

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: P840563

Luminaire Tested: **LD6C130D010 EU61309027 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: P840563
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 EU61309027 6LBCSSQMMS
Description: 6 INCH 13000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

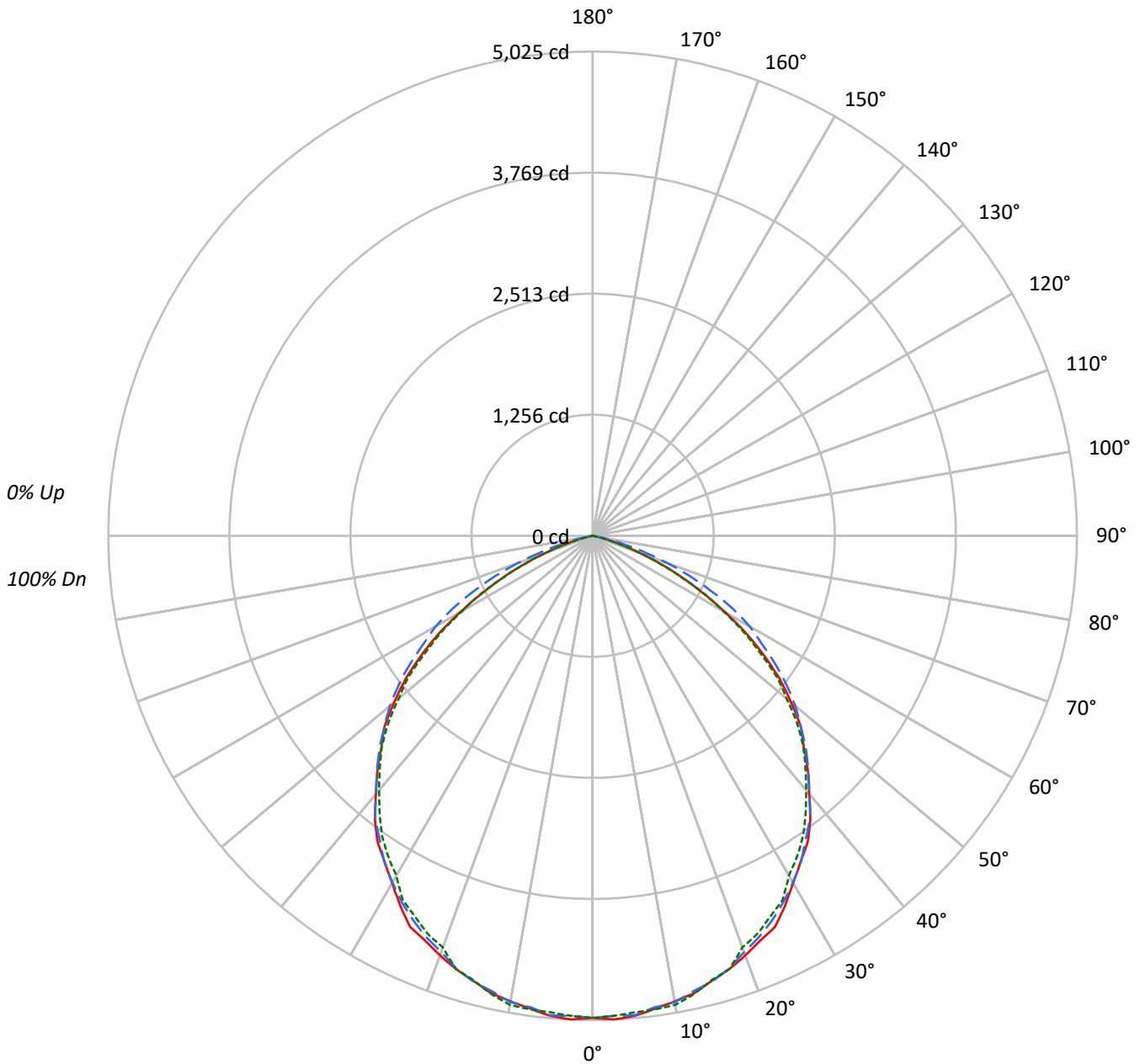
Lumens per Lamp: N/A
Luminaire Lumens: 12078.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 144.3
Input Voltage (V):
Input Current (Ain): 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
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°	215390	215390	215390
5°	216213	215897	214618
10°	214525	214844	216138
15°	213120	213458	212799
20°	212306	210616	208251
25°	212768	209267	207158
30°	206890	206527	202490
35°	204379	202445	200111
40°	196572	196572	193666
45°	188704	190488	188247
50°	179902	183861	175957
55°	163395	173363	159521
60°	136607	162010	134704
65°	104497	138300	103733
70°	65033	102169	65952
75°	24554	55246	23306
80°	1810	9124	1810
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.1	3.9
10°-20°	1349.2	11.2
20°-30°	2030.2	16.8
30°-40°	2401.7	19.9
40°-50°	2396.7	19.8
50°-60°	1987.5	16.5
60°-70°	1161.2	9.6
70°-80°	276.5	2.3
80°-90°	2.0	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°	3852.5	31.9
0°-40°	6254.1	51.8
0°-60°	10638.3	88.1
0°-90°	12078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5003	5003	5003	5003	5003	
5°	5003	4977	4995	4980	4966	474
15°	4781	4778	4789	4767	4774	1352
25°	4479	4427	4405	4390	4361	2047
35°	3888	3852	3852	3830	3807	2418
45°	3099	3103	3128	3095	3092	2397
55°	2177	2254	2310	2247	2125	1933
65°	1026	1155	1358	1151	1018	1020
75°	148	214	332	210	140	200
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°	5002.6	5002.6	5002.6	5002.6	5002.6	5002.6	5002.6	5002.6	5002.6	5002.6	5002.6
2.5°	5024.9	4995.3	5017.3	4973.3	5002.6	4973.3	4980.5	4965.7	4995.3	4987.8	4980.5
5°	5002.6	5010.1	4995.3	5010.1	4987.8	4965.7	4987.8	4973.3	4928.9	4995.3	4980.5
7.5°	4950.9	4958.5	4943.7	4965.7	4950.9	4921.3	4980.5	4936.1	4928.9	4936.1	4965.7
10°	4906.8	4921.3	4914.1	4906.8	4914.1	4914.1	4899.3	4877.2	4899.3	4914.1	4906.8
12.5°	4862.5	4884.5	4869.7	4855.2	4840.4	4847.7	4862.5	4825.6	4825.6	4840.4	4884.5
15°	4781.2	4796.0	4803.3	4774.0	4774.0	4781.2	4810.8	4751.6	4781.2	4788.8	4796.0
17.5°	4714.8	4722.3	4722.3	4700.0	4714.8	4692.8	4714.8	4685.2	4714.8	4707.6	4722.3
20°	4633.6	4648.4	4633.6	4633.6	4619.1	4626.3	4626.3	4626.3	4604.3	4596.7	4611.5
22.5°	4545.1	4545.1	4530.3	4545.1	4530.3	4523.1	4559.9	4501.0	4559.9	4508.3	4552.7
25°	4478.7	4441.8	4419.8	4412.3	4441.8	4412.3	4427.1	4405.0	4419.8	4405.0	4412.3
27.5°	4323.8	4301.7	4294.2	4301.7	4301.7	4294.2	4323.8	4242.6	4294.2	4286.9	4286.9
30°	4161.4	4161.4	4176.1	4161.4	4176.1	4154.1	4183.7	4117.3	4161.4	4154.1	4161.4
32.5°	4014.0	4021.2	4021.2	4036.0	4014.0	4021.2	4021.2	3999.2	4014.0	4021.2	4006.5
35°	3888.4	3851.6	3851.6	3851.6	3851.6	3851.6	3866.3	3844.3	3866.3	3851.6	3851.6
37.5°	3711.4	3674.6	3674.6	3667.1	3703.9	3681.9	3718.7	3689.1	3689.1	3703.9	3703.9
40°	3497.4	3512.2	3490.1	3519.4	3512.2	3482.6	3549.0	3504.9	3534.2	3497.4	3527.0
42.5°	3305.6	3312.9	3305.6	3298.1	3327.7	3320.4	3349.7	3320.4	3312.9	3312.9	3364.5
45°	3099.1	3099.1	3099.1	3121.2	3099.1	3106.4	3135.9	3121.2	3135.9	3128.4	3180.0
47.5°	2929.1	2892.3	2885.0	2929.1	2921.9	2929.1	2929.1	2936.7	2943.9	2929.1	2951.5
50°	2685.8	2671.0	2671.0	2678.5	2685.8	2700.6	2722.6	2737.4	2722.6	2744.9	2752.2
52.5°	2449.6	2434.9	2442.4	2471.7	2486.5	2479.2	2516.1	2523.3	2516.1	2530.9	2530.9
55°	2176.7	2161.9	2183.9	2221.1	2243.1	2265.2	2302.0	2272.7	2302.0	2309.5	2316.8
57.5°	1896.2	1888.9	1896.2	1933.0	1955.4	2007.0	2065.9	2065.9	2095.5	2073.4	2095.5
60°	1586.4	1586.4	1616.0	1638.0	1697.2	1734.0	1792.9	1822.5	1852.1	1881.4	1866.9
62.5°	1291.1	1298.6	1320.7	1372.3	1409.2	1461.1	1527.2	1556.8	1608.4	1638.0	1623.2
65°	1025.7	1025.7	1040.5	1084.6	1121.4	1187.8	1247.0	1313.4	1343.0	1357.5	1365.1
67.5°	767.2	760.0	789.6	819.2	856.0	922.4	988.8	1025.7	1077.3	1092.1	1084.6
70°	516.6	523.9	538.7	568.2	612.3	664.0	737.9	767.2	796.8	811.6	796.8
72.5°	324.6	324.6	332.1	361.4	391.0	427.9	479.5	509.1	545.9	553.5	538.7
75°	147.6	147.6	162.4	176.9	199.3	228.9	265.7	287.8	309.8	332.1	332.1
77.5°	29.6	36.8	44.4	44.4	58.9	81.2	103.3	125.3	147.6	147.6	147.6
80°	7.3	7.3	7.3	7.3	7.3	7.3	14.8	22.0	36.8	36.8	36.8
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°	5002.6	5002.6	5002.6	5002.6	5002.6	5002.6	5002.6	5002.6
2.5°	5002.6	5046.9	5002.6	4980.5	5010.1	5002.6	4980.5	4987.8
5°	4980.5	4995.3	5010.1	4950.9	4987.8	4995.3	4980.5	4965.7
7.5°	4958.5	4965.7	4958.5	4943.7	4943.7	4943.7	4958.5	4958.5
10°	4950.9	4928.9	4892.0	4869.7	4892.0	4892.0	4884.5	4943.7
12.5°	4855.2	4884.5	4862.5	4818.1	4862.5	4855.2	4855.2	4869.7
15°	4781.2	4781.2	4796.0	4737.1	4766.4	4759.2	4759.2	4774.0
17.5°	4707.6	4707.6	4700.0	4685.2	4678.0	4700.0	4678.0	4714.8
20°	4604.3	4619.1	4663.2	4589.5	4611.5	4589.5	4589.5	4545.1
22.5°	4478.7	4552.7	4515.5	4508.3	4501.0	4508.3	4523.1	4471.4
25°	4397.5	4397.5	4412.3	4368.2	4368.2	4383.0	4375.4	4360.6
27.5°	4286.9	4279.4	4272.2	4257.4	4294.2	4264.9	4264.9	4264.9
30°	4132.0	4154.1	4146.8	4109.7	4154.1	4139.3	4117.3	4072.9
32.5°	3999.2	4028.8	3984.4	3977.2	3969.6	3977.2	3984.4	3947.6
35°	3836.8	3844.3	3844.3	3814.7	3822.0	3814.7	3799.9	3807.2
37.5°	3689.1	3681.9	3645.0	3630.2	3637.5	3637.5	3645.0	3630.2
40°	3482.6	3504.9	3504.9	3453.3	3467.8	3453.3	3453.3	3445.7
42.5°	3312.9	3320.4	3298.1	3276.1	3276.1	3268.8	3254.0	3268.8
45°	3135.9	3128.4	3106.4	3084.3	3084.3	3076.8	3062.0	3091.6
47.5°	2936.7	2921.9	2914.6	2885.0	2885.0	2840.7	2848.2	2877.5
50°	2737.4	2722.6	2693.3	2678.5	2656.2	2634.1	2626.9	2626.9
52.5°	2501.3	2501.3	2471.7	2442.4	2434.9	2420.1	2405.3	2412.8
55°	2294.7	2294.7	2272.7	2221.1	2191.5	2154.6	2132.3	2125.1
57.5°	2058.6	2043.8	1999.5	1940.6	1911.0	1881.4	1859.4	1859.4
60°	1822.5	1785.7	1741.3	1689.7	1638.0	1586.4	1571.6	1564.3
62.5°	1564.3	1527.2	1446.3	1387.1	1350.3	1320.7	1291.1	1313.4
65°	1305.9	1254.3	1180.6	1121.4	1084.6	1040.5	1018.2	1018.2
67.5°	1032.9	981.3	907.6	848.5	811.6	782.0	752.7	752.7
70°	760.0	723.1	656.7	605.1	575.5	531.1	523.9	523.9
72.5°	516.6	472.2	420.6	383.8	354.2	324.6	309.8	302.5
75°	287.8	258.2	221.3	199.3	169.7	154.9	140.1	140.1
77.5°	118.1	96.0	73.7	58.9	44.4	36.8	29.6	36.8
80°	22.0	14.8	7.3	7.3	7.3	7.3	7.3	7.3
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)