

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: P856950

Luminaire Tested: **LD4C15D010 EU4159035 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856950
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 EU4159035 4LBMDSWWMH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

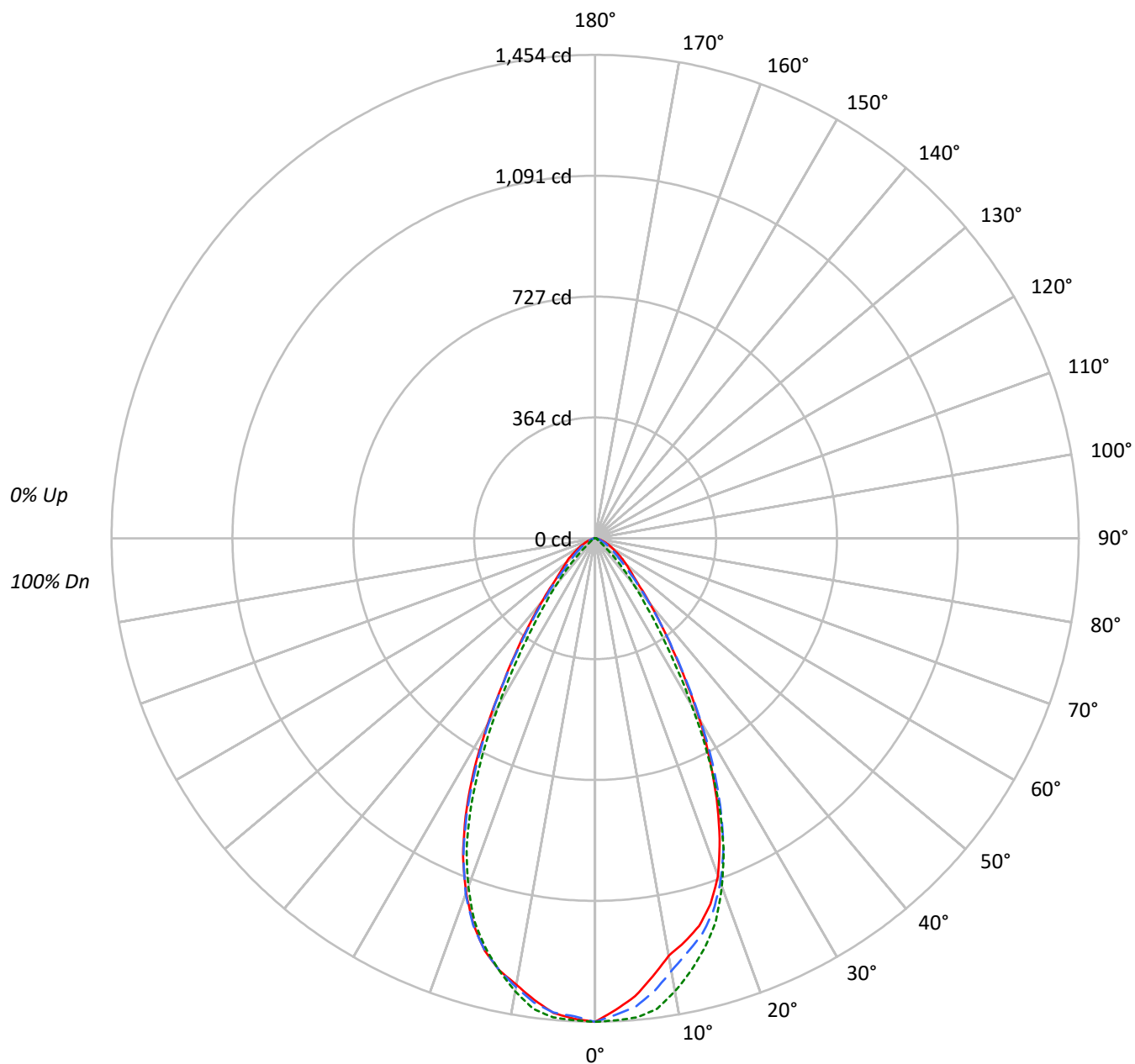
Lumens per Lamp: N/A
Luminaire Lumens: 1324.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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	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°	178678	178678	178678
5°	170494	178386	176734
10°	159017	172602	170082
15°	153553	162126	163270
20°	141249	145655	148296
25°	117078	119206	124994
30°	89059	82363	91613
35°	60306	49357	60980
40°	41072	28274	39805
45°	28494	14247	26930
50°	23184	5791	21674
55°	18763	3598	17071
60°	14890	2752	13514
65°	11744	2296	10436
70°	8872	2012	8082
75°	6408	1614	5886
80°	4740	1556	3962
85°	3101	1551	3101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	10.1
10°-20°	351.3	26.5
20°-30°	403.1	30.4
30°-40°	244.9	18.5
40°-50°	105.0	7.9
50°-60°	50.3	3.8
60°-70°	24.5	1.8
70°-80°	9.1	0.7
80°-90°	2.1	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°	888.2	67.1
0°-40°	1133.0	85.6
0°-60°	1288.3	97.3
0°-90°	1324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1324.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1454	1454	1454	1454	1454	
5°	1382	1413	1446	1432	1433	128
15°	1207	1235	1275	1283	1284	336
25°	864	892	879	913	922	392
35°	402	408	329	398	407	258
45°	164	146	82	131	155	133
55°	88	65	17	58	80	79
65°	40	27	8	25	36	41
75°	14	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°	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4	1454.4
2.5°	1419.6	1435.3	1434.2	1447.7	1451.0	1447.7	1438.7	1447.7	1446.5
5°	1382.5	1400.5	1412.8	1435.3	1446.5	1444.3	1431.9	1434.2	1433.1
7.5°	1328.6	1351.1	1372.4	1406.1	1427.4	1426.3	1408.3	1405.0	1400.5
10°	1274.7	1296.0	1320.7	1355.6	1383.6	1388.1	1370.2	1365.7	1363.4
12.5°	1243.3	1260.1	1276.9	1307.3	1332.0	1341.0	1330.9	1332.0	1330.9
15°	1207.3	1224.2	1235.4	1257.9	1274.7	1287.1	1282.6	1289.3	1283.7
17.5°	1153.4	1173.6	1178.1	1195.0	1207.3	1215.2	1219.7	1226.4	1217.4
20°	1080.4	1096.1	1101.7	1108.5	1114.1	1124.2	1137.7	1144.4	1134.3
22.5°	978.2	1008.5	1007.4	1004.0	1009.7	1013.0	1034.4	1045.6	1037.7
25°	863.7	895.1	891.7	878.3	879.4	886.1	913.1	927.7	922.1
27.5°	743.5	772.7	764.8	739.0	732.3	742.4	777.2	794.0	790.7
30°	627.8	646.9	634.5	588.5	580.6	593.0	637.9	654.8	645.8
32.5°	503.1	517.7	512.1	456.0	442.5	454.8	507.6	523.4	513.2
35°	402.1	415.5	407.7	341.4	329.1	342.5	397.6	415.5	406.6
37.5°	322.3	332.4	322.3	251.6	240.3	253.8	306.6	330.2	319.0
40°	256.1	263.9	250.4	185.3	176.3	183.1	232.5	256.1	248.2
42.5°	202.2	207.8	193.2	135.9	125.8	134.8	175.2	196.5	192.0
45°	164.0	164.0	146.0	94.3	82.0	91.0	131.4	153.9	155.0
47.5°	140.4	137.0	114.6	62.9	47.2	59.5	104.4	128.0	131.4
50°	121.3	116.8	94.3	46.0	30.3	42.7	86.5	110.1	113.4
52.5°	104.4	101.1	78.6	35.9	21.3	32.6	73.0	95.5	98.8
55°	87.6	85.4	65.1	28.1	16.8	24.7	58.4	77.5	79.7
57.5°	71.9	68.5	52.8	23.6	13.5	20.2	48.3	64.0	66.3
60°	60.6	57.3	42.7	19.1	11.2	15.7	39.3	52.8	55.0
62.5°	50.5	47.2	34.8	15.7	9.0	13.5	31.4	42.7	44.9
65°	40.4	38.2	27.0	12.4	7.9	10.1	24.7	33.7	35.9
67.5°	32.6	30.3	21.3	10.1	6.7	7.9	19.1	27.0	29.2
70°	24.7	22.5	15.7	7.9	5.6	6.7	14.6	20.2	22.5
72.5°	18.0	16.8	12.4	6.7	4.5	5.6	10.1	14.6	16.8
75°	13.5	12.4	9.0	4.5	3.4	4.5	7.9	11.2	12.4
77.5°	9.0	9.0	6.7	3.4	3.4	3.4	5.6	7.9	7.9
80°	6.7	5.6	4.5	2.2	2.2	2.2	3.4	5.6	5.6
82.5°	4.5	3.4	3.4	2.2	2.2	2.2	2.2	3.4	3.4
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)