

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: P859125

Luminaire Tested: **LD4C55D010 EU4559040 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859125
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: LD4C55D010 EU4559040 4LBMDSWWMH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

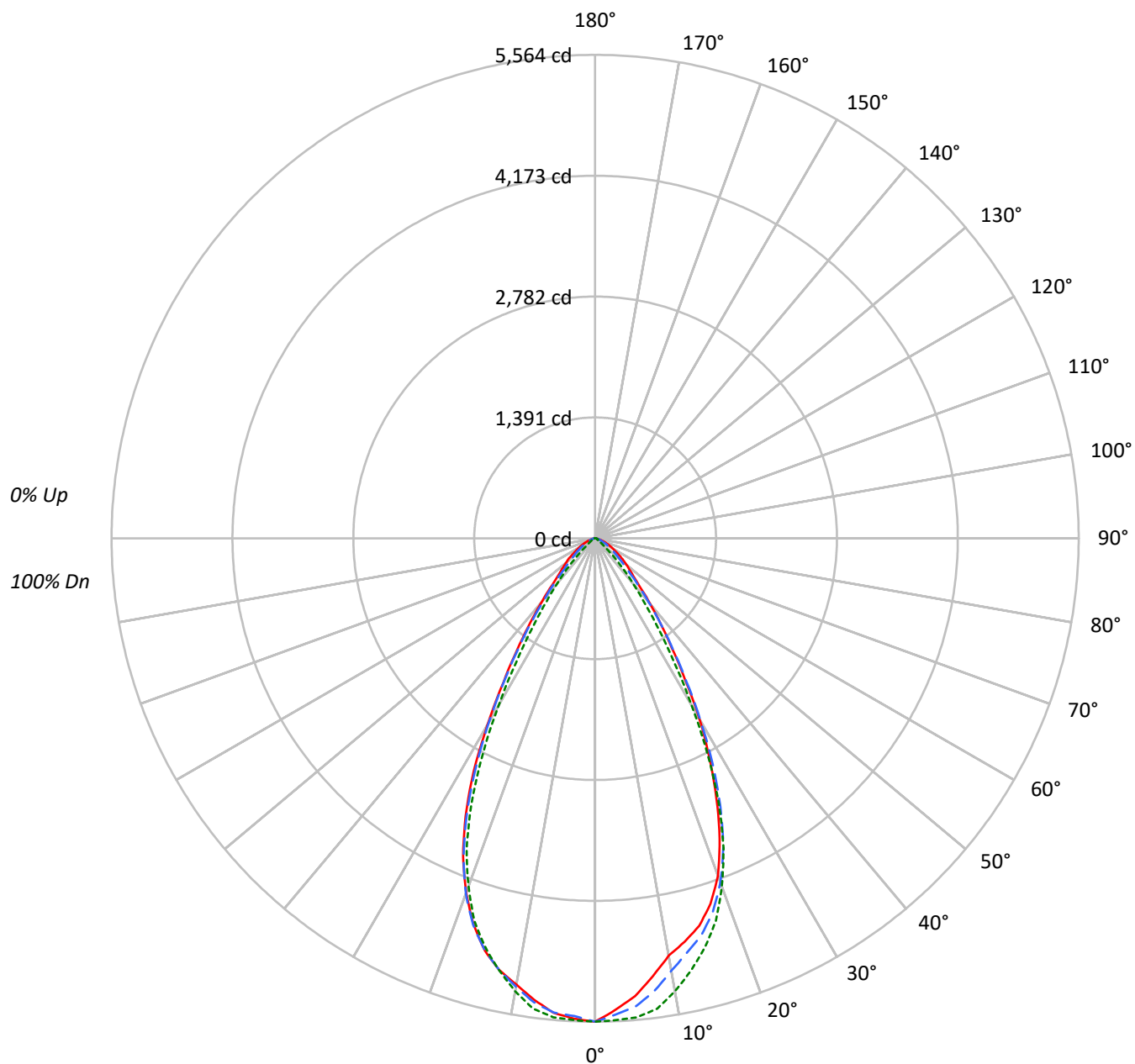
Lumens per Lamp: N/A
Luminaire Lumens: 5065.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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°	683532	683532	683532
5°	652242	682443	676080
10°	608325	660320	650664
15°	587427	620216	624591
20°	540353	557205	567324
25°	447856	456017	478139
30°	340703	315097	350448
35°	230679	188790	233258
40°	157102	108172	152275
45°	108988	54485	103011
50°	88683	22171	82930
55°	71775	13794	65327
60°	57004	10565	51721
65°	44971	8750	39971
70°	33944	7723	30855
75°	24493	6123	22452
80°	18253	6084	15211
85°	12122	6061	12122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.6	10.1
10°-20°	1344.1	26.5
20°-30°	1542.1	30.4
30°-40°	936.8	18.5
40°-50°	401.5	7.9
50°-60°	192.6	3.8
60°-70°	93.7	1.8
70°-80°	34.8	0.7
80°-90°	8.0	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°	3397.7	67.1
0°-40°	4334.5	85.6
0°-60°	4928.6	97.3
0°-90°	5065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5065.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5564	5564	5564	5564	5564	
5°	5289	5405	5534	5478	5482	491
15°	4619	4726	4876	4906	4911	1286
25°	3304	3411	3364	3493	3527	1499
35°	1538	1560	1259	1521	1555	986
45°	627	558	314	503	593	510
55°	335	249	64	223	305	302
65°	155	103	30	94	138	157
75°	52	34	13	30	47	57
85°	9	9	4	4	9	12
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°	5563.8	5563.8	5563.8	5563.8	5563.8	5563.8	5563.8	5563.8	5563.8
2.5°	5430.6	5490.8	5486.5	5538.1	5550.9	5538.1	5503.7	5538.1	5533.8
5°	5288.9	5357.6	5404.9	5490.8	5533.8	5525.2	5477.9	5486.5	5482.2
7.5°	5082.6	5168.6	5250.2	5379.1	5460.7	5456.4	5387.7	5374.8	5357.6
10°	4876.4	4958.0	5052.6	5185.7	5293.2	5310.3	5241.6	5224.4	5215.8
12.5°	4756.1	4820.6	4885.0	5001.0	5095.5	5129.9	5091.2	5095.5	5091.2
15°	4618.6	4683.1	4726.0	4812.0	4876.4	4923.7	4906.5	4932.3	4910.8
17.5°	4412.4	4489.7	4506.9	4571.4	4618.6	4648.7	4665.9	4691.7	4657.3
20°	4133.1	4193.3	4214.8	4240.5	4262.0	4300.7	4352.2	4378.0	4339.4
22.5°	3742.2	3858.2	3853.9	3841.0	3862.5	3875.3	3957.0	3999.9	3969.9
25°	3303.9	3424.2	3411.3	3359.8	3364.1	3389.9	3493.0	3548.8	3527.3
27.5°	2844.2	2955.9	2925.8	2827.0	2801.2	2839.9	2973.1	3037.5	3024.7
30°	2401.7	2474.7	2427.5	2251.3	2221.2	2268.5	2440.4	2504.8	2470.4
32.5°	1924.8	1980.6	1959.2	1744.3	1692.8	1740.0	1942.0	2002.1	1963.5
35°	1538.1	1589.7	1559.6	1306.1	1258.8	1310.4	1520.9	1589.7	1555.3
37.5°	1233.1	1271.7	1233.1	962.4	919.4	971.0	1172.9	1263.1	1220.2
40°	979.6	1009.7	958.1	708.9	674.5	700.3	889.4	979.6	949.5
42.5°	773.4	794.8	739.0	519.9	481.2	515.6	670.2	751.9	734.7
45°	627.3	627.3	558.5	360.9	313.6	348.0	502.7	588.6	592.9
47.5°	537.0	524.2	438.2	240.6	180.4	227.7	399.6	489.8	502.7
50°	464.0	446.8	360.9	176.2	116.0	163.3	330.8	421.0	433.9
52.5°	399.6	386.7	300.7	137.5	81.6	124.6	279.3	365.2	378.1
55°	335.1	326.5	249.2	107.4	64.4	94.5	223.4	296.5	305.0
57.5°	275.0	262.1	201.9	90.2	51.6	77.3	184.7	244.9	253.5
60°	232.0	219.1	163.3	73.0	43.0	60.1	150.4	201.9	210.5
62.5°	193.3	180.4	133.2	60.1	34.4	51.6	120.3	163.3	171.9
65°	154.7	146.1	103.1	47.3	30.1	38.7	94.5	128.9	137.5
67.5°	124.6	116.0	81.6	38.7	25.8	30.1	73.0	103.1	111.7
70°	94.5	85.9	60.1	30.1	21.5	25.8	55.9	77.3	85.9
72.5°	68.7	64.4	47.3	25.8	17.2	21.5	38.7	55.9	64.4
75°	51.6	47.3	34.4	17.2	12.9	17.2	30.1	43.0	47.3
77.5°	34.4	34.4	25.8	12.9	12.9	12.9	21.5	30.1	30.1
80°	25.8	21.5	17.2	8.6	8.6	8.6	12.9	21.5	21.5
82.5°	17.2	12.9	12.9	8.6	8.6	8.6	8.6	12.9	12.9
85°	8.6	8.6	8.6	4.3	4.3	4.3	4.3	8.6	8.6
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)