

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: P856904

Luminaire Tested: **LD4C15D010 EU4159027 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856904
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 EU4159027 4LBMDSWWMH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

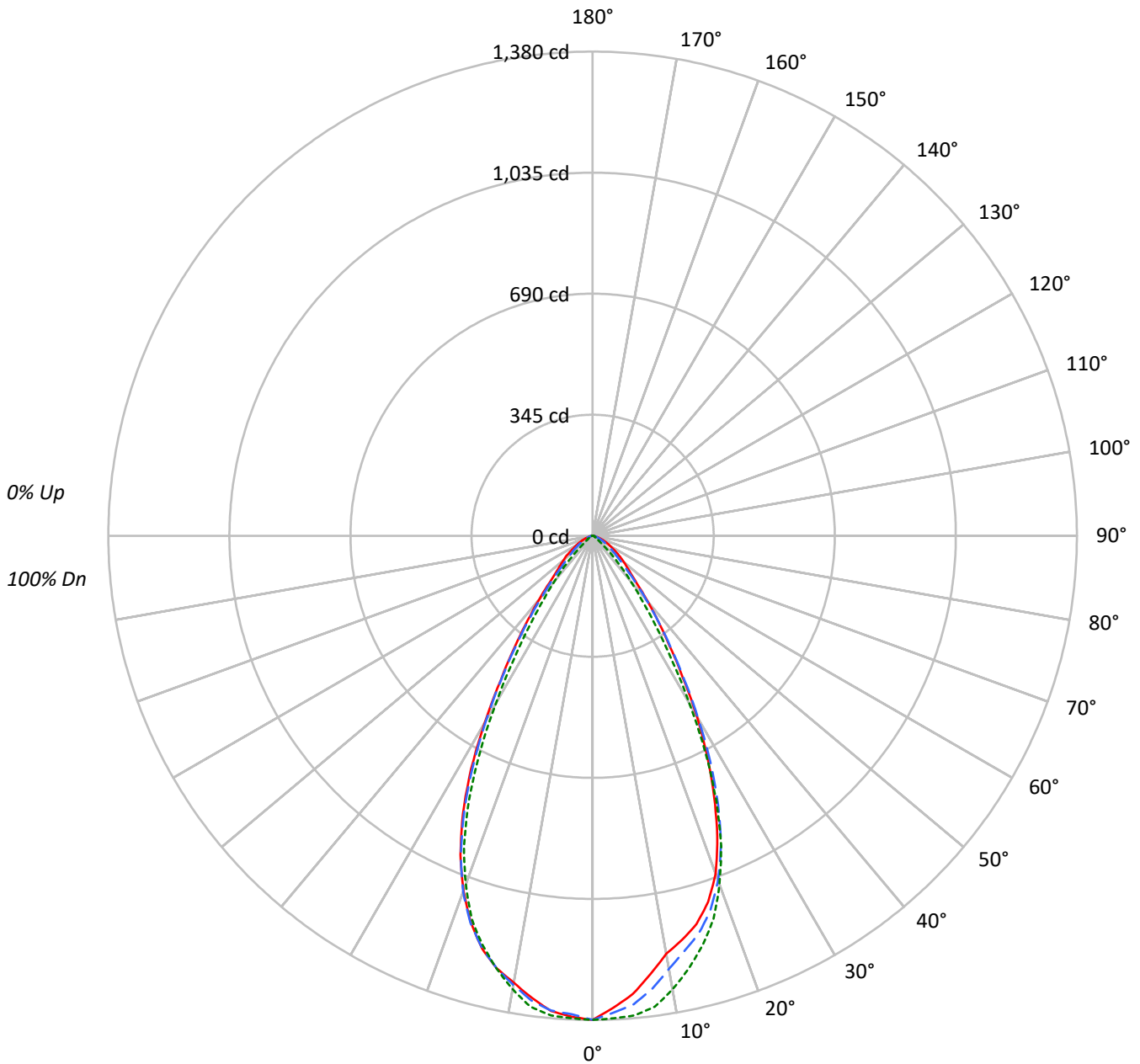
Lumens per Lamp: N/A
Luminaire Lumens: 1256.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
Input Voltage (V): NR
Input Current (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					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				
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92				92				
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85				
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78				78				
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72				72				
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67				67				
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62				62				
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58				58				
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55				55				
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51				51				
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48				48				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	169501	169501	169501
5°	161738	169223	167657
10°	150846	163745	161350
15°	145668	153795	154889
20°	133993	138177	140687
25°	111059	113079	118569
30°	84491	78136	86903
35°	57201	46823	57846
40°	38955	26831	37768
45°	27017	13517	25540
50°	21999	5504	20565
55°	17799	3427	16193
60°	14128	2629	12826
65°	11163	2180	9913
70°	8405	1904	7651
75°	6076	1519	5554
80°	4528	1486	3750
85°	2960	1551	2960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	10.1
10°-20°	333.3	26.5
20°-30°	382.4	30.4
30°-40°	232.3	18.5
40°-50°	99.6	7.9
50°-60°	47.8	3.8
60°-70°	23.2	1.8
70°-80°	8.6	0.7
80°-90°	2.0	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°	842.5	67.1
0°-40°	1074.9	85.6
0°-60°	1222.2	97.3
0°-90°	1256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1256.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1380	1380	1380	1380	1380	
5°	1312	1340	1372	1358	1360	122
15°	1145	1172	1209	1217	1218	319
25°	819	846	834	866	875	372
35°	381	387	312	377	386	244
45°	156	138	78	125	147	126
55°	83	62	16	55	76	75
65°	38	26	8	23	34	39
75°	13	8	3	8	12	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°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1346.7	1361.6	1360.5	1373.3	1376.5	1373.3	1364.8	1373.3	1372.2
5°	1311.5	1328.6	1340.3	1361.6	1372.2	1370.1	1358.4	1360.5	1359.5
7.5°	1260.4	1281.7	1301.9	1333.9	1354.1	1353.1	1336.0	1332.8	1328.6
10°	1209.2	1229.5	1252.9	1285.9	1312.6	1316.8	1299.8	1295.5	1293.4
12.5°	1179.4	1195.4	1211.4	1240.1	1263.6	1272.1	1262.5	1263.6	1262.5
15°	1145.3	1161.3	1171.9	1193.3	1209.2	1221.0	1216.7	1223.1	1217.8
17.5°	1094.2	1113.3	1117.6	1133.6	1145.3	1152.8	1157.0	1163.4	1154.9
20°	1024.9	1039.8	1045.2	1051.6	1056.9	1066.5	1079.3	1085.6	1076.1
22.5°	928.0	956.7	955.7	952.5	957.8	961.0	981.2	991.9	984.4
25°	819.3	849.1	845.9	833.1	834.2	840.6	866.2	880.0	874.7
27.5°	705.3	733.0	725.5	701.0	694.6	704.2	737.3	753.2	750.0
30°	595.6	613.7	602.0	558.3	550.8	562.5	605.1	621.1	612.6
32.5°	477.3	491.2	485.8	432.6	419.8	431.5	481.6	496.5	486.9
35°	381.4	394.2	386.7	323.9	312.2	324.9	377.2	394.2	385.7
37.5°	305.8	315.4	305.8	238.7	228.0	240.8	290.9	313.2	302.6
40°	242.9	250.4	237.6	175.8	167.3	173.7	220.5	242.9	235.5
42.5°	191.8	197.1	183.2	128.9	119.3	127.8	166.2	186.4	182.2
45°	155.5	155.5	138.5	89.5	77.8	86.3	124.7	146.0	147.0
47.5°	133.2	130.0	108.7	59.7	44.7	56.5	99.1	121.5	124.7
50°	115.1	110.8	89.5	43.7	28.8	40.5	82.0	104.4	107.6
52.5°	99.1	95.9	74.6	34.1	20.2	30.9	69.3	90.6	93.8
55°	83.1	81.0	61.8	26.6	16.0	23.4	55.4	73.5	75.6
57.5°	68.2	65.0	50.1	22.4	12.8	19.2	45.8	60.7	62.9
60°	57.5	54.3	40.5	18.1	10.7	14.9	37.3	50.1	52.2
62.5°	47.9	44.7	33.0	14.9	8.5	12.8	29.8	40.5	42.6
65°	38.4	36.2	25.6	11.7	7.5	9.6	23.4	32.0	34.1
67.5°	30.9	28.8	20.2	9.6	6.4	7.5	18.1	25.6	27.7
70°	23.4	21.3	14.9	7.5	5.3	6.4	13.9	19.2	21.3
72.5°	17.0	16.0	11.7	6.4	4.3	5.3	9.6	13.9	16.0
75°	12.8	11.7	8.5	4.3	3.2	4.3	7.5	10.7	11.7
77.5°	8.5	8.5	6.4	3.2	3.2	3.2	5.3	7.5	7.5
80°	6.4	5.3	4.3	2.1	2.1	2.1	3.2	5.3	5.3
82.5°	4.3	3.2	3.2	2.1	2.1	2.1	2.1	3.2	3.2
85°	2.1	2.1	2.1	1.1	1.1	1.1	1.1	2.1	2.1
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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)