

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: P856971

Luminaire Tested: **LD4C15D010 EU4159040 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856971
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 EU4159040 4LBMDSWMW
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

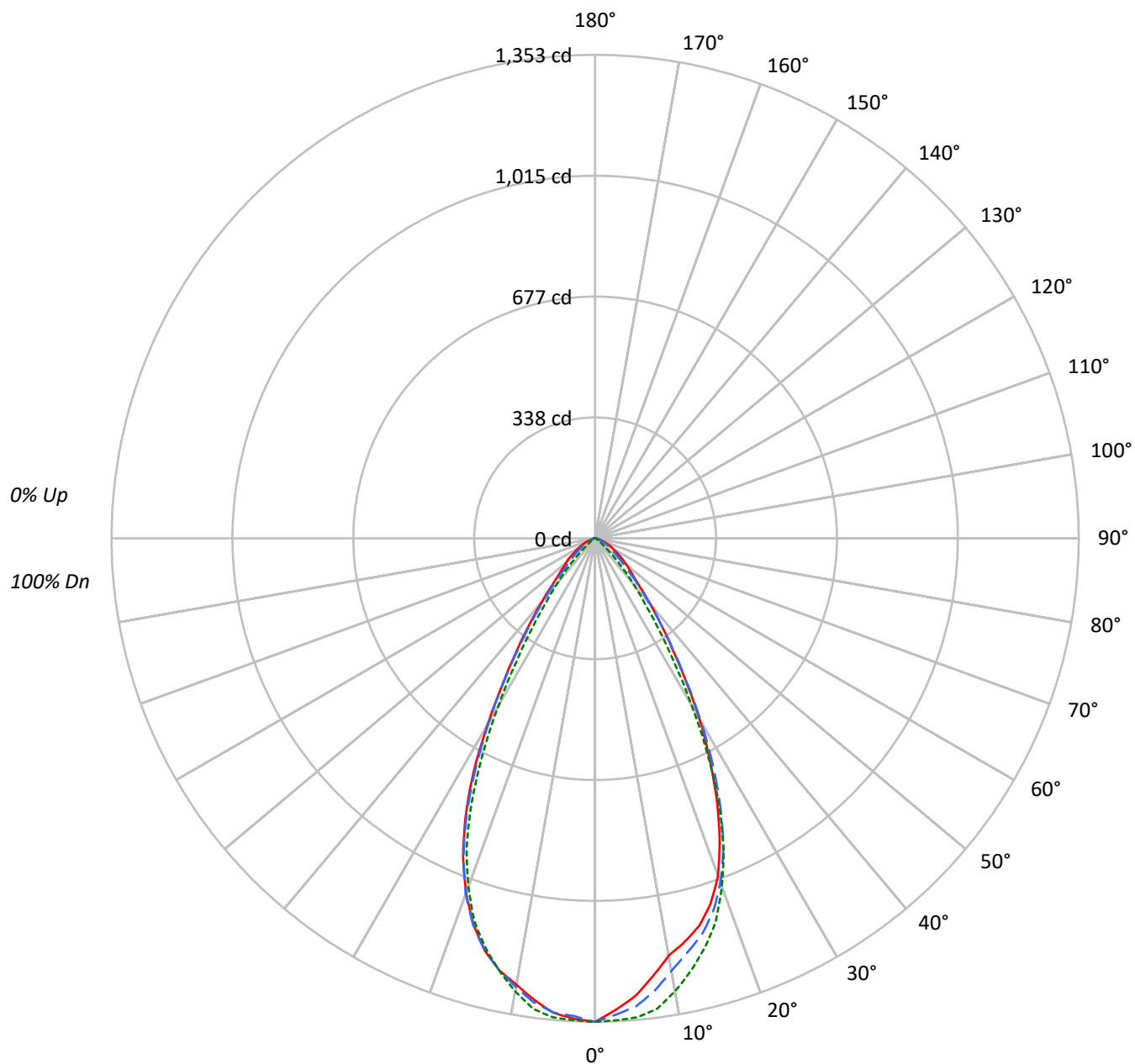
Lumens per Lamp: N/A
Luminaire Lumens: 1232.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	50	30	10
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	111	108	105	103	104	102	100	100	99	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	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67		
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62		
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58		
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51		
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	166258	166258	166258
5°	158655	165992	164451
10°	147964	160614	158269
15°	142882	150857	151925
20°	131431	135536	137994
25°	108931	110924	116305
30°	82874	76646	85243
35°	56106	45923	56736
40°	38217	26317	37046
45°	26513	13256	25053
50°	21578	5390	20164
55°	17456	3363	15893
60°	13858	2580	12580
65°	10930	2122	9709
70°	8262	1868	7507
75°	5933	1471	5459
80°	4457	1486	3679
85°	2960	1410	2960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	10.1
10°-20°	326.9	26.5
20°-30°	375.1	30.4
30°-40°	227.9	18.5
40°-50°	97.7	7.9
50°-60°	46.8	3.8
60°-70°	22.8	1.8
70°-80°	8.5	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°	826.5	67.1
0°-40°	1054.3	85.6
0°-60°	1198.8	97.3
0°-90°	1232.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1232.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1353	1353	1353	1353	1353	
5°	1286	1315	1346	1332	1334	120
15°	1123	1150	1186	1193	1194	313
25°	804	830	818	850	858	365
35°	374	379	306	370	378	240
45°	153	136	76	122	144	124
55°	82	61	16	54	74	74
65°	38	25	7	23	33	38
75°	12	8	3	7	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°	1353.3	1353.3	1353.3	1353.3	1353.3	1353.3	1353.3	1353.3	1353.3
2.5°	1320.9	1335.6	1334.5	1347.1	1350.2	1347.1	1338.7	1347.1	1346.0
5°	1286.5	1303.2	1314.7	1335.6	1346.0	1343.9	1332.4	1334.5	1333.5
7.5°	1236.3	1257.2	1277.0	1308.4	1328.3	1327.2	1310.5	1307.4	1303.2
10°	1186.1	1206.0	1229.0	1261.4	1287.5	1291.7	1275.0	1270.8	1268.7
12.5°	1156.9	1172.5	1188.2	1216.4	1239.4	1247.8	1238.4	1239.4	1238.4
15°	1123.4	1139.1	1149.6	1170.5	1186.1	1197.6	1193.4	1199.7	1194.5
17.5°	1073.3	1092.1	1096.3	1111.9	1123.4	1130.7	1134.9	1141.2	1132.8
20°	1005.3	1020.0	1025.2	1031.5	1036.7	1046.1	1058.6	1064.9	1055.5
22.5°	910.2	938.5	937.4	934.3	939.5	942.6	962.5	972.9	965.6
25°	803.6	832.9	829.8	817.2	818.3	824.5	849.6	863.2	858.0
27.5°	691.8	719.0	711.7	687.6	681.4	690.8	723.2	738.8	735.7
30°	584.2	601.9	590.5	547.6	540.3	551.8	593.6	609.3	600.9
32.5°	468.2	481.8	476.5	424.3	411.7	423.2	472.4	487.0	477.6
35°	374.1	386.7	379.4	317.7	306.2	318.7	369.9	386.7	378.3
37.5°	299.9	309.3	299.9	234.1	223.6	236.2	285.3	307.2	296.8
40°	238.3	245.6	233.0	172.4	164.1	170.3	216.3	238.3	231.0
42.5°	188.1	193.3	179.7	126.5	117.0	125.4	163.0	182.9	178.7
45°	152.6	152.6	135.9	87.8	76.3	84.6	122.3	143.2	144.2
47.5°	130.6	127.5	106.6	58.5	43.9	55.4	97.2	119.1	122.3
50°	112.9	108.7	87.8	42.8	28.2	39.7	80.5	102.4	105.5
52.5°	97.2	94.1	73.2	33.4	19.9	30.3	67.9	88.8	92.0
55°	81.5	79.4	60.6	26.1	15.7	23.0	54.3	72.1	74.2
57.5°	66.9	63.7	49.1	21.9	12.5	18.8	44.9	59.6	61.7
60°	56.4	53.3	39.7	17.8	10.5	14.6	36.6	49.1	51.2
62.5°	47.0	43.9	32.4	14.6	8.4	12.5	29.3	39.7	41.8
65°	37.6	35.5	25.1	11.5	7.3	9.4	23.0	31.4	33.4
67.5°	30.3	28.2	19.9	9.4	6.3	7.3	17.8	25.1	27.2
70°	23.0	20.9	14.6	7.3	5.2	6.3	13.6	18.8	20.9
72.5°	16.7	15.7	11.5	6.3	4.2	5.2	9.4	13.6	15.7
75°	12.5	11.5	8.4	4.2	3.1	4.2	7.3	10.5	11.5
77.5°	8.4	8.4	6.3	3.1	3.1	3.1	5.2	7.3	7.3
80°	6.3	5.2	4.2	2.1	2.1	2.1	3.1	5.2	5.2
82.5°	4.2	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)