

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: P856993

Luminaire Tested: **LD4C15D010 EU4159050 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C15D010 EU4159050 4LBMDSWLI
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

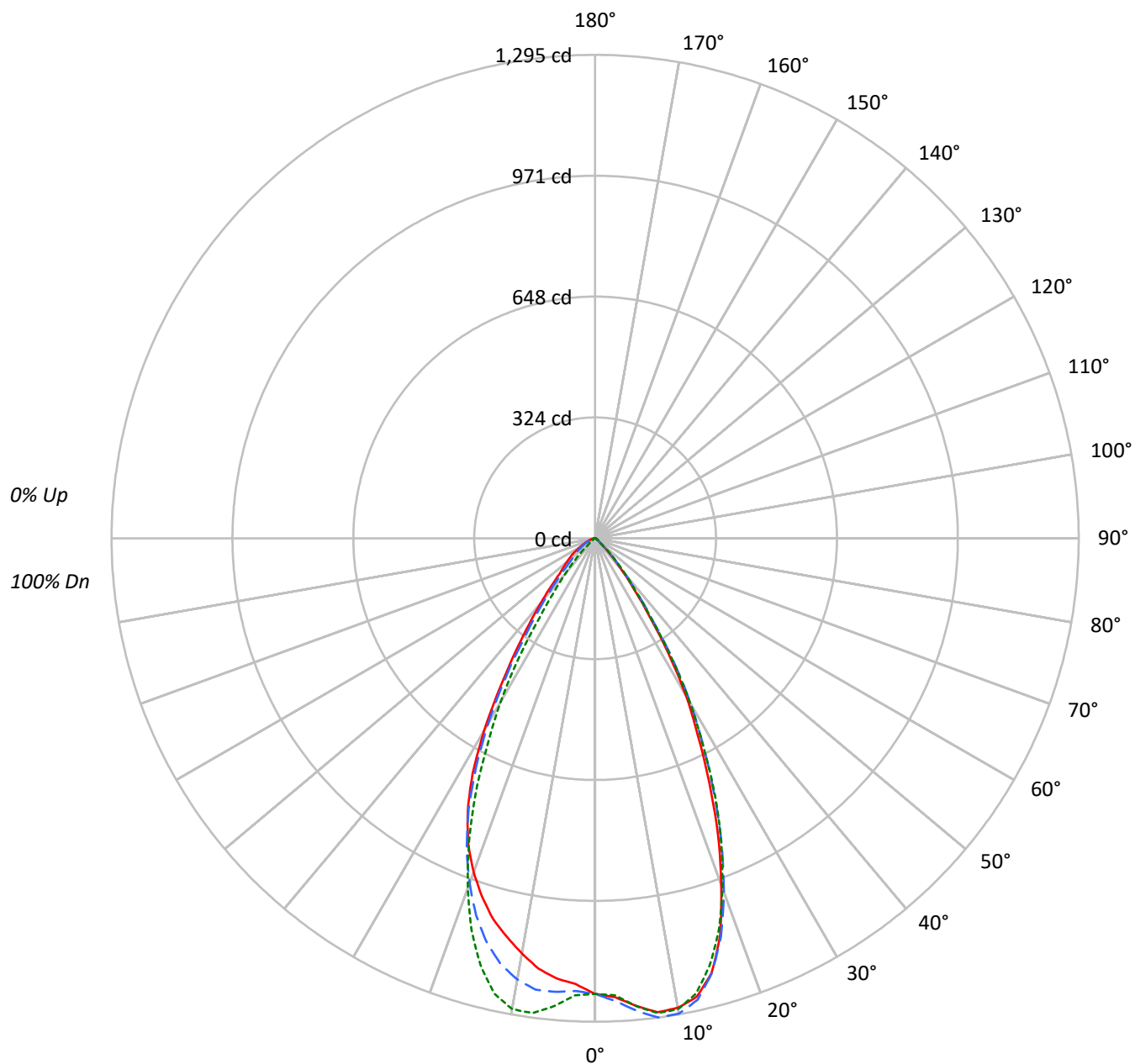
Lumens per Lamp: N/A
Luminaire Lumens: 1085.0 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	113	111	108	106	111	108	106	104		104	103	101			101	99	98			97
2	108	103	99	95	105	101	97	94		98	95	92			95	92	90			92
3	102	96	91	87	100	94	90	86		92	88	85			89	86	83			87
4	97	89	84	80	95	88	83	79		86	82	78			84	80	77			82
5	92	84	78	74	91	83	77	73		81	76	73			79	75	72			78
6	88	79	73	68	86	78	72	68		76	71	68			75	71	67			74
7	83	74	68	64	82	73	68	64		72	67	63			71	66	63			70
8	79	70	64	60	78	69	64	60		68	63	59			67	63	59			66
9	76	66	60	56	75	66	60	56		65	60	56			64	59	56			63
10	72	63	57	53	71	62	57	53		61	56	53			61	56	53			60

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	149930	149930	149930
5°	155029	155140	145965
10°	159329	159741	140879
15°	153299	150653	134284
20°	129078	130280	124384
25°	98060	103034	109487
30°	68958	71809	84250
35°	37209	38964	55746
40°	17946	19822	36164
45°	6394	8704	23507
50°	2389	3039	18845
55°	1799	2142	15572
60°	1425	1646	11278
65°	1221	1453	8750
70°	898	1185	6897
75°	807	1187	5174
80°	566	1203	3537
85°	0	1128	2396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	11.0
10°-20°	320.5	29.5
20°-30°	347.7	32.0
30°-40°	192.9	17.8
40°-50°	61.4	5.7
50°-60°	24.8	2.3
60°-70°	12.5	1.2
70°-80°	5.2	0.5
80°-90°	1.1	0.1
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°	787.1	72.5
0°-40°	980.0	90.3
0°-60°	1066.2	98.3
0°-90°	1085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1085.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1220	1220	1220	1220	1220	
5°	1257	1270	1258	1220	1184	121
15°	1205	1206	1184	1121	1056	330
25°	723	753	760	801	808	330
35°	248	268	260	343	372	165
45°	37	43	50	112	135	35
55°	8	8	10	54	73	8
65°	4	4	5	24	30	4
75°	2	2	2	8	11	2
85°	0	0	1	2	2	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°	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4
2.5°	1230.4	1241.3	1240.4	1232.1	1225.4	1222.9	1213.7	1202.8	1195.3
5°	1257.1	1270.5	1270.5	1263.8	1258.0	1243.8	1219.5	1196.2	1183.6
7.5°	1280.5	1293.9	1294.7	1289.7	1283.0	1259.6	1219.5	1182.0	1162.7
10°	1277.2	1287.2	1293.1	1288.0	1280.5	1249.6	1200.3	1150.2	1129.3
12.5°	1258.0	1267.2	1266.3	1258.8	1248.8	1217.0	1168.6	1116.8	1093.4
15°	1205.3	1210.4	1206.2	1197.8	1184.5	1160.2	1121.0	1076.7	1055.8
17.5°	1114.3	1121.0	1119.3	1105.9	1100.9	1077.5	1059.2	1024.9	1006.5
20°	987.3	1008.2	1008.2	998.2	996.5	980.6	983.2	964.8	951.4
22.5°	859.5	877.9	883.8	879.6	882.9	875.4	898.8	893.8	887.1
25°	723.4	741.8	753.4	751.8	760.1	760.1	801.1	811.1	807.7
27.5°	595.6	613.1	626.5	629.8	624.8	634.0	690.0	710.0	710.0
30°	486.1	500.3	512.9	512.9	506.2	512.9	572.2	595.6	593.9
32.5°	362.5	378.4	390.1	388.4	382.6	391.8	454.4	477.8	471.9
35°	248.1	258.9	268.1	264.8	259.8	274.8	343.3	372.5	371.7
37.5°	167.9	177.9	183.8	181.3	179.6	197.1	259.8	292.4	290.7
40°	111.9	118.6	122.8	122.0	123.6	138.7	195.5	225.5	225.5
42.5°	71.0	75.2	79.4	79.4	83.5	99.4	148.7	174.6	174.6
45°	36.8	39.3	43.4	45.9	50.1	66.8	111.9	133.6	135.3
47.5°	17.5	18.4	20.0	20.9	24.2	41.8	86.0	109.4	114.4
50°	12.5	13.4	13.4	13.4	15.9	31.7	72.7	94.4	98.6
52.5°	10.0	10.0	10.0	10.9	12.5	26.7	62.6	81.9	85.2
55°	8.4	8.4	8.4	8.4	10.0	21.7	53.5	70.2	72.7
57.5°	6.7	6.7	6.7	6.7	8.4	17.5	44.3	56.0	56.8
60°	5.8	5.8	5.8	5.8	6.7	15.0	35.9	45.9	45.9
62.5°	5.0	5.0	5.0	5.0	5.8	12.5	30.1	37.6	36.8
65°	4.2	4.2	4.2	4.2	5.0	10.0	24.2	30.1	30.1
67.5°	3.3	3.3	3.3	3.3	4.2	8.4	19.2	24.2	24.2
70°	2.5	2.5	2.5	2.5	3.3	6.7	15.9	19.2	19.2
72.5°	2.5	2.5	2.5	2.5	2.5	5.0	11.7	15.0	14.2
75°	1.7	1.7	1.7	1.7	2.5	4.2	8.4	10.9	10.9
77.5°	1.7	1.7	1.7	1.7	1.7	3.3	6.7	7.5	7.5
80°	0.8	0.8	0.8	0.8	1.7	2.5	4.2	5.0	5.0
82.5°	0.0	0.8	0.0	0.8	0.8	1.7	3.3	3.3	3.3
85°	0.0	0.0	0.0	0.0	0.8	0.8	1.7	2.5	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
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)