

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: P857948

Luminaire Tested: **LD4C40D010 EU4409040 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857948
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: LD4C40D010 EU4409040 4LBMDSWMW
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

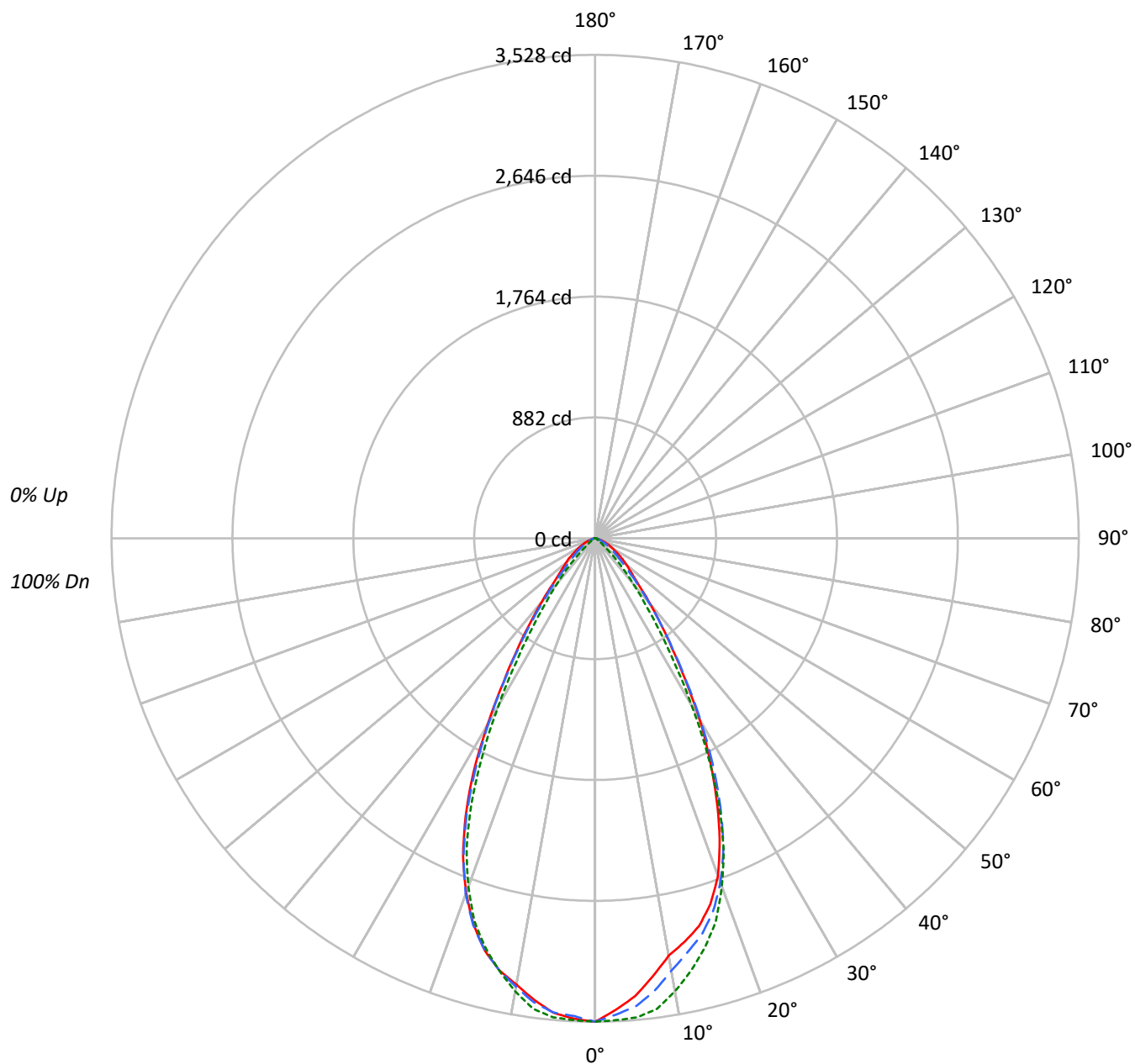
Lumens per Lamp: N/A
Luminaire Lumens: 3212.0 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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

TEST NUMBER: P857948

CATALOG NUMBER: LD4C40D010 EU4409040 4LBMDSWMW

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°	433464	433464	433464
5°	413625	432777	428744
10°	385773	418744	412619
15°	372519	393314	396087
20°	342664	353358	359765
25°	284012	289177	303220
30°	216051	199823	222236
35°	146287	119726	147922
40°	99624	68608	96561
45°	69114	34557	65327
50°	56248	14067	52598
55°	45515	8760	41424
60°	36143	6683	32802
65°	28517	5552	25349
70°	21516	4885	19576
75°	15522	3892	14240
80°	11532	3820	9622
85°	7612	3806	7612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.4	10.1
10°-20°	852.3	26.5
20°-30°	977.9	30.4
30°-40°	594.1	18.5
40°-50°	254.6	7.9
50°-60°	122.1	3.8
60°-70°	59.4	1.8
70°-80°	22.0	0.7
80°-90°	5.1	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°	2154.7	67.1
0°-40°	2748.8	85.6
0°-60°	3125.5	97.3
0°-90°	3212.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3212.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3528	3528	3528	3528	3528	
5°	3354	3428	3509	3474	3477	312
15°	2929	2997	3092	3112	3114	815
25°	2095	2163	2133	2215	2237	950
35°	975	989	798	964	986	625
45°	398	354	199	319	376	323
55°	212	158	41	142	193	192
65°	98	65	19	60	87	100
75°	33	22	8	19	30	36
85°	5	5	3	3	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°	3528.3	3528.3	3528.3	3528.3	3528.3	3528.3	3528.3	3528.3	3528.3
2.5°	3443.9	3482.0	3479.3	3512.0	3520.2	3512.0	3490.2	3512.0	3509.3
5°	3354.0	3397.6	3427.5	3482.0	3509.3	3503.8	3473.8	3479.3	3476.6
7.5°	3223.2	3277.7	3329.4	3411.2	3462.9	3460.2	3416.6	3408.5	3397.6
10°	3092.4	3144.2	3204.1	3288.6	3356.7	3367.6	3324.0	3313.1	3307.6
12.5°	3016.1	3057.0	3097.9	3171.4	3231.4	3253.2	3228.6	3231.4	3228.6
15°	2928.9	2969.8	2997.0	3051.5	3092.4	3122.4	3111.5	3127.8	3114.2
17.5°	2798.1	2847.2	2858.1	2899.0	2928.9	2948.0	2958.9	2975.2	2953.4
20°	2621.0	2659.2	2672.8	2689.2	2702.8	2727.3	2760.0	2776.4	2751.8
22.5°	2373.1	2446.7	2444.0	2435.8	2449.4	2457.6	2509.3	2536.6	2517.5
25°	2095.2	2171.5	2163.3	2130.6	2133.3	2149.7	2215.1	2250.5	2236.9
27.5°	1803.7	1874.5	1855.4	1792.8	1776.4	1800.9	1885.4	1926.3	1918.1
30°	1523.0	1569.4	1539.4	1427.7	1408.6	1438.6	1547.6	1588.4	1566.6
32.5°	1220.6	1256.0	1242.4	1106.2	1073.5	1103.5	1231.5	1269.7	1245.1
35°	975.4	1008.1	989.0	828.3	798.3	831.0	964.5	1008.1	986.3
37.5°	782.0	806.5	782.0	610.3	583.1	615.8	743.8	801.0	773.8
40°	621.2	640.3	607.6	449.6	427.8	444.1	564.0	621.2	602.1
42.5°	490.4	504.0	468.6	329.7	305.2	326.9	425.0	476.8	465.9
45°	397.8	397.8	354.2	228.9	198.9	220.7	318.8	373.3	376.0
47.5°	340.6	332.4	277.9	152.6	114.4	144.4	253.4	310.6	318.8
50°	294.3	283.4	228.9	111.7	73.6	103.5	209.8	267.0	275.2
52.5°	253.4	245.2	190.7	87.2	51.8	79.0	177.1	231.6	239.8
55°	212.5	207.1	158.0	68.1	40.9	59.9	141.7	188.0	193.4
57.5°	174.4	166.2	128.1	57.2	32.7	49.0	117.2	155.3	160.8
60°	147.1	139.0	103.5	46.3	27.2	38.1	95.4	128.1	133.5
62.5°	122.6	114.4	84.5	38.1	21.8	32.7	76.3	103.5	109.0
65°	98.1	92.6	65.4	30.0	19.1	24.5	59.9	81.7	87.2
67.5°	79.0	73.6	51.8	24.5	16.3	19.1	46.3	65.4	70.8
70°	59.9	54.5	38.1	19.1	13.6	16.3	35.4	49.0	54.5
72.5°	43.6	40.9	30.0	16.3	10.9	13.6	24.5	35.4	40.9
75°	32.7	30.0	21.8	10.9	8.2	10.9	19.1	27.2	30.0
77.5°	21.8	21.8	16.3	8.2	8.2	8.2	13.6	19.1	19.1
80°	16.3	13.6	10.9	5.4	5.4	5.4	8.2	13.6	13.6
82.5°	10.9	8.2	8.2	5.4	5.4	5.4	5.4	8.2	8.2
85°	5.4	5.4	5.4	2.7	2.7	2.7	2.7	5.4	5.4
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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)