

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: P859081

Luminaire Tested: **LD4C55D010 EU4559030 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859081
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 EU4559030 4LBMDSWMW
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

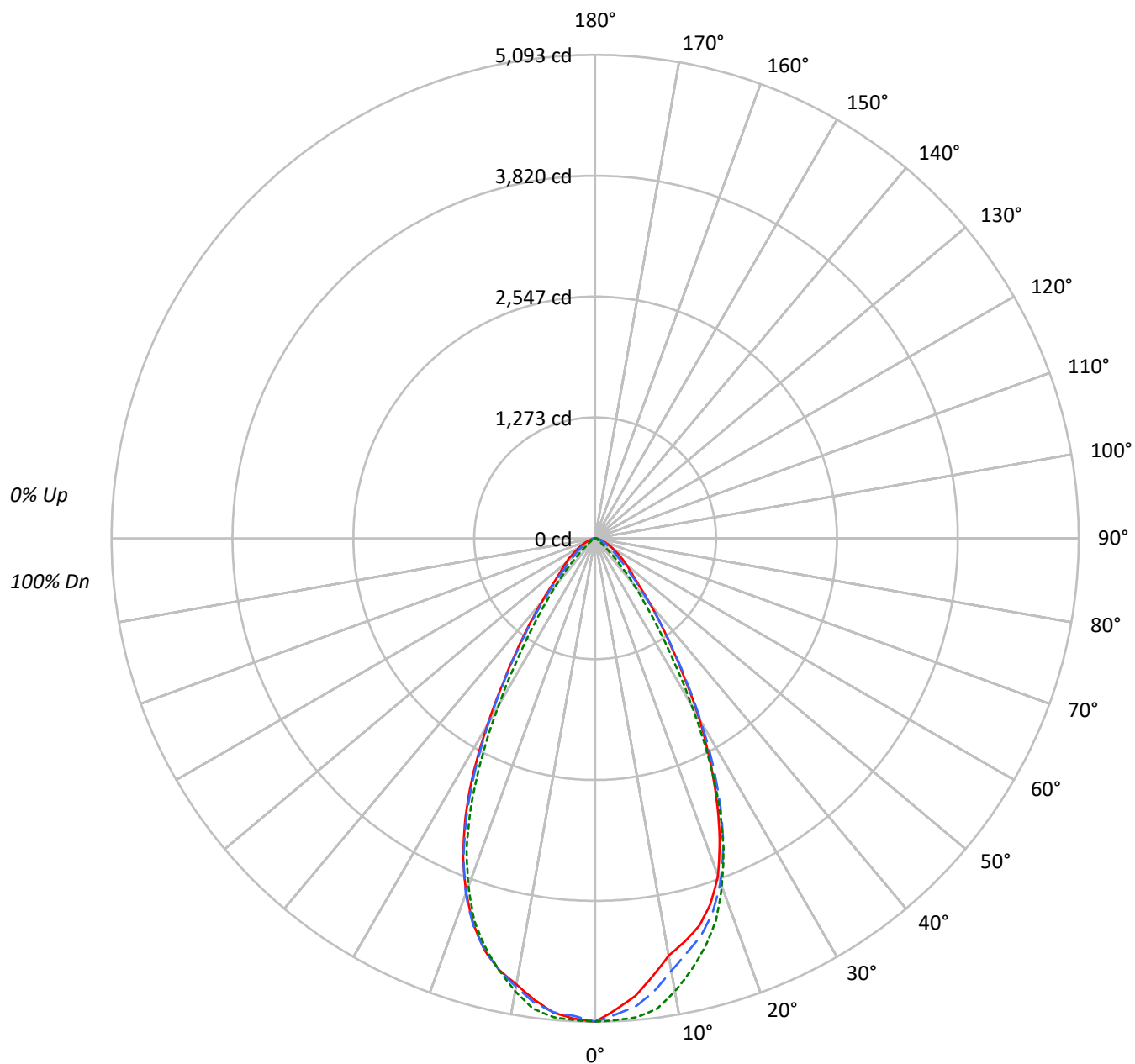
Lumens per Lamp: N/A
Luminaire Lumens: 4636.0 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
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°	625644	625644	625644
5°	596993	624642	618821
10°	556803	604382	595550
15°	537671	567688	571681
20°	494595	510009	519265
25°	409928	417384	437649
30°	311849	288413	320772
35°	211137	172803	213506
40°	143791	99015	139381
45°	99745	49881	94289
50°	81171	20298	75915
55°	65692	12637	59801
60°	52188	9656	47348
65°	41163	7994	36570
70°	31071	7076	28233
75°	22404	5601	20553
80°	16697	5589	13937
85°	11136	5497	11136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.2	10.1
10°-20°	1230.2	26.5
20°-30°	1411.5	30.4
30°-40°	857.5	18.5
40°-50°	367.5	7.9
50°-60°	176.3	3.8
60°-70°	85.7	1.8
70°-80°	31.8	0.7
80°-90°	7.3	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°	3109.9	67.1
0°-40°	3967.4	85.6
0°-60°	4511.1	97.3
0°-90°	4636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4636.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5093	5093	5093	5093	5093	
5°	4841	4947	5065	5014	5018	450
15°	4227	4326	4463	4491	4495	1177
25°	3024	3122	3079	3197	3229	1372
35°	1408	1428	1152	1392	1424	902
45°	574	511	287	460	543	466
55°	307	228	59	204	279	277
65°	142	94	28	86	126	144
75°	47	32	12	28	43	52
85°	8	8	4	4	8	11
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°	5092.6	5092.6	5092.6	5092.6	5092.6	5092.6	5092.6	5092.6	5092.6
2.5°	4970.7	5025.7	5021.8	5069.0	5080.8	5069.0	5037.5	5069.0	5065.1
5°	4840.9	4903.8	4947.1	5025.7	5065.1	5057.2	5013.9	5021.8	5017.9
7.5°	4652.1	4730.8	4805.5	4923.5	4998.2	4994.3	4931.3	4919.5	4903.8
10°	4463.4	4538.1	4624.6	4746.5	4844.8	4860.6	4797.6	4781.9	4774.0
12.5°	4353.3	4412.3	4471.2	4577.4	4663.9	4695.4	4660.0	4663.9	4660.0
15°	4227.4	4286.4	4325.7	4404.4	4463.4	4506.6	4490.9	4514.5	4494.8
17.5°	4038.7	4109.5	4125.2	4184.2	4227.4	4255.0	4270.7	4294.3	4262.8
20°	3783.1	3838.1	3857.8	3881.4	3901.0	3936.4	3983.6	4007.2	3971.8
22.5°	3425.2	3531.4	3527.4	3515.6	3535.3	3547.1	3621.8	3661.2	3633.6
25°	3024.1	3134.2	3122.4	3075.2	3079.1	3102.7	3197.1	3248.2	3228.6
27.5°	2603.3	2705.6	2678.0	2587.6	2564.0	2599.4	2721.3	2780.3	2768.5
30°	2198.3	2265.1	2221.9	2060.6	2033.1	2076.4	2233.7	2292.6	2261.2
32.5°	1761.8	1812.9	1793.2	1596.6	1549.4	1592.7	1777.5	1832.5	1797.1
35°	1407.8	1455.0	1427.5	1195.5	1152.2	1199.4	1392.1	1455.0	1423.6
37.5°	1128.6	1164.0	1128.6	880.9	841.6	888.7	1073.6	1156.2	1116.8
40°	896.6	924.1	876.9	648.9	617.4	641.0	814.0	896.6	869.1
42.5°	707.8	727.5	676.4	475.8	440.4	471.9	613.5	688.2	672.5
45°	574.1	574.1	511.2	330.3	287.1	318.5	460.1	538.8	542.7
47.5°	491.6	479.8	401.1	220.2	165.2	208.4	365.7	448.3	460.1
50°	424.7	409.0	330.3	161.2	106.2	149.4	302.8	385.4	397.2
52.5°	365.7	353.9	275.3	125.8	74.7	114.0	255.6	334.3	346.1
55°	306.7	298.9	228.1	98.3	59.0	86.5	204.5	271.3	279.2
57.5°	251.7	239.9	184.8	82.6	47.2	70.8	169.1	224.2	232.0
60°	212.4	200.6	149.4	66.9	39.3	55.1	137.6	184.8	192.7
62.5°	177.0	165.2	121.9	55.1	31.5	47.2	110.1	149.4	157.3
65°	141.6	133.7	94.4	43.3	27.5	35.4	86.5	118.0	125.8
67.5°	114.0	106.2	74.7	35.4	23.6	27.5	66.9	94.4	102.2
70°	86.5	78.6	55.1	27.5	19.7	23.6	51.1	70.8	78.6
72.5°	62.9	59.0	43.3	23.6	15.7	19.7	35.4	51.1	59.0
75°	47.2	43.3	31.5	15.7	11.8	15.7	27.5	39.3	43.3
77.5°	31.5	31.5	23.6	11.8	11.8	11.8	19.7	27.5	27.5
80°	23.6	19.7	15.7	7.9	7.9	7.9	11.8	19.7	19.7
82.5°	15.7	11.8	11.8	7.9	7.9	7.9	7.9	11.8	11.8
85°	7.9	7.9	7.9	3.9	3.9	3.9	3.9	7.9	7.9
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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)