

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: P799300

Luminaire Tested: **LD6C10D010 EU6109027 6LBMDSWLI**

Issue Date: 4/12/2024

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: P799300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-5)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C10D010 EU6109027 6LBMDSWLI
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

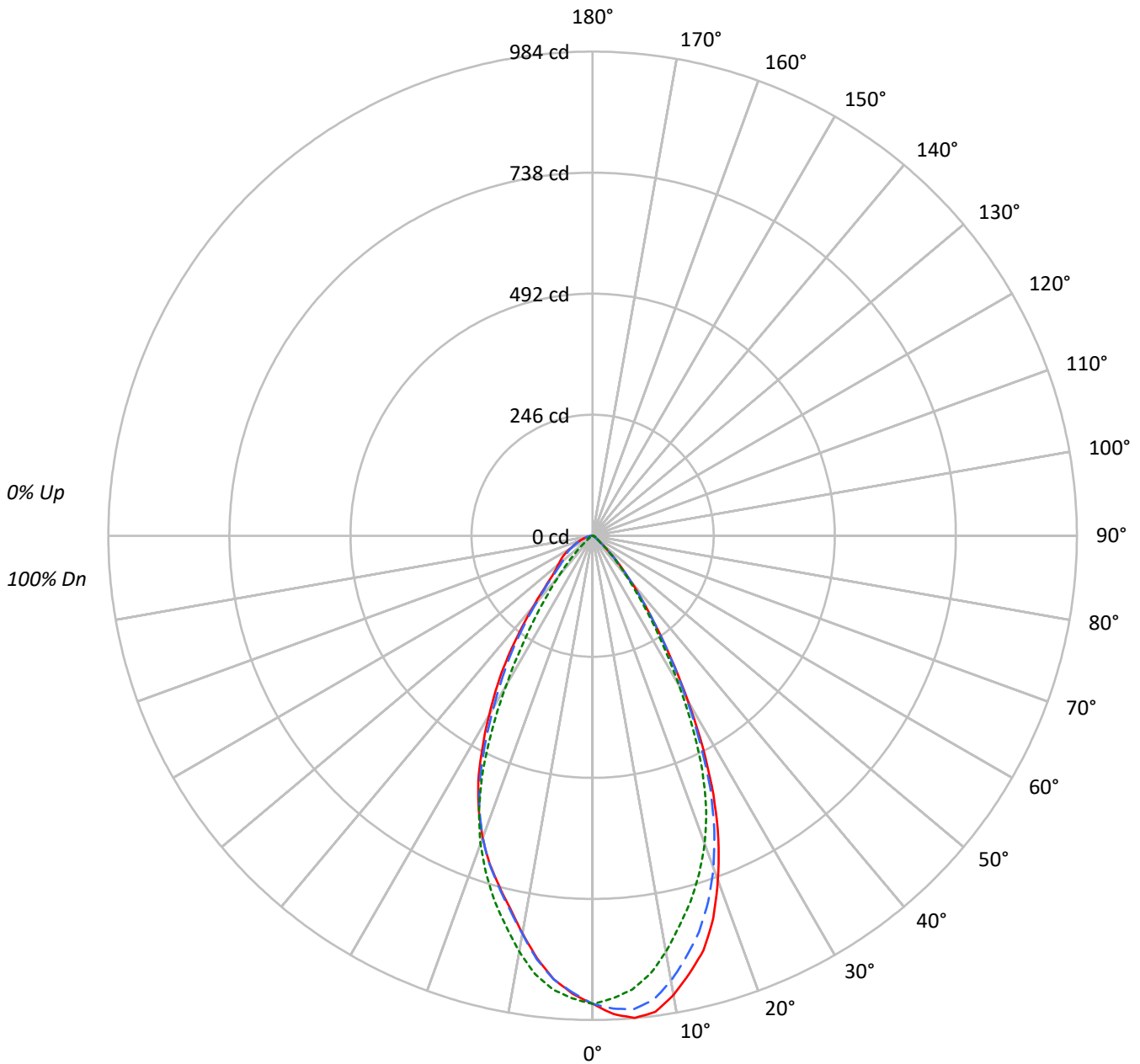
Lumens per Lamp: N/A
Luminaire Lumens: 819.0 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
Input Voltage (V): NR
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73																			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67																			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63																			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59																			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55																			
9	74	64	58	54	73	63	58	54	62	57	53	61	57	53	61	56	53	52																			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	52150	52150	52150
5°	54133	50924	49774
10°	52749	47767	45663
15°	49467	43644	41760
20°	43427	38853	38112
25°	35125	31919	33238
30°	24421	22238	26599
35°	15051	13619	20077
40°	8516	7636	13332
45°	4132	3946	9102
50°	1578	1578	7735
55°	860	1023	7140
60°	625	811	5844
65°	532	687	4787
70°	465	593	3943
75°	445	614	3389
80°	253	505	2462
85°	252	1006	2327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	10.6
10°-20°	218.9	26.7
20°-30°	246.4	30.1
30°-40°	152.6	18.6
40°-50°	60.8	7.4
50°-60°	27.7	3.4
60°-70°	15.9	1.9
70°-80°	7.6	0.9
80°-90°	2.2	0.3
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°	552.4	67.4
0°-40°	704.9	86.1
0°-60°	793.4	96.9
0°-90°	819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	819.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	951	951	951	951	951	
5°	984	966	925	905	904	93
15°	872	834	769	738	736	241
25°	581	565	528	541	550	261
35°	225	224	204	284	300	145
45°	53	53	51	111	117	45
55°	9	9	11	66	75	9
65°	4	4	5	36	37	4
75°	2	2	3	16	16	2
85°	0	0	2	4	4	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3
2.5°	973.0	964.0	961.9	954.1	941.0	933.6	929.1	925.8	931.6
5°	983.7	973.8	965.6	949.6	925.4	911.9	905.3	900.0	904.5
7.5°	975.9	961.9	950.8	928.7	897.9	877.0	868.0	861.8	865.9
10°	947.6	930.7	918.0	891.8	858.1	833.1	822.0	816.2	820.3
12.5°	910.6	896.7	877.4	848.7	812.6	786.3	778.1	773.6	775.2
15°	871.6	855.2	833.9	805.2	769.0	742.8	737.9	735.0	735.8
17.5°	815.0	799.0	780.5	752.6	719.4	698.1	698.1	696.0	697.2
20°	744.4	735.8	717.8	694.4	666.0	646.8	652.9	650.9	653.3
22.5°	668.1	661.5	645.9	626.6	602.8	587.7	601.2	600.8	604.1
25°	580.7	575.8	565.1	548.7	527.7	518.3	540.9	540.9	549.5
27.5°	484.2	479.3	471.9	458.0	440.7	437.9	471.1	475.2	484.7
30°	385.8	382.5	378.4	365.6	351.3	356.6	402.6	409.6	420.2
32.5°	297.9	295.9	294.7	283.2	270.4	288.1	340.6	349.6	360.3
35°	224.9	220.4	223.7	215.0	203.5	225.7	283.6	291.4	300.0
37.5°	165.8	162.5	165.4	159.2	149.0	173.2	227.8	232.7	238.4
40°	119.0	116.1	118.6	114.9	106.7	129.3	178.5	183.8	186.3
42.5°	84.5	79.6	82.1	79.2	75.1	97.3	140.3	145.3	146.1
45°	53.3	51.7	53.3	51.7	50.9	72.2	110.8	115.3	117.4
47.5°	32.4	30.4	30.4	29.5	30.4	53.3	91.5	98.1	101.4
50°	18.5	17.6	17.2	16.8	18.5	41.9	79.2	86.6	90.7
52.5°	12.3	11.9	11.9	11.5	13.5	35.3	71.4	78.0	82.1
55°	9.0	8.6	8.6	8.6	10.7	30.4	65.7	71.0	74.7
57.5°	7.0	7.0	7.0	6.6	9.0	25.9	58.7	61.6	64.4
60°	5.7	5.3	5.3	5.3	7.4	22.2	50.5	51.7	53.3
62.5°	4.5	4.5	4.5	4.5	6.2	19.7	43.5	43.5	44.3
65°	4.1	3.7	3.7	3.7	5.3	17.2	36.5	36.1	36.9
67.5°	3.3	3.3	3.3	3.3	4.5	14.8	30.0	29.5	30.4
70°	2.9	2.9	2.9	2.9	3.7	12.3	24.2	23.8	24.6
72.5°	2.5	2.5	2.5	2.5	3.3	10.3	19.3	19.3	19.7
75°	2.1	2.1	2.1	2.1	2.9	7.8	15.6	15.6	16.0
77.5°	1.6	1.6	1.6	1.6	2.1	6.2	11.9	11.5	11.5
80°	0.8	1.2	1.2	1.2	1.6	4.5	8.6	7.8	7.8
82.5°	0.4	0.8	0.8	0.8	1.6	3.3	5.7	5.3	5.3
85°	0.4	0.4	0.4	1.2	1.6	2.5	3.7	3.7	3.7
87.5°	0.0	0.4	0.8	1.6	2.1	2.1	2.5	2.1	2.1
90°	0.0	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)