

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 EX6C1309040 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: LX6C130D010 EX6C1309040 6LBCSSQMW
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15591.0 lumens
Efficiency: N/A
Efficacy: 108.0 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_{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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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°	278036	278036	278036
5°	279098	278692	277041
10°	276922	277333	279003
15°	275109	275542	274690
20°	274056	271880	268824
25°	274655	270132	267415
30°	267062	266599	261384
35°	263826	261324	258312
40°	253744	253744	250001
45°	243590	245892	242999
50°	232222	237340	227132
55°	210918	223792	205911
60°	176339	209130	173893
65°	134887	178532	133899
70°	83954	131891	85124
75°	31707	71316	30093
80°	2331	11802	2331
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.7	3.9
10°-20°	1741.6	11.2
20°-30°	2620.7	16.8
30°-40°	3100.2	19.9
40°-50°	3093.9	19.8
50°-60°	2565.5	16.5
60°-70°	1498.9	9.6
70°-80°	356.9	2.3
80°-90°	2.6	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°	4973.0	31.9
0°-40°	8073.2	51.8
0°-60°	13732.6	88.1
0°-90°	15591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6458	6458	6458	6458	6458	
5°	6458	6424	6448	6429	6410	612
15°	6172	6167	6182	6153	6162	1745
25°	5781	5715	5686	5667	5629	2643
35°	5019	4972	4972	4943	4914	3121
45°	4000	4005	4038	3996	3991	3095
55°	2810	2910	2981	2900	2743	2495
65°	1324	1490	1752	1486	1314	1316
75°	191	276	429	271	181	258
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°	6457.6	6457.6	6457.6	6457.6	6457.6	6457.6	6457.6	6457.6	6457.6	6457.6	6457.6
2.5°	6486.4	6448.2	6476.7	6419.8	6457.6	6419.8	6429.1	6410.0	6448.2	6438.5	6429.1
5°	6457.6	6467.3	6448.2	6467.3	6438.5	6410.0	6438.5	6419.8	6362.5	6448.2	6429.1
7.5°	6390.9	6400.7	6381.6	6410.0	6390.9	6352.8	6429.1	6371.9	6362.5	6371.9	6410.0
10°	6334.0	6352.8	6343.4	6334.0	6343.4	6343.4	6324.3	6295.8	6324.3	6343.4	6334.0
12.5°	6276.7	6305.2	6286.1	6267.4	6248.3	6257.6	6276.7	6229.2	6229.2	6248.3	6305.2
15°	6171.9	6191.0	6200.4	6162.5	6162.5	6171.9	6210.1	6133.7	6171.9	6181.6	6191.0
17.5°	6086.2	6095.9	6095.9	6067.1	6086.2	6057.7	6086.2	6048.0	6086.2	6076.8	6095.9
20°	5981.3	6000.4	5981.3	5981.3	5962.6	5971.9	5971.9	5971.9	5943.5	5933.8	5952.9
22.5°	5867.1	5867.1	5848.0	5867.1	5848.0	5838.6	5886.2	5810.2	5886.2	5819.5	5876.8
25°	5781.4	5733.8	5705.3	5695.6	5733.8	5695.6	5714.7	5686.2	5705.3	5686.2	5695.6
27.5°	5581.4	5552.9	5543.2	5552.9	5552.9	5543.2	5581.4	5476.6	5543.2	5533.8	5533.8
30°	5371.7	5371.7	5390.8	5371.7	5390.8	5362.4	5400.5	5314.8	5371.7	5362.4	5371.7
32.5°	5181.5	5190.9	5190.9	5210.0	5181.5	5190.9	5190.9	5162.4	5181.5	5190.9	5171.8
35°	5019.4	4971.8	4971.8	4971.8	4971.8	4971.8	4990.9	4962.5	4990.9	4971.8	4971.8
37.5°	4791.0	4743.4	4743.4	4733.7	4781.2	4752.8	4800.3	4762.1	4762.1	4781.2	4781.2
40°	4514.6	4533.7	4505.3	4543.1	4533.7	4495.5	4581.3	4524.4	4562.2	4514.6	4552.8
42.5°	4267.1	4276.5	4267.1	4257.4	4295.6	4286.2	4324.0	4286.2	4276.5	4276.5	4343.1
45°	4000.5	4000.5	4000.5	4029.0	4000.5	4009.9	4048.1	4029.0	4048.1	4038.3	4105.0
47.5°	3781.1	3733.5	3724.2	3781.1	3771.7	3781.1	3781.1	3790.8	3800.2	3781.1	3809.9
50°	3466.9	3447.8	3447.8	3457.6	3466.9	3486.0	3514.5	3533.6	3514.5	3543.3	3552.7
52.5°	3162.1	3143.1	3152.8	3190.6	3209.7	3200.3	3247.9	3257.3	3247.9	3267.0	3267.0
55°	2809.8	2790.7	2819.2	2867.1	2895.5	2924.0	2971.6	2933.7	2971.6	2981.3	2990.7
57.5°	2447.7	2438.4	2447.7	2495.3	2524.1	2590.7	2666.8	2666.8	2705.0	2676.5	2705.0
60°	2047.8	2047.8	2086.0	2114.5	2190.8	2238.4	2314.4	2352.6	2390.8	2428.6	2409.9
62.5°	1666.6	1676.4	1704.8	1771.5	1819.0	1886.0	1971.4	2009.6	2076.3	2114.5	2095.4
65°	1324.0	1324.0	1343.1	1400.0	1447.6	1533.3	1609.7	1695.5	1733.7	1752.4	1762.1
67.5°	990.4	981.0	1019.2	1057.4	1105.0	1190.7	1276.5	1324.0	1390.7	1409.8	1400.0
70°	666.9	676.2	695.3	733.5	790.4	857.1	952.6	990.4	1028.6	1047.7	1028.6
72.5°	419.0	419.0	428.7	466.6	504.7	552.3	619.0	657.1	704.7	714.4	695.3
75°	190.6	190.6	209.7	228.4	257.2	295.4	343.0	371.4	399.9	428.7	428.7
77.5°	38.2	47.6	57.3	57.3	76.0	104.8	133.3	161.8	190.6	190.6	190.6
80°	9.4	9.4	9.4	9.4	9.4	9.4	19.1	28.5	47.6	47.6	47.6
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°	6457.6	6457.6	6457.6	6457.6	6457.6	6457.6	6457.6	6457.6
2.5°	6457.6	6514.9	6457.6	6429.1	6467.3	6457.6	6429.1	6438.5
5°	6429.1	6448.2	6467.3	6390.9	6438.5	6448.2	6429.1	6410.0
7.5°	6400.7	6410.0	6400.7	6381.6	6381.6	6381.6	6400.7	6400.7
10°	6390.9	6362.5	6314.9	6286.1	6314.9	6314.9	6305.2	6381.6
12.5°	6267.4	6305.2	6276.7	6219.5	6276.7	6267.4	6267.4	6286.1
15°	6171.9	6171.9	6191.0	6115.0	6152.8	6143.4	6143.4	6162.5
17.5°	6076.8	6076.8	6067.1	6048.0	6038.6	6067.1	6038.6	6086.2
20°	5943.5	5962.6	6019.5	5924.4	5952.9	5924.4	5924.4	5867.1
22.5°	5781.4	5876.8	5828.9	5819.5	5810.2	5819.5	5838.6	5772.0
25°	5676.5	5676.5	5695.6	5638.7	5638.7	5657.8	5648.1	5629.0
27.5°	5533.8	5524.1	5514.8	5495.7	5543.2	5505.4	5505.4	5505.4
30°	5333.9	5362.4	5353.0	5305.1	5362.4	5343.3	5314.8	5257.5
32.5°	5162.4	5200.6	5143.3	5133.9	5124.2	5133.9	5143.3	5095.8
35°	4952.7	4962.5	4962.5	4924.3	4933.6	4924.3	4905.2	4914.5
37.5°	4762.1	4752.8	4705.2	4686.1	4695.5	4695.5	4705.2	4686.1
40°	4495.5	4524.4	4524.4	4457.7	4476.4	4457.7	4457.7	4448.0
42.5°	4276.5	4286.2	4257.4	4228.9	4228.9	4219.6	4200.5	4219.6
45°	4048.1	4038.3	4009.9	3981.4	3981.4	3971.7	3952.6	3990.8
47.5°	3790.8	3771.7	3762.4	3724.2	3724.2	3666.9	3676.6	3714.5
50°	3533.6	3514.5	3476.7	3457.6	3428.8	3400.3	3390.9	3390.9
52.5°	3228.8	3228.8	3190.6	3152.8	3143.1	3124.0	3104.9	3114.6
55°	2962.2	2962.2	2933.7	2867.1	2828.9	2781.3	2752.5	2743.1
57.5°	2657.4	2638.3	2581.0	2505.0	2466.8	2428.6	2400.2	2400.2
60°	2352.6	2305.0	2247.8	2181.1	2114.5	2047.8	2028.7	2019.4
62.5°	2019.4	1971.4	1867.0	1790.6	1743.0	1704.8	1666.6	1695.5
65°	1685.7	1619.1	1524.0	1447.6	1400.0	1343.1	1314.3	1314.3
67.5°	1333.4	1266.7	1171.6	1095.2	1047.7	1009.5	971.7	971.7
70°	981.0	933.5	847.7	781.1	742.9	685.6	676.2	676.2
72.5°	666.9	609.6	542.9	495.4	457.2	419.0	399.9	390.5
75°	371.4	333.3	285.7	257.2	219.0	200.0	180.9	180.9
77.5°	152.4	123.9	95.1	76.0	57.3	47.6	38.2	47.6
80°	28.5	19.1	9.4	9.4	9.4	9.4	9.4	9.4
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)