

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: P856927

Luminaire Tested: **LD4C15D010 EU4159030 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856927
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 EU4159030 4LBMDSWWMH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

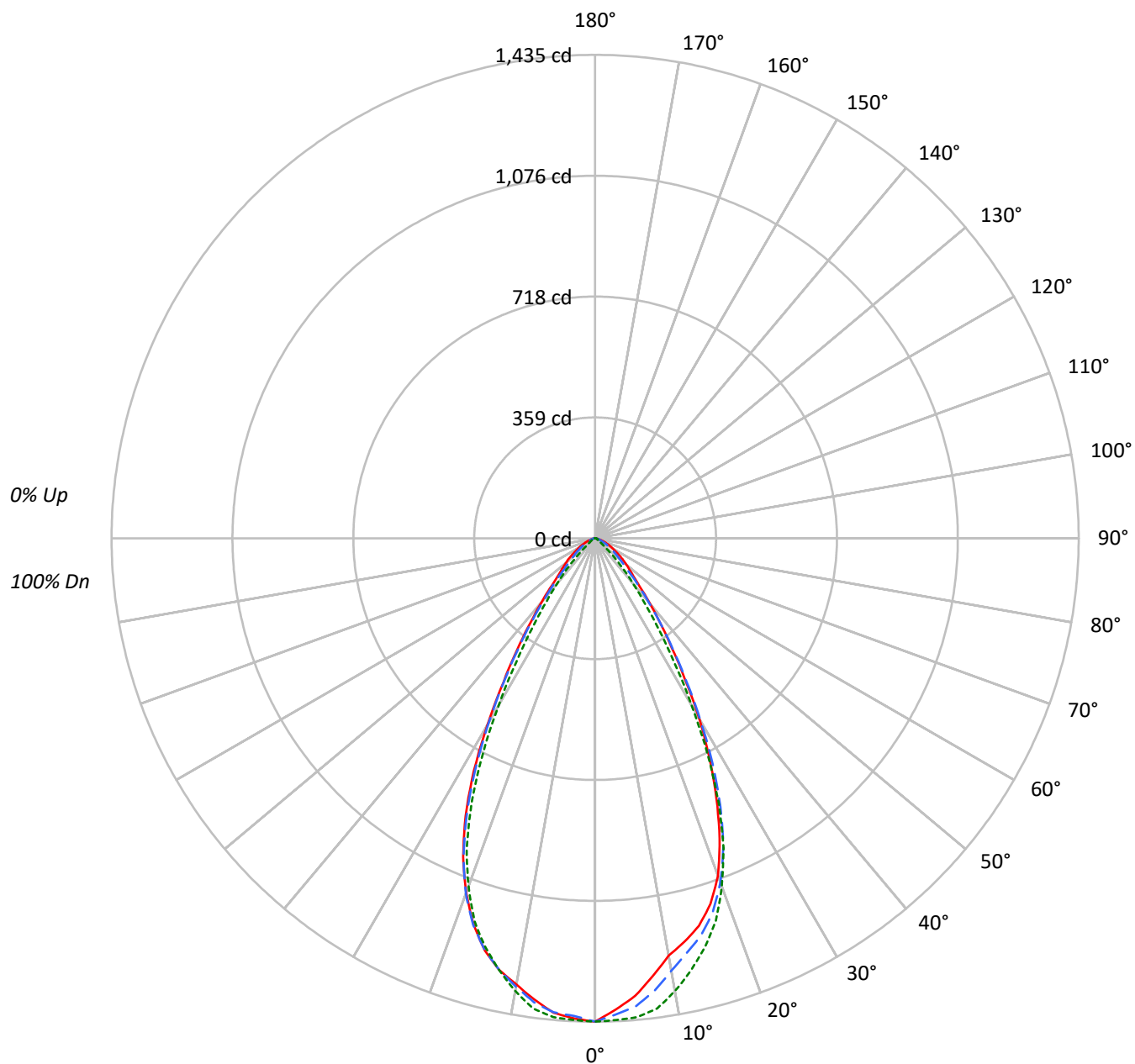
Lumens per Lamp: N/A
Luminaire Lumens: 1306.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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	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°	176246	176246	176246
5°	168175	175969	174329
10°	156859	170257	167775
15°	151467	159925	161045
20°	139327	143681	146283
25°	115478	117579	123286
30°	87853	81243	90364
35°	59481	48682	60141
40°	40510	27889	39260
45°	28094	14056	26565
50°	22859	5715	21387
55°	18506	3556	16857
60°	14693	2727	13342
65°	11599	2267	10320
70°	8764	1976	7974
75°	6313	1566	5791
80°	4669	1556	3891
85°	3101	1551	3101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	10.1
10°-20°	346.6	26.5
20°-30°	397.6	30.4
30°-40°	241.6	18.5
40°-50°	103.5	7.9
50°-60°	49.7	3.8
60°-70°	24.1	1.8
70°-80°	9.0	0.7
80°-90°	2.0	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°	876.1	67.1
0°-40°	1117.6	85.6
0°-60°	1270.8	97.3
0°-90°	1306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1306.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1435	1435	1435	1435	1435	
5°	1364	1394	1427	1412	1414	127
15°	1191	1219	1257	1265	1266	332
25°	852	880	867	901	910	386
35°	397	402	325	392	401	254
45°	162	144	81	130	153	131
55°	86	64	17	58	79	78
65°	40	27	8	24	36	40
75°	13	9	3	8	12	15
85°	2	2	1	1	2	3
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°	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6	1434.6
2.5°	1400.3	1415.8	1414.7	1428.0	1431.3	1428.0	1419.1	1428.0	1426.9
5°	1363.7	1381.4	1393.6	1415.8	1426.9	1424.7	1412.5	1414.7	1413.6
7.5°	1310.5	1332.7	1353.8	1387.0	1408.0	1406.9	1389.2	1385.9	1381.4
10°	1257.4	1278.4	1302.8	1337.1	1364.8	1369.3	1351.5	1347.1	1344.9
12.5°	1226.4	1243.0	1259.6	1289.5	1313.9	1322.7	1312.8	1313.9	1312.8
15°	1190.9	1207.5	1218.6	1240.8	1257.4	1269.6	1265.1	1271.8	1266.2
17.5°	1137.7	1157.7	1162.1	1178.7	1190.9	1198.7	1203.1	1209.7	1200.9
20°	1065.7	1081.2	1086.8	1093.4	1099.0	1108.9	1122.2	1128.9	1118.9
22.5°	964.9	994.8	993.7	990.4	995.9	999.3	1020.3	1031.4	1023.6
25°	851.9	882.9	879.6	866.3	867.4	874.1	900.7	915.1	909.5
27.5°	733.4	762.2	754.4	728.9	722.3	732.3	766.6	783.2	779.9
30°	619.3	638.1	625.9	580.5	572.7	584.9	629.2	645.9	637.0
32.5°	496.3	510.7	505.2	449.8	436.5	448.7	500.7	516.2	506.3
35°	396.6	409.9	402.1	336.8	324.6	337.9	392.2	409.9	401.0
37.5°	317.9	327.9	317.9	248.2	237.1	250.4	302.4	325.7	314.6
40°	252.6	260.3	247.0	182.8	173.9	180.6	229.3	252.6	244.8
42.5°	199.4	204.9	190.5	134.0	124.1	132.9	172.8	193.9	189.4
45°	161.7	161.7	144.0	93.1	80.9	89.7	129.6	151.8	152.9
47.5°	138.5	135.2	113.0	62.0	46.5	58.7	103.0	126.3	129.6
50°	119.6	115.2	93.1	45.4	29.9	42.1	85.3	108.6	111.9
52.5°	103.0	99.7	77.5	35.5	21.0	32.1	72.0	94.2	97.5
55°	86.4	84.2	64.3	27.7	16.6	24.4	57.6	76.4	78.7
57.5°	70.9	67.6	52.1	23.3	13.3	19.9	47.6	63.1	65.4
60°	59.8	56.5	42.1	18.8	11.1	15.5	38.8	52.1	54.3
62.5°	49.9	46.5	34.3	15.5	8.9	13.3	31.0	42.1	44.3
65°	39.9	37.7	26.6	12.2	7.8	10.0	24.4	33.2	35.5
67.5°	32.1	29.9	21.0	10.0	6.6	7.8	18.8	26.6	28.8
70°	24.4	22.2	15.5	7.8	5.5	6.6	14.4	19.9	22.2
72.5°	17.7	16.6	12.2	6.6	4.4	5.5	10.0	14.4	16.6
75°	13.3	12.2	8.9	4.4	3.3	4.4	7.8	11.1	12.2
77.5°	8.9	8.9	6.6	3.3	3.3	3.3	5.5	7.8	7.8
80°	6.6	5.5	4.4	2.2	2.2	2.2	3.3	5.5	5.5
82.5°	4.4	3.3	3.3	2.2	2.2	2.2	2.2	3.3	3.3
85°	2.2	2.2	2.2	1.1	1.1	1.1	1.1	2.2	2.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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)