

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: P856925

Luminaire Tested: **LD4C15D010 EU4159030 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856925
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: LD4C15D010 EU4159030 4LBMDSWMW
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

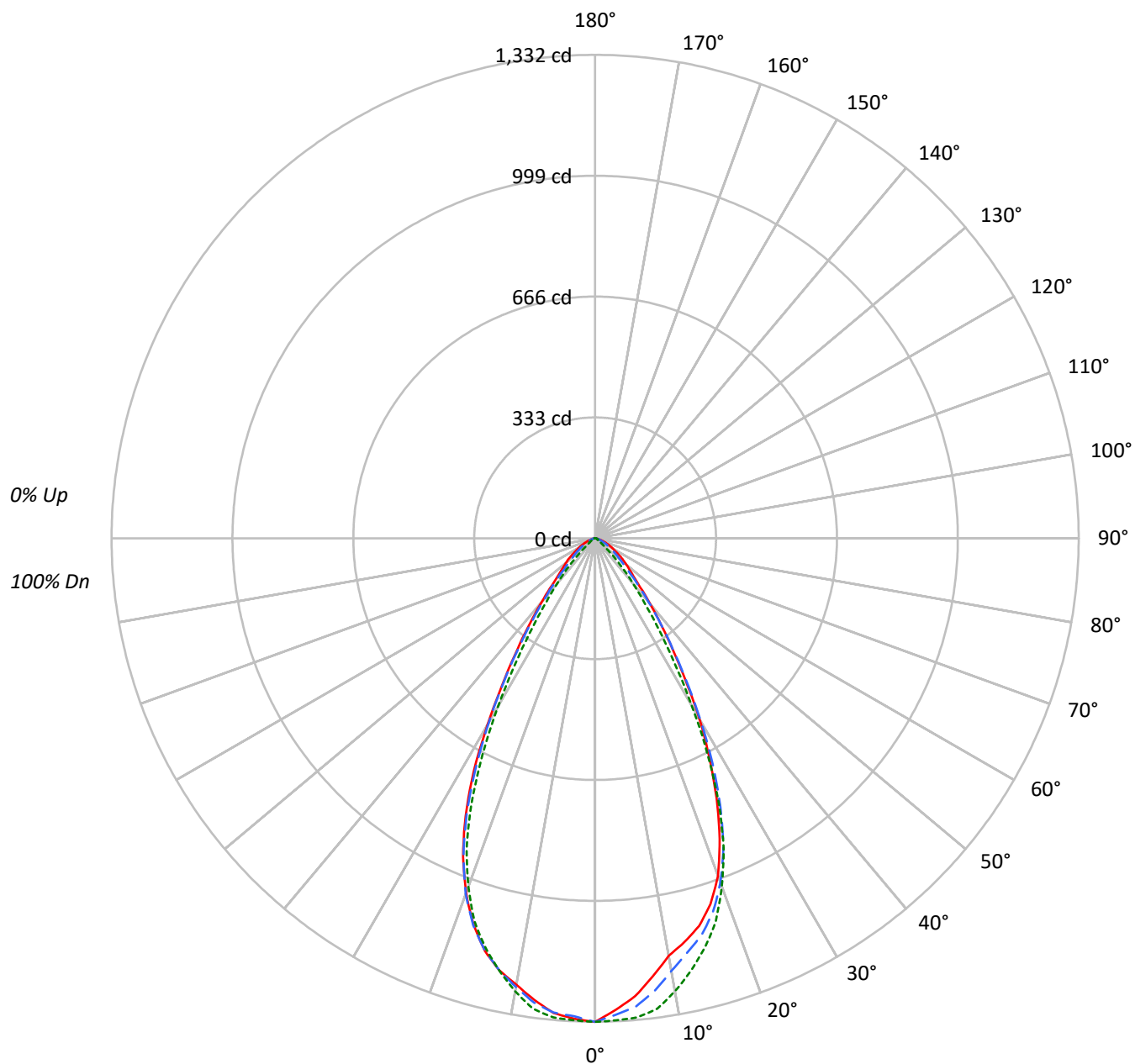
Lumens per Lamp: N/A
Luminaire Lumens: 1213.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	163702	163702	163702
5°	156201	163440	161910
10°	145682	158131	155824
15°	140682	148529	149585
20°	129404	133444	135863
25°	107250	109216	114516
30°	81597	75469	83924
35°	55251	45218	55866
40°	37624	25900	36469
45°	26096	13048	24671
50°	21234	5313	19858
55°	17199	3299	15657
60°	13661	2531	12384
65°	10756	2093	9564
70°	8118	1832	7400
75°	5838	1471	5364
80°	4386	1486	3608
85°	2960	1410	2960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	10.1
10°-20°	321.9	26.5
20°-30°	369.3	30.4
30°-40°	224.4	18.5
40°-50°	96.1	7.9
50°-60°	46.1	3.8
60°-70°	22.4	1.8
70°-80°	8.3	0.7
80°-90°	1.9	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°	813.7	67.1
0°-40°	1038.1	85.6
0°-60°	1180.3	97.3
0°-90°	1213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1213.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1332	1332	1332	1332	1332	
5°	1267	1294	1325	1312	1313	118
15°	1106	1132	1168	1175	1176	308
25°	791	817	806	836	845	359
35°	368	374	302	364	372	236
45°	150	134	75	120	142	122
55°	80	60	15	54	73	72
65°	37	25	7	23	33	38
75°	12	8	3	7	11	14
85°	2	2	1	1	2	3
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°	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5
2.5°	1300.6	1315.0	1313.9	1326.3	1329.4	1326.3	1318.1	1326.3	1325.3
5°	1266.6	1283.1	1294.4	1315.0	1325.3	1323.2	1311.9	1313.9	1312.9
7.5°	1217.2	1237.8	1257.4	1288.2	1307.8	1306.7	1290.3	1287.2	1283.1
10°	1167.8	1187.4	1210.0	1241.9	1267.6	1271.8	1255.3	1251.2	1249.1
12.5°	1139.0	1154.5	1169.9	1197.7	1220.3	1228.5	1219.3	1220.3	1219.3
15°	1106.1	1121.5	1131.8	1152.4	1167.8	1179.2	1175.0	1181.2	1176.1
17.5°	1056.7	1075.2	1079.3	1094.8	1106.1	1113.3	1117.4	1123.6	1115.4
20°	989.8	1004.2	1009.4	1015.6	1020.7	1030.0	1042.3	1048.5	1039.2
22.5°	896.2	924.0	922.9	919.9	925.0	928.1	947.6	957.9	950.7
25°	791.2	820.1	817.0	804.6	805.7	811.8	836.5	849.9	844.8
27.5°	681.2	707.9	700.7	677.0	670.9	680.1	712.0	727.5	724.4
30°	575.2	592.7	581.3	539.2	532.0	543.3	584.4	599.9	591.6
32.5°	461.0	474.3	469.2	417.7	405.4	416.7	465.1	479.5	470.2
35°	368.4	380.7	373.5	312.8	301.5	313.8	364.2	380.7	372.5
37.5°	295.3	304.6	295.3	230.5	220.2	232.5	280.9	302.5	292.2
40°	234.6	241.8	229.5	169.8	161.5	167.7	213.0	234.6	227.4
42.5°	185.2	190.4	177.0	124.5	115.2	123.5	160.5	180.1	175.9
45°	150.2	150.2	133.8	86.4	75.1	83.3	120.4	141.0	142.0
47.5°	128.6	125.5	105.0	57.6	43.2	54.5	95.7	117.3	120.4
50°	111.1	107.0	86.4	42.2	27.8	39.1	79.2	100.8	103.9
52.5°	95.7	92.6	72.0	32.9	19.5	29.8	66.9	87.5	90.5
55°	80.3	78.2	59.7	25.7	15.4	22.6	53.5	71.0	73.1
57.5°	65.9	62.8	48.4	21.6	12.3	18.5	44.2	58.6	60.7
60°	55.6	52.5	39.1	17.5	10.3	14.4	36.0	48.4	50.4
62.5°	46.3	43.2	31.9	14.4	8.2	12.3	28.8	39.1	41.2
65°	37.0	35.0	24.7	11.3	7.2	9.3	22.6	30.9	32.9
67.5°	29.8	27.8	19.5	9.3	6.2	7.2	17.5	24.7	26.8
70°	22.6	20.6	14.4	7.2	5.1	6.2	13.4	18.5	20.6
72.5°	16.5	15.4	11.3	6.2	4.1	5.1	9.3	13.4	15.4
75°	12.3	11.3	8.2	4.1	3.1	4.1	7.2	10.3	11.3
77.5°	8.2	8.2	6.2	3.1	3.1	3.1	5.1	7.2	7.2
80°	6.2	5.1	4.1	2.1	2.1	2.1	3.1	5.1	5.1
82.5°	4.1	3.1	3.1	2.1	2.1	2.1	2.1	3.1	3.1
85°	2.1	2.1	2.1	1.0	1.0	1.0	1.0	2.1	2.1
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)