

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: P856924

Luminaire Tested: **LD4C15D010 EU4159030 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856924
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 EU4159030 4LBMDSWLI
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

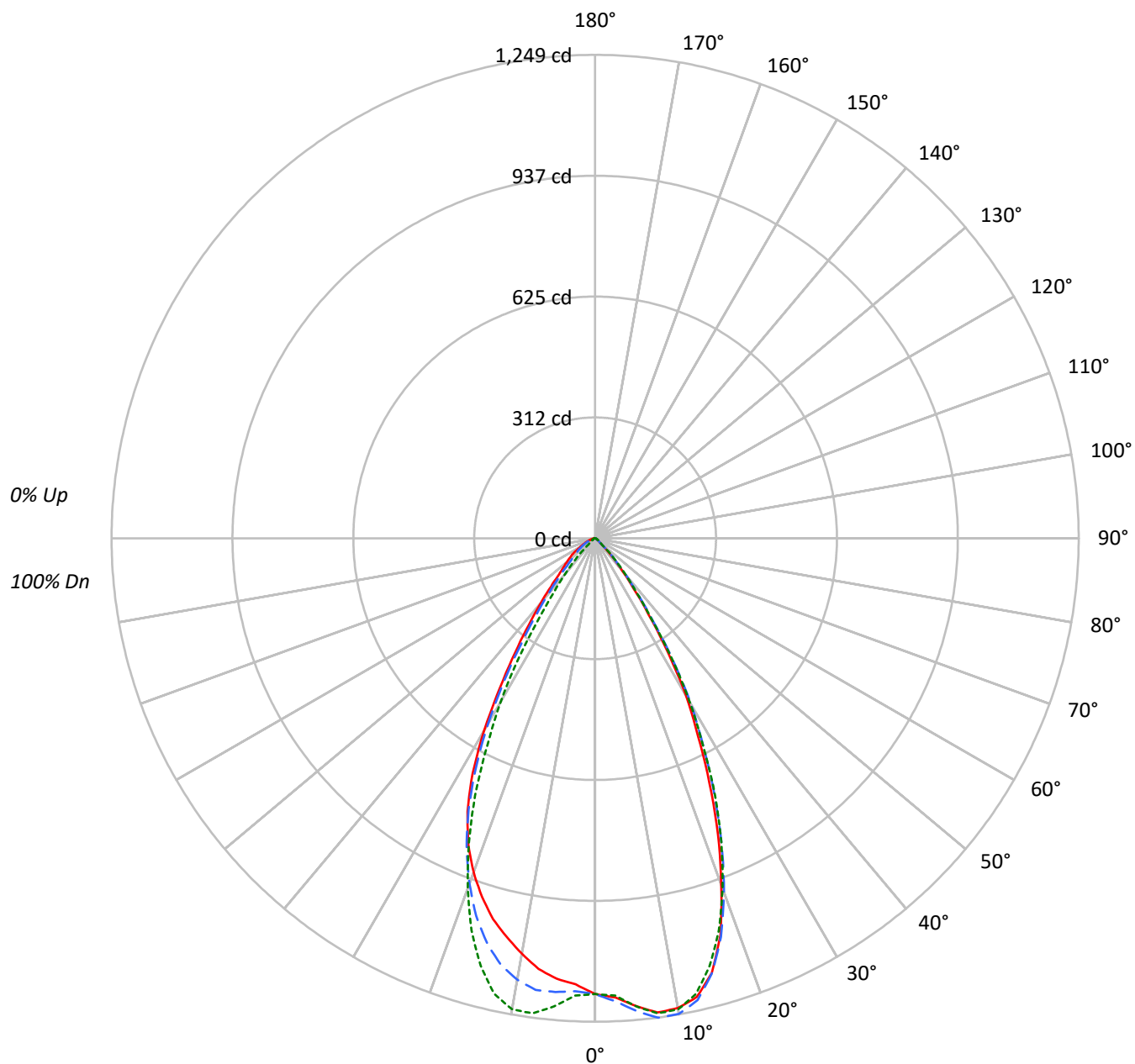
Lumens per Lamp: N/A
Luminaire Lumens: 1047.0 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	144672	144672	144672
5°	149603	149701	140859
10°	153753	154152	135951
15°	147932	145375	129578
20°	124567	125718	120031
25°	94617	99429	105664
30°	66546	69298	81299
35°	35904	37599	53797
40°	17320	19133	34897
45°	6168	8409	22691
50°	2313	2924	18176
55°	1735	2078	15015
60°	1376	1573	10885
65°	1163	1395	8430
70°	862	1149	6645
75°	759	1139	4984
80°	566	1132	3396
85°	0	1128	2255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	11.0
10°-20°	309.3	29.5
20°-30°	335.5	32.0
30°-40°	186.2	17.8
40°-50°	59.3	5.7
50°-60°	23.9	2.3
60°-70°	12.1	1.2
70°-80°	5.0	0.5
80°-90°	1.0	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°	759.5	72.5
0°-40°	945.7	90.3
0°-60°	1028.9	98.3
0°-90°	1047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1047.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1178	1178	1178	1178	1178	
5°	1213	1226	1214	1177	1142	117
15°	1163	1164	1143	1082	1019	318
25°	698	727	734	773	780	319
35°	239	259	251	331	359	159
45°	36	42	48	108	131	34
55°	8	8	10	52	70	7
65°	4	4	5	23	29	4
75°	2	2	2	8	10	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°	1177.6	1177.6	1177.6	1177.6	1177.6	1177.6	1177.6	1177.6	1177.6
2.5°	1187.3	1197.8	1197.0	1188.9	1182.5	1180.1	1171.2	1160.7	1153.5
5°	1213.1	1226.0	1226.0	1219.6	1213.9	1200.2	1176.8	1154.3	1142.2
7.5°	1235.7	1248.6	1249.4	1244.5	1238.1	1215.5	1176.8	1140.6	1122.0
10°	1232.5	1242.1	1247.8	1242.9	1235.7	1205.9	1158.3	1109.9	1089.8
12.5°	1213.9	1222.8	1222.0	1214.7	1205.0	1174.4	1127.7	1077.7	1055.1
15°	1163.1	1168.0	1163.9	1155.9	1143.0	1119.6	1081.7	1039.0	1018.8
17.5°	1075.3	1081.7	1080.1	1067.2	1062.4	1039.8	1022.1	989.0	971.3
20°	952.8	972.9	972.9	963.2	961.6	946.3	948.7	931.0	918.1
22.5°	829.4	847.2	852.8	848.8	852.0	844.7	867.3	862.5	856.0
25°	698.0	715.8	727.1	725.4	733.5	733.5	773.0	782.7	779.5
27.5°	574.7	591.6	604.5	607.8	602.9	611.8	665.8	685.1	685.1
30°	469.1	482.8	494.9	494.9	488.5	494.9	552.1	574.7	573.1
32.5°	349.8	365.1	376.4	374.8	369.2	378.0	438.5	461.1	455.4
35°	239.4	249.9	258.7	255.5	250.7	265.2	331.3	359.5	358.7
37.5°	162.0	171.7	177.3	174.9	173.3	190.2	250.7	282.1	280.5
40°	108.0	114.5	118.5	117.7	119.3	133.8	188.6	217.6	217.6
42.5°	68.5	72.5	76.6	76.6	80.6	95.9	143.5	168.5	168.5
45°	35.5	37.9	41.9	44.3	48.4	64.5	108.0	129.0	130.6
47.5°	16.9	17.7	19.3	20.2	23.4	40.3	83.0	105.6	110.4
50°	12.1	12.9	12.9	12.9	15.3	30.6	70.1	91.1	95.1
52.5°	9.7	9.7	9.7	10.5	12.1	25.8	60.5	79.0	82.2
55°	8.1	8.1	8.1	8.1	9.7	21.0	51.6	67.7	70.1
57.5°	6.4	6.4	6.4	6.4	8.1	16.9	42.7	54.0	54.8
60°	5.6	5.6	5.6	5.6	6.4	14.5	34.7	44.3	44.3
62.5°	4.8	4.8	4.8	4.8	5.6	12.1	29.0	36.3	35.5
65°	4.0	4.0	4.0	4.0	4.8	9.7	23.4	29.0	29.0
67.5°	3.2	3.2	3.2	3.2	4.0	8.1	18.5	23.4	23.4
70°	2.4	2.4	2.4	2.4	3.2	6.4	15.3	18.5	18.5
72.5°	2.4	2.4	2.4	2.4	2.4	4.8	11.3	14.5	13.7
75°	1.6	1.6	1.6	1.6	2.4	4.0	8.1	10.5	10.5
77.5°	1.6	1.6	1.6	1.6	1.6	3.2	6.4	7.3	7.3
80°	0.8	0.8	0.8	0.8	1.6	2.4	4.0	4.8	4.8
82.5°	0.0	0.8	0.0	0.8	0.8	1.6	3.2	3.2	3.2
85°	0.0	0.0	0.0	0.0	0.8	0.8	1.6	2.4	1.6
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)