

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: P840508

Luminaire Tested: **LD6C100D010 EU61009027 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: P840508
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: LD6C100D010 EU61009027 6LBCSSQMW
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBCSSQ TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

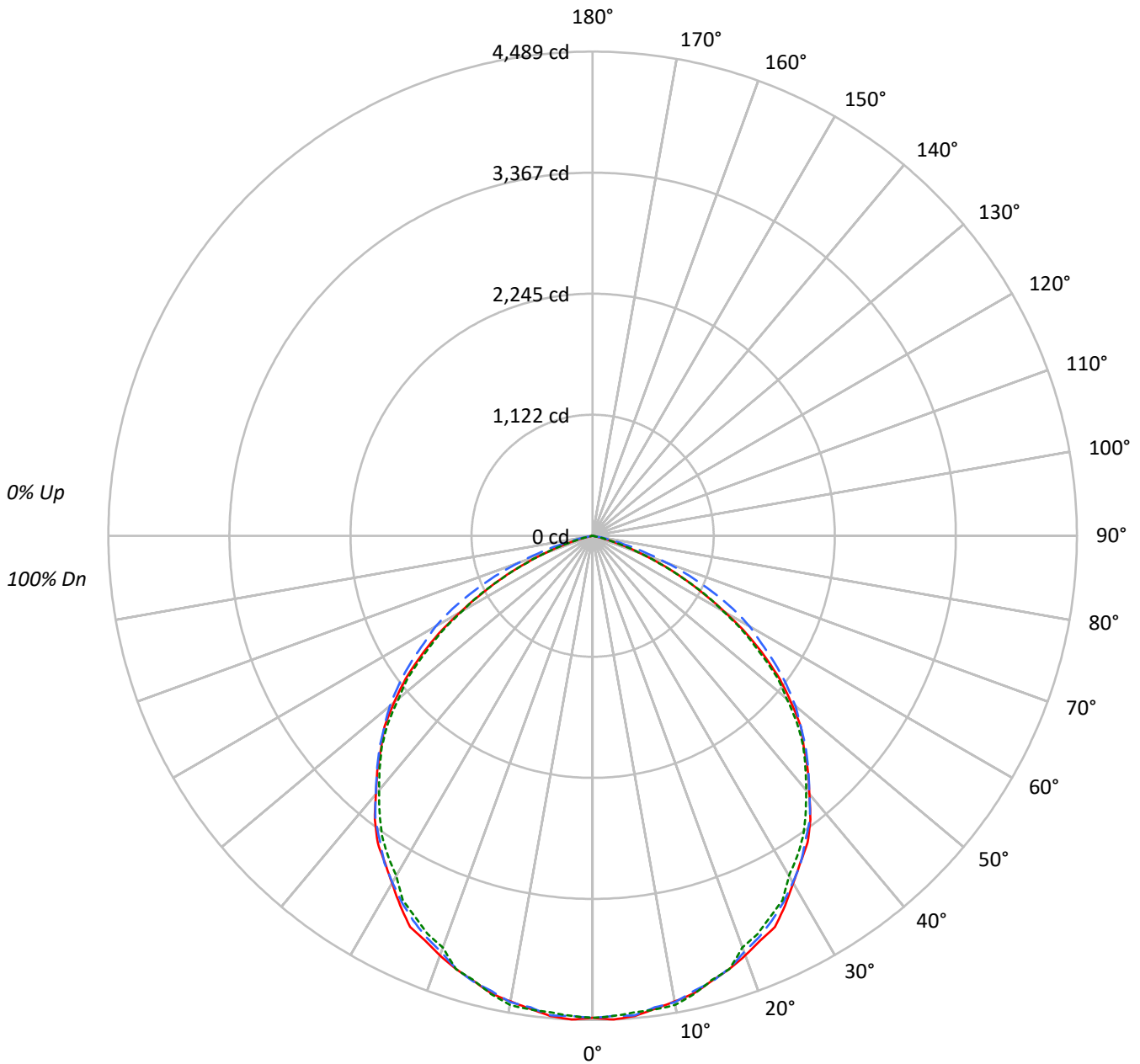
Lumens per Lamp: N/A
Luminaire Lumens: 10791.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
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	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°	192437	192437	192437
5°	193172	192891	191750
10°	191668	191952	193106
15°	190413	190712	190124
20°	189681	188174	186061
25°	190098	186967	185086
30°	184841	184517	180913
35°	182603	180869	178787
40°	175624	175624	173033
45°	168598	170193	168184
50°	160732	164268	157208
55°	145979	154890	142519
60°	122054	144745	120358
65°	93361	123568	92679
70°	58109	91280	58915
75°	21942	49357	20828
80°	1612	8157	1612
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.7	3.9
10°-20°	1205.4	11.2
20°-30°	1813.8	16.8
30°-40°	2145.7	19.9
40°-50°	2141.4	19.8
50°-60°	1775.7	16.5
60°-70°	1037.4	9.6
70°-80°	247.0	2.3
80°-90°	1.8	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°	3442.0	31.9
0°-40°	5587.7	51.8
0°-60°	9504.7	88.1
0°-90°	10791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4470	4470	4470	4470	4470	
5°	4470	4446	4463	4450	4437	423
15°	4272	4269	4278	4259	4265	1208
25°	4002	3955	3936	3922	3896	1829
35°	3474	3441	3441	3421	3402	2160
45°	2769	2772	2795	2766	2762	2142
55°	1945	2014	2063	2007	1899	1727
65°	916	1032	1213	1028	910	911
75°	132	191	297	188	125	179
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°	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5
2.5°	4489.4	4463.0	4482.7	4443.3	4469.5	4443.3	4449.8	4436.6	4463.0	4456.3	4449.8
5°	4469.5	4476.2	4463.0	4476.2	4456.3	4436.6	4456.3	4443.3	4403.7	4463.0	4449.8
7.5°	4423.4	4430.1	4416.9	4436.6	4423.4	4396.9	4449.8	4410.2	4403.7	4410.2	4436.6
10°	4384.0	4396.9	4390.5	4384.0	4390.5	4390.5	4377.2	4357.5	4377.2	4390.5	4384.0
12.5°	4344.3	4364.0	4350.8	4337.8	4324.6	4331.1	4344.3	4311.4	4311.4	4324.6	4364.0
15°	4271.8	4285.0	4291.5	4265.3	4265.3	4271.8	4298.2	4245.3	4271.8	4278.5	4285.0
17.5°	4212.4	4219.1	4219.1	4199.2	4212.4	4192.7	4212.4	4186.0	4212.4	4205.9	4219.1
20°	4139.8	4153.1	4139.8	4139.8	4126.9	4133.4	4133.4	4133.4	4113.7	4106.9	4120.1
22.5°	4060.8	4060.8	4047.6	4060.8	4047.6	4041.1	4074.0	4021.4	4074.0	4027.9	4067.5
25°	4001.5	3968.5	3948.8	3942.1	3968.5	3942.1	3955.3	3935.6	3948.8	3935.6	3942.1
27.5°	3863.1	3843.4	3836.6	3843.4	3843.4	3836.6	3863.1	3790.5	3836.6	3830.1	3830.1
30°	3717.9	3717.9	3731.1	3717.9	3731.1	3711.4	3737.9	3678.5	3717.9	3711.4	3717.9
32.5°	3586.3	3592.8	3592.8	3606.0	3586.3	3592.8	3592.8	3573.1	3586.3	3592.8	3579.5
35°	3474.1	3441.1	3441.1	3441.1	3441.1	3441.1	3454.4	3434.7	3454.4	3441.1	3441.1
37.5°	3316.0	3283.1	3283.1	3276.3	3309.2	3289.5	3322.4	3296.0	3296.0	3309.2	3309.2
40°	3124.7	3137.9	3118.2	3144.4	3137.9	3111.5	3170.8	3131.4	3157.6	3124.7	3151.1
42.5°	2953.4	2959.9	2953.4	2946.7	2973.1	2966.6	2992.8	2966.6	2959.9	2959.9	3006.0
45°	2768.9	2768.9	2768.9	2788.6	2768.9	2775.4	2801.8	2788.6	2801.8	2795.1	2841.2
47.5°	2617.0	2584.1	2577.6	2617.0	2610.5	2617.0	2617.0	2623.7	2630.2	2617.0	2637.0
50°	2399.6	2386.4	2386.4	2393.1	2399.6	2412.8	2432.5	2445.7	2432.5	2452.4	2458.9
52.5°	2188.6	2175.4	2182.1	2208.3	2221.5	2215.0	2248.0	2254.4	2248.0	2261.2	2261.2
55°	1944.7	1931.5	1951.2	1984.4	2004.1	2023.8	2056.7	2030.5	2056.7	2063.4	2069.9
57.5°	1694.1	1687.7	1694.1	1727.1	1747.0	1793.1	1845.8	1845.8	1872.2	1852.5	1872.2
60°	1417.4	1417.4	1443.8	1463.5	1516.3	1549.3	1601.9	1628.3	1654.7	1680.9	1668.0
62.5°	1153.5	1160.3	1180.0	1226.1	1259.0	1305.4	1364.5	1390.9	1437.1	1463.5	1450.3
65°	916.4	916.4	929.6	969.0	1001.9	1061.3	1114.1	1173.5	1199.9	1212.9	1219.6
67.5°	685.5	679.0	705.4	731.9	764.8	824.1	883.5	916.4	962.5	975.7	969.0
70°	461.6	468.0	481.3	507.7	547.1	593.2	659.3	685.5	711.9	725.1	711.9
72.5°	290.0	290.0	296.7	322.9	349.4	382.3	428.4	454.8	487.7	494.5	481.3
75°	131.9	131.9	145.1	158.1	178.0	204.5	237.4	257.1	276.8	296.7	296.7
77.5°	26.4	32.9	39.6	39.6	52.6	72.6	92.3	112.0	131.9	131.9	131.9
80°	6.5	6.5	6.5	6.5	6.5	6.5	13.2	19.7	32.9	32.9	32.9
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°	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5
2.5°	4469.5	4509.1	4469.5	4449.8	4476.2	4469.5	4449.8	4456.3
5°	4449.8	4463.0	4476.2	4423.4	4456.3	4463.0	4449.8	4436.6
7.5°	4430.1	4436.6	4430.1	4416.9	4416.9	4416.9	4430.1	4430.1
10°	4423.4	4403.7	4370.8	4350.8	4370.8	4370.8	4364.0	4416.9
12.5°	4337.8	4364.0	4344.3	4304.7	4344.3	4337.8	4337.8	4350.8
15°	4271.8	4271.8	4285.0	4232.4	4258.5	4252.1	4252.1	4265.3
17.5°	4205.9	4205.9	4199.2	4186.0	4179.5	4199.2	4179.5	4212.4
20°	4113.7	4126.9	4166.3	4100.4	4120.1	4100.4	4100.4	4060.8
22.5°	4001.5	4067.5	4034.4	4027.9	4021.4	4027.9	4041.1	3995.0
25°	3928.9	3928.9	3942.1	3902.7	3902.7	3915.9	3909.2	3896.0
27.5°	3830.1	3823.4	3816.9	3803.7	3836.6	3810.4	3810.4	3810.4
30°	3691.7	3711.4	3705.0	3671.8	3711.4	3698.2	3678.5	3638.9
32.5°	3573.1	3599.5	3559.8	3553.4	3546.6	3553.4	3559.8	3526.9
35°	3427.9	3434.7	3434.7	3408.2	3414.7	3408.2	3395.0	3401.5
37.5°	3296.0	3289.5	3256.6	3243.4	3249.9	3249.9	3256.6	3243.4
40°	3111.5	3131.4	3131.4	3085.3	3098.3	3085.3	3085.3	3078.6
42.5°	2959.9	2966.6	2946.7	2927.0	2927.0	2920.5	2907.3	2920.5
45°	2801.8	2795.1	2775.4	2755.7	2755.7	2748.9	2735.7	2762.1
47.5°	2623.7	2610.5	2604.0	2577.6	2577.6	2538.0	2544.7	2570.9
50°	2445.7	2432.5	2406.3	2393.1	2373.1	2353.4	2347.0	2347.0
52.5°	2234.7	2234.7	2208.3	2182.1	2175.4	2162.2	2149.0	2155.7
55°	2050.2	2050.2	2030.5	1984.4	1958.0	1925.0	1905.1	1898.6
57.5°	1839.3	1826.1	1786.4	1733.8	1707.4	1680.9	1661.2	1661.2
60°	1628.3	1595.4	1555.7	1509.6	1463.5	1417.4	1404.1	1397.7
62.5°	1397.7	1364.5	1292.2	1239.3	1206.4	1180.0	1153.5	1173.5
65°	1166.7	1120.6	1054.8	1001.9	969.0	929.6	909.7	909.7
67.5°	922.9	876.7	810.9	758.0	725.1	698.7	672.5	672.5
70°	679.0	646.1	586.7	540.6	514.2	474.5	468.0	468.0
72.5°	461.6	421.9	375.8	342.9	316.4	290.0	276.8	270.3
75°	257.1	230.7	197.7	178.0	151.6	138.4	125.2	125.2
77.5°	105.5	85.8	65.8	52.6	39.6	32.9	26.4	32.9
80°	19.7	13.2	6.5	6.5	6.5	6.5	6.5	6.5
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)