

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: P840570

Luminaire Tested: **LD6C130D010 EU61309035 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: P840570
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 EU61309035 6LBCSSQMW
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

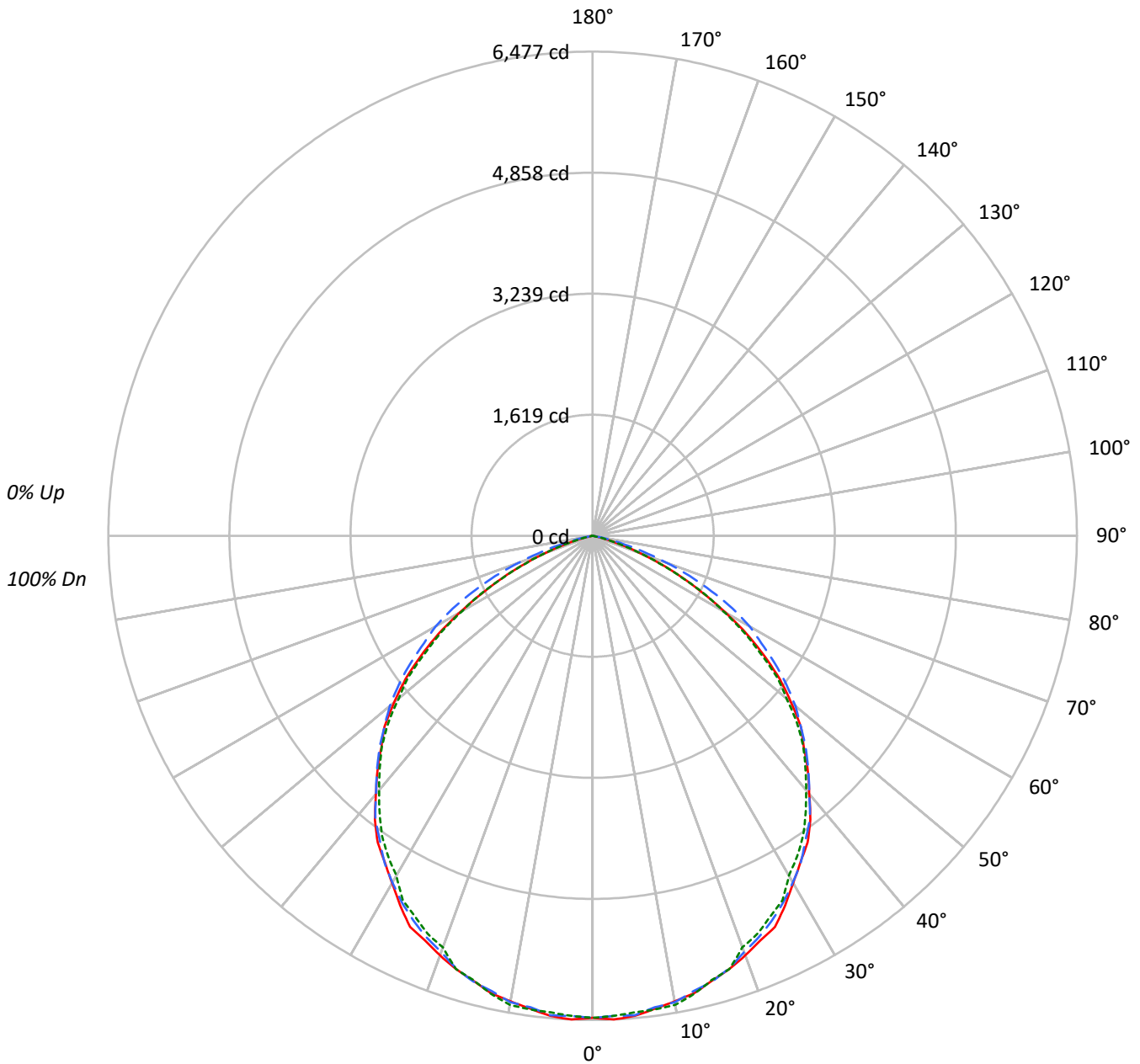
Lumens per Lamp: N/A
Luminaire Lumens: 15568.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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				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
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87			87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75			75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56			56
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49			49
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43			43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38			38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34			34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31			31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28			28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	277627	277627	277627
5°	278688	278281	276635
10°	276515	276922	278592
15°	274704	275136	274285
20°	273653	271477	268425
25°	274246	269738	267021
30°	266669	266201	261001
35°	263437	260940	257934
40°	253373	253373	249630
45°	243231	245532	242640
50°	231881	236992	226797
55°	210611	223462	205611
60°	176080	208820	173635
65°	134693	178267	133705
70°	83828	131690	84998
75°	31657	71216	30044
80°	2331	11778	2331
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.8	3.9
10°-20°	1739.0	11.2
20°-30°	2616.8	16.8
30°-40°	3095.6	19.9
40°-50°	3089.3	19.8
50°-60°	2561.7	16.5
60°-70°	1496.7	9.6
70°-80°	356.4	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°	4965.7	31.9
0°-40°	8061.3	51.8
0°-60°	13712.3	88.1
0°-90°	15568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15568.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6448	6448	6448	6448	6448	
5°	6448	6415	6439	6420	6401	611
15°	6163	6158	6172	6144	6153	1742
25°	5773	5706	5678	5659	5621	2639
35°	5012	4964	4964	4936	4907	3116
45°	3995	3999	4032	3990	3985	3090
55°	2806	2906	2977	2896	2739	2491
65°	1322	1488	1750	1484	1312	1314
75°	190	276	428	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°	6448.1	6448.1	6448.1	6448.1	6448.1	6448.1	6448.1	6448.1	6448.1	6448.1	6448.1
2.5°	6476.9	6438.7	6467.1	6410.3	6448.1	6410.3	6419.7	6400.6	6438.7	6429.0	6419.7
5°	6448.1	6457.8	6438.7	6457.8	6429.0	6400.6	6429.0	6410.3	6353.1	6438.7	6419.7
7.5°	6381.5	6391.2	6372.2	6400.6	6381.5	6343.4	6419.7	6362.5	6353.1	6362.5	6400.6
10°	6324.7	6343.4	6334.0	6324.7	6334.0	6334.0	6315.0	6286.5	6315.0	6334.0	6324.7
12.5°	6267.5	6295.9	6276.8	6258.1	6239.1	6248.4	6267.5	6220.0	6220.0	6239.1	6295.9
15°	6162.8	6181.9	6191.2	6153.4	6153.4	6162.8	6200.9	6124.7	6162.8	6172.5	6181.9
17.5°	6077.2	6086.9	6086.9	6058.1	6077.2	6048.8	6077.2	6039.0	6077.2	6067.8	6086.9
20°	5972.5	5991.6	5972.5	5972.5	5953.8	5963.1	5963.1	5963.1	5934.7	5925.0	5944.1
22.5°	5858.4	5858.4	5839.4	5858.4	5839.4	5830.0	5877.5	5801.6	5877.5	5811.0	5868.2
25°	5772.8	5725.3	5696.9	5687.2	5725.3	5687.2	5706.3	5677.9	5696.9	5677.9	5687.2
27.5°	5573.2	5544.8	5535.0	5544.8	5544.8	5535.0	5573.2	5468.5	5535.0	5525.7	5525.7
30°	5363.8	5363.8	5382.9	5363.8	5382.9	5354.4	5392.6	5307.0	5363.8	5354.4	5363.8
32.5°	5173.9	5183.2	5183.2	5202.3	5173.9	5183.2	5183.2	5154.8	5173.9	5183.2	5164.1
35°	5012.0	4964.5	4964.5	4964.5	4964.5	4964.5	4983.5	4955.1	4983.5	4964.5	4964.5
37.5°	4783.9	4736.4	4736.4	4726.7	4774.2	4745.8	4793.2	4755.1	4755.1	4774.2	4774.2
40°	4508.0	4527.0	4498.6	4536.4	4527.0	4488.9	4574.5	4517.7	4555.5	4508.0	4546.1
42.5°	4260.8	4270.2	4260.8	4251.1	4289.2	4279.9	4317.7	4279.9	4270.2	4270.2	4336.7
45°	3994.6	3994.6	3994.6	4023.0	3994.6	4004.0	4042.1	4023.0	4042.1	4032.4	4098.9
47.5°	3775.5	3728.0	3718.7	3775.5	3766.2	3775.5	3775.5	3785.2	3794.6	3775.5	3804.3
50°	3461.8	3442.8	3442.8	3452.5	3461.8	3480.9	3509.3	3528.4	3509.3	3538.1	3547.4
52.5°	3157.5	3138.4	3148.1	3185.9	3205.0	3195.6	3243.1	3252.5	3243.1	3262.2	3262.2
55°	2805.7	2786.6	2815.0	2862.9	2891.3	2919.7	2967.2	2929.4	2967.2	2976.9	2986.2
57.5°	2444.1	2434.8	2444.1	2491.6	2520.4	2586.9	2662.8	2662.8	2701.0	2672.5	2701.0
60°	2044.8	2044.8	2082.9	2111.3	2187.6	2235.1	2311.0	2349.1	2387.3	2425.0	2406.3
62.5°	1664.2	1673.9	1702.3	1768.9	1816.4	1883.3	1968.5	2006.7	2073.2	2111.3	2092.3
65°	1322.1	1322.1	1341.1	1398.0	1445.5	1531.1	1607.3	1693.0	1731.1	1749.8	1759.5
67.5°	988.9	979.6	1017.7	1055.9	1103.3	1189.0	1274.6	1322.1	1388.6	1407.7	1398.0
70°	665.9	675.2	694.3	732.4	789.3	855.8	951.2	988.9	1027.1	1046.1	1027.1
72.5°	418.4	418.4	428.1	465.9	504.0	551.5	618.0	656.2	703.7	713.4	694.3
75°	190.3	190.3	209.4	228.1	256.9	295.0	342.5	370.9	399.3	428.1	428.1
77.5°	38.1	47.5	57.2	57.2	75.9	104.7	133.1	161.5	190.3	190.3	190.3
80°	9.4	9.4	9.4	9.4	9.4	9.4	19.1	28.4	47.5	47.5	47.5
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°	6448.1	6448.1	6448.1	6448.1	6448.1	6448.1	6448.1	6448.1
2.5°	6448.1	6505.3	6448.1	6419.7	6457.8	6448.1	6419.7	6429.0
5°	6419.7	6438.7	6457.8	6381.5	6429.0	6438.7	6419.7	6400.6
7.5°	6391.2	6400.6	6391.2	6372.2	6372.2	6372.2	6391.2	6391.2
10°	6381.5	6353.1	6305.6	6276.8	6305.6	6305.6	6295.9	6372.2
12.5°	6258.1	6295.9	6267.5	6210.3	6267.5	6258.1	6258.1	6276.8
15°	6162.8	6162.8	6181.9	6106.0	6143.7	6134.4	6134.4	6153.4
17.5°	6067.8	6067.8	6058.1	6039.0	6029.7	6058.1	6029.7	6077.2
20°	5934.7	5953.8	6010.6	5915.6	5944.1	5915.6	5915.6	5858.4
22.5°	5772.8	5868.2	5820.3	5811.0	5801.6	5811.0	5830.0	5763.5
25°	5668.1	5668.1	5687.2	5630.4	5630.4	5649.4	5639.7	5620.7
27.5°	5525.7	5516.0	5506.6	5487.6	5535.0	5497.3	5497.3	5497.3
30°	5326.0	5354.4	5345.1	5297.2	5354.4	5335.4	5307.0	5249.8
32.5°	5154.8	5192.9	5135.7	5126.4	5116.7	5126.4	5135.7	5088.2
35°	4945.4	4955.1	4955.1	4917.0	4926.4	4917.0	4897.9	4907.3
37.5°	4755.1	4745.8	4698.3	4679.2	4688.6	4688.6	4698.3	4679.2
40°	4488.9	4517.7	4517.7	4451.1	4469.8	4451.1	4451.1	4441.4
42.5°	4270.2	4279.9	4251.1	4222.7	4222.7	4213.3	4194.3	4213.3
45°	4042.1	4032.4	4004.0	3975.5	3975.5	3965.8	3946.8	3984.9
47.5°	3785.2	3766.2	3756.8	3718.7	3718.7	3661.5	3671.2	3709.0
50°	3528.4	3509.3	3471.5	3452.5	3423.7	3395.3	3385.9	3385.9
52.5°	3224.0	3224.0	3185.9	3148.1	3138.4	3119.4	3100.3	3110.0
55°	2957.8	2957.8	2929.4	2862.9	2824.7	2777.2	2748.5	2739.1
57.5°	2653.5	2634.4	2577.2	2501.3	2463.2	2425.0	2396.6	2396.6
60°	2349.1	2301.6	2244.4	2177.9	2111.3	2044.8	2025.7	2016.4
62.5°	2016.4	1968.5	1864.2	1787.9	1740.4	1702.3	1664.2	1693.0
65°	1683.2	1616.7	1521.7	1445.5	1398.0	1341.1	1312.4	1312.4
67.5°	1331.4	1264.9	1169.9	1093.6	1046.1	1008.0	970.2	970.2
70°	979.6	932.1	846.5	779.9	741.8	684.6	675.2	675.2
72.5°	665.9	608.7	542.1	494.6	456.5	418.4	399.3	390.0
75°	370.9	332.8	285.3	256.9	218.7	199.7	180.6	180.6
77.5°	152.2	123.8	95.0	75.9	57.2	47.5	38.1	47.5
80°	28.4	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)