

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: P856901

Luminaire Tested: **LD4C15D010 EU4159027 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856901
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 EU4159027 4LBMDSWLI
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

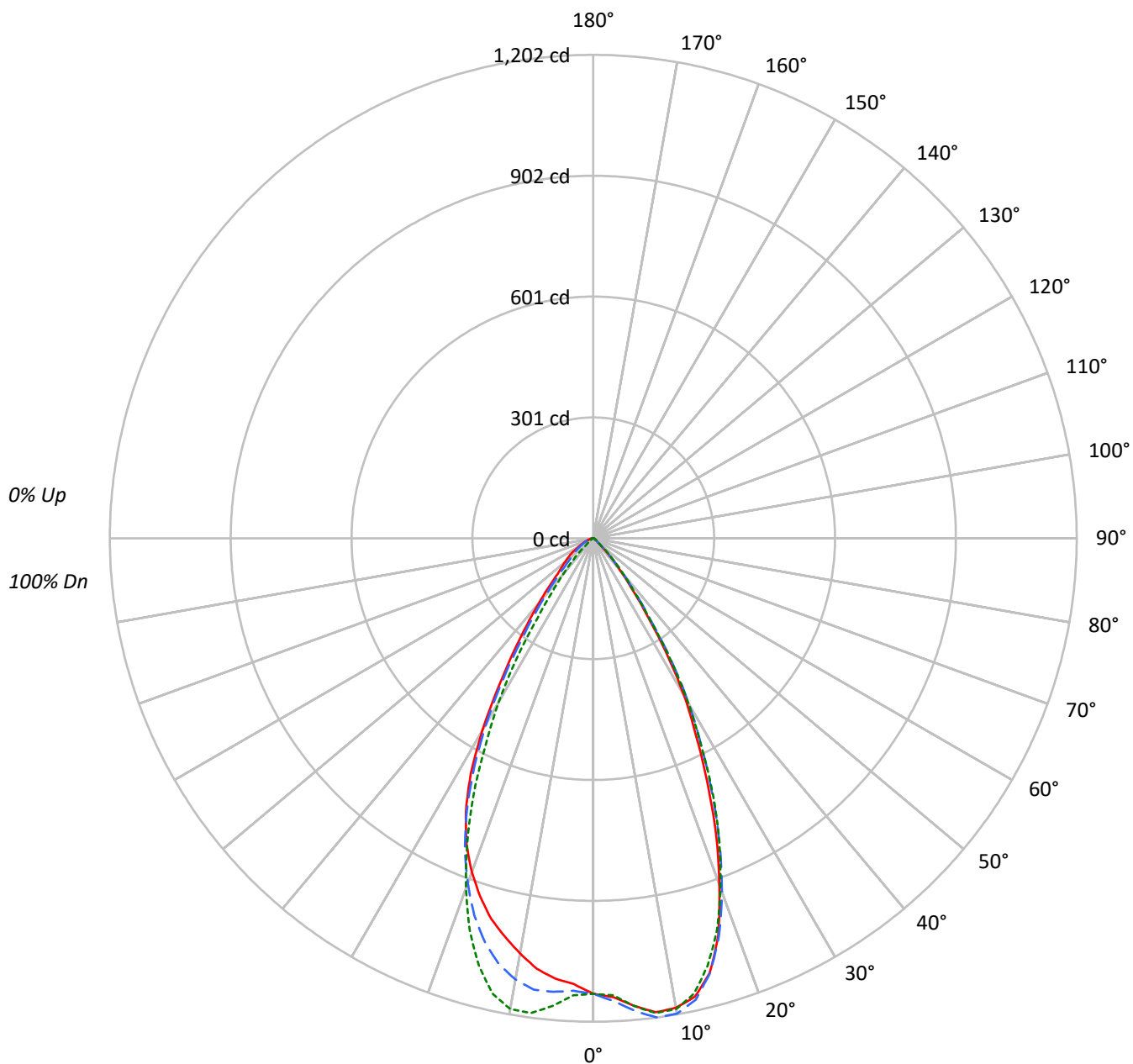
Lumens per Lamp: N/A
Luminaire Lumens: 1007.0 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	59	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°	139144	139144	139144
5°	143893	143979	135470
10°	147877	148264	130749
15°	142284	139817	124631
20°	119808	120920	115442
25°	91011	95633	101625
30°	64007	66645	78193
35°	34540	36159	51742
40°	16663	18395	33566
45°	5925	8079	21822
50°	2217	2810	17488
55°	1671	1992	14436
60°	1327	1523	10467
65°	1134	1366	8110
70°	826	1114	6394
75°	759	1092	4794
80°	566	1132	3325
85°	0	1128	2255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	11.0
10°-20°	297.5	29.5
20°-30°	322.7	32.0
30°-40°	179.1	17.8
40°-50°	57.0	5.7
50°-60°	23.0	2.3
60°-70°	11.6	1.2
70°-80°	4.8	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°	730.5	72.5
0°-40°	909.6	90.3
0°-60°	989.6	98.3
0°-90°	1007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1007.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1133	1133	1133	1133	1133	
5°	1167	1179	1168	1132	1098	112
15°	1119	1120	1099	1040	980	306
25°	671	699	706	744	750	307
35°	230	249	241	319	345	153
45°	34	40	46	104	126	33
55°	8	8	9	50	67	7
65°	4	4	5	22	28	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°	1132.6	1132.6	1132.6	1132.6	1132.6	1132.6	1132.6	1132.6	1132.6
2.5°	1142.0	1152.0	1151.3	1143.5	1137.3	1135.0	1126.4	1116.4	1109.4
5°	1166.8	1179.2	1179.2	1173.0	1167.5	1154.4	1131.9	1110.2	1098.5
7.5°	1188.5	1200.9	1201.6	1197.0	1190.8	1169.1	1131.9	1097.0	1079.2
10°	1185.4	1194.7	1200.1	1195.4	1188.5	1159.8	1114.0	1067.5	1048.1
12.5°	1167.5	1176.1	1175.3	1168.3	1159.0	1129.5	1084.6	1036.5	1014.8
15°	1118.7	1123.3	1119.5	1111.7	1099.3	1076.8	1040.4	999.3	979.9
17.5°	1034.2	1040.4	1038.8	1026.4	1021.8	1000.1	983.0	951.2	934.2
20°	916.4	935.7	935.7	926.4	924.9	910.2	912.5	895.4	883.0
22.5°	797.7	814.8	820.2	816.3	819.4	812.5	834.2	829.5	823.3
25°	671.4	688.4	699.3	697.7	705.5	705.5	743.5	752.8	749.7
27.5°	552.8	569.0	581.4	584.5	579.9	588.4	640.4	659.0	659.0
30°	451.2	464.4	476.0	476.0	469.8	476.0	531.1	552.8	551.2
32.5°	336.5	351.2	362.0	360.5	355.1	363.6	421.7	443.4	438.0
35°	230.3	240.3	248.9	245.8	241.1	255.1	318.6	345.8	345.0
37.5°	155.8	165.1	170.6	168.2	166.7	183.0	241.1	271.3	269.8
40°	103.9	110.1	114.0	113.2	114.7	128.7	181.4	209.3	209.3
42.5°	65.9	69.8	73.6	73.6	77.5	92.3	138.0	162.0	162.0
45°	34.1	36.4	40.3	42.6	46.5	62.0	103.9	124.0	125.6
47.5°	16.3	17.1	18.6	19.4	22.5	38.8	79.9	101.6	106.2
50°	11.6	12.4	12.4	12.4	14.7	29.5	67.4	87.6	91.5
52.5°	9.3	9.3	9.3	10.1	11.6	24.8	58.1	76.0	79.1
55°	7.8	7.8	7.8	7.8	9.3	20.2	49.6	65.1	67.4
57.5°	6.2	6.2	6.2	6.2	7.8	16.3	41.1	51.9	52.7
60°	5.4	5.4	5.4	5.4	6.2	14.0	33.3	42.6	42.6
62.5°	4.7	4.7	4.7	4.7	5.4	11.6	27.9	34.9	34.1
65°	3.9	3.9	3.9	3.9	4.7	9.3	22.5	27.9	27.9
67.5°	3.1	3.1	3.1	3.1	3.9	7.8	17.8	22.5	22.5
70°	2.3	2.3	2.3	2.3	3.1	6.2	14.7	17.8	17.8
72.5°	2.3	2.3	2.3	2.3	2.3	4.7	10.9	14.0	13.2
75°	1.6	1.6	1.6	1.6	2.3	3.9	7.8	10.1	10.1
77.5°	1.6	1.6	1.6	1.6	1.6	3.1	6.2	7.0	7.0
80°	0.8	0.8	0.8	0.8	1.6	2.3	3.9	4.7	4.7
82.5°	0.0	0.8	0.0	0.8	0.8	1.6	3.1	3.1	3.1
85°	0.0	0.0	0.0	0.0	0.8	0.8	1.6	2.3	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)