

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: P859102

Luminaire Tested: **LD4C55D010 EU4559035 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859102
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 EU4559035 4LBMDSWMW
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

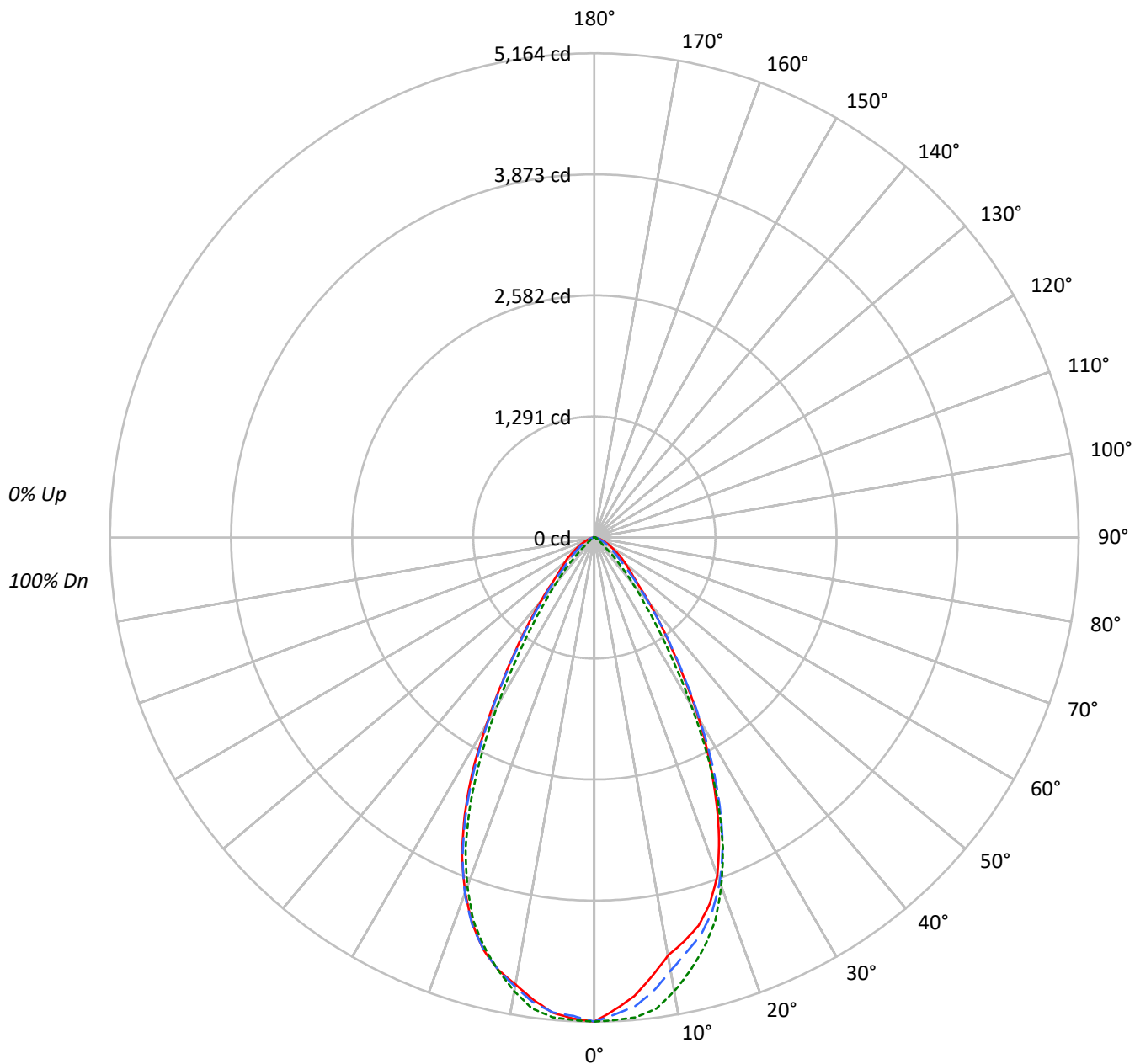
Lumens per Lamp: N/A
Luminaire Lumens: 4701.0 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P859102

CATALOG NUMBER: LD4C55D010 EU4559035 4LBMDSWMW

Luminous Intensity Polar Plot





TEST NUMBER: P859102

CATALOG NUMBER: LD4C55D010 EU4559035 4LBMDSWMW

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°	634415	634415	634415
5°	605367	633398	627491
10°	564613	612865	603908
15°	545214	575650	579707
20°	501524	517160	526547
25°	415676	423240	443776
30°	316218	292456	325268
35°	214106	175232	216491
40°	145812	100410	141337
45°	101152	50576	95610
50°	82318	20584	76986
55°	66613	12808	60637
60°	52901	9804	48011
65°	41744	8110	37093
70°	31502	7148	28664
75°	22737	5696	20838
80°	16909	5660	14079
85°	11277	5638	11277



TEST NUMBER: P859102

CATALOG NUMBER: LD4C55D010 EU4559035 4LBMDSWMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.8	10.1
10°-20°	1247.5	26.5
20°-30°	1431.3	30.4
30°-40°	869.5	18.5
40°-50°	372.6	7.9
50°-60°	178.8	3.8
60°-70°	86.9	1.8
70°-80°	32.3	0.7
80°-90°	7.4	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°	3153.5	67.1
0°-40°	4023.0	85.6
0°-60°	4574.4	97.3
0°-90°	4701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4701.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5164	5164	5164	5164	5164	
5°	4909	5016	5136	5084	5088	456
15°	4287	4386	4526	4554	4558	1193
25°	3066	3166	3122	3242	3274	1391
35°	1428	1448	1168	1412	1444	915
45°	582	518	291	467	550	473
55°	311	231	60	207	283	281
65°	144	96	28	88	128	146
75°	48	32	12	28	44	52
85°	8	8	4	4	8	11
90°	0	0	0	0	0	



TEST NUMBER: P859102

CATALOG NUMBER: LD4C55D010 EU4559035 4LBMDSWMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5164.0	5164.0	5164.0	5164.0	5164.0	5164.0	5164.0	5164.0	5164.0
2.5°	5040.4	5096.2	5092.2	5140.1	5152.0	5140.1	5108.2	5140.1	5136.1
5°	4908.8	4972.6	5016.4	5096.2	5136.1	5128.1	5084.2	5092.2	5088.2
7.5°	4717.4	4797.1	4872.9	4992.5	5068.3	5064.3	5000.5	4988.5	4972.6
10°	4526.0	4601.7	4689.5	4813.1	4912.8	4928.7	4864.9	4849.0	4841.0
12.5°	4414.3	4474.1	4533.9	4641.6	4729.3	4761.2	4725.3	4729.3	4725.3
15°	4286.7	4346.5	4386.4	4466.1	4526.0	4569.8	4553.9	4577.8	4557.9
17.5°	4095.3	4167.1	4183.0	4242.8	4286.7	4314.6	4330.6	4354.5	4322.6
20°	3836.1	3891.9	3911.9	3935.8	3955.7	3991.6	4039.5	4063.4	4027.5
22.5°	3473.2	3580.9	3576.9	3564.9	3584.9	3596.8	3672.6	3712.5	3684.6
25°	3066.5	3178.1	3166.2	3118.3	3122.3	3146.2	3241.9	3293.8	3273.8
27.5°	2639.8	2743.5	2715.6	2623.9	2599.9	2635.8	2759.4	2819.3	2807.3
30°	2229.1	2296.9	2253.0	2089.5	2061.6	2105.5	2265.0	2324.8	2292.9
32.5°	1786.5	1838.3	1818.4	1619.0	1571.1	1615.0	1802.4	1858.2	1822.3
35°	1427.6	1475.4	1447.5	1212.2	1168.4	1216.2	1411.6	1475.4	1443.5
37.5°	1144.4	1180.3	1144.4	893.2	853.4	901.2	1088.6	1172.4	1132.5
40°	909.2	937.1	889.2	658.0	626.1	650.0	825.4	909.2	881.3
42.5°	717.8	737.7	685.9	482.5	446.6	478.5	622.1	697.8	681.9
45°	582.2	582.2	518.4	335.0	291.1	323.0	466.6	546.3	550.3
47.5°	498.5	486.5	406.7	223.3	167.5	211.3	370.8	454.6	466.6
50°	430.7	414.7	335.0	163.5	107.7	151.5	307.0	390.8	402.8
52.5°	370.8	358.9	279.1	127.6	75.8	115.6	259.2	338.9	350.9
55°	311.0	303.1	231.3	99.7	59.8	87.7	207.4	275.1	283.1
57.5°	255.2	243.2	187.4	83.7	47.9	71.8	171.5	227.3	235.3
60°	215.3	203.4	151.5	67.8	39.9	55.8	139.6	187.4	195.4
62.5°	179.4	167.5	123.6	55.8	31.9	47.9	111.7	151.5	159.5
65°	143.6	135.6	95.7	43.9	27.9	35.9	87.7	119.6	127.6
67.5°	115.6	107.7	75.8	35.9	23.9	27.9	67.8	95.7	103.7
70°	87.7	79.8	55.8	27.9	19.9	23.9	51.8	71.8	79.8
72.5°	63.8	59.8	43.9	23.9	16.0	19.9	35.9	51.8	59.8
75°	47.9	43.9	31.9	16.0	12.0	16.0	27.9	39.9	43.9
77.5°	31.9	31.9	23.9	12.0	12.0	12.0	19.9	27.9	27.9
80°	23.9	19.9	16.0	8.0	8.0	8.0	12.0	19.9	19.9
82.5°	16.0	12.0	12.0	8.0	8.0	8.0	8.0	12.0	12.0
85°	8.0	8.0	8.0	4.0	4.0	4.0	4.0	8.0	8.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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)