

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: P857947

Luminaire Tested: **LD4C40D010 EU4409040 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857947
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 EU4409040 4LBMDSWLI
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

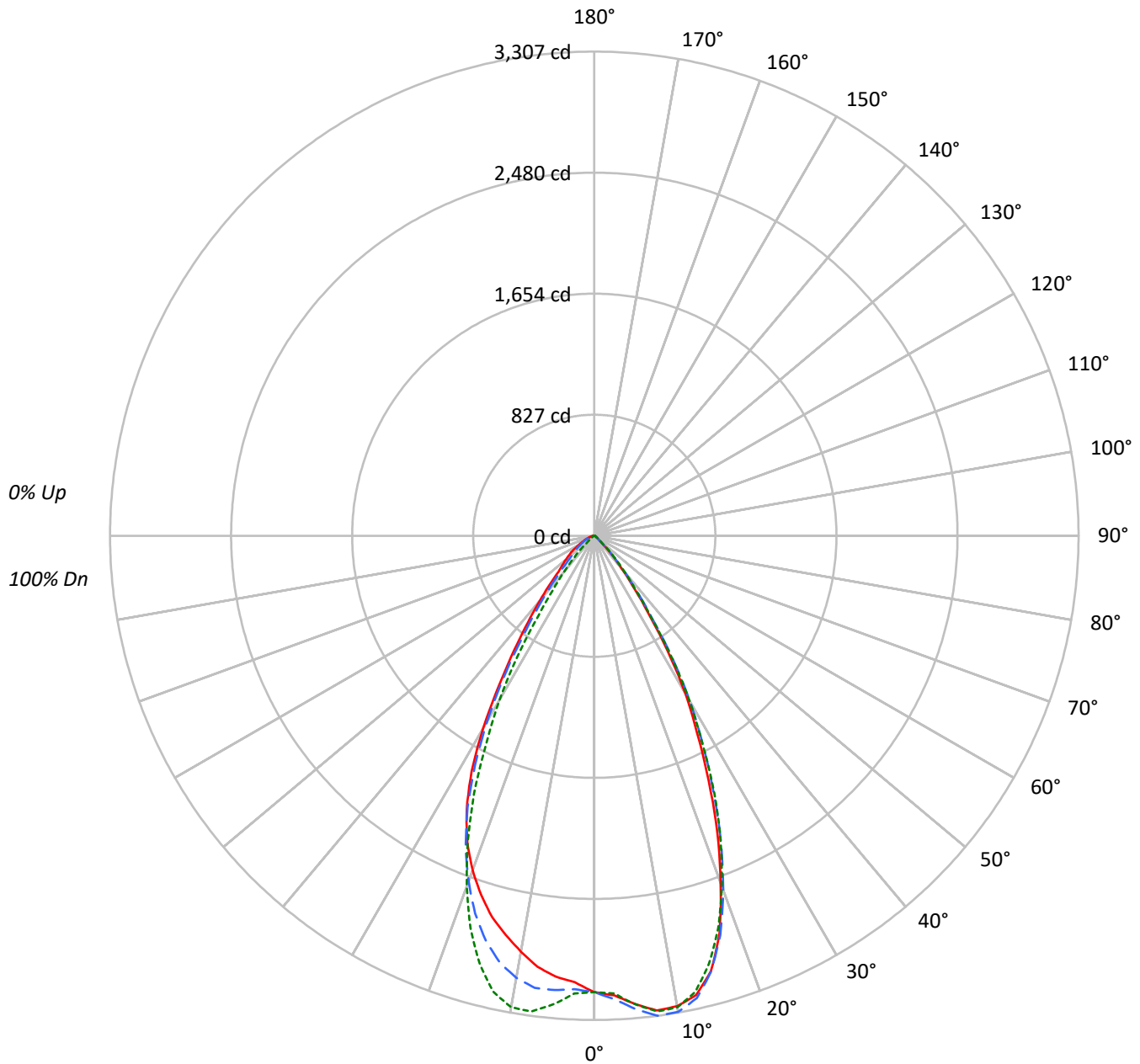
Lumens per Lamp: N/A
Luminaire Lumens: 2771.0 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	111	108	106	111	108	106	104		104	103	101		101	99	98		97	96	95
2	108	103	99	95	105	101	97	94		98	95	92		95	92	90		92	90	88
3	102	96	91	87	100	94	90	86		92	88	85		89	86	83		87	84	82
4	97	89	84	80	95	88	83	79		86	82	78		84	80	77		82	79	76
5	92	84	78	74	91	83	77	73		81	76	73		79	75	72		78	74	71
6	88	79	73	68	86	78	72	68		76	71	68		75	71	67		74	70	67
7	83	74	68	64	82	73	68	64		72	67	63		71	66	63		70	66	63
8	79	70	64	60	78	69	64	60		68	63	59		67	63	59		66	62	59
9	76	66	60	56	75	66	60	56		65	60	56		64	59	56		63	59	56
10	72	63	57	53	71	62	57	53		61	56	53		61	56	53		60	56	52

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	382910	382910	382910
5°	395940	396211	372792
10°	406905	407966	359800
15°	391533	384742	342960
20°	329669	332728	317667
25°	250422	263151	279634
30°	176132	183395	215172
35°	95025	99509	142373
40°	45851	50630	92375
45°	16314	22239	60045
50°	6116	7741	48106
55°	4562	5483	39753
60°	3661	4202	28821
65°	3110	3721	22325
70°	2299	3053	17637
75°	2041	3038	13148
80°	1486	3042	9056
85°	0	2960	6061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.5	11.0
10°-20°	818.7	29.5
20°-30°	888.0	32.0
30°-40°	492.7	17.8
40°-50°	156.9	5.7
50°-60°	63.3	2.3
60°-70°	32.0	1.2
70°-80°	13.2	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°	2010.1	72.5
0°-40°	2502.9	90.3
0°-60°	2723.1	98.3
0°-90°	2771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2771.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3117	3117	3117	3117	3117	
5°	3211	3245	3213	3115	3023	309
15°	3078	3080	3025	2863	2696	842
25°	1847	1924	1941	2046	2063	844
35°	634	685	664	877	949	420
45°	94	111	128	286	346	90
55°	21	21	26	136	186	19
65°	11	11	13	62	77	11
75°	4	4	6	21	28	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°	3116.8	3116.8	3116.8	3116.8	3116.8	3116.8	3116.8	3116.8	3116.8
2.5°	3142.4	3170.1	3168.0	3146.6	3129.6	3123.2	3099.7	3072.0	3052.8
5°	3210.6	3244.7	3244.7	3227.7	3212.8	3176.5	3114.6	3054.9	3022.9
7.5°	3270.3	3304.5	3306.6	3293.8	3276.7	3217.0	3114.6	3018.6	2969.6
10°	3261.8	3287.4	3302.3	3289.5	3270.3	3191.4	3065.6	2937.6	2884.2
12.5°	3212.8	3236.2	3234.1	3214.9	3189.3	3108.2	2984.5	2852.2	2792.5
15°	3078.4	3091.2	3080.5	3059.2	3025.0	2963.2	2862.9	2749.8	2696.5
17.5°	2845.8	2862.9	2858.6	2824.5	2811.7	2752.0	2705.0	2617.6	2570.6
20°	2521.6	2574.9	2574.9	2549.3	2545.0	2504.5	2510.9	2464.0	2429.8
22.5°	2195.2	2242.1	2257.0	2246.4	2254.9	2235.7	2295.4	2282.6	2265.6
25°	1847.4	1894.4	1924.2	1920.0	1941.3	1941.3	2045.8	2071.4	2062.9
27.5°	1521.0	1565.8	1600.0	1608.5	1595.7	1619.2	1762.1	1813.3	1813.3
30°	1241.6	1277.8	1309.8	1309.8	1292.8	1309.8	1461.3	1521.0	1516.8
32.5°	925.9	966.4	996.3	992.0	977.1	1000.5	1160.5	1220.2	1205.3
35°	633.6	661.3	684.8	676.3	663.5	701.9	876.8	951.5	949.3
37.5°	428.8	454.4	469.3	462.9	458.7	503.5	663.5	746.7	742.4
40°	285.9	302.9	313.6	311.5	315.7	354.1	499.2	576.0	576.0
42.5°	181.3	192.0	202.7	202.7	213.3	253.9	379.7	445.9	445.9
45°	93.9	100.3	110.9	117.3	128.0	170.7	285.9	341.3	345.6
47.5°	44.8	46.9	51.2	53.3	61.9	106.7	219.7	279.5	292.3
50°	32.0	34.1	34.1	34.1	40.5	81.1	185.6	241.1	251.7
52.5°	25.6	25.6	25.6	27.7	32.0	68.3	160.0	209.1	217.6
55°	21.3	21.3	21.3	21.3	25.6	55.5	136.5	179.2	185.6
57.5°	17.1	17.1	17.1	17.1	21.3	44.8	113.1	142.9	145.1
60°	14.9	14.9	14.9	14.9	17.1	38.4	91.7	117.3	117.3
62.5°	12.8	12.8	12.8	12.8	14.9	32.0	76.8	96.0	93.9
65°	10.7	10.7	10.7	10.7	12.8	25.6	61.9	76.8	76.8
67.5°	8.5	8.5	8.5	8.5	10.7	21.3	49.1	61.9	61.9
70°	6.4	6.4	6.4	6.4	8.5	17.1	40.5	49.1	49.1
72.5°	6.4	6.4	6.4	6.4	6.4	12.8	29.9	38.4	36.3
75°	4.3	4.3	4.3	4.3	6.4	10.7	21.3	27.7	27.7
77.5°	4.3	4.3	4.3	4.3	4.3	8.5	17.1	19.2	19.2
80°	2.1	2.1	2.1	2.1	4.3	6.4	10.7	12.8	12.8
82.5°	0.0	2.1	0.0	2.1	2.1	4.3	8.5	8.5	8.5
85°	0.0	0.0	0.0	0.0	2.1	2.1	4.3	6.4	4.3
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)