

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: P857711

Luminaire Tested: **LD4C35D010 EU4359027 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857711
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: LD4C35D010 EU4359027 4LBMDSWWMH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

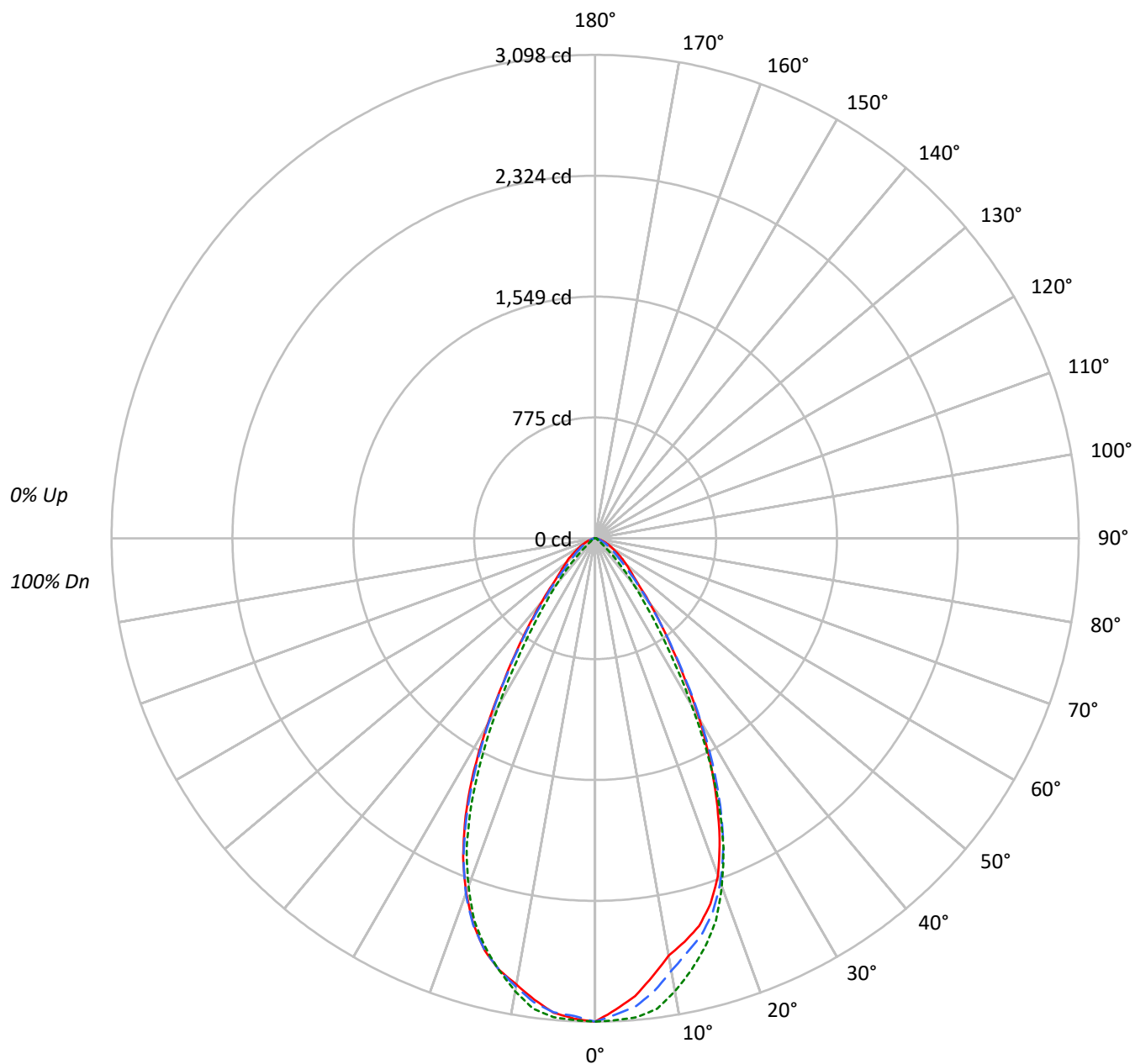
Lumens per Lamp: N/A
Luminaire Lumens: 2820.0 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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

TEST NUMBER: P857711

CATALOG NUMBER: LD4C35D010 EU4359027 4LBMDSWWMH

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°	380563	380563	380563
5°	363136	379957	376418
10°	338693	367634	362270
15°	327062	345313	347743
20°	300854	310228	315863
25°	249351	253892	266214
30°	189694	175437	195113
35°	128440	105118	129865
40°	87468	60236	84774
45°	60670	30335	57352
50°	49368	12347	46176
55°	39968	7689	36369
60°	31745	5872	28797
65°	25029	4855	22238
70°	18894	4310	17170
75°	13623	3418	12484
80°	10188	3396	8490
85°	6766	3383	6766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.8	10.1
10°-20°	748.3	26.5
20°-30°	858.6	30.4
30°-40°	521.6	18.5
40°-50°	223.5	7.9
50°-60°	107.2	3.8
60°-70°	52.1	1.8
70°-80°	19.4	0.7
80°-90°	4.5	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°	1891.7	67.1
0°-40°	2413.3	85.6
0°-60°	2744.1	97.3
0°-90°	2820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2820.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3098	3098	3098	3098	3098	
5°	2945	3009	3081	3050	3052	274
15°	2572	2631	2715	2732	2734	716
25°	1840	1899	1873	1945	1964	834
35°	856	868	701	847	866	549
45°	349	311	175	280	330	284
55°	187	139	36	124	170	168
65°	86	57	17	53	76	87
75°	29	19	7	17	26	31
85°	5	5	2	2	5	7
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°	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7
2.5°	3023.6	3057.1	3054.7	3083.4	3090.6	3083.4	3064.2	3083.4	3081.0
5°	2944.6	2982.9	3009.2	3057.1	3081.0	3076.2	3049.9	3054.7	3052.3
7.5°	2829.8	2877.7	2923.1	2994.9	3040.3	3037.9	2999.7	2992.5	2982.9
10°	2715.0	2760.4	2813.1	2887.2	2947.0	2956.6	2918.3	2908.8	2904.0
12.5°	2648.0	2683.9	2719.8	2784.4	2837.0	2856.1	2834.6	2837.0	2834.6
15°	2571.5	2607.4	2631.3	2679.1	2715.0	2741.3	2731.7	2746.1	2734.1
17.5°	2456.7	2499.7	2509.3	2545.2	2571.5	2588.2	2597.8	2612.1	2593.0
20°	2301.2	2334.7	2346.6	2361.0	2372.9	2394.5	2423.2	2437.5	2416.0
22.5°	2083.5	2148.1	2145.7	2138.5	2150.5	2157.6	2203.1	2227.0	2210.3
25°	1839.5	1906.5	1899.3	1870.6	1873.0	1887.3	1944.8	1975.8	1963.9
27.5°	1583.5	1645.7	1629.0	1574.0	1559.6	1581.2	1655.3	1691.2	1684.0
30°	1337.2	1377.8	1351.5	1253.4	1236.7	1263.0	1358.7	1394.6	1375.4
32.5°	1071.6	1102.7	1090.8	971.2	942.5	968.8	1081.2	1114.7	1093.2
35°	856.4	885.1	868.3	727.2	700.9	729.6	846.8	885.1	865.9
37.5°	686.5	708.1	686.5	535.8	511.9	540.6	653.0	703.3	679.3
40°	545.4	562.1	533.4	394.7	375.6	389.9	495.2	545.4	528.6
42.5°	430.6	442.5	411.4	289.4	267.9	287.0	373.2	418.6	409.0
45°	349.2	349.2	311.0	200.9	174.6	193.8	279.9	327.7	330.1
47.5°	299.0	291.8	244.0	134.0	100.5	126.8	222.5	272.7	279.9
50°	258.3	248.8	200.9	98.1	64.6	90.9	184.2	234.4	241.6
52.5°	222.5	215.3	167.4	76.5	45.4	69.4	155.5	203.3	210.5
55°	186.6	181.8	138.7	59.8	35.9	52.6	124.4	165.1	169.8
57.5°	153.1	145.9	112.4	50.2	28.7	43.1	102.9	136.3	141.1
60°	129.2	122.0	90.9	40.7	23.9	33.5	83.7	112.4	117.2
62.5°	107.6	100.5	74.2	33.5	19.1	28.7	67.0	90.9	95.7
65°	86.1	81.3	57.4	26.3	16.7	21.5	52.6	71.8	76.5
67.5°	69.4	64.6	45.4	21.5	14.4	16.7	40.7	57.4	62.2
70°	52.6	47.8	33.5	16.7	12.0	14.4	31.1	43.1	47.8
72.5°	38.3	35.9	26.3	14.4	9.6	12.0	21.5	31.1	35.9
75°	28.7	26.3	19.1	9.6	7.2	9.6	16.7	23.9	26.3
77.5°	19.1	19.1	14.4	7.2	7.2	7.2	12.0	16.7	16.7
80°	14.4	12.0	9.6	4.8	4.8	4.8	7.2	12.0	12.0
82.5°	9.6	7.2	7.2	4.8	4.8	4.8	4.8	7.2	7.2
85°	4.8	4.8	4.8	2.4	2.4	2.4	2.4	4.8	4.8
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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)