

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 EX6C1309050 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 EX6C1309050 6LBCSSQMMS  
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LBCSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

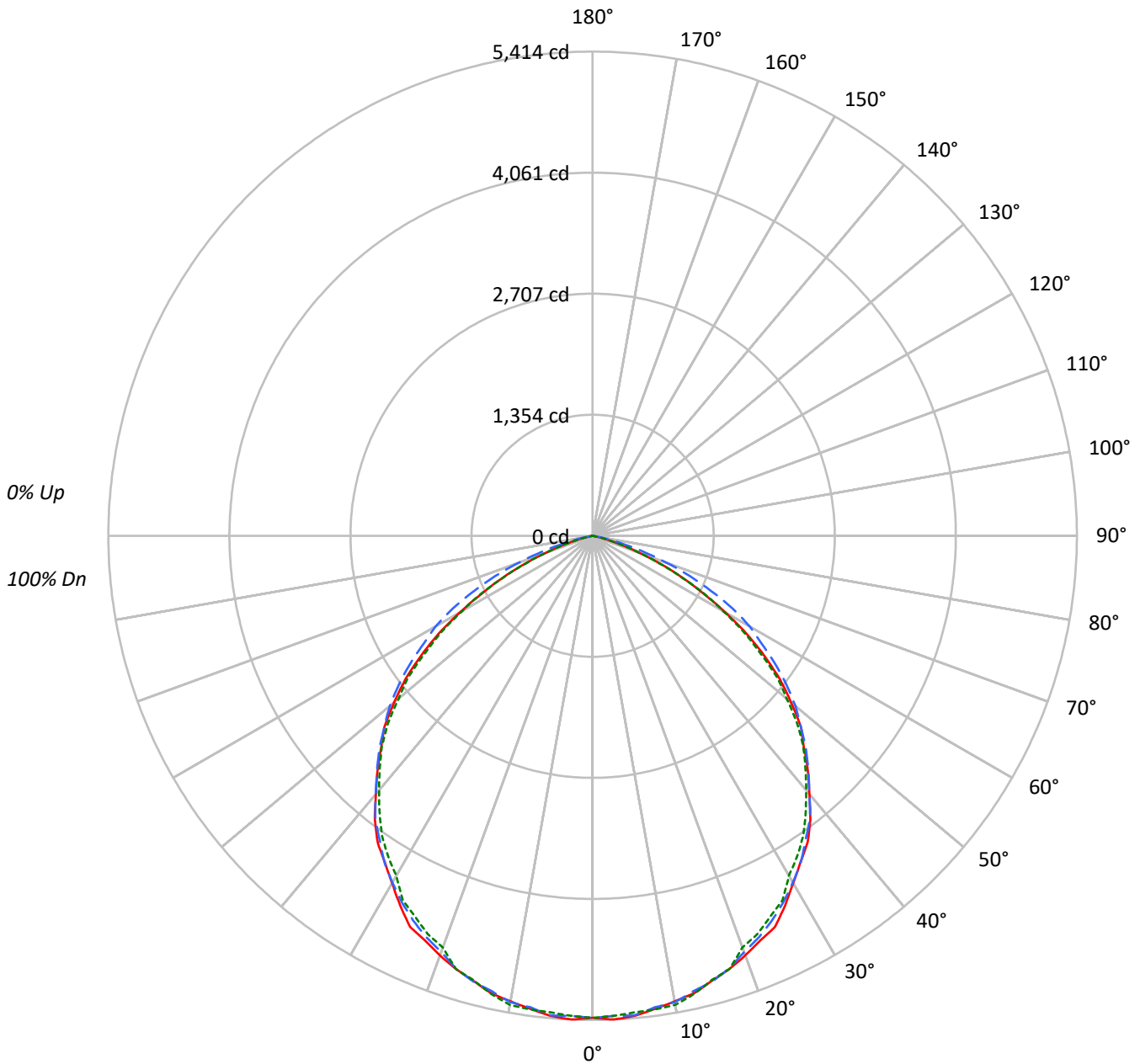
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13014.0 lumens  
Efficiency: N/A  
Efficacy: 90.2 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°	232079	232079	232079
5°	232965	232628	231249
10°	231151	231492	232887
15°	229639	230000	229287
20°	228760	226941	224389
25°	229258	225486	223215
30°	222918	222531	218180
35°	220216	218129	215617
40°	211804	211804	208679
45°	203330	205254	202836
50°	193841	198115	189588
55°	176058	186800	171877
60°	147190	174565	145149
65°	112596	149017	111771
70°	70068	110088	71063
75°	26467	59538	25119
80°	1934	9844	1934
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	509.8	3.9
10°-20°	1453.7	11.2
20°-30°	2187.5	16.8
30°-40°	2587.8	19.9
40°-50°	2582.5	19.8
50°-60°	2141.5	16.5
60°-70°	1251.1	9.6
70°-80°	297.9	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°	4151.0	31.9
0°-40°	6738.8	51.8
0°-60°	11462.8	88.1
0°-90°	13014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13014.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5390	5390	5390	5390	5390	
5°	5390	5362	5382	5366	5350	511
15°	5152	5148	5160	5136	5144	1456
25°	4826	4770	4746	4730	4699	2206
35°	4190	4150	4150	4126	4102	2605
45°	3339	3343	3371	3335	3331	2583
55°	2345	2429	2488	2421	2290	2082
65°	1105	1244	1463	1240	1097	1099
75°	159	231	358	227	151	215
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°	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2
2.5°	5414.3	5382.4	5406.2	5358.7	5390.2	5358.7	5366.5	5350.5	5382.4	5374.3	5366.5
5°	5390.2	5398.4	5382.4	5398.4	5374.3	5350.5	5374.3	5358.7	5310.8	5382.4	5366.5
7.5°	5334.6	5342.7	5326.8	5350.5	5334.6	5302.7	5366.5	5318.7	5310.8	5318.7	5350.5
10°	5287.1	5302.7	5294.9	5287.1	5294.9	5294.9	5279.0	5255.2	5279.0	5294.9	5287.1
12.5°	5239.3	5263.0	5247.1	5231.5	5215.5	5223.3	5239.3	5199.6	5199.6	5215.5	5263.0
15°	5151.8	5167.7	5175.5	5143.9	5143.9	5151.8	5183.6	5119.9	5151.8	5159.9	5167.7
17.5°	5080.2	5088.3	5088.3	5064.2	5080.2	5056.4	5080.2	5048.3	5080.2	5072.4	5088.3
20°	4992.7	5008.6	4992.7	4992.7	4977.0	4984.9	4984.9	4984.9	4961.1	4953.0	4968.9
22.5°	4897.3	4897.3	4881.4	4897.3	4881.4	4873.6	4913.3	4849.8	4913.3	4857.6	4905.5
25°	4825.8	4786.1	4762.3	4754.2	4786.1	4754.2	4770.1	4746.4	4762.3	4746.4	4754.2
27.5°	4658.9	4635.1	4627.0	4635.1	4635.1	4627.0	4658.9	4571.4	4627.0	4619.2	4619.2
30°	4483.8	4483.8	4499.8	4483.8	4499.8	4476.0	4507.9	4436.3	4483.8	4476.0	4483.8
32.5°	4325.1	4332.9	4332.9	4348.8	4325.1	4332.9	4332.9	4309.1	4325.1	4332.9	4316.9
35°	4189.7	4150.0	4150.0	4150.0	4150.0	4150.0	4166.0	4142.2	4166.0	4150.0	4150.0
37.5°	3999.1	3959.4	3959.4	3951.3	3991.0	3967.2	4006.9	3975.0	3975.0	3991.0	3991.0
40°	3768.4	3784.4	3760.6	3792.2	3784.4	3752.5	3824.0	3776.5	3808.1	3768.4	3800.3
42.5°	3561.8	3569.6	3561.8	3553.7	3585.6	3577.8	3609.3	3577.8	3569.6	3569.6	3625.3
45°	3339.3	3339.3	3339.3	3363.0	3339.3	3347.1	3379.0	3363.0	3379.0	3370.9	3426.5
47.5°	3156.1	3116.4	3108.6	3156.1	3148.3	3156.1	3156.1	3164.3	3172.1	3156.1	3180.2
50°	2893.9	2878.0	2878.0	2886.1	2893.9	2909.8	2933.6	2949.5	2933.6	2957.7	2965.5
52.5°	2639.5	2623.5	2631.7	2663.2	2679.2	2671.4	2711.1	2718.9	2711.1	2727.0	2727.0
55°	2345.4	2329.4	2353.2	2393.2	2416.9	2440.7	2480.4	2448.8	2480.4	2488.5	2496.3
57.5°	2043.1	2035.3	2043.1	2082.8	2106.9	2162.5	2226.0	2226.0	2257.9	2234.1	2257.9
60°	1709.3	1709.3	1741.2	1765.0	1828.7	1868.4	1931.9	1963.7	1995.6	2027.2	2011.6
62.5°	1391.2	1399.3	1423.0	1478.7	1518.4	1574.3	1645.6	1677.5	1733.1	1765.0	1749.0
65°	1105.2	1105.2	1121.1	1168.6	1208.3	1279.9	1343.6	1415.2	1447.1	1462.7	1470.9
67.5°	826.7	818.9	850.8	882.6	922.3	993.9	1065.5	1105.2	1160.8	1176.7	1168.6
70°	556.6	564.5	580.4	612.3	659.8	715.4	795.1	826.7	858.6	874.5	858.6
72.5°	349.7	349.7	357.9	389.4	421.3	461.0	516.6	548.5	588.2	596.3	580.4
75°	159.1	159.1	175.0	190.7	214.7	246.6	286.3	310.0	333.8	357.9	357.9
77.5°	31.9	39.7	47.8	47.8	63.5	87.5	111.3	135.0	159.1	159.1	159.1
80°	7.8	7.8	7.8	7.8	7.8	7.8	15.9	23.8	39.7	39.7	39.7
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°	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2	5390.2
2.5°	5390.2	5438.1	5390.2	5366.5	5398.4	5390.2	5366.5	5374.3
5°	5366.5	5382.4	5398.4	5334.6	5374.3	5382.4	5366.5	5350.5
7.5°	5342.7	5350.5	5342.7	5326.8	5326.8	5326.8	5342.7	5342.7
10°	5334.6	5310.8	5271.1	5247.1	5271.1	5271.1	5263.0	5326.8
12.5°	5231.5	5263.0	5239.3	5191.5	5239.3	5231.5	5231.5	5247.1
15°	5151.8	5151.8	5167.7	5104.2	5135.8	5128.0	5128.0	5143.9
17.5°	5072.4	5072.4	5064.2	5048.3	5040.5	5064.2	5040.5	5080.2
20°	4961.1	4977.0	5024.6	4945.2	4968.9	4945.2	4945.2	4897.3
22.5°	4825.8	4905.5	4865.5	4857.6	4849.8	4857.6	4873.6	4818.0
25°	4738.3	4738.3	4754.2	4706.7	4706.7	4722.6	4714.5	4698.6
27.5°	4619.2	4611.1	4603.2	4587.3	4627.0	4595.4	4595.4	4595.4
30°	4452.3	4476.0	4468.2	4428.2	4476.0	4460.1	4436.3	4388.5
32.5°	4309.1	4341.0	4293.2	4285.4	4277.2	4285.4	4293.2	4253.5
35°	4134.1	4142.2	4142.2	4110.3	4118.2	4110.3	4094.4	4102.2
37.5°	3975.0	3967.2	3927.5	3911.6	3919.4	3919.4	3927.5	3911.6
40°	3752.5	3776.5	3776.5	3720.9	3736.5	3720.9	3720.9	3712.8
42.5°	3569.6	3577.8	3553.7	3529.9	3529.9	3522.1	3506.2	3522.1
45°	3379.0	3370.9	3347.1	3323.3	3323.3	3315.2	3299.3	3331.2
47.5°	3164.3	3148.3	3140.5	3108.6	3108.6	3060.8	3068.9	3100.5
50°	2949.5	2933.6	2902.0	2886.1	2862.0	2838.3	2830.4	2830.4
52.5°	2695.1	2695.1	2663.2	2631.7	2623.5	2607.6	2591.7	2599.8
55°	2472.6	2472.6	2448.8	2393.2	2361.3	2321.6	2297.6	2289.7
57.5°	2218.2	2202.2	2154.4	2091.0	2059.1	2027.2	2003.4	2003.4
60°	1963.7	1924.1	1876.2	1820.6	1765.0	1709.3	1693.4	1685.6
62.5°	1685.6	1645.6	1558.4	1494.6	1454.9	1423.0	1391.2	1415.2
65°	1407.1	1351.5	1272.1	1208.3	1168.6	1121.1	1097.1	1097.1
67.5°	1113.0	1057.4	978.0	914.2	874.5	842.6	811.1	811.1
70°	818.9	779.2	707.6	652.0	620.1	572.3	564.5	564.5
72.5°	556.6	508.8	453.2	413.5	381.6	349.7	333.8	326.0
75°	310.0	278.2	238.5	214.7	182.8	166.9	151.0	151.0
77.5°	127.2	103.5	79.4	63.5	47.8	39.7	31.9	39.7
80°	23.8	15.9	7.8	7.8	7.8	7.8	7.8	7.8
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)