

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: P856902

Luminaire Tested: **LD4C15D010 EU4159027 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C15D010 EU4159027 4LBMDSWMW
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

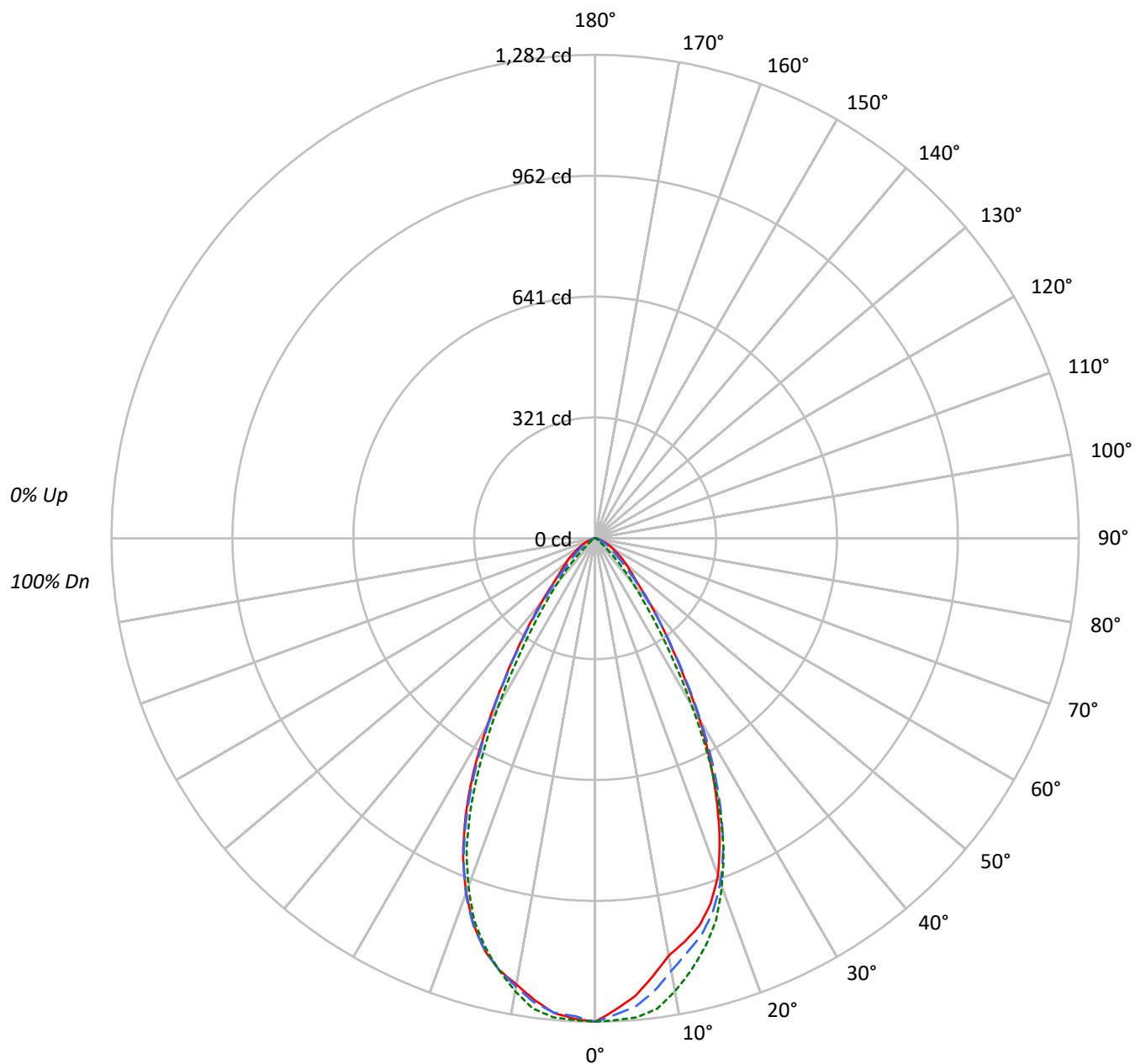
Lumens per Lamp: N/A
Luminaire Lumens: 1167.0 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P856902

CATALOG NUMBER: LD4C15D010 EU4159027 4LBMDSWMW

Luminous Intensity Polar Plot





TEST NUMBER: P856902

CATALOG NUMBER: LD4C15D010 EU4159027 4LBMDSWMW

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	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	93	97	93	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		85
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	91	82	75	71	89	81	75	71	79	74	70		77	73	69		76
6	86	76	70	66	84	76	70	65	74	69	65		73	68	64		71
7	81	72	65	61	80	71	65	61	70	64	60		68	64	60		67
8	77	67	61	57	76	67	61	57	66	60	56		65	60	56		64
9	74	63	57	53	72	63	57	53	62	57	53		61	56	53		60
10	70	60	54	50	69	60	54	50	59	53	50		58	53	50		57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	157486	157486	157486
5°	150281	157237	155769
10°	140155	152144	149910
15°	135353	142895	143912
20°	124502	128385	130712
25°	103184	105068	110165
30°	78505	72603	80746
35°	53152	43493	53737
40°	36196	24922	35090
45°	25106	12561	23733
50°	20431	5103	19113
55°	16535	3170	15057
60°	13145	2432	11917
65°	10349	2006	9215
70°	7831	1760	7112
75°	5649	1424	5174
80°	4174	1415	3467
85°	2819	1410	2819



TEST NUMBER: P856902

CATALOG NUMBER: LD4C15D010 EU4159027 4LBMDSWMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	10.1
10°-20°	309.7	26.5
20°-30°	355.3	30.4
30°-40°	215.8	18.5
40°-50°	92.5	7.9
50°-60°	44.4	3.8
60°-70°	21.6	1.8
70°-80°	8.0	0.7
80°-90°	1.9	0.2
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°	782.8	67.1
0°-40°	998.7	85.6
0°-60°	1135.6	97.3
0°-90°	1167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1167.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1282	1282	1282	1282	1282	
5°	1219	1245	1275	1262	1263	113
15°	1064	1089	1124	1130	1132	296
25°	761	786	775	805	813	345
35°	354	359	290	350	358	227
45°	144	129	72	116	137	117
55°	77	57	15	52	70	70
65°	36	24	7	22	32	36
75°	12	8	3	7	11	13
85°	2	2	1	1	2	3
90°	0	0	0	0	0	



TEST NUMBER: P856902

CATALOG NUMBER: LD4C15D010 EU4159027 4LBMDSWMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1281.9	1281.9	1281.9	1281.9	1281.9	1281.9	1281.9	1281.9	1281.9
2.5°	1251.2	1265.1	1264.1	1276.0	1279.0	1276.0	1268.1	1276.0	1275.0
5°	1218.6	1234.4	1245.3	1265.1	1275.0	1273.0	1262.1	1264.1	1263.1
7.5°	1171.1	1190.9	1209.7	1239.4	1258.2	1257.2	1241.3	1238.4	1234.4
10°	1123.5	1142.4	1164.1	1194.8	1219.6	1223.5	1207.7	1203.7	1201.7
12.5°	1095.8	1110.7	1125.5	1152.3	1174.0	1182.0	1173.0	1174.0	1173.0
15°	1064.2	1079.0	1088.9	1108.7	1123.5	1134.4	1130.5	1136.4	1131.5
17.5°	1016.6	1034.5	1038.4	1053.3	1064.2	1071.1	1075.0	1081.0	1073.1
20°	952.3	966.2	971.1	977.0	982.0	990.9	1002.8	1008.7	999.8
22.5°	862.2	888.9	887.9	885.0	889.9	892.9	911.7	921.6	914.7
25°	761.2	789.0	786.0	774.1	775.1	781.0	804.8	817.7	812.7
27.5°	655.3	681.1	674.1	651.4	645.4	654.3	685.0	699.9	696.9
30°	553.4	570.2	559.3	518.7	511.8	522.7	562.3	577.1	569.2
32.5°	443.5	456.3	451.4	401.9	390.0	400.9	447.4	461.3	452.4
35°	354.4	366.3	359.3	300.9	290.0	301.9	350.4	366.3	358.3
37.5°	284.1	293.0	284.1	221.7	211.8	223.7	270.2	291.0	281.1
40°	225.7	232.6	220.7	163.3	155.4	161.4	204.9	225.7	218.8
42.5°	178.2	183.1	170.3	119.8	110.9	118.8	154.4	173.2	169.3
45°	144.5	144.5	128.7	83.2	72.3	80.2	115.8	135.6	136.6
47.5°	123.7	120.8	101.0	55.4	41.6	52.5	92.1	112.8	115.8
50°	106.9	103.0	83.2	40.6	26.7	37.6	76.2	97.0	100.0
52.5°	92.1	89.1	69.3	31.7	18.8	28.7	64.3	84.1	87.1
55°	77.2	75.2	57.4	24.7	14.8	21.8	51.5	68.3	70.3
57.5°	63.4	60.4	46.5	20.8	11.9	17.8	42.6	56.4	58.4
60°	53.5	50.5	37.6	16.8	9.9	13.9	34.6	46.5	48.5
62.5°	44.5	41.6	30.7	13.9	7.9	11.9	27.7	37.6	39.6
65°	35.6	33.7	23.8	10.9	6.9	8.9	21.8	29.7	31.7
67.5°	28.7	26.7	18.8	8.9	5.9	6.9	16.8	23.8	25.7
70°	21.8	19.8	13.9	6.9	4.9	5.9	12.9	17.8	19.8
72.5°	15.8	14.8	10.9	5.9	4.0	4.9	8.9	12.9	14.8
75°	11.9	10.9	7.9	4.0	3.0	4.0	6.9	9.9	10.9
77.5°	7.9	7.9	5.9	3.0	3.0	3.0	4.9	6.9	6.9
80°	5.9	4.9	4.0	2.0	2.0	2.0	3.0	4.9	4.9
82.5°	4.0	3.0	3.0	2.0	2.0	2.0	2.0	3.0	3.0
85°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)