

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: P857771

Luminaire Tested: **LD4C35D010 EU4359040 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C35D010 EU4359040 4LBMDSWLI
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

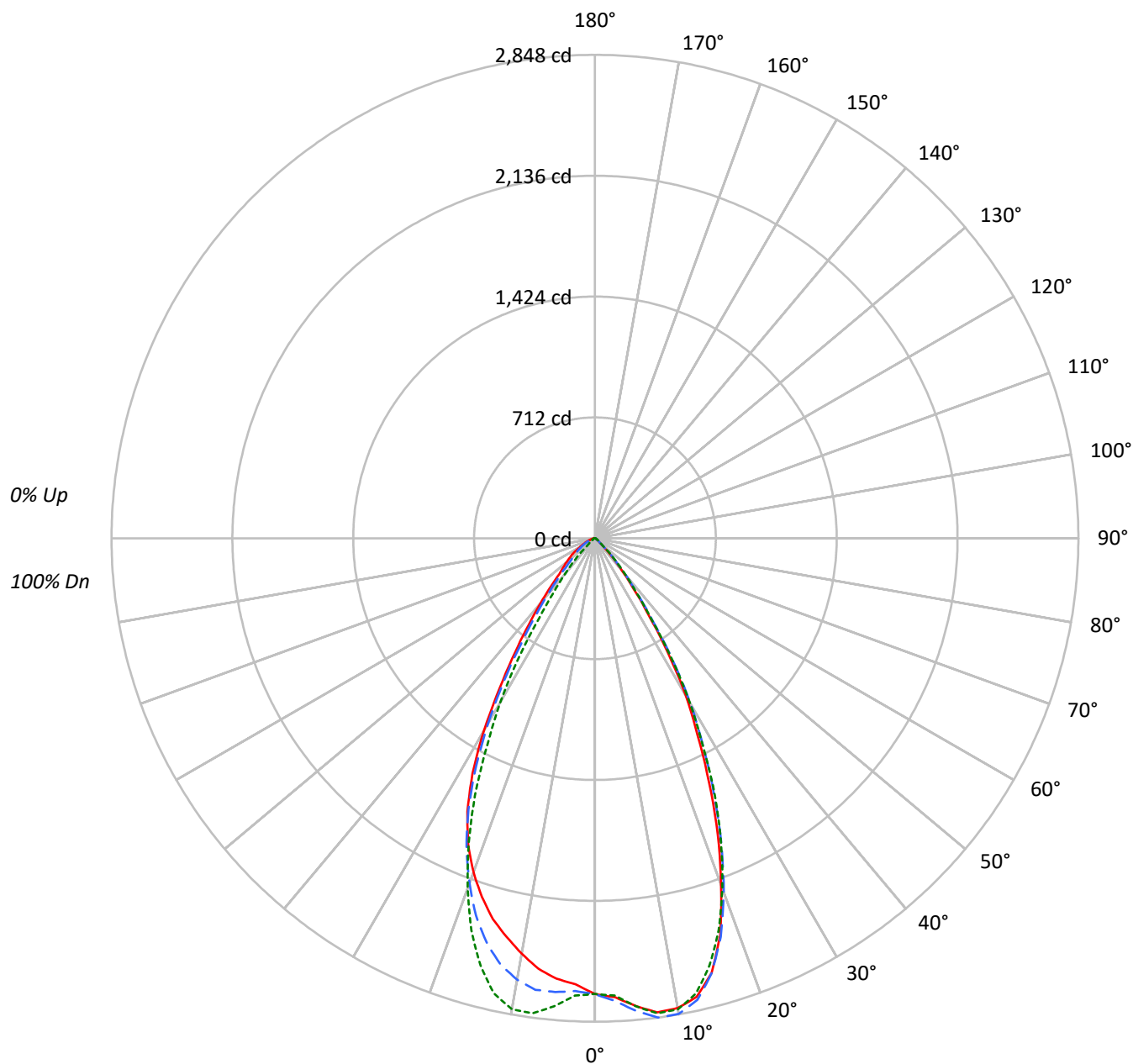
Lumens per Lamp: N/A
Luminaire Lumens: 2387.0 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93		
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87		
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80		
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70		
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65		
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61		
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58		
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54		
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	329837	329837	329837
5°	341074	341296	321132
10°	350519	351442	309938
15°	337275	331425	295431
20°	283976	286617	273648
25°	215720	226687	240879
30°	151718	157974	185353
35°	81857	85712	122651
40°	39484	43622	79577
45°	14056	19164	51723
50°	5275	6670	41436
55°	3941	4734	34249
60°	3170	3612	24841
65°	2674	3198	19244
70°	1976	2658	15194
75°	1756	2611	11345
80°	1273	2618	7782
85°	0	2537	5215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.4	11.0
10°-20°	705.2	29.5
20°-30°	765.0	32.0
30°-40°	424.4	17.8
40°-50°	135.2	5.7
50°-60°	54.5	2.3
60°-70°	27.6	1.2
70°-80°	11.4	0.5
80°-90°	2.4	0.1
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°	1731.6	72.5
0°-40°	2156.0	90.3
0°-60°	2345.7	98.3
0°-90°	2387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2387.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2685	2685	2685	2685	2685	
5°	2766	2795	2768	2683	2604	266
15°	2652	2654	2606	2466	2323	725
25°	1591	1658	1672	1762	1777	727
35°	546	590	572	755	818	362
45°	81	96	110	246	298	77
55°	18	18	22	118	160	17
65°	9	9	11	53	66	9
75°	4	4	6	18	24	4
85°	0	0	2	4	4	0
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°	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8
2.5°	2706.9	2730.8	2728.9	2710.6	2695.9	2690.4	2670.1	2646.2	2629.7
5°	2765.7	2795.1	2795.1	2780.4	2767.5	2736.3	2683.0	2631.5	2604.0
7.5°	2817.2	2846.6	2848.4	2837.4	2822.7	2771.2	2683.0	2600.3	2558.0
10°	2809.8	2831.9	2844.7	2833.7	2817.2	2749.2	2640.7	2530.5	2484.5
12.5°	2767.5	2787.7	2785.9	2769.4	2747.3	2677.5	2570.9	2457.0	2405.5
15°	2651.8	2662.8	2653.6	2635.2	2605.8	2552.5	2466.2	2368.8	2322.8
17.5°	2451.5	2466.2	2462.5	2433.1	2422.1	2370.6	2330.2	2254.8	2214.4
20°	2172.1	2218.1	2218.1	2196.0	2192.3	2157.4	2162.9	2122.5	2093.1
22.5°	1891.0	1931.4	1944.3	1935.1	1942.4	1925.9	1977.3	1966.3	1951.6
25°	1591.4	1631.9	1657.6	1653.9	1672.3	1672.3	1762.3	1784.4	1777.0
27.5°	1310.3	1348.9	1378.3	1385.6	1374.6	1394.8	1517.9	1562.0	1562.0
30°	1069.5	1100.8	1128.3	1128.3	1113.6	1128.3	1258.8	1310.3	1306.6
32.5°	797.5	832.5	858.2	854.5	841.7	861.9	999.7	1051.1	1038.3
35°	545.8	569.7	589.9	582.5	571.5	604.6	755.3	819.6	817.8
37.5°	369.4	391.4	404.3	398.8	395.1	433.7	571.5	643.2	639.5
40°	246.2	260.9	270.1	268.3	272.0	305.1	430.0	496.2	496.2
42.5°	156.2	165.4	174.6	174.6	183.8	218.7	327.1	384.1	384.1
45°	80.9	86.4	95.6	101.1	110.3	147.0	246.2	294.0	297.7
47.5°	38.6	40.4	44.1	45.9	53.3	91.9	189.3	240.7	251.8
50°	27.6	29.4	29.4	29.4	34.9	69.8	159.9	207.7	216.8
52.5°	22.1	22.1	22.1	23.9	27.6	58.8	137.8	180.1	187.4
55°	18.4	18.4	18.4	18.4	22.1	47.8	117.6	154.4	159.9
57.5°	14.7	14.7	14.7	14.7	18.4	38.6	97.4	123.1	125.0
60°	12.9	12.9	12.9	12.9	14.7	33.1	79.0	101.1	101.1
62.5°	11.0	11.0	11.0	11.0	12.9	27.6	66.2	82.7	80.9
65°	9.2	9.2	9.2	9.2	11.0	22.1	53.3	66.2	66.2
67.5°	7.4	7.4	7.4	7.4	9.2	18.4	42.3	53.3	53.3
70°	5.5	5.5	5.5	5.5	7.4	14.7	34.9	42.3	42.3
72.5°	5.5	5.5	5.5	5.5	5.5	11.0	25.7	33.1	31.2
75°	3.7	3.7	3.7	3.7	5.5	9.2	18.4	23.9	23.9
77.5°	3.7	3.7	3.7	3.7	3.7	7.4	14.7	16.5	16.5
80°	1.8	1.8	1.8	1.8	3.7	5.5	9.2	11.0	11.0
82.5°	0.0	1.8	0.0	1.8	1.8	3.7	7.4	7.4	7.4
85°	0.0	0.0	0.0	0.0	1.8	1.8	3.7	5.5	3.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
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)