

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: P859123

Luminaire Tested: **LD4C55D010 EU4559040 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859123
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 4LBMDSWMW
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

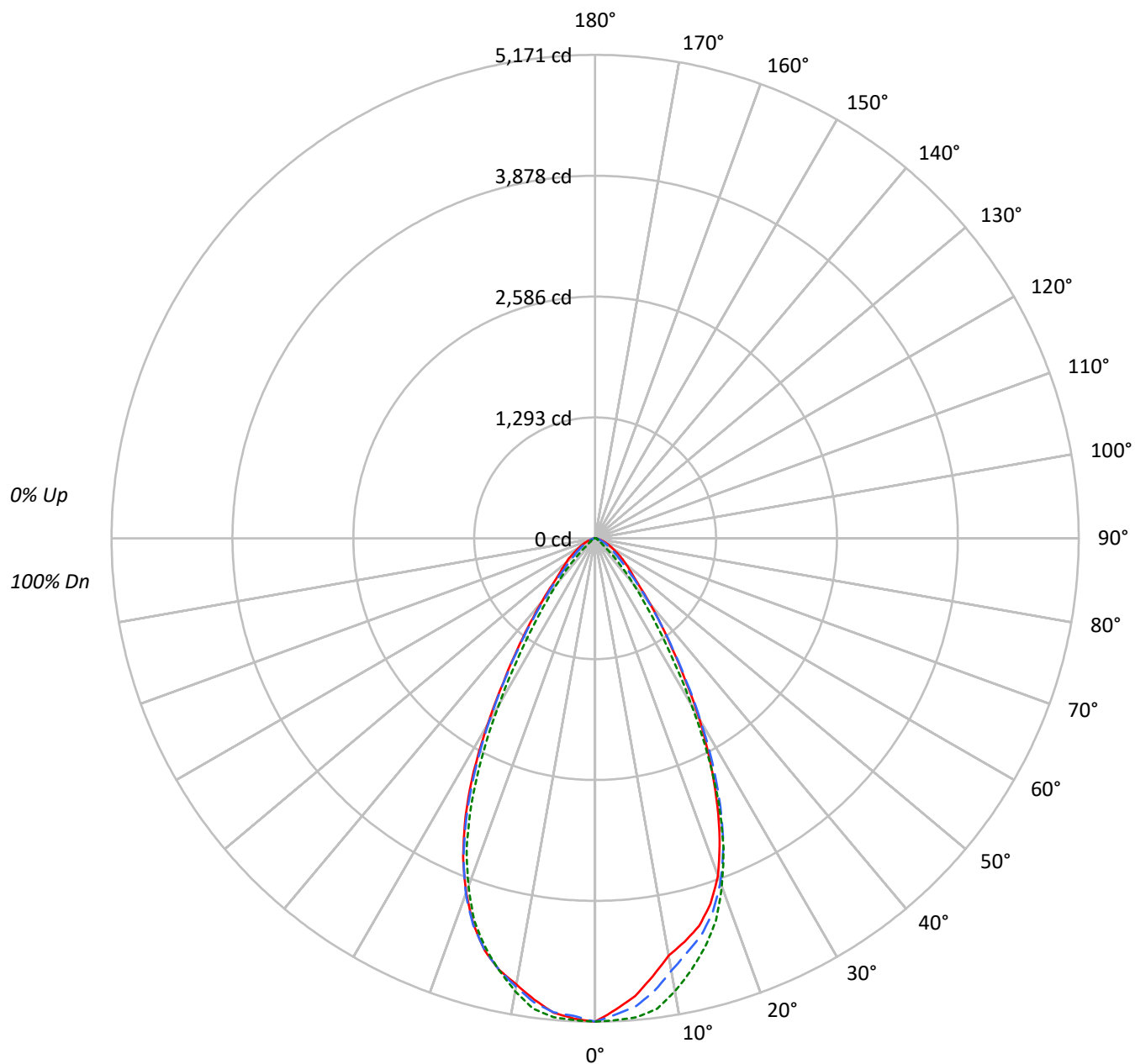
Lumens per Lamp: N/A
Luminaire Lumens: 4707.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	635226	635226	635226
5°	606131	634200	628292
10°	565324	613639	604682
15°	545913	576375	580445
20°	502164	517827	527214
25°	416204	423782	444345
30°	316615	292825	325680
35°	214376	175457	216776
40°	145988	100538	141514
45°	101274	50646	95731
50°	82414	20603	77081
55°	66698	12830	60722
60°	52974	9804	48060
65°	41773	8110	37151
70°	31538	7184	28700
75°	22737	5696	20838
80°	16980	5660	14150
85°	11277	5638	11277



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.4	10.1
10°-20°	1249.1	26.5
20°-30°	1433.1	30.4
30°-40°	870.6	18.5
40°-50°	373.1	7.9
50°-60°	179.0	3.8
60°-70°	87.0	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°	3157.6	67.1
0°-40°	4028.1	85.6
0°-60°	4580.2	97.3
0°-90°	4707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4707.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5171	5171	5171	5171	5171	
5°	4915	5023	5143	5091	5095	457
15°	4292	4392	4532	4560	4564	1195
25°	3070	3170	3126	3246	3278	1393
35°	1429	1449	1170	1413	1445	916
45°	583	519	292	467	551	474
55°	311	232	60	208	284	281
65°	144	96	28	88	128	146
75°	48	32	12	28	44	53
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°	5170.6	5170.6	5170.6	5170.6	5170.6	5170.6	5170.6	5170.6	5170.6
2.5°	5046.8	5102.7	5098.7	5146.6	5158.6	5146.6	5114.7	5146.6	5142.6
5°	4915.0	4978.9	5022.8	5102.7	5142.6	5134.6	5090.7	5098.7	5094.7
7.5°	4723.4	4803.2	4879.1	4998.9	5074.7	5070.8	5006.9	4994.9	4978.9
10°	4531.7	4607.6	4695.4	4819.2	4919.0	4935.0	4871.1	4855.1	4847.2
12.5°	4419.9	4479.8	4539.7	4647.5	4735.4	4767.3	4731.4	4735.4	4731.4
15°	4292.2	4352.1	4392.0	4471.8	4531.7	4575.7	4559.7	4583.6	4563.7
17.5°	4100.5	4172.4	4188.4	4248.3	4292.2	4320.1	4336.1	4360.0	4328.1
20°	3841.0	3896.9	3916.9	3940.8	3960.8	3996.7	4044.6	4068.6	4032.6
22.5°	3477.7	3585.5	3581.5	3569.5	3589.5	3601.4	3677.3	3717.2	3689.3
25°	3070.4	3182.2	3170.2	3122.3	3126.3	3150.3	3246.1	3298.0	3278.0
27.5°	2643.2	2747.0	2719.0	2627.2	2603.3	2639.2	2763.0	2822.9	2810.9
30°	2231.9	2299.8	2255.9	2092.2	2064.2	2108.2	2267.9	2327.8	2295.8
32.5°	1788.7	1840.6	1820.7	1621.0	1573.1	1617.1	1804.7	1860.6	1824.7
35°	1429.4	1477.3	1449.4	1213.8	1169.9	1217.8	1413.4	1477.3	1445.4
37.5°	1145.9	1181.8	1145.9	894.4	854.4	902.4	1090.0	1173.9	1133.9
40°	910.3	938.3	890.4	658.8	626.9	650.8	826.5	910.3	882.4
42.5°	718.7	738.7	686.7	483.1	447.2	479.1	622.9	698.7	682.8
45°	582.9	582.9	519.1	335.4	291.5	323.4	467.1	547.0	551.0
47.5°	499.1	487.1	407.3	223.6	167.7	211.6	371.3	455.2	467.1
50°	431.2	415.2	335.4	163.7	107.8	151.7	307.4	391.3	403.3
52.5°	371.3	359.3	279.5	127.8	75.9	115.8	259.5	339.4	351.4
55°	311.4	303.4	231.6	99.8	59.9	87.8	207.6	275.5	283.5
57.5°	255.5	243.6	187.7	83.8	47.9	71.9	171.7	227.6	235.6
60°	215.6	203.6	151.7	67.9	39.9	55.9	139.7	187.7	195.6
62.5°	179.7	167.7	123.8	55.9	31.9	47.9	111.8	151.7	159.7
65°	143.7	135.8	95.8	43.9	27.9	35.9	87.8	119.8	127.8
67.5°	115.8	107.8	75.9	35.9	24.0	27.9	67.9	95.8	103.8
70°	87.8	79.9	55.9	27.9	20.0	24.0	51.9	71.9	79.9
72.5°	63.9	59.9	43.9	24.0	16.0	20.0	35.9	51.9	59.9
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	24.0	12.0	12.0	12.0	20.0	27.9	27.9
80°	24.0	20.0	16.0	8.0	8.0	8.0	12.0	20.0	20.0
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)