

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: P857772

Luminaire Tested: **LD4C35D010 EU4359040 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857772
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 EU4359040 4LBMDSWMW
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

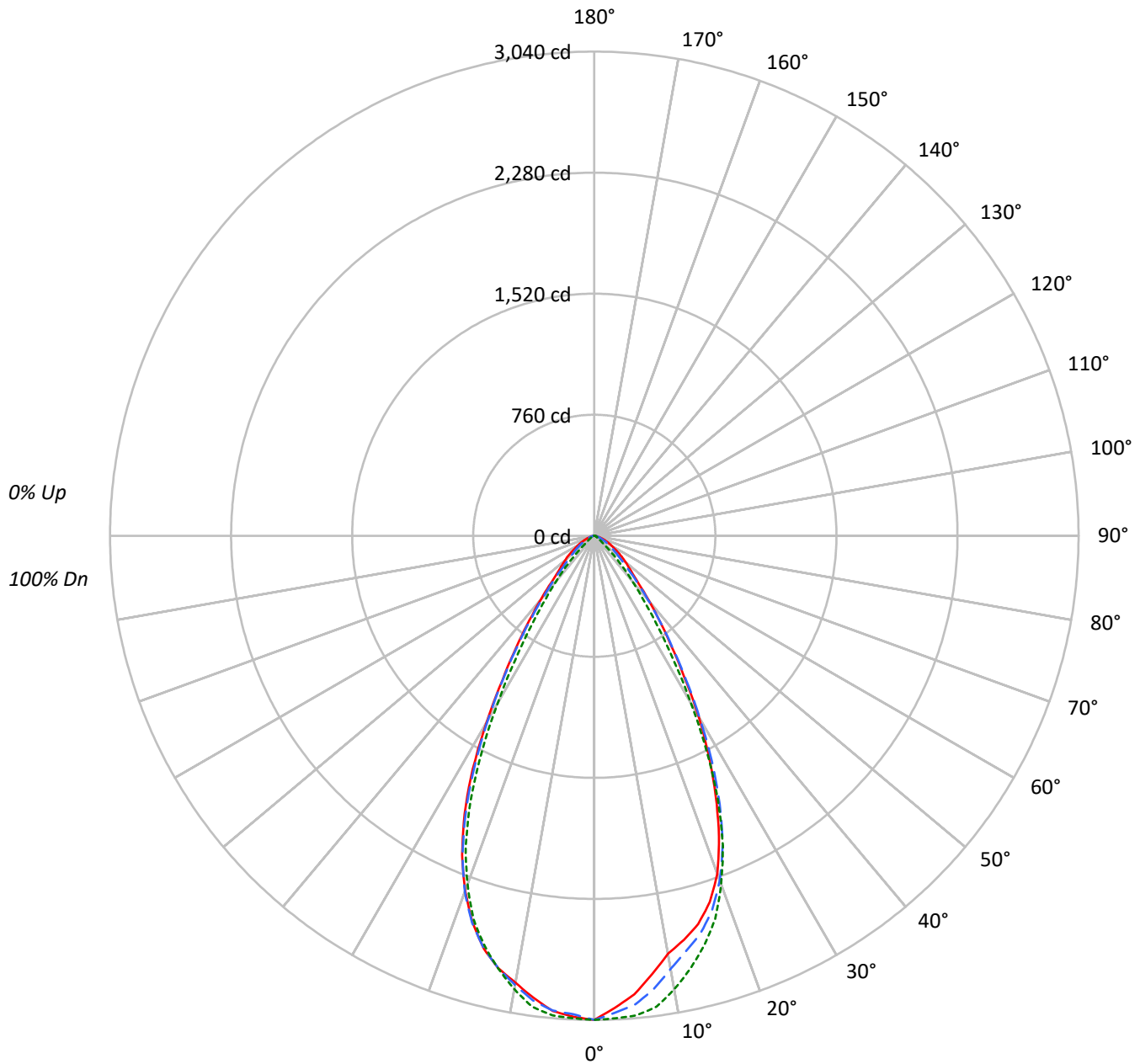
Lumens per Lamp: N/A
Luminaire Lumens: 2767.0 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	373413	373413	373413
5°	356316	372817	369339
10°	332331	360723	355459
15°	320906	338827	341205
20°	295193	304397	309927
25°	244661	249121	261212
30°	186119	172146	191453
35°	126025	103139	127435
40°	85816	59098	83186
45°	59541	29762	56275
50°	48450	12117	45316
55°	39218	7539	35684
60°	31131	5774	28256
65°	24564	4767	21831
70°	18535	4203	16846
75°	13386	3323	12246
80°	9976	3325	8278
85°	6625	3242	6625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.5	10.1
10°-20°	734.3	26.5
20°-30°	842.4	30.4
30°-40°	511.8	18.5
40°-50°	219.3	7.9
50°-60°	105.2	3.8
60°-70°	51.2	1.8
70°-80°	19.0	0.7
80°-90°	4.3	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°	1856.2	67.1
0°-40°	2367.9	85.6
0°-60°	2692.5	97.3
0°-90°	2767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2767.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3040	3040	3040	3040	3040	
5°	2889	2953	3023	2993	2995	268
15°	2523	2582	2664	2680	2683	702
25°	1805	1864	1838	1908	1927	819
35°	840	852	688	831	850	539
45°	343	305	171	275	324	278
55°	183	136	35	122	167	165
65°	84	56	16	52	75	86
75°	28	19	7	16	26	31
85°	5	5	2	2	5	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°	3039.5	3039.5	3039.5	3039.5	3039.5	3039.5	3039.5	3039.5	3039.5
2.5°	2966.7	2999.6	2997.3	3025.4	3032.5	3025.4	3006.6	3025.4	3023.1
5°	2889.3	2926.8	2952.7	2999.6	3023.1	3018.4	2992.6	2997.3	2994.9
7.5°	2776.6	2823.6	2868.2	2938.6	2983.2	2980.8	2943.3	2936.2	2926.8
10°	2664.0	2708.6	2760.2	2833.0	2891.6	2901.0	2863.5	2854.1	2849.4
12.5°	2598.3	2633.5	2668.7	2732.0	2783.7	2802.5	2781.3	2783.7	2781.3
15°	2523.1	2558.4	2581.8	2628.8	2664.0	2689.8	2680.4	2694.5	2682.7
17.5°	2410.5	2452.7	2462.1	2497.3	2523.1	2539.6	2549.0	2563.0	2544.3
20°	2257.9	2290.8	2302.5	2316.6	2328.3	2349.5	2377.6	2391.7	2370.6
22.5°	2044.3	2107.7	2105.4	2098.3	2110.1	2117.1	2161.7	2185.2	2168.7
25°	1804.9	1870.6	1863.6	1835.4	1837.8	1851.9	1908.2	1938.7	1927.0
27.5°	1553.8	1614.8	1598.4	1544.4	1530.3	1551.4	1624.2	1659.4	1652.4
30°	1312.0	1351.9	1326.1	1229.9	1213.5	1239.3	1333.2	1368.4	1349.6
32.5°	1051.5	1082.0	1070.3	952.9	924.8	950.6	1060.9	1093.8	1072.6
35°	840.3	868.4	852.0	713.5	687.7	715.9	830.9	868.4	849.7
37.5°	673.6	694.7	673.6	525.8	502.3	530.4	640.8	690.1	666.6
40°	535.1	551.6	523.4	387.3	368.5	382.6	485.9	535.1	518.7
42.5°	422.5	434.2	403.7	284.0	262.9	281.7	366.1	410.7	401.4
45°	342.7	342.7	305.1	197.2	171.3	190.1	274.6	321.6	323.9
47.5°	293.4	286.3	239.4	131.4	98.6	124.4	218.3	267.6	274.6
50°	253.5	244.1	197.2	96.2	63.4	89.2	180.7	230.0	237.1
52.5°	218.3	211.2	164.3	75.1	44.6	68.1	152.6	199.5	206.5
55°	183.1	178.4	136.1	58.7	35.2	51.6	122.0	162.0	166.6
57.5°	150.2	143.2	110.3	49.3	28.2	42.2	100.9	133.8	138.5
60°	126.7	119.7	89.2	39.9	23.5	32.9	82.1	110.3	115.0
62.5°	105.6	98.6	72.8	32.9	18.8	28.2	65.7	89.2	93.9
65°	84.5	79.8	56.3	25.8	16.4	21.1	51.6	70.4	75.1
67.5°	68.1	63.4	44.6	21.1	14.1	16.4	39.9	56.3	61.0
70°	51.6	46.9	32.9	16.4	11.7	14.1	30.5	42.2	46.9
72.5°	37.6	35.2	25.8	14.1	9.4	11.7	21.1	30.5	35.2
75°	28.2	25.8	18.8	9.4	7.0	9.4	16.4	23.5	25.8
77.5°	18.8	18.8	14.1	7.0	7.0	7.0	11.7	16.4	16.4
80°	14.1	11.7	9.4	4.7	4.7	4.7	7.0	11.7	11.7
82.5°	9.4	7.0	7.0	4.7	4.7	4.7	4.7	7.0	7.0
85°	4.7	4.7	4.7	2.3	2.3	2.3	2.3	4.7	4.7
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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)