

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: P859078

Luminaire Tested: **LD4C55D010 EU4559030 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859078
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 EU4559030 4LBMDSWGPH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

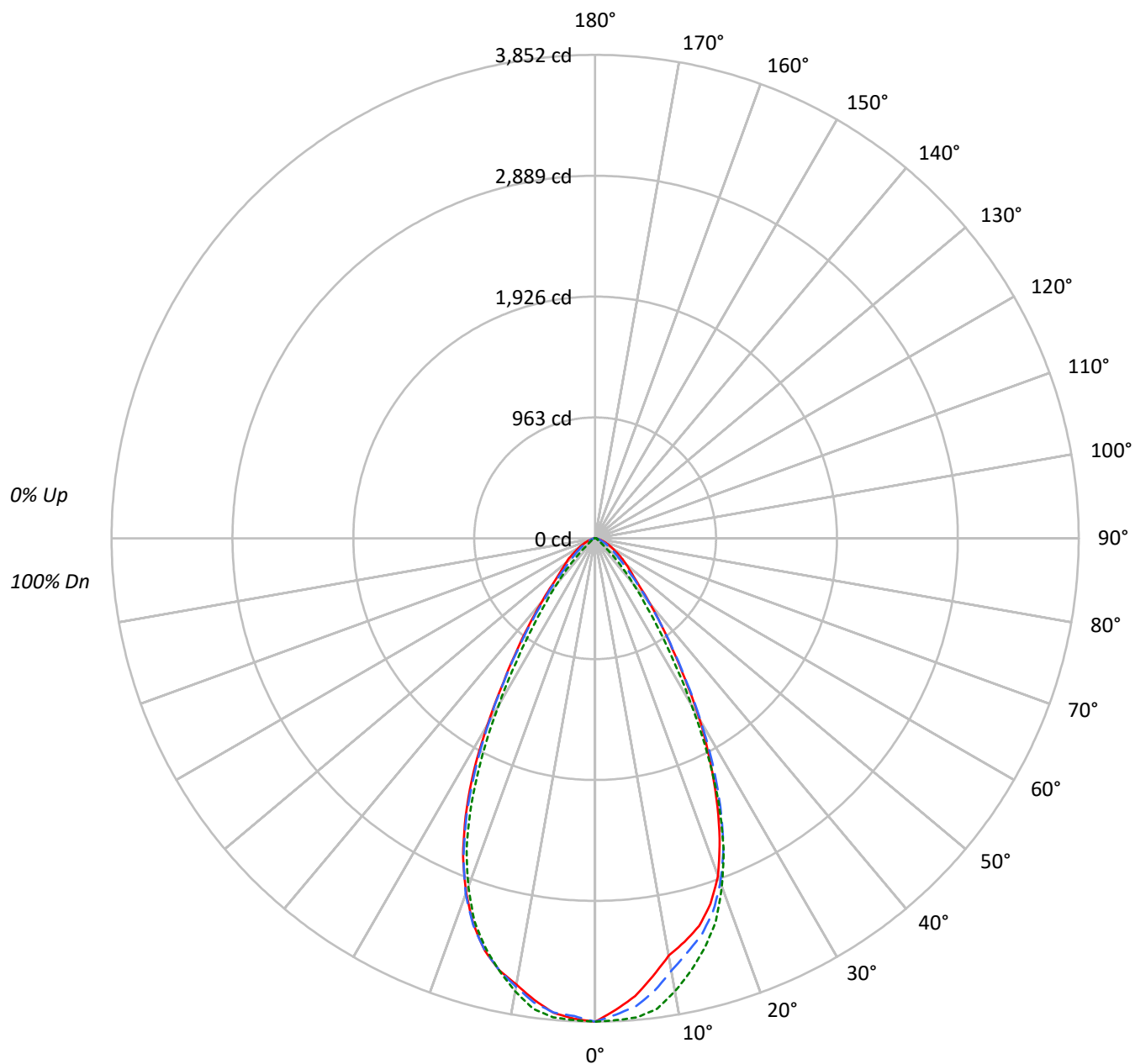
Lumens per Lamp: N/A
Luminaire Lumens: 3507.0 lumens
Efficiency: N/A
Efficacy: 54.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	473281	473281	473281
5°	451608	472523	468121
10°	421201	457204	450517
15°	406732	429435	432462
20°	374146	385808	392815
25°	310093	315745	331063
30°	235897	218179	242650
35°	159725	130719	161510
40°	108782	74895	105430
45°	75456	37737	71321
50°	61409	15347	57433
55°	49692	9553	45237
60°	39461	7297	35824
65°	31134	6046	27674
70°	23492	5352	21372
75°	16946	4225	15522
80°	12593	4174	10542
85°	8317	4229	8317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.2	10.1
10°-20°	930.6	26.5
20°-30°	1067.7	30.4
30°-40°	648.6	18.5
40°-50°	278.0	7.9
50°-60°	133.4	3.8
60°-70°	64.8	1.8
70°-80°	24.0	0.7
80°-90°	5.5	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°	2352.6	67.1
0°-40°	3001.2	85.6
0°-60°	3412.6	97.3
0°-90°	3507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3507.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3852	3852	3852	3852	3852	
5°	3662	3742	3832	3793	3796	340
15°	3198	3272	3376	3397	3400	890
25°	2288	2362	2329	2418	2442	1038
35°	1065	1080	872	1053	1077	683
45°	434	387	217	348	410	353
55°	232	172	45	155	211	209
65°	107	71	21	65	95	109
75°	36	24	9	21	33	39
85°	6	6	3	3	6	8
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°	3852.4	3852.4	3852.4	3852.4	3852.4	3852.4	3852.4	3852.4	3852.4
2.5°	3760.2	3801.8	3798.8	3834.5	3843.5	3834.5	3810.7	3834.5	3831.6
5°	3662.0	3709.6	3742.3	3801.8	3831.6	3825.6	3792.9	3798.8	3795.9
7.5°	3519.2	3578.7	3635.2	3724.5	3781.0	3778.0	3730.4	3721.5	3709.6
10°	3376.4	3432.9	3498.4	3590.6	3665.0	3676.9	3629.3	3617.4	3611.4
12.5°	3293.1	3337.7	3382.4	3462.7	3528.1	3551.9	3525.2	3528.1	3525.2
15°	3197.9	3242.6	3272.3	3331.8	3376.4	3409.1	3397.2	3415.1	3400.2
17.5°	3055.1	3108.7	3120.6	3165.2	3197.9	3218.8	3230.7	3248.5	3224.7
20°	2861.8	2903.4	2918.3	2936.1	2951.0	2977.8	3013.5	3031.3	3004.6
22.5°	2591.1	2671.4	2668.4	2659.5	2674.4	2683.3	2739.8	2769.6	2748.7
25°	2287.6	2370.9	2362.0	2326.3	2329.3	2347.1	2418.5	2457.2	2442.3
27.5°	1969.3	2046.7	2025.9	1957.4	1939.6	1966.4	2058.6	2103.2	2094.3
30°	1662.9	1713.5	1680.8	1558.8	1538.0	1570.7	1689.7	1734.3	1710.5
32.5°	1332.7	1371.4	1356.5	1207.8	1172.1	1204.8	1344.6	1386.3	1359.5
35°	1065.0	1100.7	1079.9	904.3	871.6	907.3	1053.1	1100.7	1076.9
37.5°	853.8	880.5	853.8	666.4	636.6	672.3	812.1	874.6	844.8
40°	678.3	699.1	663.4	490.8	467.0	484.9	615.8	678.3	657.4
42.5°	535.5	550.3	511.7	360.0	333.2	357.0	464.1	520.6	508.7
45°	434.3	434.3	386.7	249.9	217.2	241.0	348.1	407.5	410.5
47.5°	371.9	362.9	303.4	166.6	124.9	157.7	276.7	339.1	348.1
50°	321.3	309.4	249.9	122.0	80.3	113.0	229.1	291.5	300.5
52.5°	276.7	267.7	208.2	95.2	56.5	86.3	193.4	252.9	261.8
55°	232.0	226.1	172.5	74.4	44.6	65.4	154.7	205.3	211.2
57.5°	190.4	181.5	139.8	62.5	35.7	53.5	127.9	169.6	175.5
60°	160.6	151.7	113.0	50.6	29.7	41.6	104.1	139.8	145.8
62.5°	133.9	124.9	92.2	41.6	23.8	35.7	83.3	113.0	119.0
65°	107.1	101.1	71.4	32.7	20.8	26.8	65.4	89.2	95.2
67.5°	86.3	80.3	56.5	26.8	17.8	20.8	50.6	71.4	77.3
70°	65.4	59.5	41.6	20.8	14.9	17.8	38.7	53.5	59.5
72.5°	47.6	44.6	32.7	17.8	11.9	14.9	26.8	38.7	44.6
75°	35.7	32.7	23.8	11.9	8.9	11.9	20.8	29.7	32.7
77.5°	23.8	23.8	17.8	8.9	8.9	8.9	14.9	20.8	20.8
80°	17.8	14.9	11.9	5.9	5.9	5.9	8.9	14.9	14.9
82.5°	11.9	8.9	8.9	5.9	5.9	5.9	5.9	8.9	8.9
85°	5.9	5.9	5.9	3.0	3.0	3.0	3.0	5.9	5.9
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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)