

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: P857732

Luminaire Tested: **LD4C35D010 EU4359030 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857732
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 EU4359030 4LBMDSWWMH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

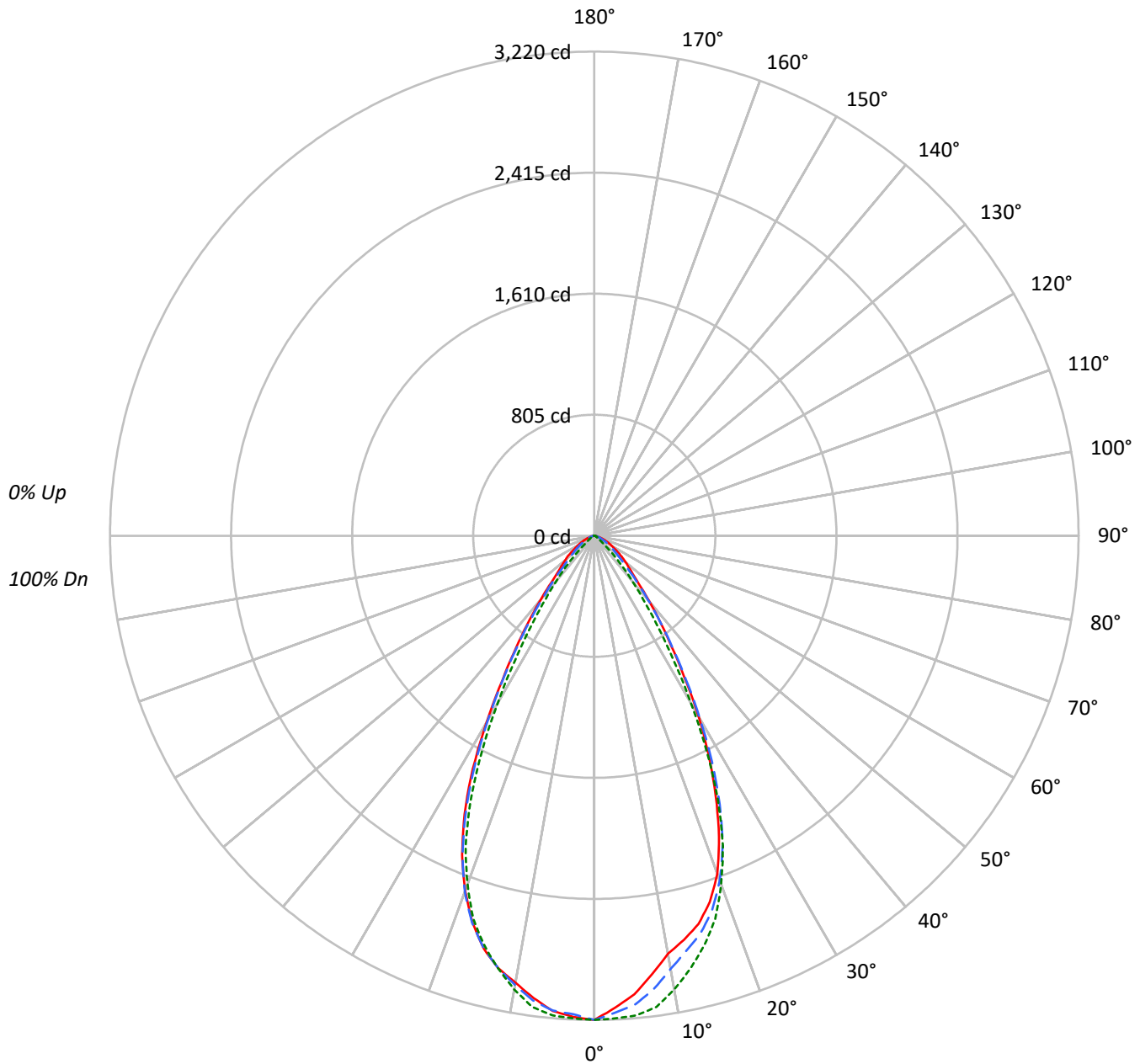
Lumens per Lamp: N/A
Luminaire Lumens: 2931.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	395551	395551	395551
5°	377429	394916	391229
10°	352028	382105	376529
15°	339933	358910	361441
20°	312686	322439	328296
25°	259165	263883	276692
30°	197156	182346	202802
35°	133494	109258	134979
40°	90916	62594	88125
45°	63068	31534	59611
50°	51317	12825	47992
55°	41531	7989	37804
60°	32998	6118	29927
65°	26017	5058	23139
70°	19648	4454	17852
75°	14145	3560	12958
80°	10542	3537	8773
85°	7048	3524	7048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.0	10.1
10°-20°	777.8	26.5
20°-30°	892.4	30.4
30°-40°	542.1	18.5
40°-50°	232.3	7.9
50°-60°	111.5	3.8
60°-70°	54.2	1.8
70°-80°	20.1	0.7
80°-90°	4.6	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°	1966.2	67.1
0°-40°	2508.3	85.6
0°-60°	2852.1	97.3
0°-90°	2931.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2931.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3220	3220	3220	3220	3220	
5°	3060	3128	3202	3170	3172	284
15°	2673	2735	2822	2839	2842	744
25°	1912	1974	1947	2021	2041	867
35°	890	902	728	880	900	570
45°	363	323	182	291	343	295
55°	194	144	37	129	176	175
65°	90	60	17	55	80	91
75°	30	20	8	17	27	33
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°	3219.7	3219.7	3219.7	3219.7	3219.7	3219.7	3219.7	3219.7	3219.7
2.5°	3142.6	3177.4	3174.9	3204.7	3212.2	3204.7	3184.9	3204.7	3202.3
5°	3060.5	3100.3	3127.7	3177.4	3202.3	3197.3	3169.9	3174.9	3172.4
7.5°	2941.2	2990.9	3038.2	3112.8	3160.0	3157.5	3117.7	3110.3	3100.3
10°	2821.9	2869.1	2923.8	3000.9	3063.0	3073.0	3033.2	3023.2	3018.3
12.5°	2752.3	2789.5	2826.8	2894.0	2948.7	2968.6	2946.2	2948.7	2946.2
15°	2672.7	2710.0	2734.8	2784.6	2821.9	2849.2	2839.3	2854.2	2841.8
17.5°	2553.4	2598.1	2608.0	2645.3	2672.7	2690.1	2700.0	2715.0	2695.1
20°	2391.7	2426.6	2439.0	2453.9	2466.3	2488.7	2518.5	2533.5	2511.1
22.5°	2165.5	2232.6	2230.1	2222.7	2235.1	2242.6	2289.8	2314.7	2297.3
25°	1911.9	1981.5	1974.1	1944.2	1946.7	1961.6	2021.3	2053.6	2041.2
27.5°	1645.9	1710.5	1693.1	1635.9	1621.0	1643.4	1720.5	1757.8	1750.3
30°	1389.8	1432.1	1404.7	1302.8	1285.4	1312.7	1412.2	1449.5	1429.6
32.5°	1113.8	1146.1	1133.7	1009.4	979.6	1006.9	1123.8	1158.6	1136.2
35°	890.1	919.9	902.5	755.8	728.5	758.3	880.1	919.9	900.0
37.5°	713.5	735.9	713.5	556.9	532.1	561.9	678.7	731.0	706.1
40°	566.9	584.3	554.4	410.2	390.3	405.3	514.6	566.9	549.5
42.5°	447.5	460.0	427.6	300.8	278.5	298.3	387.9	435.1	425.1
45°	363.0	363.0	323.2	208.8	181.5	201.4	290.9	340.6	343.1
47.5°	310.8	303.3	253.6	139.2	104.4	131.8	231.2	283.4	290.9
50°	268.5	258.6	208.8	101.9	67.1	94.5	191.4	243.7	251.1
52.5°	231.2	223.8	174.0	79.6	47.2	72.1	161.6	211.3	218.8
55°	193.9	189.0	144.2	62.2	37.3	54.7	129.3	171.5	176.5
57.5°	159.1	151.7	116.9	52.2	29.8	44.8	106.9	141.7	146.7
60°	134.3	126.8	94.5	42.3	24.9	34.8	87.0	116.9	121.8
62.5°	111.9	104.4	77.1	34.8	19.9	29.8	69.6	94.5	99.4
65°	89.5	84.5	59.7	27.3	17.4	22.4	54.7	74.6	79.6
67.5°	72.1	67.1	47.2	22.4	14.9	17.4	42.3	59.7	64.6
70°	54.7	49.7	34.8	17.4	12.4	14.9	32.3	44.8	49.7
72.5°	39.8	37.3	27.3	14.9	9.9	12.4	22.4	32.3	37.3
75°	29.8	27.3	19.9	9.9	7.5	9.9	17.4	24.9	27.3
77.5°	19.9	19.9	14.9	7.5	7.5	7.5	12.4	17.4	17.4
80°	14.9	12.4	9.9	5.0	5.0	5.0	7.5	12.4	12.4
82.5°	9.9	7.5	7.5	5.0	5.0	5.0	5.0	7.5	7.5
85°	5.0	5.0	5.0	2.5	2.5	2.5	2.5	5.0	5.0
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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)