

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: P857527

Luminaire Tested: **LD4C30D010 EU4309030 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857527
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: LD4C30D010 EU4309030 4LBMDSWLI
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

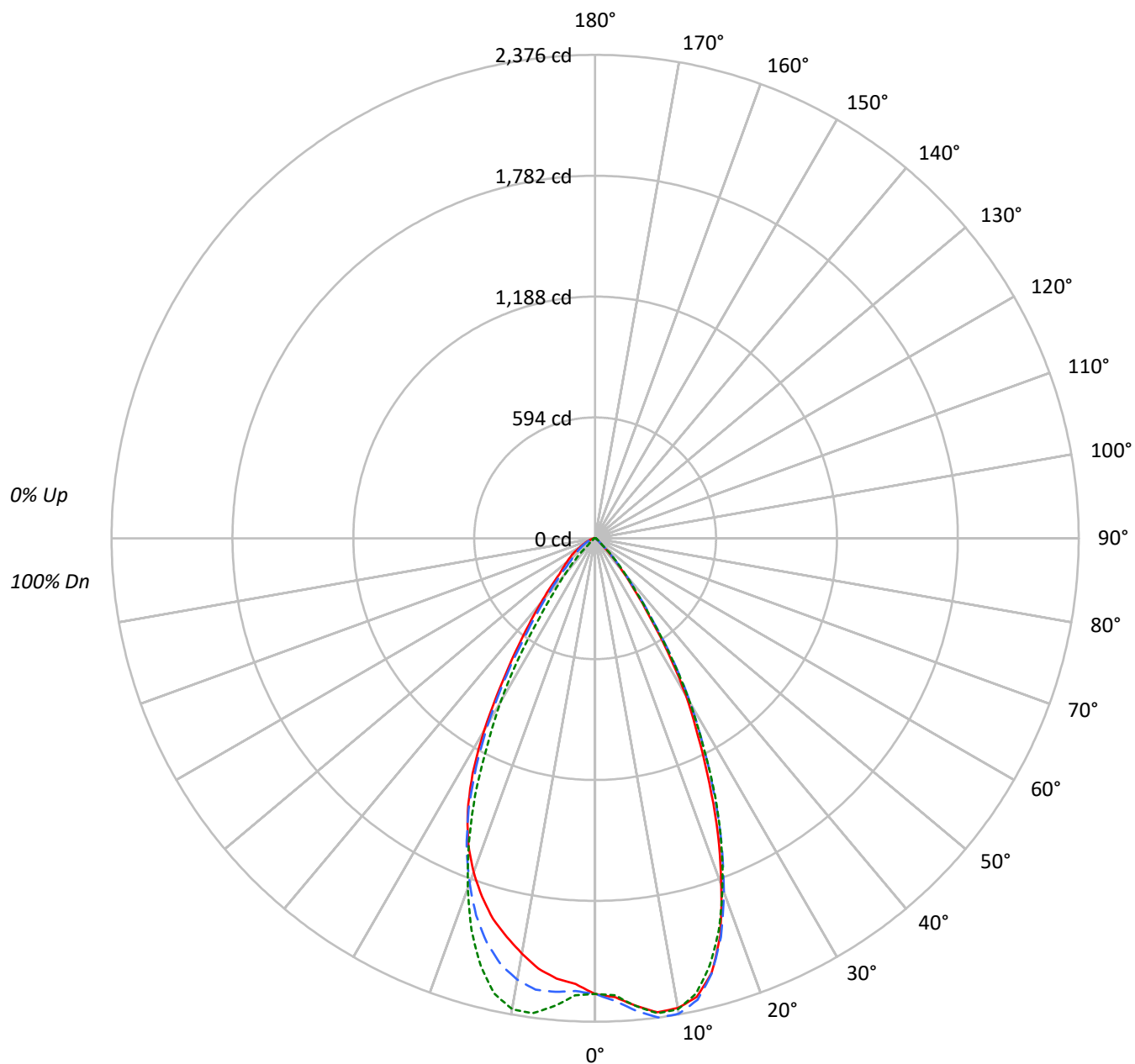
Lumens per Lamp: N/A
Luminaire Lumens: 1991.0 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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	111	108	106	111	108	106	104		104	103	101			101	99	98			97
2	108	103	99	95	105	101	97	94		98	95	92			95	92	90			92
3	102	96	91	87	100	94	90	86		92	88	85			89	86	83			87
4	97	89	84	80	95	88	83	79		86	82	78			84	80	77			82
5	92	84	78	74	91	83	77	73		81	76	73			79	75	72			78
6	88	79	73	68	86	78	72	68		76	71	68			75	71	67			74
7	83	74	68	64	82	73	68	64		72	67	63			71	66	63			70
8	79	70	64	60	78	69	64	60		68	63	59			67	63	59			66
9	76	66	60	56	75	66	60	56		65	60	56			64	59	56			63
10	72	63	57	53	71	62	57	53		61	56	53			61	56	53			60

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	275118	275118	275118
5°	284493	284678	267857
10°	292374	293134	258529
15°	281313	276442	246425
20°	236871	239067	228255
25°	179934	189084	200918
30°	126552	131773	154598
35°	68269	71494	102299
40°	32941	36389	66379
45°	11710	15984	43140
50°	4396	5562	34575
55°	3277	3941	28573
60°	2629	3022	20713
65°	2238	2674	16046
70°	1652	2191	12680
75°	1471	2183	9446
80°	1061	2193	6509
85°	0	2114	4370



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.0	11.0
10°-20°	588.2	29.5
20°-30°	638.1	32.0
30°-40°	354.0	17.8
40°-50°	112.8	5.7
50°-60°	45.5	2.3
60°-70°	23.0	1.2
70°-80°	9.5	0.5
80°-90°	2.0	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°	1444.3	72.5
0°-40°	1798.3	90.3
0°-60°	1956.5	98.3
0°-90°	1991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1991.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2239	2239	2239	2239	2239	
5°	2307	2331	2308	2238	2172	222
15°	2212	2213	2174	2057	1938	605
25°	1327	1383	1395	1470	1482	606
35°	455	492	477	630	682	302
45°	67	80	92	205	248	65
55°	15	15	18	98	133	14
65°	8	8	9	44	55	8
75°	3	3	5	15	20	4
85°	0	0	2	3	3	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°	2239.4	2239.4	2239.4	2239.4	2239.4	2239.4	2239.4	2239.4	2239.4
2.5°	2257.8	2277.7	2276.2	2260.9	2248.6	2244.0	2227.2	2207.2	2193.4
5°	2306.9	2331.4	2331.4	2319.1	2308.4	2282.3	2237.9	2195.0	2172.0
7.5°	2349.8	2374.3	2375.8	2366.6	2354.4	2311.5	2237.9	2168.9	2133.7
10°	2343.7	2362.1	2372.8	2363.6	2349.8	2293.1	2202.6	2110.7	2072.4
12.5°	2308.4	2325.3	2323.7	2309.9	2291.5	2233.3	2144.4	2049.4	2006.4
15°	2211.8	2221.0	2213.4	2198.0	2173.5	2129.1	2057.0	1975.8	1937.5
17.5°	2044.8	2057.0	2054.0	2029.4	2020.2	1977.3	1943.6	1880.8	1847.0
20°	1811.8	1850.1	1850.1	1831.7	1828.6	1799.5	1804.1	1770.4	1745.9
22.5°	1577.3	1611.0	1621.7	1614.0	1620.2	1606.4	1649.3	1640.1	1627.8
25°	1327.4	1361.1	1382.6	1379.5	1394.9	1394.9	1470.0	1488.4	1482.2
27.5°	1092.9	1125.1	1149.6	1155.7	1146.5	1163.4	1266.1	1302.9	1302.9
30°	892.1	918.1	941.1	941.1	928.9	941.1	1050.0	1092.9	1089.8
32.5°	665.2	694.4	715.8	712.8	702.0	718.9	833.8	876.8	866.0
35°	455.2	475.2	492.0	485.9	476.7	504.3	630.0	683.6	682.1
37.5°	308.1	326.5	337.2	332.6	329.6	361.7	476.7	536.5	533.4
40°	205.4	217.7	225.3	223.8	226.9	254.4	358.7	413.9	413.9
42.5°	130.3	138.0	145.6	145.6	153.3	182.4	272.8	320.4	320.4
45°	67.4	72.0	79.7	84.3	92.0	122.6	205.4	245.2	248.3
47.5°	32.2	33.7	36.8	38.3	44.5	76.6	157.9	200.8	210.0
50°	23.0	24.5	24.5	24.5	29.1	58.2	133.4	173.2	180.9
52.5°	18.4	18.4	18.4	19.9	23.0	49.0	115.0	150.2	156.3
55°	15.3	15.3	15.3	15.3	18.4	39.9	98.1	128.8	133.4
57.5°	12.3	12.3	12.3	12.3	15.3	32.2	81.2	102.7	104.2
60°	10.7	10.7	10.7	10.7	12.3	27.6	65.9	84.3	84.3
62.5°	9.2	9.2	9.2	9.2	10.7	23.0	55.2	69.0	67.4
65°	7.7	7.7	7.7	7.7	9.2	18.4	44.5	55.2	55.2
67.5°	6.1	6.1	6.1	6.1	7.7	15.3	35.3	44.5	44.5
70°	4.6	4.6	4.6	4.6	6.1	12.3	29.1	35.3	35.3
72.5°	4.6	4.6	4.6	4.6	4.6	9.2	21.5	27.6	26.1
75°	3.1	3.1	3.1	3.1	4.6	7.7	15.3	19.9	19.9
77.5°	3.1	3.1	3.1	3.1	3.1	6.1	12.3	13.8	13.8
80°	1.5	1.5	1.5	1.5	3.1	4.6	7.7	9.2	9.2
82.5°	0.0	1.5	0.0	1.5	1.5	3.1	6.1	6.1	6.1
85°	0.0	0.0	0.0	0.0	1.5	1.5	3.1	4.6	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
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)