

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: P840569

Luminaire Tested: **LD6C130D010 EU61309035 6LBCSSQMMS**

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: P840569
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 6LBCSSQMMS
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

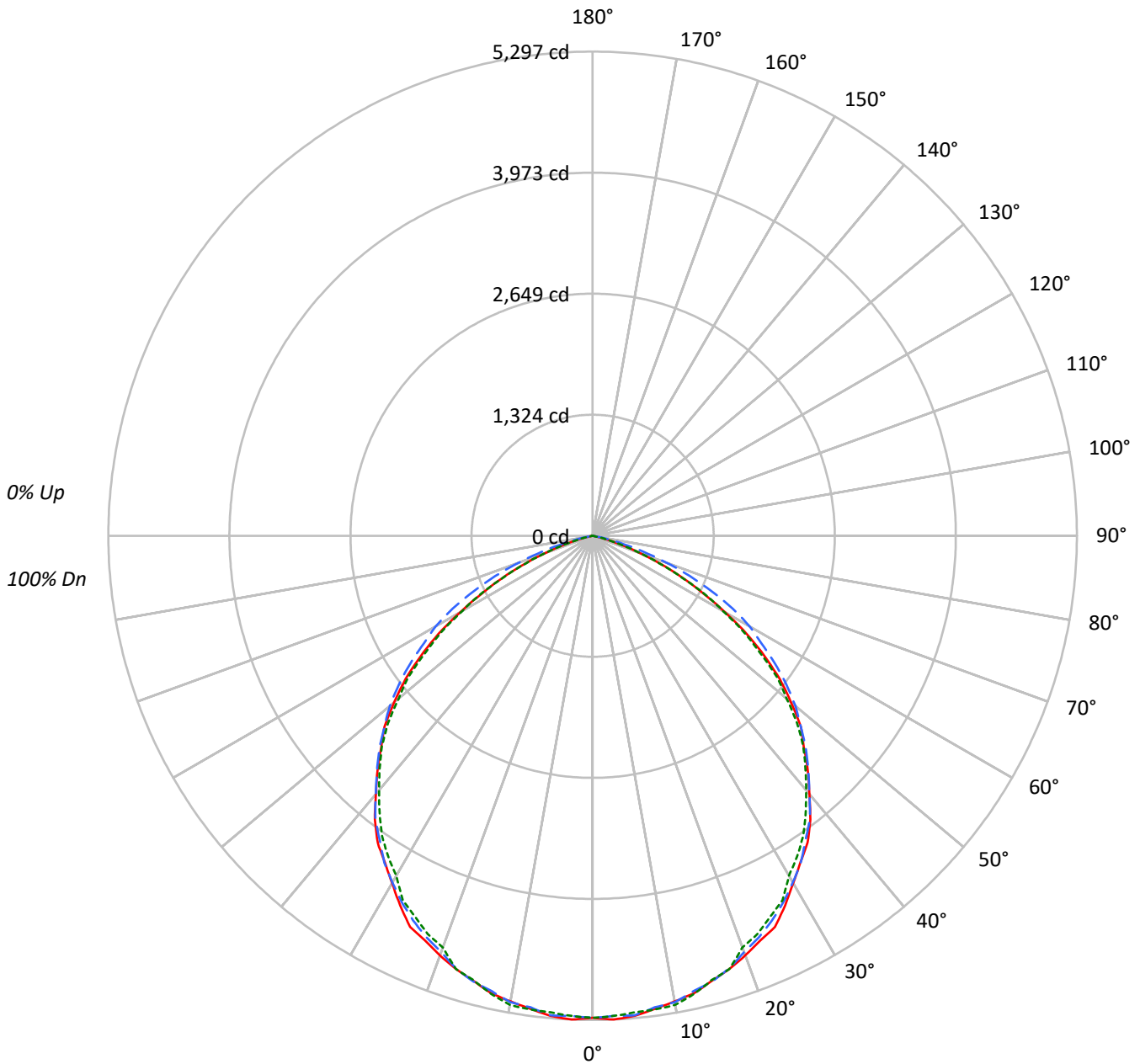
Lumens per Lamp: N/A
Luminaire Lumens: 12733.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 144.3
Input Voltage (V):
Input Current (A_{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									
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	



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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)