

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: P859061

Luminaire Tested: **LD4C55D010 EU4559027 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C55D010 EU4559027 4LBMDSWMW
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

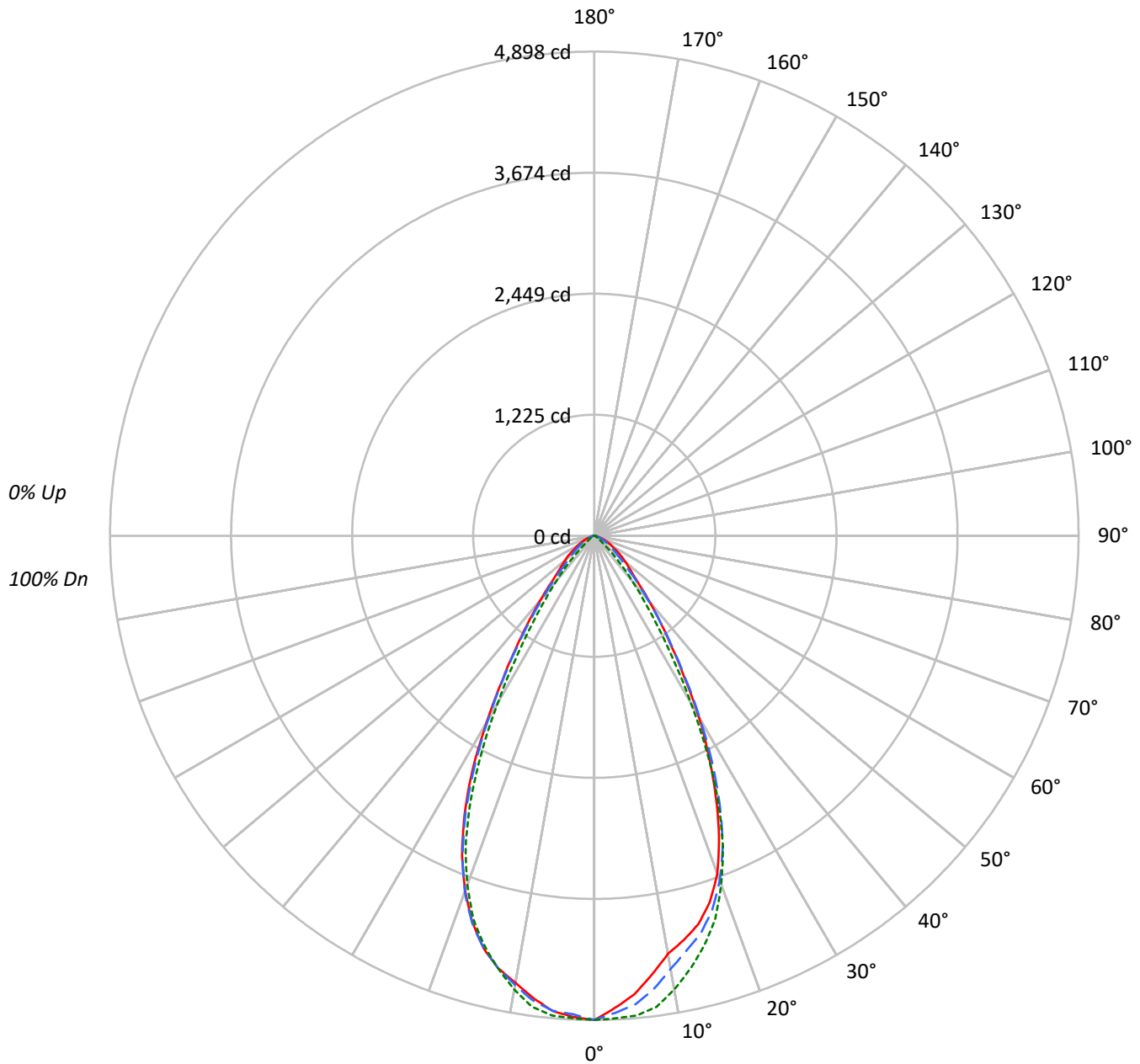
Lumens per Lamp: N/A
Luminaire Lumens: 4459.0 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	113	110	107	105	111	108	105	103		104	102	100			100	99	97			97
2	107	102	97	94	105	100	96	93		97	93	91			94	91	89			91
3	101	94	89	85	99	93	88	84		90	86	83			88	84	81			85
4	96	88	82	77	94	86	81	77		84	80	76			82	78	75			80
5	91	82	75	71	89	81	75	71		79	74	70			77	73	69			76
6	86	76	70	66	84	76	70	65		74	69	65			73	68	64			71
7	81	72	65	61	80	71	65	61		70	64	60			68	64	60			67
8	77	67	61	57	76	67	61	57		66	60	56			65	60	56			64
9	74	63	57	53	72	63	57	53		62	57	53			61	56	53			60
10	70	60	54	50	69	60	54	50		59	53	50			58	53	50			57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	601749	601749	601749
5°	574203	600791	595193
10°	535546	581316	572821
15°	517143	546015	549856
20°	475703	490542	499445
25°	394272	401456	420935
30°	299932	277405	308529
35°	203083	166204	205348
40°	138306	95230	134056
45°	95940	47970	90693
50°	78075	19514	73010
55°	63186	12144	57510
60°	50173	9288	45529
65°	39593	7703	35174
70°	29885	6789	27155
75°	21550	5364	19746
80°	16060	5377	13371
85°	10713	5356	10713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.3	10.1
10°-20°	1183.3	26.5
20°-30°	1357.6	30.4
30°-40°	824.7	18.5
40°-50°	353.4	7.9
50°-60°	169.6	3.8
60°-70°	82.5	1.8
70°-80°	30.6	0.7
80°-90°	7.1	0.2
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°	2991.2	67.1
0°-40°	3815.9	85.6
0°-60°	4338.9	97.3
0°-90°	4459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4459.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4898	4898	4898	4898	4898	
5°	4656	4758	4872	4822	4826	433
15°	4066	4161	4293	4319	4323	1132
25°	2909	3003	2962	3075	3105	1319
35°	1354	1373	1108	1339	1369	868
45°	552	492	276	442	522	449
55°	295	219	57	197	268	266
65°	136	91	26	83	121	138
75°	45	30	11	26	42	50
85°	8	8	4	4	8	10
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°	4898.1	4898.1	4898.1	4898.1	4898.1	4898.1	4898.1	4898.1	4898.1
2.5°	4780.9	4833.8	4830.1	4875.5	4886.8	4875.5	4845.2	4875.5	4871.7
5°	4656.1	4716.6	4758.2	4833.8	4871.7	4864.1	4822.5	4830.1	4826.3
7.5°	4474.5	4550.2	4622.0	4735.5	4807.4	4803.6	4743.1	4731.7	4716.6
10°	4293.0	4364.8	4448.0	4565.3	4659.9	4675.0	4614.5	4599.3	4591.8
12.5°	4187.1	4243.8	4300.5	4402.7	4485.9	4516.1	4482.1	4485.9	4482.1
15°	4066.0	4122.8	4160.6	4236.2	4293.0	4334.6	4319.4	4342.1	4323.2
17.5°	3884.5	3952.6	3967.7	4024.4	4066.0	4092.5	4107.6	4130.3	4100.1
20°	3638.6	3691.6	3710.5	3733.2	3752.1	3786.1	3831.5	3854.2	3820.2
22.5°	3294.4	3396.6	3392.8	3381.4	3400.3	3411.7	3483.5	3521.4	3494.9
25°	2908.6	3014.5	3003.2	2957.8	2961.6	2984.3	3075.1	3124.2	3105.3
27.5°	2503.9	2602.3	2575.8	2488.8	2466.1	2500.1	2617.4	2674.1	2662.8
30°	2114.3	2178.6	2137.0	1982.0	1955.5	1997.1	2148.4	2205.1	2174.9
32.5°	1694.5	1743.7	1724.8	1535.6	1490.2	1531.9	1709.6	1762.6	1728.5
35°	1354.1	1399.5	1373.0	1149.8	1108.2	1153.6	1339.0	1399.5	1369.2
37.5°	1085.5	1119.6	1085.5	847.2	809.4	854.8	1032.6	1112.0	1074.2
40°	862.4	888.9	843.5	624.1	593.8	616.5	782.9	862.4	835.9
42.5°	680.8	699.7	650.6	457.7	423.6	453.9	590.0	661.9	646.8
45°	552.2	552.2	491.7	317.7	276.1	306.4	442.5	518.2	522.0
47.5°	472.8	461.4	385.8	211.8	158.9	200.5	351.8	431.2	442.5
50°	408.5	393.4	317.7	155.1	102.1	143.7	291.2	370.7	382.0
52.5°	351.8	340.4	264.8	121.0	71.9	109.7	245.9	321.5	332.8
55°	295.0	287.5	219.4	94.6	56.7	83.2	196.7	261.0	268.5
57.5°	242.1	230.7	177.8	79.4	45.4	68.1	162.6	215.6	223.2
60°	204.2	192.9	143.7	64.3	37.8	53.0	132.4	177.8	185.3
62.5°	170.2	158.9	117.3	53.0	30.3	45.4	105.9	143.7	151.3
65°	136.2	128.6	90.8	41.6	26.5	34.0	83.2	113.5	121.0
67.5°	109.7	102.1	71.9	34.0	22.7	26.5	64.3	90.8	98.3
70°	83.2	75.6	53.0	26.5	18.9	22.7	49.2	68.1	75.6
72.5°	60.5	56.7	41.6	22.7	15.1	18.9	34.0	49.2	56.7
75°	45.4	41.6	30.3	15.1	11.3	15.1	26.5	37.8	41.6
77.5°	30.3	30.3	22.7	11.3	11.3	11.3	18.9	26.5	26.5
80°	22.7	18.9	15.1	7.6	7.6	7.6	11.3	18.9	18.9
82.5°	15.1	11.3	11.3	7.6	7.6	7.6	7.6	11.3	11.3
85°	7.6	7.6	7.6	3.8	3.8	3.8	3.8	7.6	7.6
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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)