

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: P859099

Luminaire Tested: **LD4C55D010 EU4559035 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859099
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 4LBMDSWGPH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

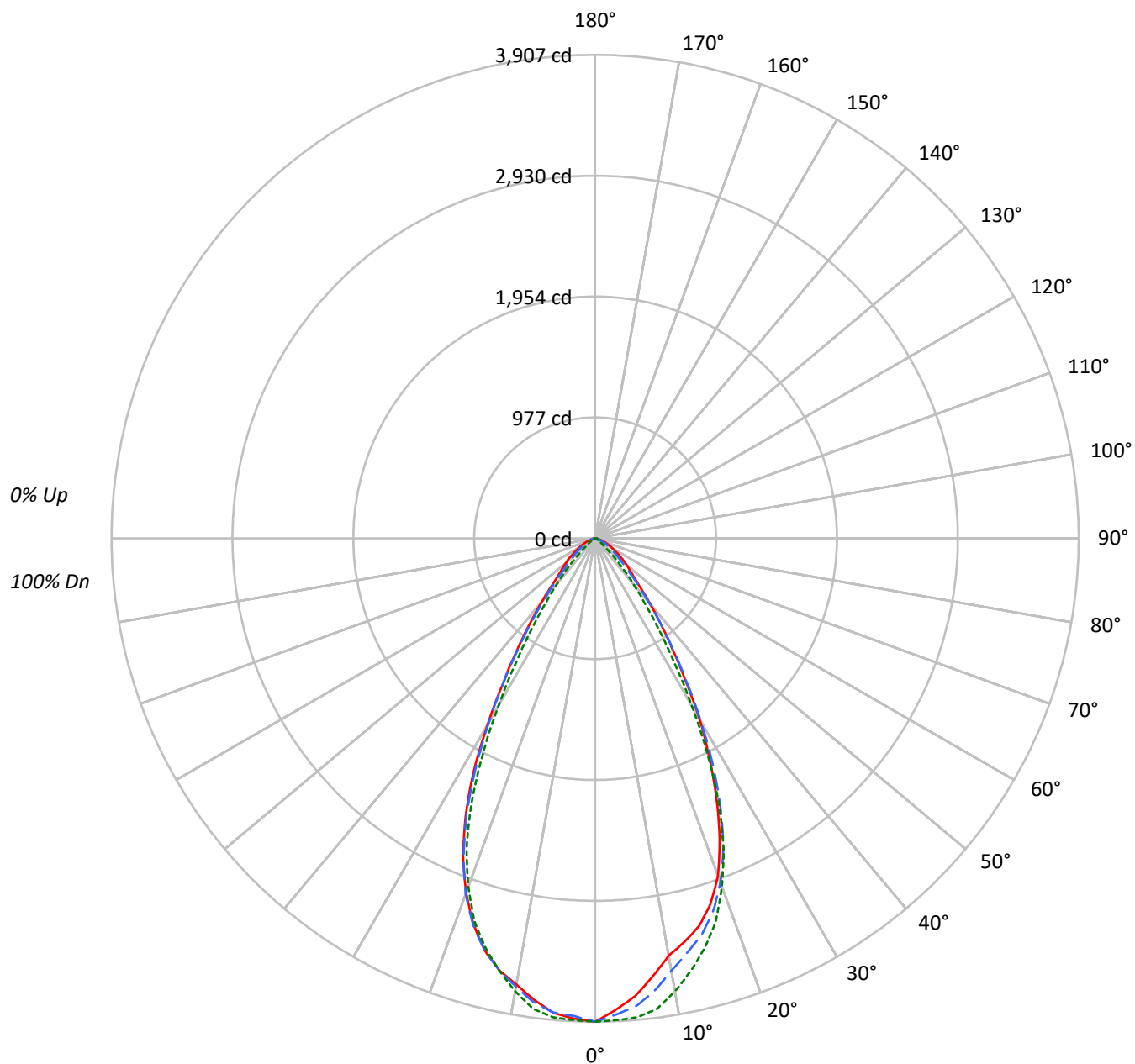
Lumens per Lamp: N/A
Luminaire Lumens: 3557.0 lumens
Efficiency: N/A
Efficacy: 55.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	480025	480025	480025
5°	458045	479257	474793
10°	427214	463716	456942
15°	412532	435566	438631
20°	379480	391312	398411
25°	314512	320246	335780
30°	239259	221286	246111
35°	162005	132579	163804
40°	110321	75969	106937
45°	76533	38275	72346
50°	62288	15577	58236
55°	50399	9703	45879
60°	40026	7420	36315
65°	31570	6134	28081
70°	23851	5424	21660
75°	17183	4319	15759
80°	12805	4245	10683
85°	8458	4229	8458



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.2	10.1
10°-20°	943.9	26.5
20°-30°	1083.0	30.4
30°-40°	657.9	18.5
40°-50°	282.0	7.9
50°-60°	135.3	3.8
60°-70°	65.8	1.8
70°-80°	24.4	0.7
80°-90°	5.6	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°	2386.1	67.1
0°-40°	3044.0	85.6
0°-60°	3461.2	97.3
0°-90°	3557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3557.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3907	3907	3907	3907	3907	
5°	3714	3796	3886	3847	3850	345
15°	3244	3319	3425	3446	3449	903
25°	2320	2396	2362	2453	2477	1053
35°	1080	1095	884	1068	1092	692
45°	440	392	220	353	416	358
55°	235	175	45	157	214	212
65°	109	72	21	66	97	110
75°	36	24	9	21	33	40
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°	3907.3	3907.3	3907.3	3907.3	3907.3	3907.3	3907.3	3907.3	3907.3
2.5°	3813.8	3856.0	3853.0	3889.2	3898.3	3889.2	3865.1	3889.2	3886.2
5°	3714.2	3762.5	3795.7	3856.0	3886.2	3880.2	3847.0	3853.0	3850.0
7.5°	3569.4	3629.7	3687.1	3777.6	3834.9	3831.9	3783.6	3774.6	3762.5
10°	3424.6	3481.9	3548.3	3641.8	3717.2	3729.3	3681.0	3669.0	3662.9
12.5°	3340.1	3385.3	3430.6	3512.1	3578.4	3602.6	3575.4	3578.4	3575.4
15°	3243.5	3288.8	3319.0	3379.3	3424.6	3457.7	3445.7	3463.8	3448.7
17.5°	3098.7	3153.0	3165.1	3210.3	3243.5	3264.6	3276.7	3294.8	3270.7
20°	2902.6	2944.8	2959.9	2978.0	2993.1	3020.2	3056.5	3074.6	3047.4
22.5°	2628.0	2709.5	2706.5	2697.4	2712.5	2721.5	2778.9	2809.0	2787.9
25°	2320.2	2404.7	2395.7	2359.5	2362.5	2380.6	2453.0	2492.2	2477.1
27.5°	1997.4	2075.9	2054.7	1985.3	1967.2	1994.4	2087.9	2133.2	2124.1
30°	1686.6	1737.9	1704.7	1581.0	1559.9	1593.1	1713.8	1759.0	1734.9
32.5°	1351.7	1390.9	1375.9	1225.0	1188.8	1222.0	1363.8	1406.0	1378.9
35°	1080.2	1116.4	1095.3	917.2	884.0	920.3	1068.1	1116.4	1092.2
37.5°	865.9	893.1	865.9	675.9	645.7	681.9	823.7	887.1	856.9
40°	687.9	709.0	672.8	497.8	473.7	491.8	624.6	687.9	666.8
42.5°	543.1	558.2	519.0	365.1	337.9	362.1	470.7	528.0	515.9
45°	440.5	440.5	392.2	253.4	220.3	244.4	353.0	413.4	416.4
47.5°	377.2	368.1	307.8	169.0	126.7	159.9	280.6	344.0	353.0
50°	325.9	313.8	253.4	123.7	81.5	114.7	232.3	295.7	304.7
52.5°	280.6	271.6	211.2	96.6	57.3	87.5	196.1	256.5	265.5
55°	235.3	229.3	175.0	75.4	45.3	66.4	156.9	208.2	214.2
57.5°	193.1	184.1	141.8	63.4	36.2	54.3	129.7	172.0	178.0
60°	162.9	153.9	114.7	51.3	30.2	42.2	105.6	141.8	147.8
62.5°	135.8	126.7	93.5	42.2	24.1	36.2	84.5	114.7	120.7
65°	108.6	102.6	72.4	33.2	21.1	27.2	66.4	90.5	96.6
67.5°	87.5	81.5	57.3	27.2	18.1	21.1	51.3	72.4	78.4
70°	66.4	60.3	42.2	21.1	15.1	18.1	39.2	54.3	60.3
72.5°	48.3	45.3	33.2	18.1	12.1	15.1	27.2	39.2	45.3
75°	36.2	33.2	24.1	12.1	9.1	12.1	21.1	30.2	33.2
77.5°	24.1	24.1	18.1	9.1	9.1	9.1	15.1	21.1	21.1
80°	18.1	15.1	12.1	6.0	6.0	6.0	9.1	15.1	15.1
82.5°	12.1	9.1	9.1	6.0	6.0	6.0	6.0	9.1	9.1
85°	6.0	6.0	6.0	3.0	3.0	3.0	3.0	6.0	6.0
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)