

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: P859103

Luminaire Tested: **LD4C55D010 EU4559035 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859103
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 4LBMDSWWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

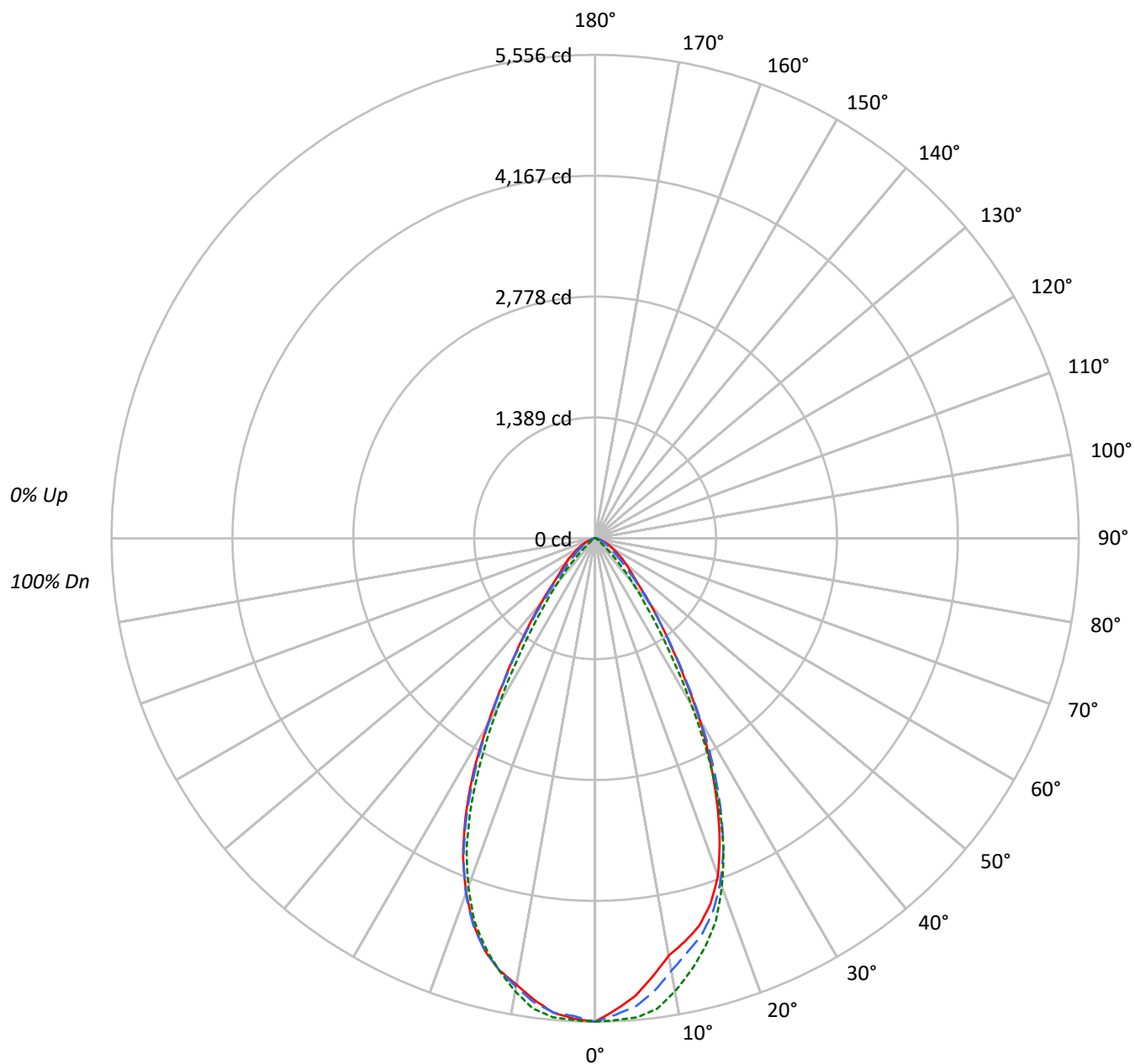
Lumens per Lamp: N/A
Luminaire Lumens: 5058.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	682586	682586	682586
5°	651341	681494	675143
10°	607489	659397	649766
15°	586613	619364	623726
20°	539608	556434	566540
25°	447246	455379	477488
30°	340235	314672	349966
35°	230364	188535	232928
40°	156878	108028	152066
45°	108831	54416	102872
50°	88568	22132	82815
55°	71689	13794	65242
60°	56930	10541	51648
65°	44913	8721	39913
70°	33908	7723	30819
75°	24445	6123	22404
80°	18182	6084	15211
85°	12122	6061	12122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.8	10.1
10°-20°	1342.2	26.5
20°-30°	1540.0	30.4
30°-40°	935.5	18.5
40°-50°	400.9	7.9
50°-60°	192.3	3.8
60°-70°	93.5	1.8
70°-80°	34.7	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°	3393.0	67.1
0°-40°	4328.5	85.6
0°-60°	4921.8	97.3
0°-90°	5058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5058.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5556	5556	5556	5556	5556	
5°	5282	5397	5526	5470	5475	491
15°	4612	4720	4870	4900	4904	1284
25°	3299	3407	3359	3488	3522	1497
35°	1536	1557	1257	1519	1553	984
45°	626	558	313	502	592	509
55°	335	249	64	223	305	302
65°	154	103	30	94	137	157
75°	52	34	13	30	47	56
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°	5556.1	5556.1	5556.1	5556.1	5556.1	5556.1	5556.1	5556.1	5556.1
2.5°	5423.1	5483.2	5478.9	5530.4	5543.3	5530.4	5496.1	5530.4	5526.1
5°	5281.6	5350.2	5397.4	5483.2	5526.1	5517.5	5470.3	5478.9	5474.6
7.5°	5075.6	5161.4	5242.9	5371.6	5453.2	5448.9	5380.2	5367.4	5350.2
10°	4869.7	4951.2	5045.6	5178.6	5285.8	5303.0	5234.4	5217.2	5208.6
12.5°	4749.5	4813.9	4878.2	4994.1	5088.5	5122.8	5084.2	5088.5	5084.2
15°	4612.2	4676.6	4719.5	4805.3	4869.7	4916.9	4899.7	4925.4	4904.0
17.5°	4406.3	4483.5	4500.7	4565.0	4612.2	4642.3	4659.4	4685.2	4650.9
20°	4127.4	4187.5	4208.9	4234.7	4256.1	4294.7	4346.2	4372.0	4333.4
22.5°	3737.0	3852.8	3848.5	3835.7	3857.1	3870.0	3951.5	3994.4	3964.4
25°	3299.4	3419.5	3406.6	3355.1	3359.4	3385.2	3488.1	3543.9	3522.5
27.5°	2840.3	2951.8	2921.8	2823.1	2797.4	2836.0	2969.0	3033.4	3020.5
30°	2398.4	2471.3	2424.1	2248.2	2218.2	2265.4	2437.0	2501.3	2467.0
32.5°	1922.1	1977.9	1956.4	1741.9	1690.4	1737.6	1939.3	1999.4	1960.7
35°	1536.0	1587.5	1557.4	1304.3	1257.1	1308.6	1518.8	1587.5	1553.1
37.5°	1231.4	1270.0	1231.4	961.1	918.2	969.6	1171.3	1261.4	1218.5
40°	978.2	1008.3	956.8	707.9	673.6	699.3	888.1	978.2	948.2
42.5°	772.3	793.7	738.0	519.1	480.5	514.9	669.3	750.8	733.7
45°	626.4	626.4	557.8	360.4	313.2	347.5	502.0	587.8	592.1
47.5°	536.3	523.4	437.6	240.3	180.2	227.4	399.0	489.1	502.0
50°	463.4	446.2	360.4	175.9	115.8	163.0	330.4	420.5	433.3
52.5°	399.0	386.1	300.3	137.3	81.5	124.4	278.9	364.7	377.6
55°	334.7	326.1	248.8	107.3	64.4	94.4	223.1	296.0	304.6
57.5°	274.6	261.7	201.7	90.1	51.5	77.2	184.5	244.6	253.1
60°	231.7	218.8	163.0	72.9	42.9	60.1	150.2	201.7	210.2
62.5°	193.1	180.2	133.0	60.1	34.3	51.5	120.1	163.0	171.6
65°	154.5	145.9	103.0	47.2	30.0	38.6	94.4	128.7	137.3
67.5°	124.4	115.8	81.5	38.6	25.7	30.0	72.9	103.0	111.6
70°	94.4	85.8	60.1	30.0	21.5	25.7	55.8	77.2	85.8
72.5°	68.6	64.4	47.2	25.7	17.2	21.5	38.6	55.8	64.4
75°	51.5	47.2	34.3	17.2	12.9	17.2	30.0	42.9	47.2
77.5°	34.3	34.3	25.7	12.9	12.9	12.9	21.5	30.0	30.0
80°	25.7	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)