

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: P857590

Luminaire Tested: **LD4C30D010 EU4309050 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857590
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 EU4309050 4LBMDSWLI
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

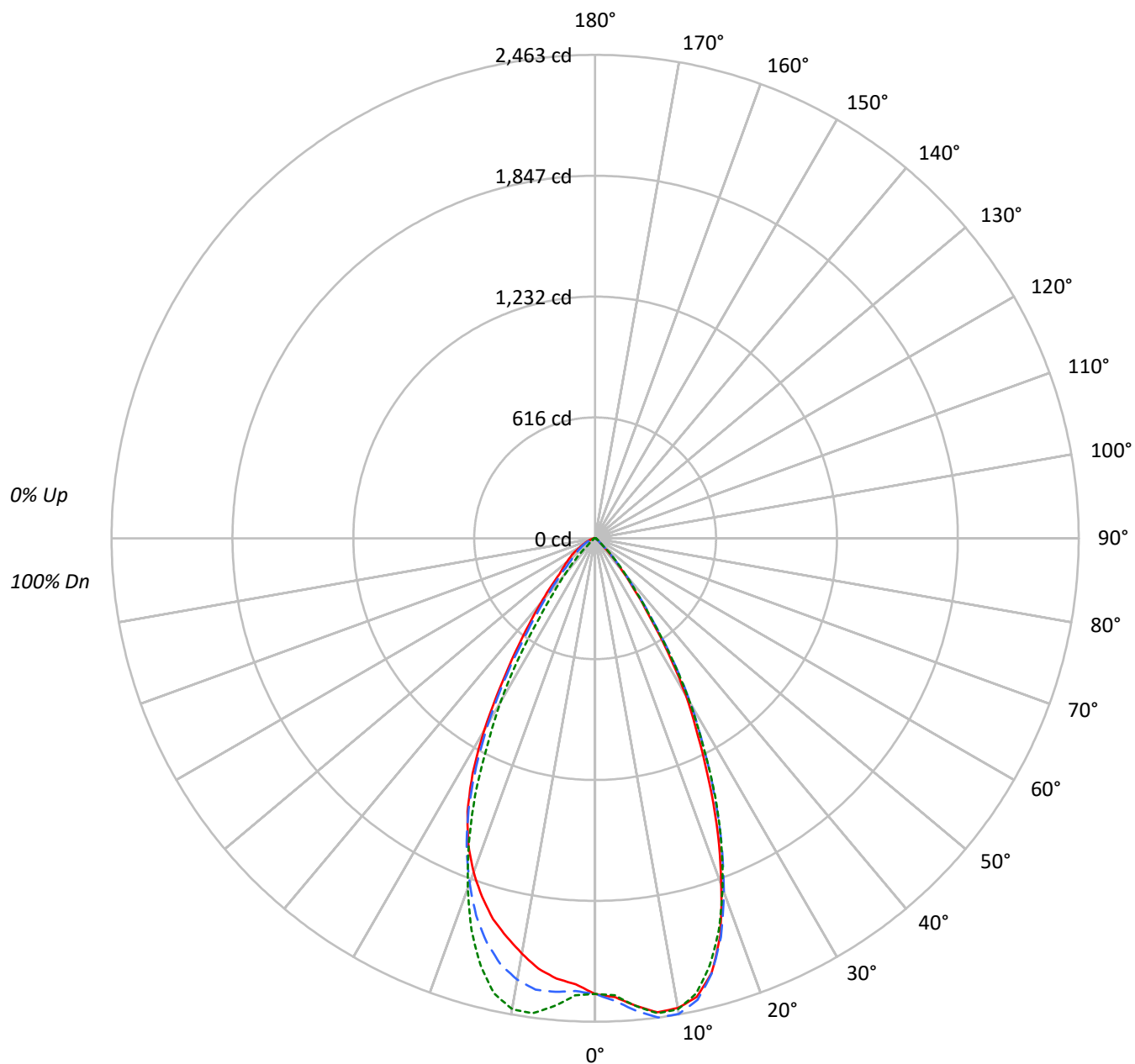
Lumens per Lamp: N/A
Luminaire Lumens: 2064.0 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	285204	285204	285204
5°	294926	295111	277674
10°	303089	303875	267998
15°	291628	286578	255456
20°	245552	247840	236623
25°	186536	196011	208292
30°	131191	136596	160272
35°	70774	74118	106048
40°	34144	37720	68800
45°	12144	16558	44721
50°	4549	5772	35836
55°	3406	4091	29601
60°	2727	3120	21475
65°	2296	2762	16628
70°	1724	2299	13111
75°	1519	2278	9826
80°	1132	2264	6721
85°	0	2255	4511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.0	11.0
10°-20°	609.8	29.5
20°-30°	661.5	32.0
30°-40°	367.0	17.8
40°-50°	116.9	5.7
50°-60°	47.1	2.3
60°-70°	23.8	1.2
70°-80°	9.9	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°	1497.3	72.5
0°-40°	1864.3	90.3
0°-60°	2028.3	98.3
0°-90°	2064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2064.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2322	2322	2322	2322	2322	
5°	2392	2417	2393	2320	2252	230
15°	2293	2294	2253	2132	2008	627
25°	1376	1433	1446	1524	1537	629
35°	472	510	494	653	707	313
45°	70	83	95	213	257	67
55°	16	16	19	102	138	15
65°	8	8	10	46	57	8
75°	3	3	5	16	21	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°	2321.5	2321.5	2321.5	2321.5	2321.5	2321.5	2321.5	2321.5	2321.5
2.5°	2340.6	2361.3	2359.7	2343.8	2331.1	2326.3	2308.8	2288.2	2273.9
5°	2391.5	2416.9	2416.9	2404.2	2393.0	2366.0	2319.9	2275.5	2251.6
7.5°	2435.9	2461.4	2463.0	2453.4	2440.7	2396.2	2319.9	2248.4	2211.9
10°	2429.6	2448.7	2459.8	2450.2	2435.9	2377.2	2283.4	2188.1	2148.3
12.5°	2393.0	2410.5	2408.9	2394.6	2375.6	2315.2	2223.0	2124.5	2080.0
15°	2292.9	2302.5	2294.5	2278.6	2253.2	2207.1	2132.4	2048.2	2008.5
17.5°	2119.7	2132.4	2129.3	2103.8	2094.3	2049.8	2014.9	1949.7	1914.8
20°	1878.2	1917.9	1917.9	1898.9	1895.7	1865.5	1870.3	1835.3	1809.9
22.5°	1635.1	1670.0	1681.2	1673.2	1679.6	1665.3	1709.8	1700.2	1687.5
25°	1376.1	1411.0	1433.3	1430.1	1446.0	1446.0	1523.9	1542.9	1536.6
27.5°	1133.0	1166.3	1191.8	1198.1	1188.6	1206.1	1312.5	1350.7	1350.7
30°	924.8	951.8	975.6	975.6	962.9	975.6	1088.5	1133.0	1129.8
32.5°	689.6	719.8	742.1	738.9	727.8	745.2	864.4	908.9	897.8
35°	471.9	492.6	510.1	503.7	494.2	522.8	653.1	708.7	707.1
37.5°	319.4	338.5	349.6	344.8	341.6	375.0	494.2	556.2	553.0
40°	212.9	225.6	233.6	232.0	235.2	263.8	371.8	429.0	429.0
42.5°	135.1	143.0	151.0	151.0	158.9	189.1	282.8	332.1	332.1
45°	69.9	74.7	82.6	87.4	95.3	127.1	212.9	254.2	257.4
47.5°	33.4	35.0	38.1	39.7	46.1	79.5	163.7	208.2	217.7
50°	23.8	25.4	25.4	25.4	30.2	60.4	138.2	179.6	187.5
52.5°	19.1	19.1	19.1	20.7	23.8	50.8	119.2	155.7	162.1
55°	15.9	15.9	15.9	15.9	19.1	41.3	101.7	133.5	138.2
57.5°	12.7	12.7	12.7	12.7	15.9	33.4	84.2	106.5	108.1
60°	11.1	11.1	11.1	11.1	12.7	28.6	68.3	87.4	87.4
62.5°	9.5	9.5	9.5	9.5	11.1	23.8	57.2	71.5	69.9
65°	7.9	7.9	7.9	7.9	9.5	19.1	46.1	57.2	57.2
67.5°	6.4	6.4	6.4	6.4	7.9	15.9	36.5	46.1	46.1
70°	4.8	4.8	4.8	4.8	6.4	12.7	30.2	36.5	36.5
72.5°	4.8	4.8	4.8	4.8	4.8	9.5	22.2	28.6	27.0
75°	3.2	3.2	3.2	3.2	4.8	7.9	15.9	20.7	20.7
77.5°	3.2	3.2	3.2	3.2	3.2	6.4	12.7	14.3	14.3
80°	1.6	1.6	1.6	1.6	3.2	4.8	7.9	9.5	9.5
82.5°	0.0	1.6	0.0	1.6	1.6	3.2	6.4	6.4	6.4
85°	0.0	0.0	0.0	0.0	1.6	1.6	3.2	4.8	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
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)