

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: P856900

Luminaire Tested: **LD4C15D010 EU4159027 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856900
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 4LBMDSWH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

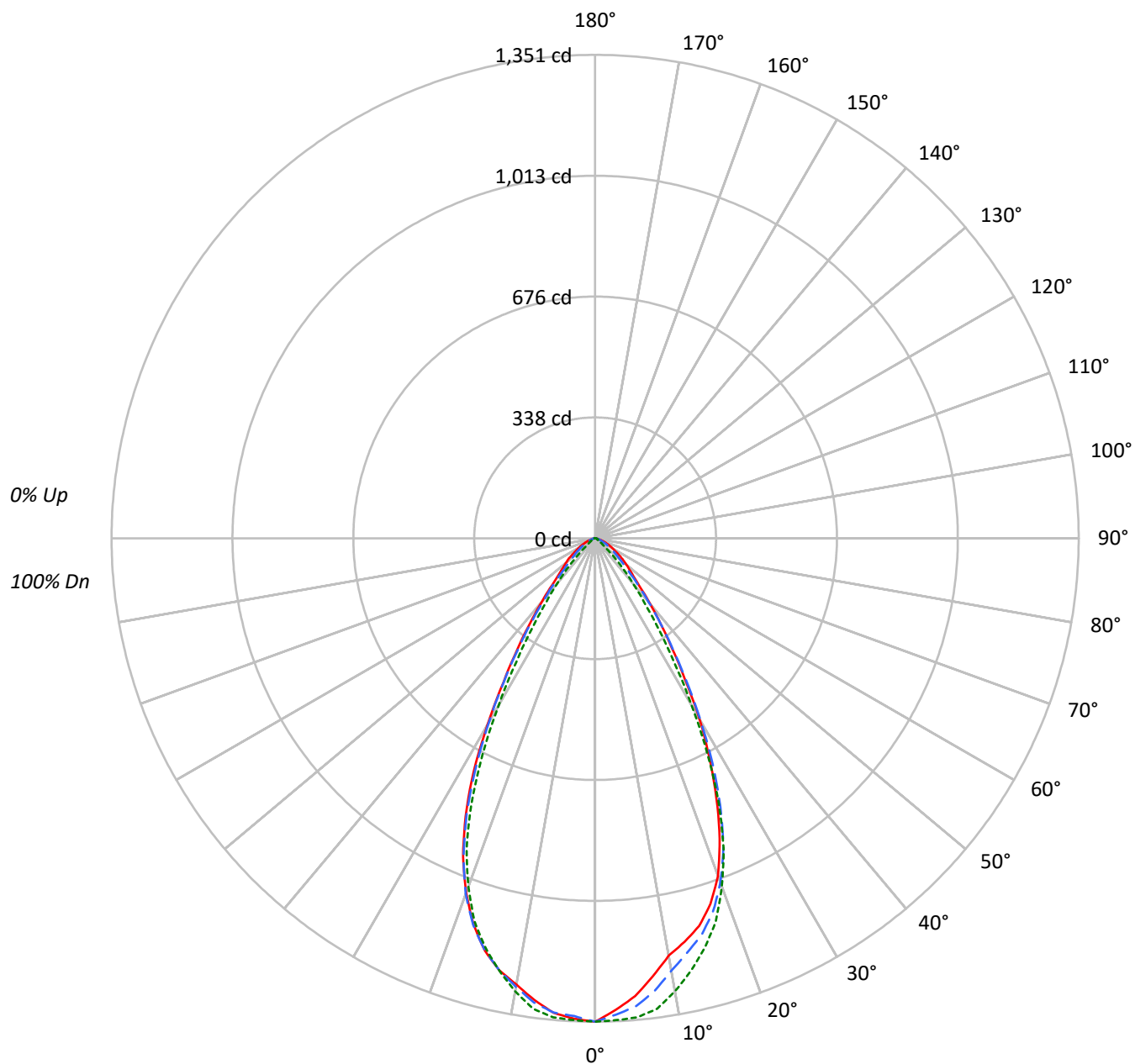
Lumens per Lamp: N/A
Luminaire Lumens: 1230.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P856900

CATALOG NUMBER: LD4C15D010 EU4159027 4LBMDSWH

Luminous Intensity Polar Plot





TEST NUMBER: P856900

CATALOG NUMBER: LD4C15D010 EU4159027 4LBMDSWH

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	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67		
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62		
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58		
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51		
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	165987	165987	165987
5°	158396	165721	164180
10°	147727	160352	158007
15°	142653	150615	151671
20°	131222	135314	137772
25°	108755	110734	116115
30°	82732	76519	85101
35°	56016	45848	56646
40°	38153	26269	36982
45°	26461	13239	25019
50°	21540	5390	20145
55°	17435	3363	15871
60°	13833	2555	12556
65°	10930	2122	9709
70°	8262	1868	7507
75°	5933	1471	5459
80°	4457	1486	3679
85°	2960	1410	2960



TEST NUMBER: P856900

CATALOG NUMBER: LD4C15D010 EU4159027 4LBMDSWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	10.1
10°-20°	326.4	26.5
20°-30°	374.5	30.4
30°-40°	227.5	18.5
40°-50°	97.5	7.9
50°-60°	46.8	3.8
60°-70°	22.7	1.8
70°-80°	8.4	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°	825.1	67.1
0°-40°	1052.6	85.6
0°-60°	1196.9	97.3
0°-90°	1230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1230.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1351	1351	1351	1351	1351	
5°	1284	1312	1344	1330	1331	119
15°	1122	1148	1184	1192	1192	312
25°	802	828	817	848	857	364
35°	374	379	306	369	378	239
45°	152	136	76	122	144	124
55°	81	60	16	54	74	73
65°	38	25	7	23	33	38
75°	12	8	3	7	12	14
85°	2	2	1	1	2	3
90°	0	0	0	0	0	



TEST NUMBER: P856900

CATALOG NUMBER: LD4C15D010 EU4159027 4LBMDSWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1351.1	1351.1	1351.1	1351.1	1351.1	1351.1	1351.1	1351.1	1351.1
2.5°	1318.8	1333.4	1332.4	1344.9	1348.0	1344.9	1336.5	1344.9	1343.8
5°	1284.4	1301.1	1312.5	1333.4	1343.8	1341.7	1330.3	1332.4	1331.3
7.5°	1234.3	1255.1	1275.0	1306.3	1326.1	1325.1	1308.4	1305.2	1301.1
10°	1184.2	1204.0	1227.0	1259.3	1285.4	1289.6	1272.9	1268.7	1266.6
12.5°	1155.0	1170.6	1186.3	1214.5	1237.4	1245.8	1236.4	1237.4	1236.4
15°	1121.6	1137.3	1147.7	1168.6	1184.2	1195.7	1191.5	1197.8	1192.5
17.5°	1071.5	1090.3	1094.5	1110.1	1121.6	1128.9	1133.1	1139.3	1131.0
20°	1003.7	1018.3	1023.5	1029.8	1035.0	1044.4	1056.9	1063.2	1053.8
22.5°	908.8	936.9	935.9	932.8	938.0	941.1	960.9	971.4	964.1
25°	802.3	831.5	828.4	815.9	816.9	823.2	848.2	861.8	856.6
27.5°	690.7	717.8	710.5	686.5	680.3	689.7	722.0	737.6	734.5
30°	583.2	601.0	589.5	546.7	539.4	550.9	592.6	608.3	599.9
32.5°	467.4	481.0	475.8	423.6	411.1	422.6	471.6	486.2	476.8
35°	373.5	386.0	378.7	317.2	305.7	318.2	369.3	386.0	377.7
37.5°	299.4	308.8	299.4	233.7	223.3	235.8	284.8	306.7	296.3
40°	237.9	245.2	232.7	172.2	163.8	170.1	216.0	237.9	230.6
42.5°	187.8	193.0	179.5	126.2	116.9	125.2	162.8	182.6	178.4
45°	152.3	152.3	135.6	87.6	76.2	84.5	122.1	142.9	144.0
47.5°	130.4	127.3	106.4	58.4	43.8	55.3	97.0	118.9	122.1
50°	112.7	108.5	87.6	42.8	28.2	39.6	80.3	102.2	105.4
52.5°	97.0	93.9	73.0	33.4	19.8	30.3	67.8	88.7	91.8
55°	81.4	79.3	60.5	26.1	15.7	23.0	54.3	72.0	74.1
57.5°	66.8	63.6	49.0	21.9	12.5	18.8	44.9	59.5	61.6
60°	56.3	53.2	39.6	17.7	10.4	14.6	36.5	49.0	51.1
62.5°	47.0	43.8	32.3	14.6	8.3	12.5	29.2	39.6	41.7
65°	37.6	35.5	25.0	11.5	7.3	9.4	23.0	31.3	33.4
67.5°	30.3	28.2	19.8	9.4	6.3	7.3	17.7	25.0	27.1
70°	23.0	20.9	14.6	7.3	5.2	6.3	13.6	18.8	20.9
72.5°	16.7	15.7	11.5	6.3	4.2	5.2	9.4	13.6	15.7
75°	12.5	11.5	8.3	4.2	3.1	4.2	7.3	10.4	11.5
77.5°	8.3	8.3	6.3	3.1	3.1	3.1	5.2	7.3	7.3
80°	6.3	5.2	4.2	2.1	2.1	2.1	3.1	5.2	5.2
82.5°	4.2	3.1	3.1	2.1	2.1	2.1	2.1	3.1	3.1
85°	2.1	2.1	2.1	1.0	1.0	1.0	1.0	2.1	2.1
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)