3827.1	3834.8	3834.8	3842.7	3827.1
40°	3671.5	3695.0	3695.0	3640.6	3655.9	3640.6	3640.6	3632.6
42.5°	3492.6	3500.5	3477.0	3453.7	3453.7	3446.1	3430.5	3446.1
45°	3306.0	3298.1	3274.8	3251.6	3251.6	3243.6	3228.0	3259.2
47.5°	3095.9	3080.3	3072.7	3041.5	3041.5	2994.7	3002.7	3033.6
50°	2885.8	2870.3	2839.4	2823.8	2800.2	2777.0	2769.3	2769.3
52.5°	2636.9	2636.9	2605.7	2574.8	2566.9	2551.3	2535.7	2543.7
55°	2419.2	2419.2	2395.9	2341.5	2310.3	2271.5	2247.9	2240.3
57.5°	2170.3	2154.7	2107.9	2045.8	2014.6	1983.4	1960.2	1960.2
60°	1921.3	1882.5	1835.7	1781.3	1726.9	1672.4	1656.8	1649.2
62.5°	1649.2	1610.0	1524.7	1462.3	1423.5	1392.3	1361.1	1384.7
65°	1376.7	1322.3	1244.6	1182.2	1143.4	1096.9	1073.4	1073.4
67.5°	1089.0	1034.5	956.8	894.5	855.6	824.4	793.5	793.5
70°	801.2	762.4	692.3	637.9	606.7	559.9	552.3	552.3
72.5°	544.6	497.8	443.4	404.6	373.4	342.2	326.6	318.9
75°	303.4	272.2	233.3	210.1	178.9	163.3	147.7	147.7
77.5°	124.5	101.2	77.7	62.1	46.8	38.8	31.2	38.8
80°	23.2	15.6	7.7	7.7	7.7	7.7	7.7	7.7
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)