

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: P856970

Luminaire Tested: **LD4C15D010 EU4159040 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856970
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 EU4159040 4LBMDSWLI
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

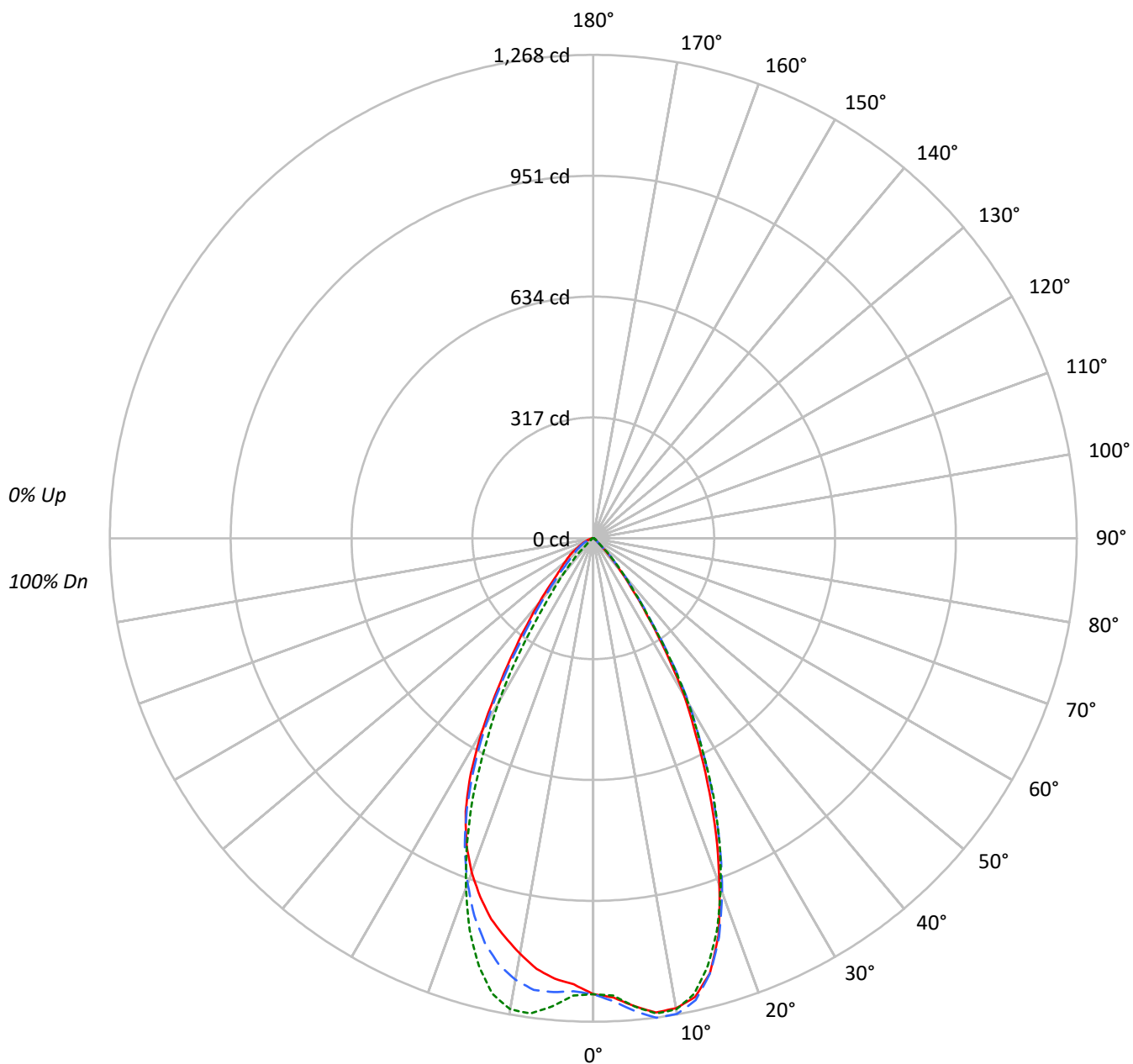
Lumens per Lamp: N/A
Luminaire Lumens: 1063.0 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93		
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87		
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80		
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70		
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65		
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61		
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58		
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54		
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	146884	146884	146884
5°	151884	151995	143005
10°	156098	156510	138022
15°	150195	147588	131563
20°	126463	127639	121861
25°	96067	100947	107277
30°	67567	70348	82548
35°	36459	38169	54621
40°	17593	19421	35443
45°	6255	8531	23038
50°	2351	2962	18463
55°	1756	2099	15250
60°	1401	1597	11057
65°	1192	1424	8576
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°	116.4	11.0
10°-20°	314.0	29.5
20°-30°	340.7	32.0
30°-40°	189.0	17.8
40°-50°	60.2	5.7
50°-60°	24.3	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°	771.1	72.5
0°-40°	960.1	90.3
0°-60°	1044.6	98.3
0°-90°	1063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1063.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1196	1196	1196	1196	1196	
5°	1232	1245	1232	1195	1160	118
15°	1181	1182	1160	1098	1034	323
25°	709	738	745	785	791	324
35°	243	263	254	336	364	161
45°	36	43	49	110	133	35
55°	8	8	10	52	71	7
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°	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6
2.5°	1205.5	1216.1	1215.3	1207.1	1200.5	1198.1	1189.1	1178.5	1171.1
5°	1231.6	1244.7	1244.7	1238.2	1232.5	1218.6	1194.8	1171.9	1159.6
7.5°	1254.6	1267.7	1268.5	1263.6	1257.0	1234.1	1194.8	1158.0	1139.2
10°	1251.3	1261.1	1266.8	1261.9	1254.6	1224.3	1176.0	1126.9	1106.4
12.5°	1232.5	1241.5	1240.6	1233.3	1223.5	1192.4	1144.9	1094.2	1071.2
15°	1180.9	1185.8	1181.7	1173.5	1160.4	1136.7	1098.3	1054.9	1034.4
17.5°	1091.7	1098.3	1096.6	1083.5	1078.6	1055.7	1037.7	1004.1	986.1
20°	967.3	987.8	987.8	977.9	976.3	960.8	963.2	945.2	932.1
22.5°	842.1	860.1	865.8	861.7	865.0	857.6	880.6	875.7	869.1
25°	708.7	726.7	738.2	736.5	744.7	744.7	784.8	794.6	791.4
27.5°	583.5	600.7	613.8	617.0	612.1	621.1	676.0	695.6	695.6
30°	476.3	490.2	502.5	502.5	495.9	502.5	560.6	583.5	581.9
32.5°	355.2	370.7	382.2	380.5	374.8	383.8	445.2	468.1	462.4
35°	243.1	253.7	262.7	259.4	254.5	269.2	336.3	365.0	364.2
37.5°	164.5	174.3	180.0	177.6	175.9	193.1	254.5	286.4	284.8
40°	109.7	116.2	120.3	119.5	121.1	135.8	191.5	221.0	221.0
42.5°	69.6	73.7	77.7	77.7	81.8	97.4	145.7	171.0	171.0
45°	36.0	38.5	42.6	45.0	49.1	65.5	109.7	130.9	132.6
47.5°	17.2	18.0	19.6	20.5	23.7	40.9	84.3	107.2	112.1
50°	12.3	13.1	13.1	13.1	15.5	31.1	71.2	92.5	96.6
52.5°	9.8	9.8	9.8	10.6	12.3	26.2	61.4	80.2	83.5
55°	8.2	8.2	8.2	8.2	9.8	21.3	52.4	68.7	71.2
57.5°	6.5	6.5	6.5	6.5	8.2	17.2	43.4	54.8	55.6
60°	5.7	5.7	5.7	5.7	6.5	14.7	35.2	45.0	45.0
62.5°	4.9	4.9	4.9	4.9	5.7	12.3	29.5	36.8	36.0
65°	4.1	4.1	4.1	4.1	4.9	9.8	23.7	29.5	29.5
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	11.5	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)