

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: P856947

Luminaire Tested: **LD4C15D010 EU4159035 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856947
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 EU4159035 4LBMDSWLI
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

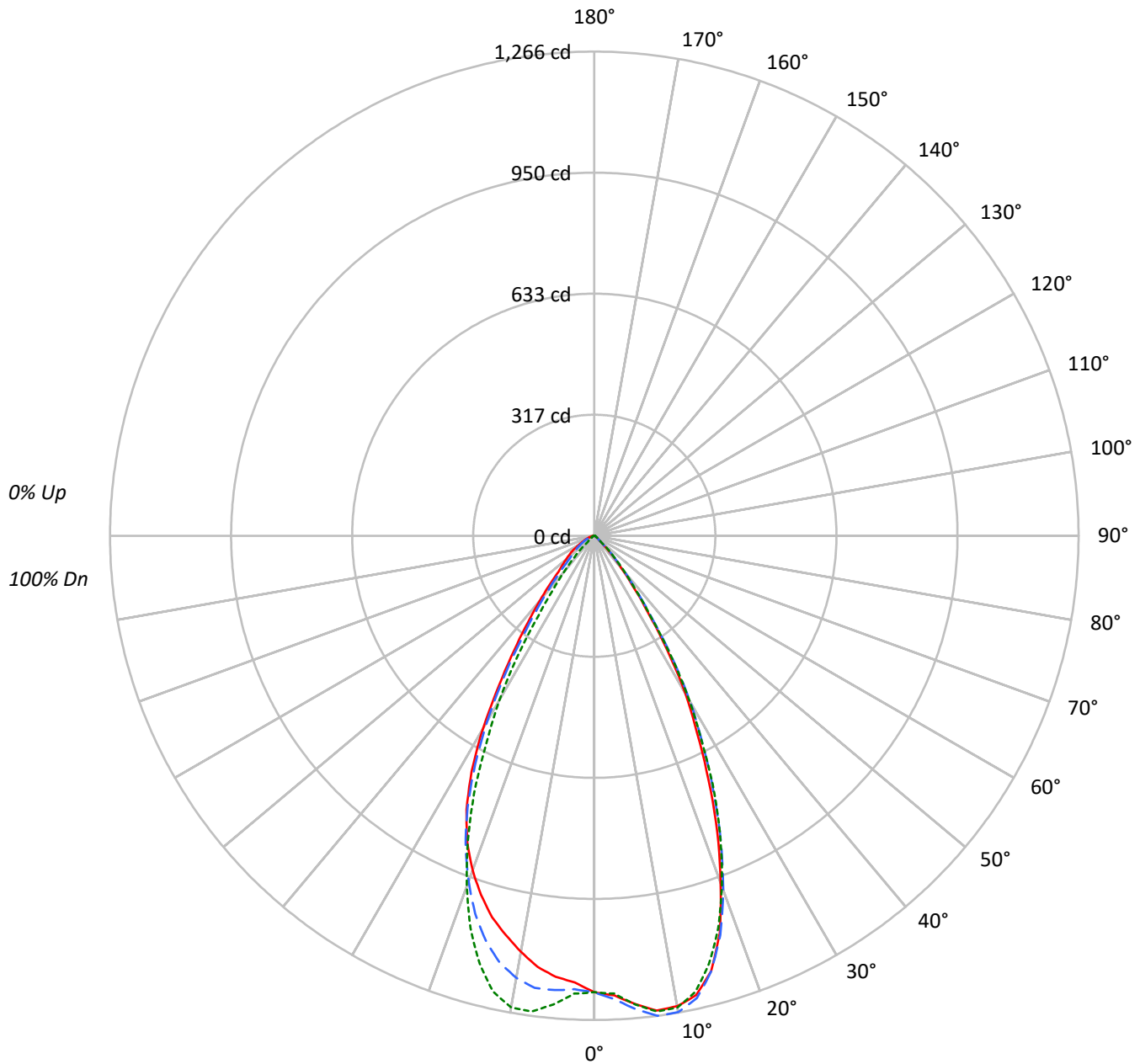
Lumens per Lamp: N/A
Luminaire Lumens: 1061.0 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	146613	146613	146613
5°	151601	151699	142734
10°	155799	156210	137772
15°	149916	147321	131321
20°	126227	127404	121639
25°	95891	100757	107074
30°	67440	70220	82392
35°	36384	38094	54516
40°	17561	19389	35362
45°	6237	8513	22986
50°	2351	2962	18425
55°	1756	2099	15229
60°	1401	1597	11032
65°	1192	1424	8546
70°	898	1185	6753
75°	759	1187	5031
80°	566	1132	3467
85°	0	1128	2255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	11.0
10°-20°	313.5	29.5
20°-30°	340.0	32.0
30°-40°	188.7	17.8
40°-50°	60.1	5.7
50°-60°	24.2	2.3
60°-70°	12.3	1.2
70°-80°	5.1	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°	769.7	72.5
0°-40°	958.3	90.3
0°-60°	1042.6	98.3
0°-90°	1061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1061.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1193	1193	1193	1193	1193	
5°	1229	1242	1230	1193	1157	118
15°	1179	1180	1158	1096	1032	322
25°	707	737	743	783	790	323
35°	243	262	254	336	364	161
45°	36	42	49	110	132	34
55°	8	8	10	52	71	7
65°	4	4	5	24	29	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°	1193.4	1193.4	1193.4	1193.4	1193.4	1193.4	1193.4	1193.4	1193.4
2.5°	1203.2	1213.8	1213.0	1204.8	1198.3	1195.8	1186.9	1176.2	1168.9
5°	1229.3	1242.4	1242.4	1235.9	1230.1	1216.3	1192.6	1169.7	1157.4
7.5°	1252.2	1265.3	1266.1	1261.2	1254.6	1231.8	1192.6	1155.8	1137.0
10°	1248.9	1258.7	1264.5	1259.5	1252.2	1222.0	1173.8	1124.8	1104.4
12.5°	1230.1	1239.1	1238.3	1231.0	1221.2	1190.1	1142.7	1092.1	1069.2
15°	1178.7	1183.6	1179.5	1171.3	1158.3	1134.6	1096.2	1052.9	1032.5
17.5°	1089.6	1096.2	1094.6	1081.5	1076.6	1053.7	1035.7	1002.2	984.3
20°	965.5	985.9	985.9	976.1	974.5	959.0	961.4	943.4	930.4
22.5°	840.5	858.5	864.2	860.1	863.4	856.0	878.9	874.0	867.5
25°	707.4	725.3	736.8	735.1	743.3	743.3	783.3	793.1	789.9
27.5°	582.4	599.6	612.6	615.9	611.0	620.0	674.7	694.3	694.3
30°	475.4	489.3	501.5	501.5	495.0	501.5	559.5	582.4	580.8
32.5°	354.5	370.0	381.5	379.8	374.1	383.1	444.4	467.2	461.5
35°	242.6	253.2	262.2	258.9	254.0	268.7	335.7	364.3	363.5
37.5°	164.2	174.0	179.7	177.3	175.6	192.8	254.0	285.9	284.3
40°	109.5	116.0	120.1	119.3	120.9	135.6	191.1	220.5	220.5
42.5°	69.4	73.5	77.6	77.6	81.7	97.2	145.4	170.7	170.7
45°	35.9	38.4	42.5	44.9	49.0	65.3	109.5	130.7	132.3
47.5°	17.2	18.0	19.6	20.4	23.7	40.8	84.1	107.0	111.9
50°	12.3	13.1	13.1	13.1	15.5	31.0	71.1	92.3	96.4
52.5°	9.8	9.8	9.8	10.6	12.3	26.1	61.3	80.0	83.3
55°	8.2	8.2	8.2	8.2	9.8	21.2	52.3	68.6	71.1
57.5°	6.5	6.5	6.5	6.5	8.2	17.2	43.3	54.7	55.5
60°	5.7	5.7	5.7	5.7	6.5	14.7	35.1	44.9	44.9
62.5°	4.9	4.9	4.9	4.9	5.7	12.3	29.4	36.8	35.9
65°	4.1	4.1	4.1	4.1	4.9	9.8	23.7	29.4	29.4
67.5°	3.3	3.3	3.3	3.3	4.1	8.2	18.8	23.7	23.7
70°	2.5	2.5	2.5	2.5	3.3	6.5	15.5	18.8	18.8
72.5°	2.5	2.5	2.5	2.5	2.5	4.9	11.4	14.7	13.9
75°	1.6	1.6	1.6	1.6	2.5	4.1	8.2	10.6	10.6
77.5°	1.6	1.6	1.6	1.6	1.6	3.3	6.5	7.4	7.4
80°	0.8	0.8	0.8	0.8	1.6	2.5	4.1	4.9	4.9
82.5°	0.0	0.8	0.0	0.8	0.8	1.6	3.3	3.3	3.3
85°	0.0	0.0	0.0	0.0	0.8	0.8	1.6	2.5	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)