

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: P857770

Luminaire Tested: **LD4C35D010 EU4359040 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857770
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 4LBMDSWH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

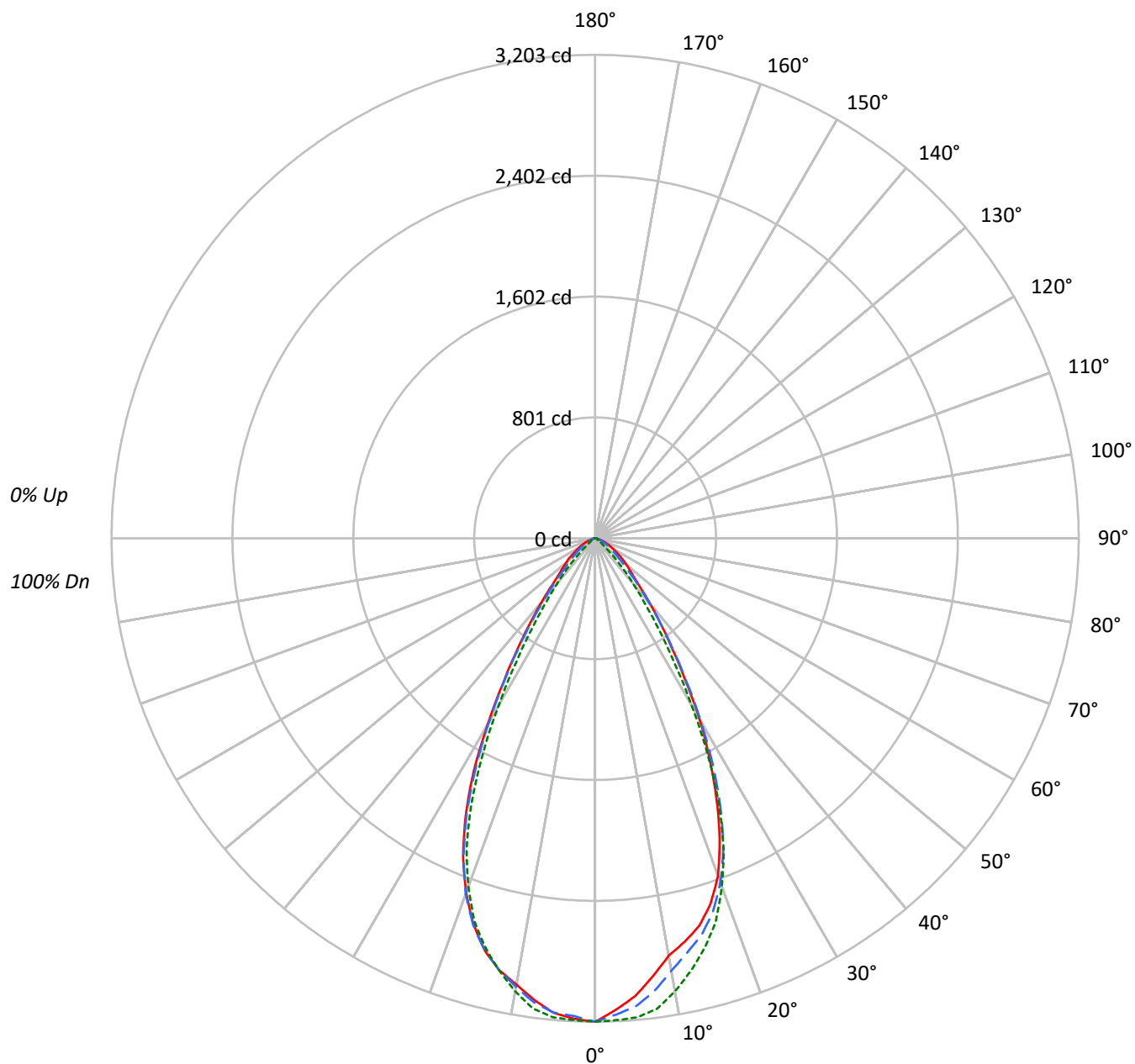
Lumens per Lamp: N/A
Luminaire Lumens: 2916.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	393524	393524	393524
5°	375505	392894	389231
10°	350219	380159	374595
15°	338191	357066	359584
20°	311091	320792	326610
25°	257837	262541	275269
30°	196148	181409	201766
35°	132804	108688	134289
40°	90451	62273	87660
45°	62738	31378	59298
50°	51050	12767	47743
55°	41317	7946	37612
60°	32826	6069	29780
65°	25872	5029	23023
70°	19540	4454	17780
75°	14098	3513	12911
80°	10471	3467	8773
85°	6907	3524	6907



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.5	10.1
10°-20°	773.8	26.5
20°-30°	887.8	30.4
30°-40°	539.3	18.5
40°-50°	231.1	7.9
50°-60°	110.9	3.8
60°-70°	53.9	1.8
70°-80°	20.0	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°	1956.1	67.1
0°-40°	2495.4	85.6
0°-60°	2837.5	97.3
0°-90°	2916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2916.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3203	3203	3203	3203	3203	
5°	3045	3112	3186	3154	3156	283
15°	2659	2721	2807	2825	2827	740
25°	1902	1964	1937	2011	2031	863
35°	886	898	725	876	895	568
45°	361	322	181	289	341	293
55°	193	144	37	129	176	174
65°	89	59	17	54	79	90
75°	30	20	7	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°	3203.2	3203.2	3203.2	3203.2	3203.2	3203.2	3203.2	3203.2	3203.2
2.5°	3126.5	3161.1	3158.7	3188.3	3195.8	3188.3	3168.6	3188.3	3185.9
5°	3044.9	3084.5	3111.7	3161.1	3185.9	3180.9	3153.7	3158.7	3156.2
7.5°	2926.2	2975.6	3022.6	3096.8	3143.8	3141.3	3101.8	3094.3	3084.5
10°	2807.4	2854.4	2908.8	2985.5	3047.4	3057.2	3017.7	3007.8	3002.8
12.5°	2738.2	2775.3	2812.4	2879.2	2933.6	2953.4	2931.1	2933.6	2931.1
15°	2659.0	2696.1	2720.9	2770.3	2807.4	2834.6	2824.7	2839.6	2827.2
17.5°	2540.3	2584.8	2594.7	2631.8	2659.0	2676.3	2686.2	2701.1	2681.3
20°	2379.5	2414.1	2426.5	2441.3	2453.7	2476.0	2505.7	2520.5	2498.2
22.5°	2154.4	2221.2	2218.7	2211.3	2223.7	2231.1	2278.1	2302.8	2285.5
25°	1902.1	1971.4	1964.0	1934.3	1936.8	1951.6	2011.0	2043.1	2030.7
27.5°	1637.5	1701.8	1684.5	1627.6	1612.7	1635.0	1711.7	1748.8	1741.3
30°	1382.7	1424.7	1397.5	1296.1	1278.8	1306.0	1404.9	1442.1	1422.3
32.5°	1108.1	1140.3	1127.9	1004.2	974.6	1001.8	1118.0	1152.7	1130.4
35°	885.5	915.2	897.9	751.9	724.7	754.4	875.6	915.2	895.4
37.5°	709.9	732.2	709.9	554.1	529.3	559.0	675.3	727.2	702.5
40°	564.0	581.3	551.6	408.1	388.3	403.2	512.0	564.0	546.6
42.5°	445.2	457.6	425.4	299.3	277.0	296.8	385.9	432.9	423.0
45°	361.1	361.1	321.6	207.8	180.6	200.4	289.4	338.9	341.3
47.5°	309.2	301.8	252.3	138.5	103.9	131.1	230.0	282.0	289.4
50°	267.1	257.2	207.8	101.4	66.8	94.0	190.5	242.4	249.8
52.5°	230.0	222.6	173.1	79.2	47.0	71.7	160.8	210.2	217.7
55°	192.9	188.0	143.5	61.8	37.1	54.4	128.6	170.7	175.6
57.5°	158.3	150.9	116.3	51.9	29.7	44.5	106.4	141.0	145.9
60°	133.6	126.1	94.0	42.0	24.7	34.6	86.6	116.3	121.2
62.5°	111.3	103.9	76.7	34.6	19.8	29.7	69.3	94.0	98.9
65°	89.0	84.1	59.4	27.2	17.3	22.3	54.4	74.2	79.2
67.5°	71.7	66.8	47.0	22.3	14.8	17.3	42.0	59.4	64.3
70°	54.4	49.5	34.6	17.3	12.4	14.8	32.2	44.5	49.5
72.5°	39.6	37.1	27.2	14.8	9.9	12.4	22.3	32.2	37.1
75°	29.7	27.2	19.8	9.9	7.4	9.9	17.3	24.7	27.2
77.5°	19.8	19.8	14.8	7.4	7.4	7.4	12.4	17.3	17.3
80°	14.8	12.4	9.9	4.9	4.9	4.9	7.4	12.4	12.4
82.5°	9.9	7.4	7.4	4.9	4.9	4.9	4.9	7.4	7.4
85°	4.9	4.9	4.9	2.5	2.5	2.5	2.5	4.9	4.9
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)