

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: P857966

Luminaire Tested: **LD4C40D010 EU4409050 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857966
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 4LBMDSWGPH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

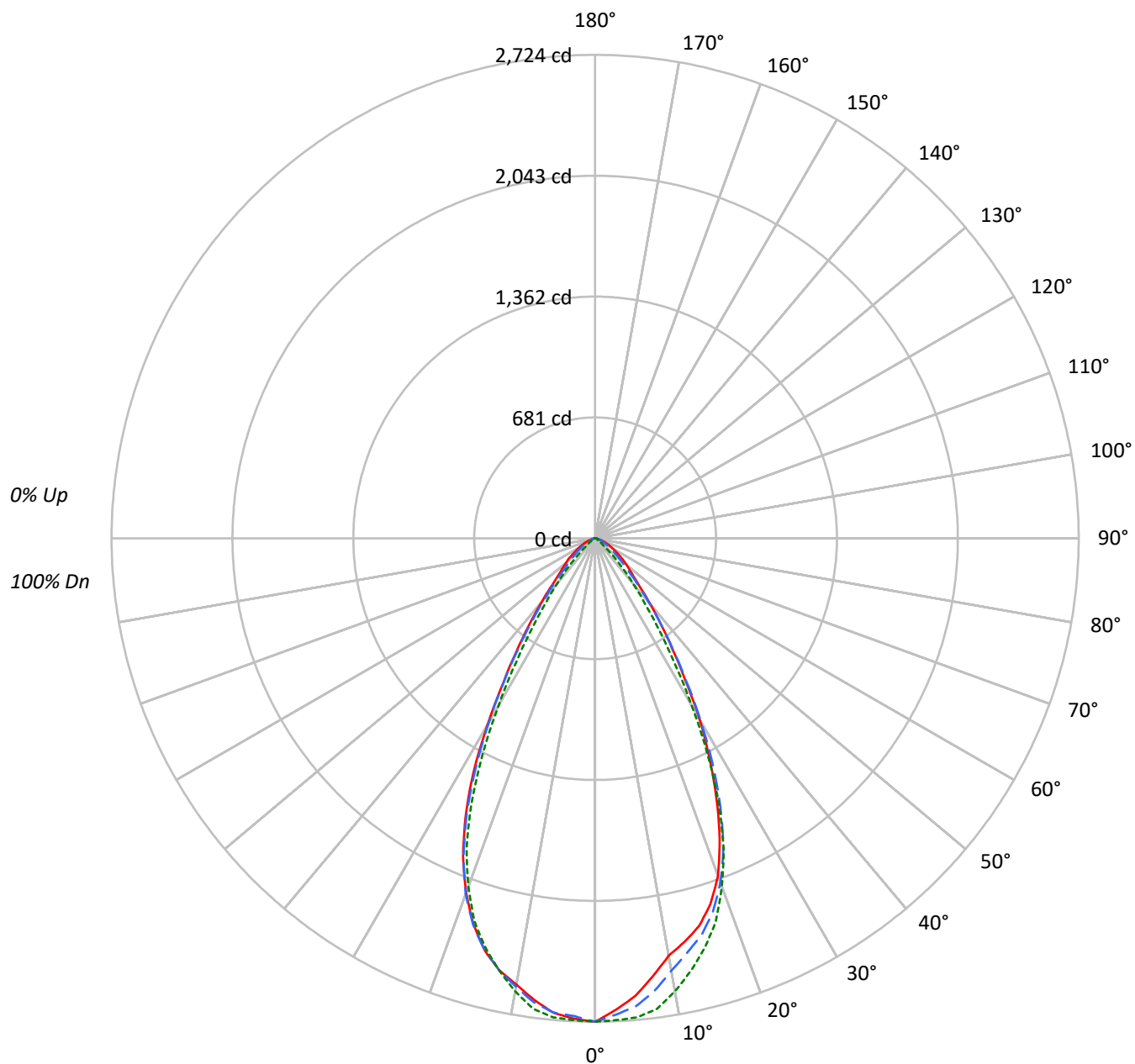
Lumens per Lamp: N/A
Luminaire Lumens: 2480.0 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	93	97	93	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		85
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	91	82	75	71	89	81	75	71	79	74	70		77	73	69		76
6	86	76	70	66	84	76	70	65	74	69	65		73	68	64		71
7	81	72	65	61	80	71	65	61	70	64	60		68	64	60		67
8	77	67	61	57	76	67	61	57	66	60	56		65	60	56		64
9	74	63	57	53	72	63	57	53	62	57	53		61	56	53		60
10	70	60	54	50	69	60	54	50	59	53	50		58	53	50		57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	334677	334677	334677
5°	319357	334143	331035
10°	297862	323311	318583
15°	287621	303685	305822
20°	264574	272824	277779
25°	219285	223284	234115
30°	166812	154286	171593
35°	112947	92445	114207
40°	76915	52971	74558
45°	53356	26687	50437
50°	43424	10856	40614
55°	35148	6768	32000
60°	27912	5160	25332
65°	22006	4273	19564
70°	16631	3772	15122
75°	11962	2990	10965
80°	8914	2971	7429
85°	5920	2960	5920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.5	10.1
10°-20°	658.1	26.5
20°-30°	755.1	30.4
30°-40°	458.7	18.5
40°-50°	196.6	7.9
50°-60°	94.3	3.8
60°-70°	45.8	1.8
70°-80°	17.0	0.7
80°-90°	3.9	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°	1663.6	67.1
0°-40°	2122.3	85.6
0°-60°	2413.2	97.3
0°-90°	2480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2480.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2724	2724	2724	2724	2724	
5°	2590	2646	2710	2682	2684	241
15°	2261	2314	2388	2402	2404	630
25°	1618	1670	1647	1710	1727	734
35°	753	764	616	745	762	483
45°	307	274	154	246	290	250
55°	164	122	32	109	149	148
65°	76	50	15	46	67	77
75°	25	17	6	15	23	28
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°	2724.2	2724.2	2724.2	2724.2	2724.2	2724.2	2724.2	2724.2	2724.2
2.5°	2659.0	2688.5	2686.4	2711.6	2717.9	2711.6	2694.8	2711.6	2709.5
5°	2589.6	2623.3	2646.4	2688.5	2709.5	2705.3	2682.2	2686.4	2684.3
7.5°	2488.6	2530.7	2570.7	2633.8	2673.8	2671.7	2638.0	2631.7	2623.3
10°	2387.7	2427.6	2473.9	2539.1	2591.7	2600.1	2566.5	2558.1	2553.8
12.5°	2328.8	2360.3	2391.9	2448.7	2494.9	2511.8	2492.8	2494.9	2492.8
15°	2261.4	2293.0	2314.0	2356.1	2387.7	2410.8	2402.4	2415.0	2404.5
17.5°	2160.5	2198.3	2206.7	2238.3	2261.4	2276.2	2284.6	2297.2	2280.4
20°	2023.7	2053.2	2063.7	2076.3	2086.8	2105.8	2131.0	2143.6	2124.7
22.5°	1832.3	1889.1	1887.0	1880.7	1891.2	1897.5	1937.5	1958.5	1943.8
25°	1617.7	1676.6	1670.3	1645.1	1647.2	1659.8	1710.3	1737.6	1727.1
27.5°	1392.6	1447.3	1432.6	1384.2	1371.6	1390.5	1455.7	1487.3	1481.0
30°	1175.9	1211.7	1188.6	1102.3	1087.6	1110.7	1194.9	1226.4	1209.6
32.5°	942.4	969.8	959.3	854.1	828.8	852.0	950.9	980.3	961.4
35°	753.1	778.4	763.6	639.5	616.4	641.6	744.7	778.4	761.5
37.5°	603.8	622.7	603.8	471.2	450.2	475.4	574.3	618.5	597.4
40°	479.6	494.4	469.1	347.1	330.3	342.9	435.5	479.6	464.9
42.5°	378.7	389.2	361.8	254.5	235.6	252.4	328.2	368.1	359.7
45°	307.1	307.1	273.5	176.7	153.6	170.4	246.1	288.2	290.3
47.5°	263.0	256.6	214.6	117.8	88.4	111.5	195.6	239.8	246.1
50°	227.2	218.8	176.7	86.3	56.8	79.9	162.0	206.2	212.5
52.5°	195.6	189.3	147.3	67.3	40.0	61.0	136.7	178.8	185.1
55°	164.1	159.9	122.0	52.6	31.6	46.3	109.4	145.2	149.4
57.5°	134.6	128.3	98.9	44.2	25.2	37.9	90.5	119.9	124.1
60°	113.6	107.3	79.9	35.8	21.0	29.5	73.6	98.9	103.1
62.5°	94.7	88.4	65.2	29.5	16.8	25.2	58.9	79.9	84.1
65°	75.7	71.5	50.5	23.1	14.7	18.9	46.3	63.1	67.3
67.5°	61.0	56.8	40.0	18.9	12.6	14.7	35.8	50.5	54.7
70°	46.3	42.1	29.5	14.7	10.5	12.6	27.3	37.9	42.1
72.5°	33.7	31.6	23.1	12.6	8.4	10.5	18.9	27.3	31.6
75°	25.2	23.1	16.8	8.4	6.3	8.4	14.7	21.0	23.1
77.5°	16.8	16.8	12.6	6.3	6.3	6.3	10.5	14.7	14.7
80°	12.6	10.5	8.4	4.2	4.2	4.2	6.3	10.5	10.5
82.5°	8.4	6.3	6.3	4.2	4.2	4.2	4.2	6.3	6.3
85°	4.2	4.2	4.2	2.1	2.1	2.1	2.1	4.2	4.2
87.5°	2.1	2.1	2.1	2.1	2.1	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)