

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: P857882

Luminaire Tested: **LD4C40D010 EU4409027 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857882
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 EU4409027 4LBMDSWGPH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

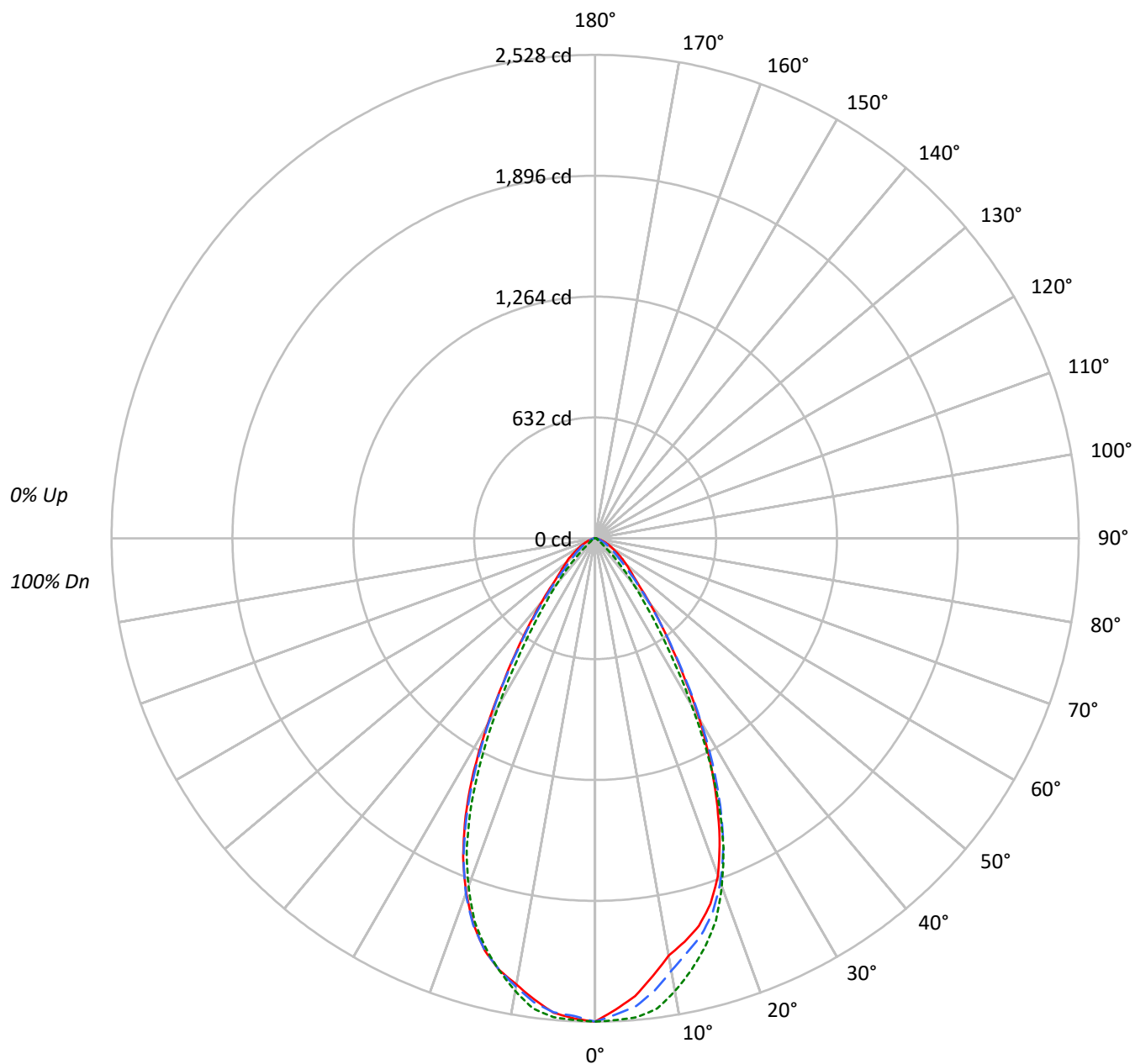
Lumens per Lamp: N/A
Luminaire Lumens: 2301.1 lumens
Efficiency: N/A
Efficacy: 49.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	310524	310524	310524
5°	296308	310033	307135
10°	276356	299983	295592
15°	266864	281758	283742
20°	245487	253135	257724
25°	203466	207167	217211
30°	154782	143150	159208
35°	104804	85772	105973
40°	71366	49139	69185
45°	49516	24758	46806
50°	40289	10072	37671
55°	32599	6276	29687
60°	25898	4791	23490
65°	20436	3983	18169
70°	15410	3520	14009
75°	11107	2801	10205
80°	8278	2759	6933
85°	5497	2819	5497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	10.1
10°-20°	610.6	26.5
20°-30°	700.6	30.4
30°-40°	425.6	18.5
40°-50°	182.4	7.9
50°-60°	87.5	3.8
60°-70°	42.5	1.8
70°-80°	15.8	0.7
80°-90°	3.7	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°	1543.6	67.1
0°-40°	1969.1	85.6
0°-60°	2239.0	97.3
0°-90°	2301.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2301.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2528	2528	2528	2528	2528	
5°	2403	2455	2514	2489	2490	223
15°	2098	2147	2215	2229	2231	584
25°	1501	1550	1528	1587	1602	681
35°	699	708	572	691	707	448
45°	285	254	142	228	269	232
55°	152	113	29	102	139	137
65°	70	47	14	43	62	71
75°	23	16	6	14	22	26
85°	4	4	2	2	4	5
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°	2527.6	2527.6	2527.6	2527.6	2527.6	2527.6	2527.6	2527.6	2527.6
2.5°	2467.1	2494.4	2492.5	2515.9	2521.8	2515.9	2500.3	2515.9	2514.0
5°	2402.7	2433.9	2455.4	2494.4	2514.0	2510.0	2488.6	2492.5	2490.5
7.5°	2309.0	2348.0	2385.1	2443.7	2480.8	2478.8	2447.6	2441.7	2433.9
10°	2215.3	2252.4	2295.3	2355.9	2404.7	2412.5	2381.2	2373.4	2369.5
12.5°	2160.7	2189.9	2219.2	2271.9	2314.9	2330.5	2312.9	2314.9	2312.9
15°	2098.2	2127.5	2147.0	2186.0	2215.3	2236.8	2229.0	2240.7	2230.9
17.5°	2004.5	2039.7	2047.5	2076.7	2098.2	2111.9	2119.7	2131.4	2115.8
20°	1877.7	1905.0	1914.7	1926.5	1936.2	1953.8	1977.2	1988.9	1971.3
22.5°	1700.0	1752.7	1750.8	1744.9	1754.7	1760.5	1797.6	1817.2	1803.5
25°	1501.0	1555.6	1549.8	1526.3	1528.3	1540.0	1586.8	1612.2	1602.4
27.5°	1292.1	1342.9	1329.2	1284.3	1272.6	1290.2	1350.7	1379.9	1374.1
30°	1091.1	1124.3	1102.8	1022.8	1009.1	1030.6	1108.6	1137.9	1122.3
32.5°	874.4	899.8	890.0	792.4	769.0	790.5	882.2	909.6	892.0
35°	698.8	722.2	708.5	593.4	571.9	595.3	690.9	722.2	706.6
37.5°	560.2	577.7	560.2	437.2	417.7	441.1	532.8	573.8	554.3
40°	445.0	458.7	435.3	322.1	306.4	318.1	404.0	445.0	431.4
42.5°	351.3	361.1	335.7	236.2	218.6	234.2	304.5	341.6	333.8
45°	285.0	285.0	253.7	164.0	142.5	158.1	228.4	267.4	269.4
47.5°	244.0	238.1	199.1	109.3	82.0	103.4	181.5	222.5	228.4
50°	210.8	203.0	164.0	80.0	52.7	74.2	150.3	191.3	197.1
52.5°	181.5	175.7	136.6	62.5	37.1	56.6	126.9	165.9	171.8
55°	152.2	148.3	113.2	48.8	29.3	42.9	101.5	134.7	138.6
57.5°	124.9	119.1	91.7	41.0	23.4	35.1	83.9	111.3	115.2
60°	105.4	99.5	74.2	33.2	19.5	27.3	68.3	91.7	95.6
62.5°	87.8	82.0	60.5	27.3	15.6	23.4	54.7	74.2	78.1
65°	70.3	66.4	46.8	21.5	13.7	17.6	42.9	58.6	62.5
67.5°	56.6	52.7	37.1	17.6	11.7	13.7	33.2	46.8	50.7
70°	42.9	39.0	27.3	13.7	9.8	11.7	25.4	35.1	39.0
72.5°	31.2	29.3	21.5	11.7	7.8	9.8	17.6	25.4	29.3
75°	23.4	21.5	15.6	7.8	5.9	7.8	13.7	19.5	21.5
77.5°	15.6	15.6	11.7	5.9	5.9	5.9	9.8	13.7	13.7
80°	11.7	9.8	7.8	3.9	3.9	3.9	5.9	9.8	9.8
82.5°	7.8	5.9	5.9	3.9	3.9	3.9	3.9	5.9	5.9
85°	3.9	3.9	3.9	2.0	2.0	2.0	2.0	3.9	3.9
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)