

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: P857905

Luminaire Tested: **LD4C40D010 EU4409030 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857905
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: LD4C40D010 EU4409030 4LBMDSWLI
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

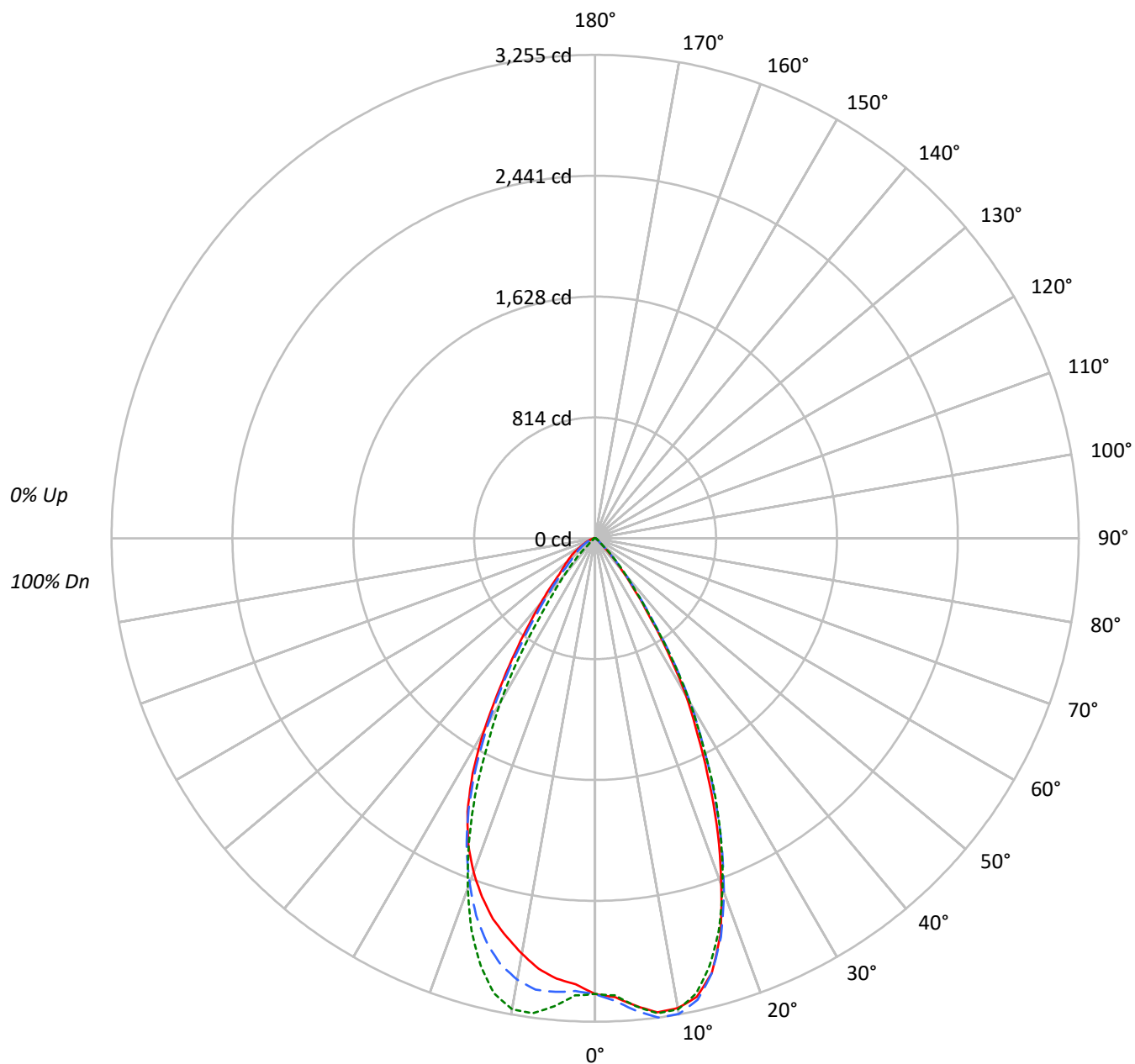
Lumens per Lamp: N/A
Luminaire Lumens: 2728.0 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	376964	376964	376964
5°	389799	390058	367009
10°	400593	401641	354224
15°	385454	378776	337631
20°	324544	327564	312738
25°	246545	259070	275296
30°	173394	180544	211824
35°	93555	97965	140168
40°	45129	49844	90948
45°	16054	21891	59107
50°	6020	7626	47361
55°	4498	5398	39132
60°	3612	4128	28379
65°	3052	3663	21977
70°	2263	3017	17349
75°	1994	2990	12958
80°	1486	2971	8914
85°	0	2960	5920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.8	11.0
10°-20°	806.0	29.5
20°-30°	874.3	32.0
30°-40°	485.1	17.8
40°-50°	154.5	5.7
50°-60°	62.3	2.3
60°-70°	31.5	1.2
70°-80°	13.0	0.5
80°-90°	2.7	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°	1979.0	72.5
0°-40°	2464.0	90.3
0°-60°	2680.8	98.3
0°-90°	2728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2728.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3068	3068	3068	3068	3068	
5°	3161	3194	3163	3066	2976	304
15°	3031	3033	2978	2818	2655	829
25°	1819	1894	1911	2014	2031	831
35°	624	674	653	863	935	414
45°	92	109	126	281	340	89
55°	21	21	25	134	183	19
65°	10	10	13	61	76	10
75°	4	4	6	21	27	5
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°	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4
2.5°	3093.6	3120.9	3118.8	3097.8	3081.0	3074.7	3051.6	3024.3	3005.4
5°	3160.8	3194.4	3194.4	3177.6	3162.9	3127.2	3066.3	3007.5	2976.0
7.5°	3219.6	3253.2	3255.3	3242.7	3225.9	3167.1	3066.3	2971.8	2923.5
10°	3211.2	3236.4	3251.1	3238.5	3219.6	3141.9	3018.0	2892.0	2839.5
12.5°	3162.9	3186.0	3183.9	3165.0	3139.8	3060.0	2938.2	2808.0	2749.2
15°	3030.6	3043.2	3032.7	3011.7	2978.1	2917.2	2818.5	2707.2	2654.6
17.5°	2801.7	2818.5	2814.3	2780.7	2768.1	2709.3	2663.0	2576.9	2530.7
20°	2482.4	2534.9	2534.9	2509.7	2505.5	2465.6	2471.9	2425.7	2392.1
22.5°	2161.1	2207.3	2222.0	2211.5	2219.9	2201.0	2259.8	2247.2	2230.4
25°	1818.8	1865.0	1894.4	1890.2	1911.2	1911.2	2014.1	2039.3	2030.9
27.5°	1497.4	1541.5	1575.1	1583.5	1570.9	1594.0	1734.8	1785.2	1785.2
30°	1222.3	1258.0	1289.5	1289.5	1272.7	1289.5	1438.6	1497.4	1493.2
32.5°	911.5	951.4	980.8	976.6	961.9	985.0	1142.5	1201.3	1186.6
35°	623.8	651.1	674.2	665.8	653.2	691.0	863.2	936.7	934.6
37.5°	422.1	447.3	462.0	455.7	451.5	495.6	653.2	735.1	730.9
40°	281.4	298.2	308.7	306.6	310.8	348.6	491.4	567.1	567.1
42.5°	178.5	189.0	199.5	199.5	210.0	249.9	373.8	438.9	438.9
45°	92.4	98.7	109.2	115.5	126.0	168.0	281.4	336.0	340.2
47.5°	44.1	46.2	50.4	52.5	60.9	105.0	216.3	275.1	287.7
50°	31.5	33.6	33.6	33.6	39.9	79.8	182.7	237.3	247.8
52.5°	25.2	25.2	25.2	27.3	31.5	67.2	157.5	205.8	214.2
55°	21.0	21.0	21.0	21.0	25.2	54.6	134.4	176.4	182.7
57.5°	16.8	16.8	16.8	16.8	21.0	44.1	111.3	140.7	142.8
60°	14.7	14.7	14.7	14.7	16.8	37.8	90.3	115.5	115.5
62.5°	12.6	12.6	12.6	12.6	14.7	31.5	75.6	94.5	92.4
65°	10.5	10.5	10.5	10.5	12.6	25.2	60.9	75.6	75.6
67.5°	8.4	8.4	8.4	8.4	10.5	21.0	48.3	60.9	60.9
70°	6.3	6.3	6.3	6.3	8.4	16.8	39.9	48.3	48.3
72.5°	6.3	6.3	6.3	6.3	6.3	12.6	29.4	37.8	35.7
75°	4.2	4.2	4.2	4.2	6.3	10.5	21.0	27.3	27.3
77.5°	4.2	4.2	4.2	4.2	4.2	8.4	16.8	18.9	18.9
80°	2.1	2.1	2.1	2.1	4.2	6.3	10.5	12.6	12.6
82.5°	0.0	2.1	0.0	2.1	2.1	4.2	8.4	8.4	8.4
85°	0.0	0.0	0.0	0.0	2.1	2.1	4.2	6.3	4.2
87.5°	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
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)