

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: P840573

Luminaire Tested: **LD6C130D010 EU61309040 6LBCSSQMW**

Issue Date: 5/25/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P840573
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: LD6C130D010 EU61309040 6LBCSSQMW
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

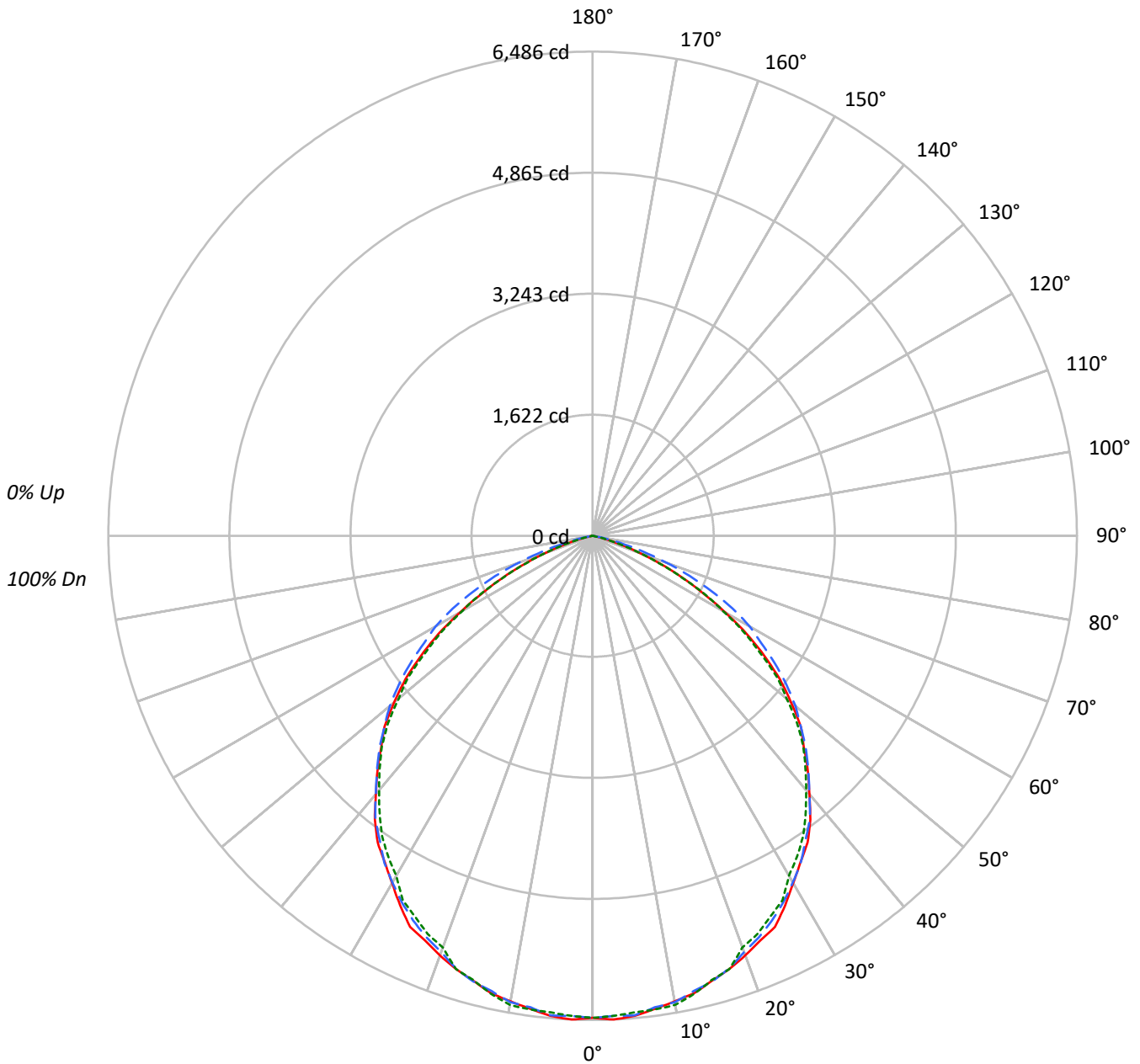
Lumens per Lamp: N/A
Luminaire Lumens: 15591.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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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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°	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)