

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: P799301

Luminaire Tested: **LD6C10D010 EU6109027 6LBMDSWMW**

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: P799301
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 6LBMDSWMW
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

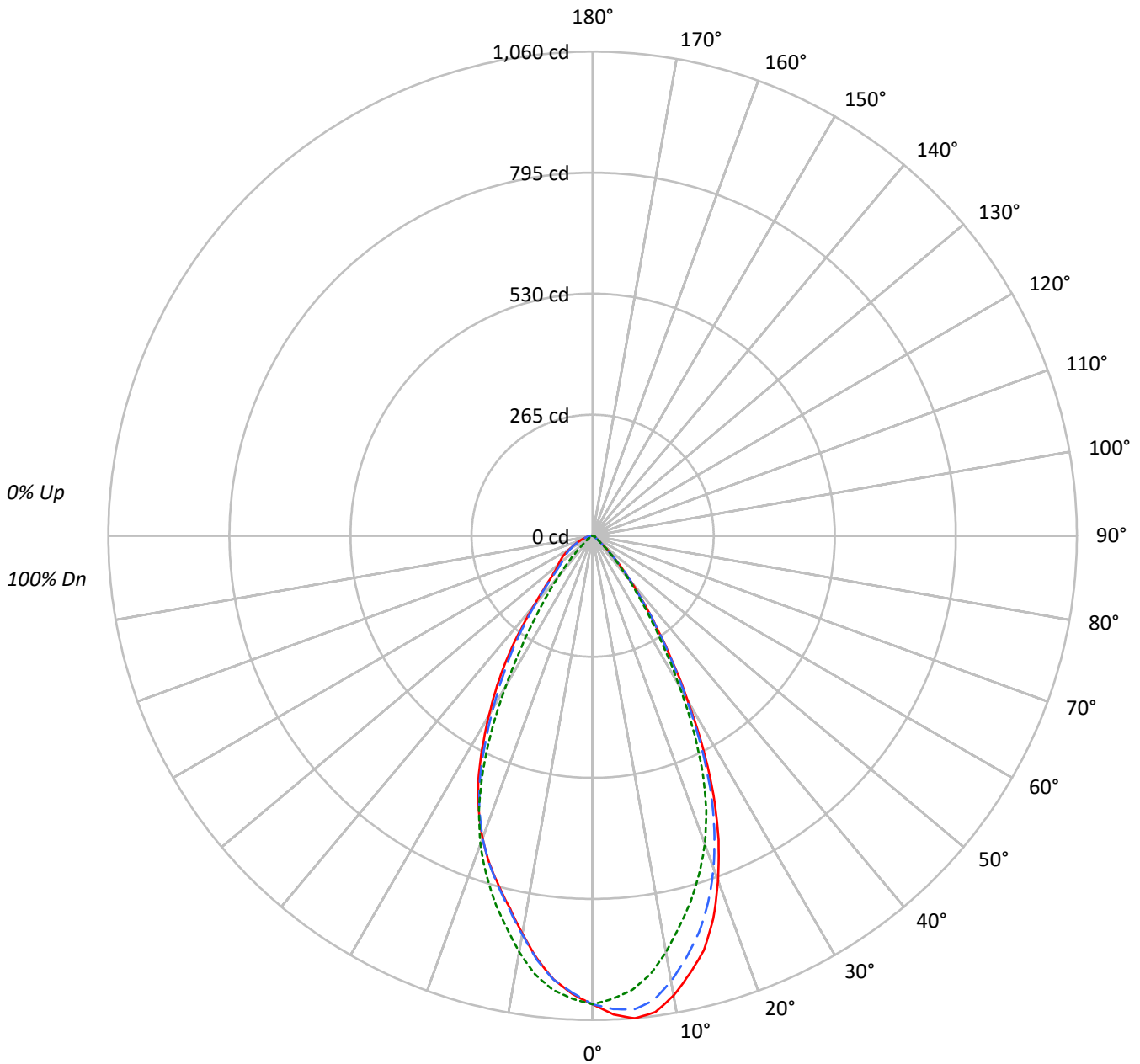
Lumens per Lamp: N/A
Luminaire Lumens: 883.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
Input Voltage (V): NR
Input Current (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									
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	57	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°	56224	56224	56224
5°	58359	54903	53665
10°	56868	51502	49236
15°	53337	47055	45023
20°	46822	41893	41094
25°	37871	34417	35833
30°	26327	23972	28682
35°	16229	14690	21643
40°	9181	8230	14377
45°	4458	4256	9807
50°	1697	1697	8341
55°	927	1099	7694
60°	680	877	6304
65°	571	752	5163
70°	497	641	4248
75°	466	657	3664
80°	284	568	2652
85°	252	1132	2516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	10.6
10°-20°	236.0	26.7
20°-30°	265.6	30.1
30°-40°	164.5	18.6
40°-50°	65.5	7.4
50°-60°	29.8	3.4
60°-70°	17.1	1.9
70°-80°	8.1	0.9
80°-90°	2.4	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°	595.5	67.4
0°-40°	760.0	86.1
0°-60°	855.3	96.9
0°-90°	883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	883.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1026	1026	1026	1026	1026	
5°	1060	1041	998	976	975	100
15°	940	899	829	796	793	260
25°	626	609	569	583	592	281
35°	242	241	220	306	323	156
45°	58	58	55	120	126	49
55°	10	9	12	71	80	10
65°	4	4	6	39	40	4
75°	2	2	3	17	17	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°	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6	1025.6
2.5°	1049.0	1039.3	1037.1	1028.7	1014.5	1006.6	1001.7	998.2	1004.4
5°	1060.5	1049.9	1041.1	1023.8	997.7	983.1	976.0	970.3	975.2
7.5°	1052.1	1037.1	1025.2	1001.3	968.1	945.5	935.8	929.1	933.6
10°	1021.6	1003.5	989.8	961.4	925.2	898.2	886.2	880.0	884.5
12.5°	981.8	966.7	946.0	915.0	876.0	847.7	838.9	834.0	835.8
15°	939.8	922.1	899.1	868.1	829.1	800.8	795.5	792.4	793.3
17.5°	878.7	861.4	841.5	811.4	775.6	752.6	752.6	750.4	751.7
20°	802.6	793.3	773.8	748.6	718.1	697.3	703.9	701.7	704.4
22.5°	720.3	713.2	696.4	675.6	650.0	633.6	648.2	647.7	651.3
25°	626.1	620.8	609.3	591.6	569.0	558.8	583.1	583.1	592.4
27.5°	522.1	516.8	508.8	493.8	475.2	472.1	507.9	512.4	522.5
30°	415.9	412.4	407.9	394.2	378.7	384.5	434.0	441.6	453.1
32.5°	321.2	319.0	317.7	305.3	291.6	310.6	367.2	377.0	388.5
35°	242.5	237.6	241.1	231.8	219.5	243.3	305.7	314.1	323.4
37.5°	178.7	175.2	178.3	171.7	160.6	186.7	245.6	250.9	257.1
40°	128.3	125.2	127.9	123.9	115.0	139.4	192.5	198.2	200.9
42.5°	91.1	85.8	88.5	85.4	81.0	104.9	151.3	156.6	157.5
45°	57.5	55.7	57.5	55.7	54.9	77.9	119.5	124.3	126.5
47.5°	35.0	32.7	32.7	31.9	32.7	57.5	98.7	105.7	109.3
50°	19.9	19.0	18.6	18.1	19.9	45.1	85.4	93.4	97.8
52.5°	13.3	12.8	12.8	12.4	14.6	38.1	77.0	84.1	88.5
55°	9.7	9.3	9.3	9.3	11.5	32.7	70.8	76.5	80.5
57.5°	7.5	7.5	7.5	7.1	9.7	27.9	63.3	66.4	69.5
60°	6.2	5.8	5.8	5.8	8.0	23.9	54.4	55.7	57.5
62.5°	4.9	4.9	4.9	4.9	6.6	21.2	46.9	46.9	47.8
65°	4.4	4.0	4.0	4.0	5.8	18.6	39.4	38.9	39.8
67.5°	3.5	3.5	3.5	3.5	4.9	15.9	32.3	31.9	32.7
70°	3.1	3.1	3.1	3.1	4.0	13.3	26.1	25.7	26.5
72.5°	2.7	2.7	2.7	2.7	3.5	11.1	20.8	20.8	21.2
75°	2.2	2.2	2.2	2.2	3.1	8.4	16.8	16.8	17.3
77.5°	1.8	1.8	1.8	1.8	2.2	6.6	12.8	12.4	12.4
80°	0.9	1.3	1.3	1.3	1.8	4.9	9.3	8.4	8.4
82.5°	0.4	0.9	0.9	0.9	1.8	3.5	6.2	5.8	5.8
85°	0.4	0.4	0.4	1.3	1.8	2.7	4.0	4.0	4.0
87.5°	0.0	0.4	0.9	1.8	2.2	2.2	2.7	2.2	2.2
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)