

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: P859121

Luminaire Tested: **LD4C55D010 EU4559040 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859121
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 4LBMDSWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

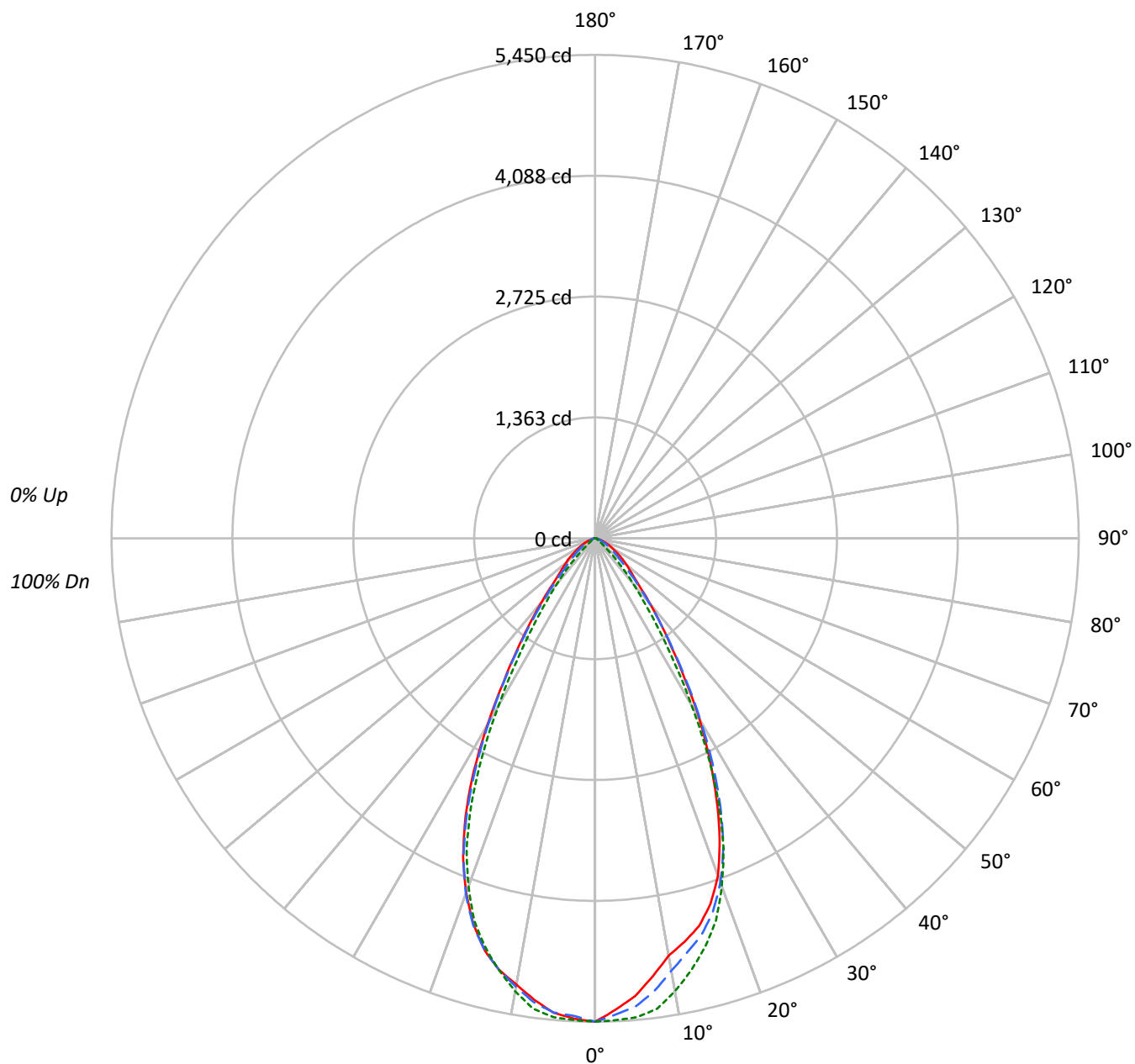
Lumens per Lamp: N/A
Luminaire Lumens: 4961.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	669502	669502	669502
5°	638849	668422	662194
10°	595837	646760	637304
15°	575370	607485	611758
20°	529266	545766	555675
25°	438666	446650	468325
30°	333709	308628	343256
35°	225939	184921	228474
40°	153879	105959	149148
45°	106747	53373	100891
50°	86867	21712	81229
55°	70297	13515	64000
60°	55825	10344	50665
65°	44040	8576	39157
70°	33262	7543	30245
75°	23971	5981	21977
80°	17829	5943	14857
85°	11841	5920	11841



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.0	10.1
10°-20°	1316.5	26.5
20°-30°	1510.4	30.4
30°-40°	917.6	18.5
40°-50°	393.2	7.9
50°-60°	188.7	3.8
60°-70°	91.7	1.8
70°-80°	34.0	0.7
80°-90°	7.8	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°	3327.9	67.1
0°-40°	4245.5	85.6
0°-60°	4827.4	97.3
0°-90°	4961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4961.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5450	5450	5450	5450	5450	
5°	5180	5294	5420	5365	5370	481
15°	4524	4629	4776	4806	4810	1259
25°	3236	3341	3295	3421	3455	1468
35°	1506	1528	1233	1490	1523	966
45°	614	547	307	492	581	499
55°	328	244	63	219	299	296
65°	152	101	30	93	135	154
75°	50	34	13	30	46	55
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°	5449.6	5449.6	5449.6	5449.6	5449.6	5449.6	5449.6	5449.6	5449.6
2.5°	5319.1	5378.0	5373.8	5424.3	5437.0	5424.3	5390.7	5424.3	5420.1
5°	5180.3	5247.6	5293.9	5378.0	5420.1	5411.7	5365.4	5373.8	5369.6
7.5°	4978.3	5062.4	5142.4	5268.6	5348.6	5344.4	5277.1	5264.4	5247.6
10°	4776.3	4856.2	4948.8	5079.3	5184.5	5201.3	5134.0	5117.1	5108.7
12.5°	4658.4	4721.6	4784.7	4898.3	4990.9	5024.6	4986.7	4990.9	4986.7
15°	4523.8	4586.9	4629.0	4713.2	4776.3	4822.6	4805.7	4831.0	4809.9
17.5°	4321.8	4397.5	4414.4	4477.5	4523.8	4553.2	4570.1	4595.3	4561.7
20°	4048.3	4107.2	4128.2	4153.5	4174.5	4212.4	4262.9	4288.1	4250.3
22.5°	3665.3	3778.9	3774.7	3762.1	3783.1	3795.8	3875.7	3917.8	3888.4
25°	3236.1	3353.9	3341.3	3290.8	3295.0	3320.2	3421.2	3476.0	3454.9
27.5°	2785.8	2895.2	2865.8	2769.0	2743.7	2781.6	2912.1	2975.2	2962.6
30°	2352.4	2423.9	2377.6	2205.1	2175.6	2221.9	2390.2	2453.4	2419.7
32.5°	1885.3	1940.0	1918.9	1708.5	1658.0	1704.3	1902.1	1961.0	1923.1
35°	1506.5	1557.0	1527.6	1279.3	1233.0	1283.5	1489.7	1557.0	1523.4
37.5°	1207.7	1245.6	1207.7	942.6	900.5	951.0	1148.8	1237.2	1195.1
40°	959.5	988.9	938.4	694.3	660.7	685.9	871.1	959.5	930.0
42.5°	757.5	778.5	723.8	509.2	471.3	505.0	656.5	736.4	719.6
45°	614.4	614.4	547.1	353.5	307.2	340.9	492.4	576.5	580.7
47.5°	526.0	513.4	429.2	235.7	176.7	223.0	391.4	479.7	492.4
50°	454.5	437.7	353.5	172.5	113.6	159.9	324.0	412.4	425.0
52.5°	391.4	378.7	294.6	134.7	80.0	122.0	273.5	357.7	370.3
55°	328.2	319.8	244.1	105.2	63.1	92.6	218.8	290.4	298.8
57.5°	269.3	256.7	197.8	88.4	50.5	75.7	181.0	239.9	248.3
60°	227.2	214.6	159.9	71.5	42.1	58.9	147.3	197.8	206.2
62.5°	189.4	176.7	130.5	58.9	33.7	50.5	117.8	159.9	168.3
65°	151.5	143.1	101.0	46.3	29.5	37.9	92.6	126.2	134.7
67.5°	122.0	113.6	80.0	37.9	25.2	29.5	71.5	101.0	109.4
70°	92.6	84.2	58.9	29.5	21.0	25.2	54.7	75.7	84.2
72.5°	67.3	63.1	46.3	25.2	16.8	21.0	37.9	54.7	63.1
75°	50.5	46.3	33.7	16.8	12.6	16.8	29.5	42.1	46.3
77.5°	33.7	33.7	25.2	12.6	12.6	12.6	21.0	29.5	29.5
80°	25.2	21.0	16.8	8.4	8.4	8.4	12.6	21.0	21.0
82.5°	16.8	12.6	12.6	8.4	8.4	8.4	8.4	12.6	12.6
85°	8.4	8.4	8.4	4.2	4.2	4.2	4.2	8.4	8.4
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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)