

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: P859120

Luminaire Tested: **LD4C55D010 EU4559040 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859120
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 4LBMDSWGPH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

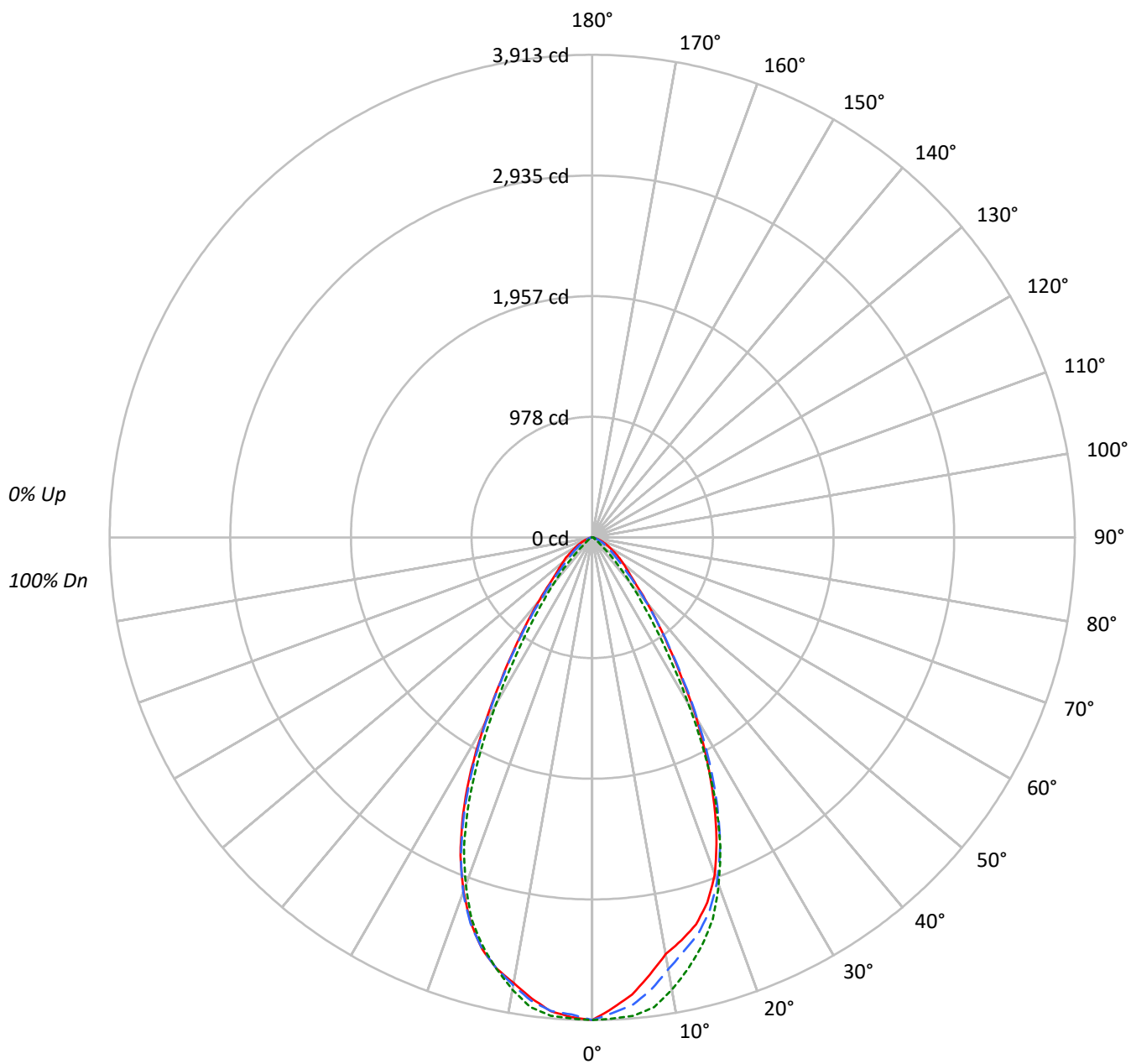
Lumens per Lamp: N/A
Luminaire Lumens: 3562.0 lumens
Efficiency: N/A
Efficacy: 55.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	480701	480701	480701
5°	458687	479935	475459
10°	427813	464377	457591
15°	413117	436176	439241
20°	380016	391861	398973
25°	314959	320693	336255
30°	239600	221598	246452
35°	162229	132774	164044
40°	110482	76081	107082
45°	76637	38327	72450
50°	62364	15596	58332
55°	50484	9703	45943
60°	40099	7420	36389
65°	31628	6163	28110
70°	23887	5424	21696
75°	17230	4319	15759
80°	12805	4245	10683
85°	8458	4229	8458



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.8	10.1
10°-20°	945.2	26.5
20°-30°	1084.5	30.4
30°-40°	658.8	18.5
40°-50°	282.3	7.9
50°-60°	135.4	3.8
60°-70°	65.9	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°	2389.5	67.1
0°-40°	3048.3	85.6
0°-60°	3466.1	97.3
0°-90°	3562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3562.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3913	3913	3913	3913	3913	
5°	3719	3801	3892	3852	3855	346
15°	3248	3324	3429	3450	3454	904
25°	2324	2399	2366	2456	2481	1054
35°	1082	1097	885	1070	1094	693
45°	441	393	221	354	417	358
55°	236	175	45	157	214	213
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°	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8	3912.8
2.5°	3819.1	3861.4	3858.4	3894.7	3903.7	3894.7	3870.5	3894.7	3891.7
5°	3719.4	3767.8	3801.0	3861.4	3891.7	3885.6	3852.4	3858.4	3855.4
7.5°	3574.4	3634.8	3692.2	3782.9	3840.3	3837.3	3788.9	3779.9	3767.8
10°	3429.4	3486.8	3553.3	3646.9	3722.5	3734.5	3686.2	3674.1	3668.1
12.5°	3344.8	3390.1	3435.4	3517.0	3583.5	3607.6	3580.4	3583.5	3580.4
15°	3248.1	3293.4	3323.6	3384.0	3429.4	3462.6	3450.5	3468.6	3453.5
17.5°	3103.1	3157.4	3169.5	3214.8	3248.1	3269.2	3281.3	3299.4	3275.3
20°	2906.7	2949.0	2964.1	2982.2	2997.3	3024.5	3060.8	3078.9	3051.7
22.5°	2631.7	2713.3	2710.3	2701.2	2716.3	2725.4	2782.8	2813.0	2791.8
25°	2323.5	2408.1	2399.0	2362.8	2365.8	2383.9	2456.5	2495.7	2480.6
27.5°	2000.2	2078.8	2057.6	1988.1	1970.0	1997.2	2090.9	2136.2	2127.1
30°	1689.0	1740.4	1707.1	1583.3	1562.1	1595.3	1716.2	1761.5	1737.3
32.5°	1353.6	1392.9	1377.8	1226.7	1190.5	1223.7	1365.7	1408.0	1380.8
35°	1081.7	1117.9	1096.8	918.5	885.3	921.5	1069.6	1117.9	1093.8
37.5°	867.2	894.4	867.2	676.8	646.6	682.9	824.9	888.3	858.1
40°	688.9	710.0	673.8	498.5	474.4	492.5	625.4	688.9	667.7
42.5°	543.9	559.0	519.7	365.6	338.4	362.6	471.3	528.8	516.7
45°	441.1	441.1	392.8	253.8	220.6	244.7	353.5	413.9	417.0
47.5°	377.7	368.6	308.2	169.2	126.9	160.1	281.0	344.4	353.5
50°	326.3	314.2	253.8	123.9	81.6	114.8	232.7	296.1	305.2
52.5°	281.0	271.9	211.5	96.7	57.4	87.6	196.4	256.8	265.9
55°	235.7	229.6	175.2	75.5	45.3	66.5	157.1	208.5	214.5
57.5°	193.4	184.3	142.0	63.5	36.3	54.4	129.9	172.2	178.3
60°	163.2	154.1	114.8	51.4	30.2	42.3	105.8	142.0	148.1
62.5°	136.0	126.9	93.7	42.3	24.2	36.3	84.6	114.8	120.9
65°	108.8	102.7	72.5	33.2	21.2	27.2	66.5	90.6	96.7
67.5°	87.6	81.6	57.4	27.2	18.1	21.2	51.4	72.5	78.6
70°	66.5	60.4	42.3	21.2	15.1	18.1	39.3	54.4	60.4
72.5°	48.3	45.3	33.2	18.1	12.1	15.1	27.2	39.3	45.3
75°	36.3	33.2	24.2	12.1	9.1	12.1	21.2	30.2	33.2
77.5°	24.2	24.2	18.1	9.1	9.1	9.1	15.1	21.2	21.2
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)