

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: P857707

Luminaire Tested: **LD4C35D010 EU4359027 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857707
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 4LBMDSWH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

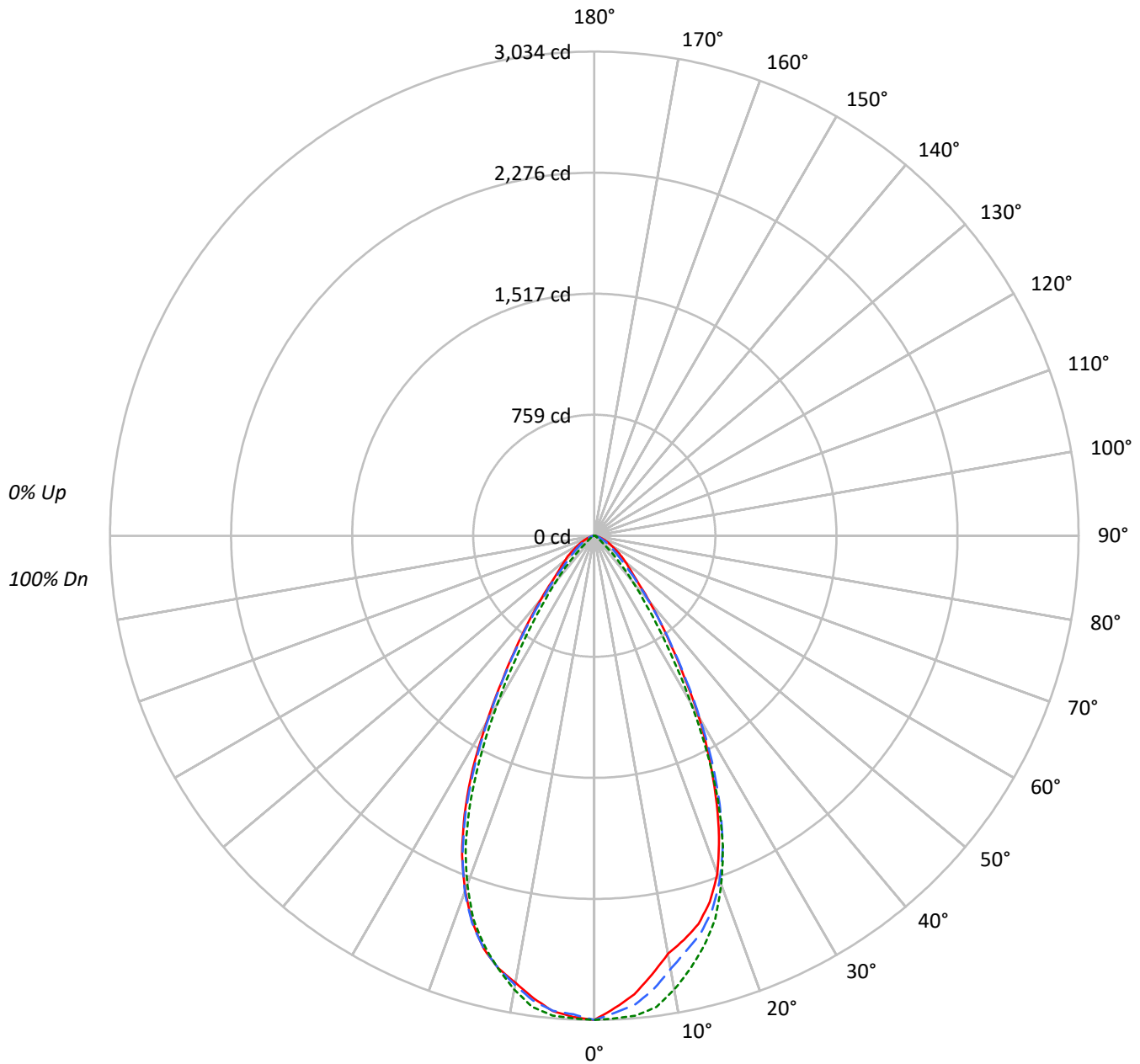
Lumens per Lamp: N/A
Luminaire Lumens: 2762.0 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	372737	372737	372737
5°	355675	372139	368673
10°	331732	360075	354810
15°	320334	338216	340595
20°	294657	303848	309365
25°	244227	248673	260738
30°	185793	171834	191112
35°	125785	102959	127195
40°	85672	58985	83042
45°	59437	29710	56170
50°	48355	12098	45220
55°	39132	7518	35620
60°	31082	5750	28207
65°	24506	4767	21802
70°	18499	4203	16846
75°	13338	3323	12246
80°	9976	3325	8278
85°	6625	3242	6625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.0	10.1
10°-20°	732.9	26.5
20°-30°	840.9	30.4
30°-40°	510.9	18.5
40°-50°	218.9	7.9
50°-60°	105.0	3.8
60°-70°	51.1	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°	1852.8	67.1
0°-40°	2363.7	85.6
0°-60°	2687.6	97.3
0°-90°	2762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2762.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3034	3034	3034	3034	3034	
5°	2884	2947	3018	2987	2990	268
15°	2519	2577	2659	2676	2678	701
25°	1802	1860	1834	1905	1924	817
35°	839	850	686	829	848	538
45°	342	305	171	274	323	278
55°	183	136	35	122	166	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°	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0
2.5°	2961.4	2994.2	2991.8	3020.0	3027.0	3020.0	3001.2	3020.0	3017.6
5°	2884.1	2921.6	2947.3	2994.2	3017.6	3012.9	2987.2	2991.8	2989.5
7.5°	2771.6	2818.5	2863.0	2933.3	2977.8	2975.4	2938.0	2930.9	2921.6
10°	2659.2	2703.7	2755.2	2827.8	2886.4	2895.8	2858.3	2848.9	2844.2
12.5°	2593.6	2628.7	2663.8	2727.1	2778.6	2797.4	2776.3	2778.6	2776.3
15°	2518.6	2553.7	2577.2	2624.0	2659.2	2684.9	2675.6	2689.6	2677.9
17.5°	2406.1	2448.3	2457.7	2492.8	2518.6	2535.0	2544.4	2558.4	2539.7
20°	2253.8	2286.6	2298.4	2312.4	2324.1	2345.2	2373.3	2387.4	2366.3
22.5°	2040.6	2103.9	2101.6	2094.5	2106.2	2113.3	2157.8	2181.2	2164.8
25°	1801.7	1867.3	1860.2	1832.1	1834.5	1848.5	1904.8	1935.2	1923.5
27.5°	1551.0	1611.9	1595.5	1541.6	1527.6	1548.6	1621.3	1656.4	1649.4
30°	1309.7	1349.5	1323.7	1227.7	1211.3	1237.0	1330.8	1365.9	1347.2
32.5°	1049.6	1080.1	1068.3	951.2	923.1	948.9	1059.0	1091.8	1070.7
35°	838.7	866.9	850.5	712.2	686.5	714.6	829.4	866.9	848.1
37.5°	672.4	693.5	672.4	524.8	501.4	529.5	639.6	688.8	665.4
40°	534.2	550.6	522.5	386.6	367.8	381.9	485.0	534.2	517.8
42.5°	421.7	433.4	403.0	283.5	262.4	281.1	365.5	410.0	400.6
45°	342.1	342.1	304.6	196.8	171.0	189.8	274.1	321.0	323.3
47.5°	292.9	285.8	239.0	131.2	98.4	124.2	217.9	267.1	274.1
50°	253.0	243.7	196.8	96.1	63.3	89.0	180.4	229.6	236.6
52.5°	217.9	210.9	164.0	75.0	44.5	67.9	152.3	199.1	206.2
55°	182.7	178.1	135.9	58.6	35.1	51.5	121.8	161.7	166.3
57.5°	149.9	142.9	110.1	49.2	28.1	42.2	100.7	133.5	138.2
60°	126.5	119.5	89.0	39.8	23.4	32.8	82.0	110.1	114.8
62.5°	105.4	98.4	72.6	32.8	18.7	28.1	65.6	89.0	93.7
65°	84.3	79.7	56.2	25.8	16.4	21.1	51.5	70.3	75.0
67.5°	67.9	63.3	44.5	21.1	14.1	16.4	39.8	56.2	60.9
70°	51.5	46.9	32.8	16.4	11.7	14.1	30.5	42.2	46.9
72.5°	37.5	35.1	25.8	14.1	9.4	11.7	21.1	30.5	35.1
75°	28.1	25.8	18.7	9.4	7.0	9.4	16.4	23.4	25.8
77.5°	18.7	18.7	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)