

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: P857965

Luminaire Tested: **LD4C40D010 EU4409050 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857965
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 EU4409050 4LBMDDWLI
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

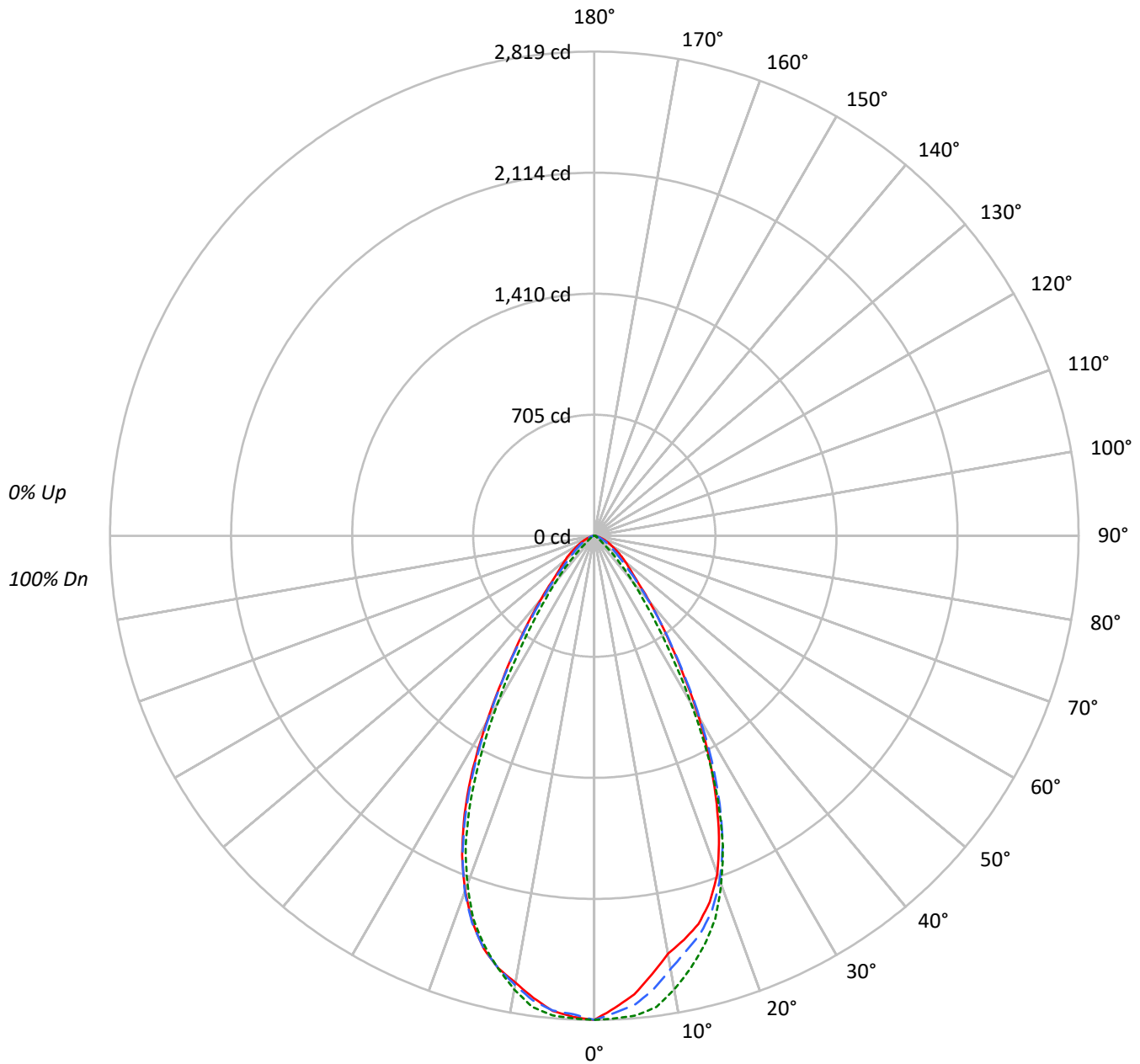
Lumens per Lamp: N/A
Luminaire Lumens: 2566.0 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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	110	107	105	111	108	105	103		104	102	100		100	99	97		97	95	94
2	107	102	97	94	105	100	96	93		97	93	91		94	91	89		91	89	87
3	101	94	89	85	99	93	88	84		90	86	83		88	84	81		85	83	80
4	96	88	82	77	94	86	81	77		84	80	76		82	78	75		80	77	74
5	91	82	75	71	89	81	75	71		79	74	70		77	73	69		76	72	69
6	86	76	70	66	84	76	70	65		74	69	65		73	68	64		71	67	64
7	81	72	65	61	80	71	65	61		70	64	60		68	64	60		67	63	60
8	77	67	61	57	76	67	61	57		66	60	56		65	60	56		64	59	56
9	74	63	57	53	72	63	57	53		62	57	53		61	56	53		60	56	53
10	70	60	54	50	69	60	54	50		59	53	50		58	53	50		57	53	49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	346287	346287	346287
5°	330431	345735	342517
10°	308192	334526	329636
15°	297606	314216	316429
20°	273752	282289	287414
25°	226890	231024	242235
30°	172600	159634	177551
35°	116862	95640	118166
40°	79594	54800	77140
45°	55215	27607	52192
50°	44934	11238	42010
55°	36369	6983	33092
60°	28871	5356	26217
65°	22791	4419	20262
70°	17206	3915	15625
75°	12389	3085	11345
80°	9268	3113	7712
85°	6202	3101	6202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.2	10.1
10°-20°	680.9	26.5
20°-30°	781.2	30.4
30°-40°	474.6	18.5
40°-50°	203.4	7.9
50°-60°	97.6	3.8
60°-70°	47.4	1.8
70°-80°	17.6	0.7
80°-90°	4.1	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°	1721.3	67.1
0°-40°	2195.9	85.6
0°-60°	2496.9	97.3
0°-90°	2566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2566.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2819	2819	2819	2819	2819	
5°	2679	2738	2804	2775	2777	249
15°	2340	2394	2470	2486	2488	651
25°	1674	1728	1704	1770	1787	759
35°	779	790	638	770	788	499
45°	318	283	159	255	300	258
55°	170	126	33	113	154	153
65°	78	52	15	48	70	79
75°	26	17	6	15	24	29
85°	4	4	2	2	4	6
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°	2818.7	2818.7	2818.7	2818.7	2818.7	2818.7	2818.7	2818.7	2818.7
2.5°	2751.2	2781.7	2779.5	2805.7	2812.2	2805.7	2788.2	2805.7	2803.5
5°	2679.4	2714.2	2738.2	2781.7	2803.5	2799.1	2775.2	2779.5	2777.4
7.5°	2574.9	2618.5	2659.8	2725.1	2766.5	2764.3	2729.5	2722.9	2714.2
10°	2470.5	2511.8	2559.7	2627.2	2681.6	2690.3	2655.5	2646.8	2642.4
12.5°	2409.5	2442.2	2474.8	2533.6	2581.5	2598.9	2579.3	2581.5	2579.3
15°	2339.9	2372.5	2394.3	2437.8	2470.5	2494.4	2485.7	2498.8	2487.9
17.5°	2235.4	2274.6	2283.3	2315.9	2339.9	2355.1	2363.8	2376.9	2359.4
20°	2093.9	2124.4	2135.3	2148.3	2159.2	2178.8	2204.9	2218.0	2198.4
22.5°	1895.8	1954.6	1952.4	1945.9	1956.8	1963.3	2004.7	2026.4	2011.2
25°	1673.8	1734.8	1728.2	1702.1	1704.3	1717.3	1769.6	1797.9	1787.0
27.5°	1440.9	1497.5	1482.3	1432.2	1419.2	1438.7	1506.2	1538.9	1532.3
30°	1216.7	1253.7	1229.8	1140.5	1125.3	1149.3	1236.3	1269.0	1251.6
32.5°	975.1	1003.4	992.5	883.7	857.6	881.5	983.8	1014.3	994.7
35°	779.2	805.3	790.1	661.7	637.7	663.9	770.5	805.3	787.9
37.5°	624.7	644.3	624.7	487.6	465.8	491.9	594.2	639.9	618.2
40°	496.3	511.5	485.4	359.1	341.7	354.8	450.6	496.3	481.0
42.5°	391.8	402.7	374.4	263.4	243.8	261.2	339.6	380.9	372.2
45°	317.8	317.8	283.0	182.8	158.9	176.3	254.7	298.2	300.4
47.5°	272.1	265.5	222.0	121.9	91.4	115.4	202.4	248.1	254.7
50°	235.1	226.4	182.8	89.2	58.8	82.7	167.6	213.3	219.8
52.5°	202.4	195.9	152.4	69.7	41.4	63.1	141.5	185.0	191.5
55°	169.8	165.4	126.2	54.4	32.6	47.9	113.2	150.2	154.5
57.5°	139.3	132.8	102.3	45.7	26.1	39.2	93.6	124.1	128.4
60°	117.5	111.0	82.7	37.0	21.8	30.5	76.2	102.3	106.7
62.5°	97.9	91.4	67.5	30.5	17.4	26.1	60.9	82.7	87.1
65°	78.4	74.0	52.2	23.9	15.2	19.6	47.9	65.3	69.7
67.5°	63.1	58.8	41.4	19.6	13.1	15.2	37.0	52.2	56.6
70°	47.9	43.5	30.5	15.2	10.9	13.1	28.3	39.2	43.5
72.5°	34.8	32.6	23.9	13.1	8.7	10.9	19.6	28.3	32.6
75°	26.1	23.9	17.4	8.7	6.5	8.7	15.2	21.8	23.9
77.5°	17.4	17.4	13.1	6.5	6.5	6.5	10.9	15.2	15.2
80°	13.1	10.9	8.7	4.4	4.4	4.4	6.5	10.9	10.9
82.5°	8.7	6.5	6.5	4.4	4.4	4.4	4.4	6.5	6.5
85°	4.4	4.4	4.4	2.2	2.2	2.2	2.2	4.4	4.4
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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)