

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: P859100

Luminaire Tested: **LD4C55D010 EU4559035 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859100
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 4LBMDSWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

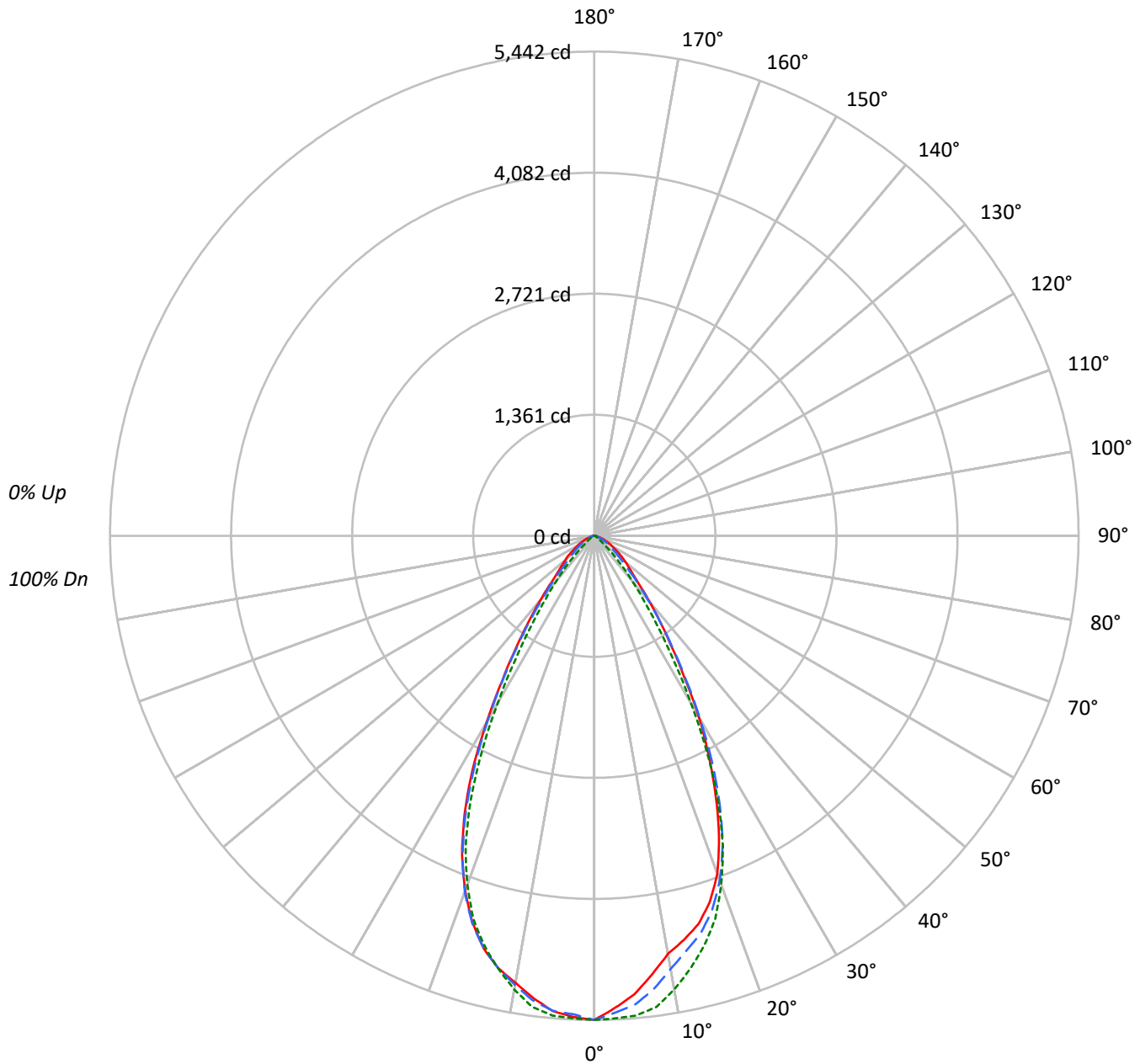
Lumens per Lamp: N/A
Luminaire Lumens: 4954.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	668556	668556	668556
5°	637949	667484	661269
10°	594989	645849	636405
15°	574556	606620	610906
20°	528521	544994	554891
25°	438042	446026	467661
30°	333241	308203	342774
35°	225624	184666	228144
40°	153654	105815	148939
45°	106590	53304	100752
50°	86733	21693	81114
55°	70211	13494	63914
60°	55751	10320	50591
65°	43982	8546	39099
70°	33190	7543	30173
75°	23923	5981	21930
80°	17829	5943	14857
85°	11841	5920	11841



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.3	10.1
10°-20°	1314.6	26.5
20°-30°	1508.3	30.4
30°-40°	916.3	18.5
40°-50°	392.7	7.9
50°-60°	188.4	3.8
60°-70°	91.6	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°	3323.2	67.1
0°-40°	4239.5	85.6
0°-60°	4820.6	97.3
0°-90°	4954.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4954.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5442	5442	5442	5442	5442	
5°	5173	5286	5412	5358	5362	481
15°	4517	4622	4770	4799	4803	1258
25°	3232	3337	3290	3416	3450	1466
35°	1504	1525	1231	1488	1521	964
45°	614	546	307	492	580	498
55°	328	244	63	218	298	296
65°	151	101	29	92	134	153
75°	50	34	13	29	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°	5441.9	5441.9	5441.9	5441.9	5441.9	5441.9	5441.9	5441.9	5441.9
2.5°	5311.6	5370.5	5366.3	5416.7	5429.3	5416.7	5383.1	5416.7	5412.5
5°	5173.0	5240.2	5286.4	5370.5	5412.5	5404.1	5357.9	5366.3	5362.1
7.5°	4971.2	5055.3	5135.1	5261.2	5341.0	5336.8	5269.6	5257.0	5240.2
10°	4769.5	4849.4	4941.8	5072.1	5177.2	5194.0	5126.7	5109.9	5101.5
12.5°	4651.9	4714.9	4777.9	4891.4	4983.9	5017.5	4979.7	4983.9	4979.7
15°	4517.4	4580.4	4622.5	4706.5	4769.5	4815.8	4799.0	4824.2	4803.2
17.5°	4315.7	4391.3	4408.1	4471.2	4517.4	4546.8	4563.6	4588.8	4555.2
20°	4042.6	4101.4	4122.4	4147.6	4168.6	4206.4	4256.9	4282.1	4244.3
22.5°	3660.1	3773.6	3769.4	3756.8	3777.8	3790.4	3870.3	3912.3	3882.9
25°	3231.5	3349.2	3336.6	3286.1	3290.4	3315.6	3416.4	3471.0	3450.0
27.5°	2781.9	2891.1	2861.7	2765.1	2739.9	2777.7	2907.9	2971.0	2958.4
30°	2349.1	2420.5	2374.3	2202.0	2172.6	2218.8	2386.9	2449.9	2416.3
32.5°	1882.6	1937.2	1916.2	1706.1	1655.7	1701.9	1899.4	1958.2	1920.4
35°	1504.4	1554.8	1525.4	1277.5	1231.3	1281.7	1487.6	1554.8	1521.2
37.5°	1206.0	1243.9	1206.0	941.3	899.3	949.7	1147.2	1235.5	1193.4
40°	958.1	987.5	937.1	693.4	659.8	685.0	869.9	958.1	928.7
42.5°	756.4	777.4	722.8	508.5	470.7	504.3	655.5	735.4	718.6
45°	613.5	613.5	546.3	353.0	306.8	340.4	491.7	575.7	579.9
47.5°	525.3	512.7	428.6	235.3	176.5	222.7	390.8	479.1	491.7
50°	453.8	437.0	353.0	172.3	113.5	159.7	323.6	411.8	424.4
52.5°	390.8	378.2	294.2	134.5	79.8	121.9	273.1	357.2	369.8
55°	327.8	319.4	243.7	105.1	63.0	92.4	218.5	290.0	298.4
57.5°	268.9	256.3	197.5	88.2	50.4	75.6	180.7	239.5	247.9
60°	226.9	214.3	159.7	71.4	42.0	58.8	147.1	197.5	205.9
62.5°	189.1	176.5	130.3	58.8	33.6	50.4	117.7	159.7	168.1
65°	151.3	142.9	100.9	46.2	29.4	37.8	92.4	126.1	134.5
67.5°	121.9	113.5	79.8	37.8	25.2	29.4	71.4	100.9	109.3
70°	92.4	84.0	58.8	29.4	21.0	25.2	54.6	75.6	84.0
72.5°	67.2	63.0	46.2	25.2	16.8	21.0	37.8	54.6	63.0
75°	50.4	46.2	33.6	16.8	12.6	16.8	29.4	42.0	46.2
77.5°	33.6	33.6	25.2	12.6	12.6	12.6	21.0	29.4	29.4
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)