

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: P857709

Luminaire Tested: **LD4C35D010 EU4359027 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857709
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 4LBMDSWMW
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

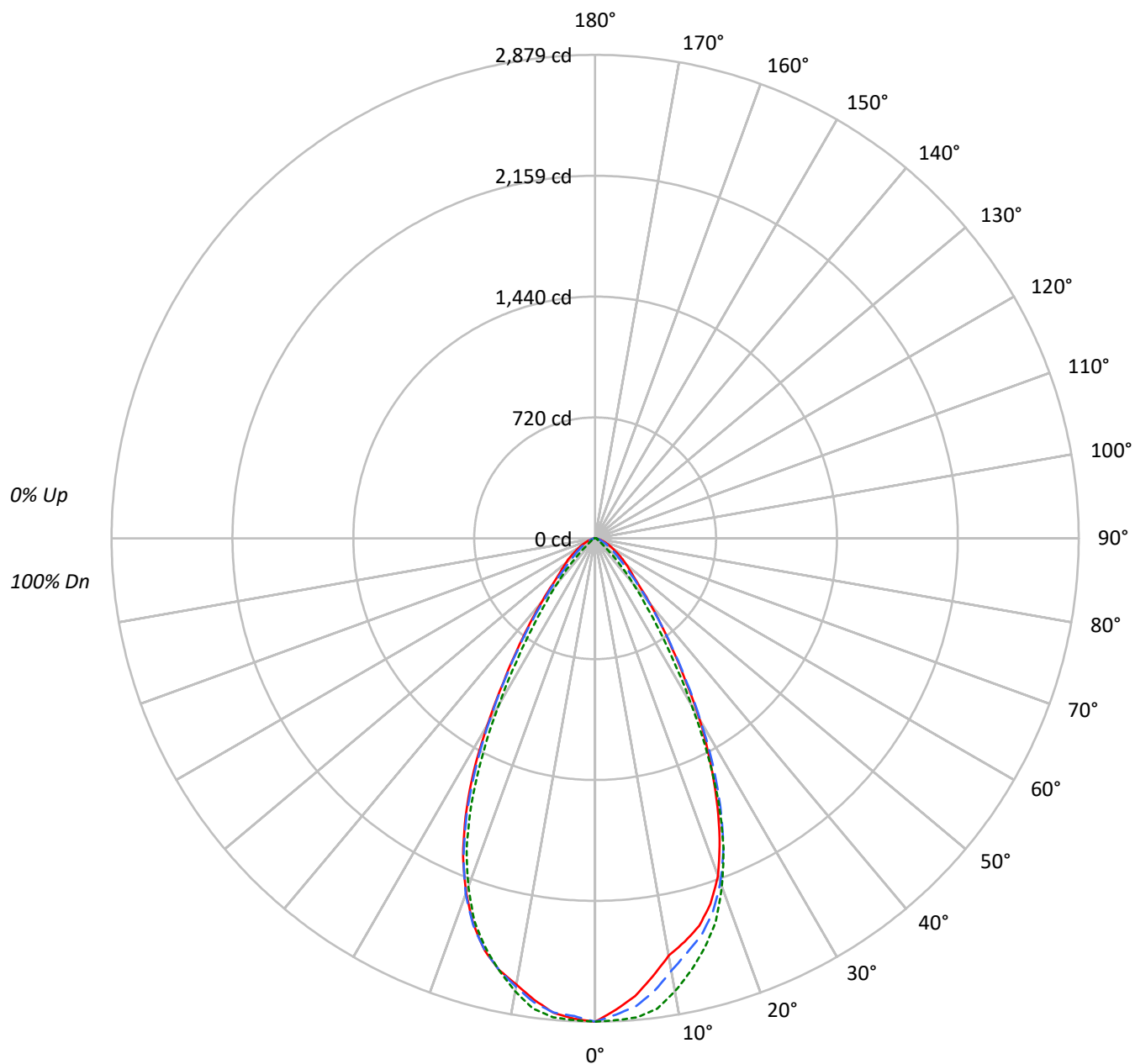
Lumens per Lamp: N/A
Luminaire Lumens: 2621.0 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	353707	353707	353707
5°	337510	353147	349854
10°	314791	341699	336697
15°	303978	320944	323208
20°	279622	288343	293572
25°	231756	235972	247426
30°	176302	163053	181353
35°	119366	97695	120701
40°	81293	55987	78792
45°	56396	28198	53304
50°	45889	11468	42908
55°	37140	7132	33820
60°	29509	5455	26757
65°	23256	4535	20668
70°	17565	3987	15984
75°	12674	3180	11629
80°	9410	3113	7853
85°	6202	3101	6202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	10.1
10°-20°	695.5	26.5
20°-30°	798.0	30.4
30°-40°	484.8	18.5
40°-50°	207.8	7.9
50°-60°	99.7	3.8
60°-70°	48.5	1.8
70°-80°	18.0	0.7
80°-90°	4.1	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°	1758.2	67.1
0°-40°	2243.0	85.6
0°-60°	2550.4	97.3
0°-90°	2621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2621.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2879	2879	2879	2879	2879	
5°	2737	2797	2864	2835	2837	254
15°	2390	2446	2523	2539	2541	665
25°	1710	1765	1741	1808	1825	776
35°	796	807	651	787	805	510
45°	325	289	162	260	307	264
55°	173	129	33	116	158	157
65°	80	53	16	49	71	81
75°	27	18	7	16	24	29
85°	4	4	2	2	4	6
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°	2879.1	2879.1	2879.1	2879.1	2879.1	2879.1	2879.1	2879.1	2879.1
2.5°	2810.2	2841.3	2839.1	2865.8	2872.5	2865.8	2848.0	2865.8	2863.6
5°	2736.8	2772.4	2796.9	2841.3	2863.6	2859.1	2834.7	2839.1	2836.9
7.5°	2630.1	2674.6	2716.8	2783.5	2825.8	2823.5	2788.0	2781.3	2772.4
10°	2523.4	2565.6	2614.6	2683.5	2739.1	2748.0	2712.4	2703.5	2699.0
12.5°	2461.2	2494.5	2527.9	2587.9	2636.8	2654.6	2634.6	2636.8	2634.6
15°	2390.0	2423.4	2445.6	2490.1	2523.4	2547.9	2539.0	2552.3	2541.2
17.5°	2283.3	2323.3	2332.2	2365.6	2390.0	2405.6	2414.5	2427.8	2410.0
20°	2138.8	2169.9	2181.0	2194.4	2205.5	2225.5	2252.2	2265.5	2245.5
22.5°	1936.5	1996.5	1994.3	1987.6	1998.7	2005.4	2047.6	2069.9	2054.3
25°	1709.7	1771.9	1765.3	1738.6	1740.8	1754.2	1807.5	1836.4	1825.3
27.5°	1471.8	1529.6	1514.0	1462.9	1449.6	1469.6	1538.5	1571.8	1565.2
30°	1242.8	1280.6	1256.1	1165.0	1149.4	1173.9	1262.8	1296.2	1278.4
32.5°	996.0	1024.9	1013.8	902.6	876.0	900.4	1004.9	1036.0	1016.0
35°	795.9	822.6	807.0	675.9	651.4	678.1	787.0	822.6	804.8
37.5°	638.1	658.1	638.1	498.0	475.8	502.5	607.0	653.6	631.4
40°	506.9	522.5	495.8	366.8	349.1	362.4	460.2	506.9	491.3
42.5°	400.2	411.3	382.4	269.0	249.0	266.8	346.8	389.1	380.2
45°	324.6	324.6	289.0	186.8	162.3	180.1	260.1	304.6	306.8
47.5°	277.9	271.2	226.8	124.5	93.4	117.8	206.8	253.5	260.1
50°	240.1	231.2	186.8	91.2	60.0	84.5	171.2	217.9	224.5
52.5°	206.8	200.1	155.6	71.1	42.2	64.5	144.5	189.0	195.6
55°	173.4	169.0	128.9	55.6	33.3	48.9	115.6	153.4	157.9
57.5°	142.3	135.6	104.5	46.7	26.7	40.0	95.6	126.7	131.2
60°	120.1	113.4	84.5	37.8	22.2	31.1	77.8	104.5	108.9
62.5°	100.0	93.4	68.9	31.1	17.8	26.7	62.3	84.5	88.9
65°	80.0	75.6	53.4	24.5	15.6	20.0	48.9	66.7	71.1
67.5°	64.5	60.0	42.2	20.0	13.3	15.6	37.8	53.4	57.8
70°	48.9	44.5	31.1	15.6	11.1	13.3	28.9	40.0	44.5
72.5°	35.6	33.3	24.5	13.3	8.9	11.1	20.0	28.9	33.3
75°	26.7	24.5	17.8	8.9	6.7	8.9	15.6	22.2	24.5
77.5°	17.8	17.8	13.3	6.7	6.7	6.7	11.1	15.6	15.6
80°	13.3	11.1	8.9	4.4	4.4	4.4	6.7	11.1	11.1
82.5°	8.9	6.7	6.7	4.4	4.4	4.4	4.4	6.7	6.7
85°	4.4	4.4	4.4	2.2	2.2	2.2	2.2	4.4	4.4
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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)