

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: P857569

Luminaire Tested: **LD4C30D010 EU4309040 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857569
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 EU4309040 4LBMDSWLI
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

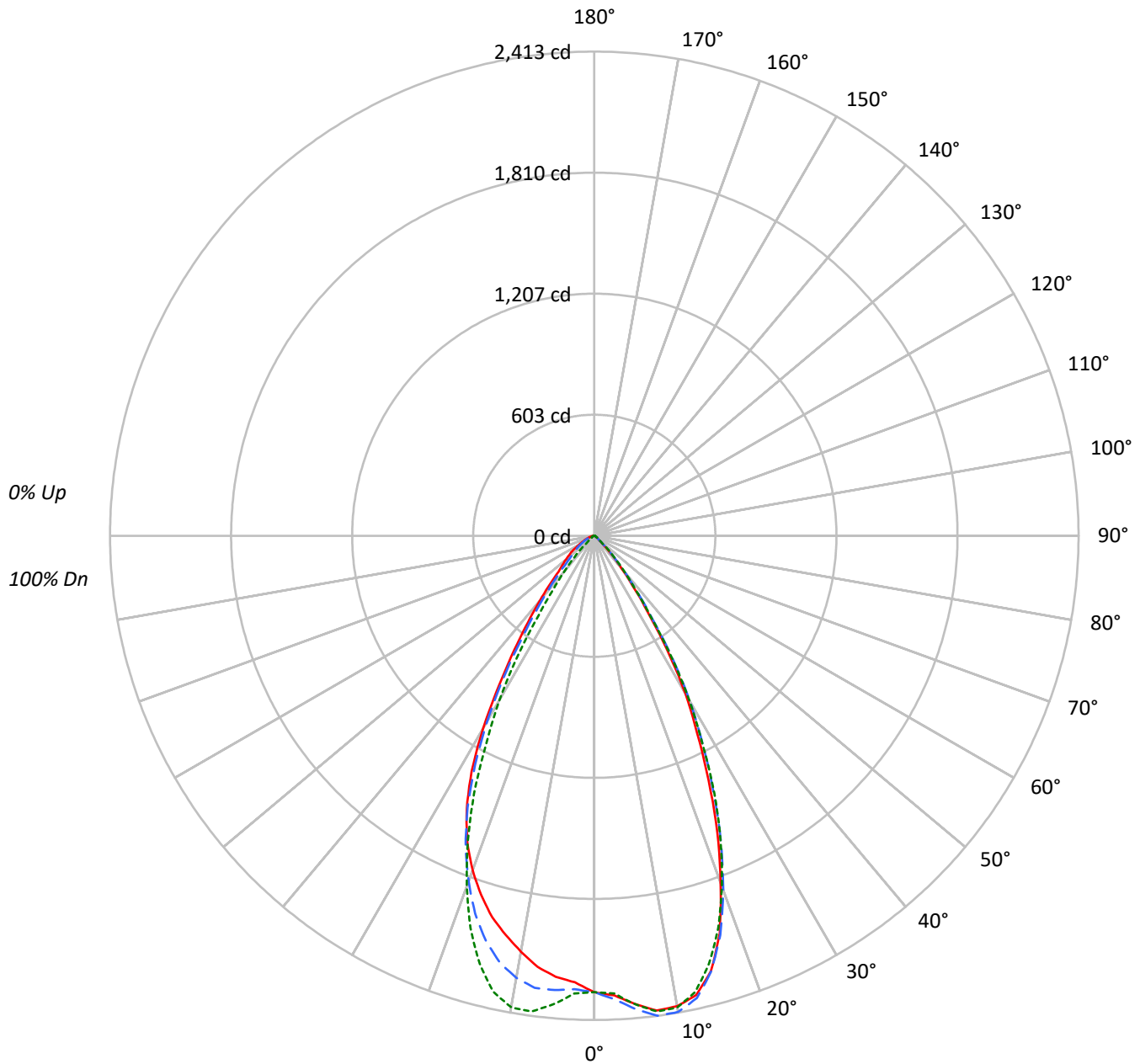
Lumens per Lamp: N/A
Luminaire Lumens: 2022.0 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	279406	279406	279406
5°	288921	289106	272025
10°	296914	297700	262546
15°	285701	280753	250254
20°	240558	242793	231798
25°	182740	192026	204049
30°	128524	133816	157010
35°	69334	72604	103889
40°	33454	36950	67405
45°	11901	16227	43817
50°	4472	5657	35110
55°	3341	4005	29001
60°	2678	3071	21033
65°	2267	2703	16279
70°	1688	2227	12859
75°	1471	2231	9588
80°	1132	2193	6580
85°	0	2255	4370



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.4	11.0
10°-20°	597.4	29.5
20°-30°	648.0	32.0
30°-40°	359.5	17.8
40°-50°	114.5	5.7
50°-60°	46.2	2.3
60°-70°	23.3	1.2
70°-80°	9.7	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°	1466.8	72.5
0°-40°	1826.3	90.3
0°-60°	1987.0	98.3
0°-90°	2022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2022.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2274	2274	2274	2274	2274	
5°	2343	2368	2344	2273	2206	225
15°	2246	2248	2207	2089	1968	614
25°	1348	1404	1417	1493	1505	616
35°	462	500	484	640	693	307
45°	68	81	93	209	252	66
55°	16	16	19	100	135	14
65°	8	8	9	45	56	8
75°	3	3	5	16	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°	2274.3	2274.3	2274.3	2274.3	2274.3	2274.3	2274.3	2274.3	2274.3
2.5°	2293.0	2313.2	2311.7	2296.1	2283.6	2279.0	2261.8	2241.6	2227.6
5°	2342.8	2367.7	2367.7	2355.2	2344.3	2317.9	2272.7	2229.2	2205.8
7.5°	2386.4	2411.3	2412.8	2403.5	2391.0	2347.5	2272.7	2202.7	2166.9
10°	2380.1	2398.8	2409.7	2400.4	2386.4	2328.8	2236.9	2143.5	2104.6
12.5°	2344.3	2361.5	2359.9	2345.9	2327.2	2268.1	2177.8	2081.3	2037.7
15°	2246.3	2255.6	2247.8	2232.3	2207.4	2162.2	2089.1	2006.5	1967.6
17.5°	2076.6	2089.1	2085.9	2061.0	2051.7	2008.1	1973.9	1910.0	1875.8
20°	1840.0	1878.9	1878.9	1860.2	1857.1	1827.5	1832.2	1798.0	1773.0
22.5°	1601.8	1636.1	1647.0	1639.2	1645.4	1631.4	1675.0	1665.6	1653.2
25°	1348.1	1382.3	1404.1	1401.0	1416.6	1416.6	1492.8	1511.5	1505.3
27.5°	1109.9	1142.6	1167.5	1173.7	1164.4	1181.5	1285.8	1323.2	1323.2
30°	906.0	932.4	955.8	955.8	943.3	955.8	1066.3	1109.9	1106.8
32.5°	675.6	705.2	727.0	723.9	713.0	730.1	846.8	890.4	879.5
35°	462.3	482.6	499.7	493.5	484.1	512.1	639.8	694.3	692.7
37.5°	312.9	331.6	342.5	337.8	334.7	367.4	484.1	544.8	541.7
40°	208.6	221.0	228.8	227.3	230.4	258.4	364.3	420.3	420.3
42.5°	132.3	140.1	147.9	147.9	155.7	185.2	277.1	325.3	325.3
45°	68.5	73.2	80.9	85.6	93.4	124.5	208.6	249.1	252.2
47.5°	32.7	34.2	37.4	38.9	45.1	77.8	160.3	203.9	213.3
50°	23.4	24.9	24.9	24.9	29.6	59.2	135.4	175.9	183.7
52.5°	18.7	18.7	18.7	20.2	23.4	49.8	116.8	152.6	158.8
55°	15.6	15.6	15.6	15.6	18.7	40.5	99.6	130.8	135.4
57.5°	12.5	12.5	12.5	12.5	15.6	32.7	82.5	104.3	105.9
60°	10.9	10.9	10.9	10.9	12.5	28.0	66.9	85.6	85.6
62.5°	9.3	9.3	9.3	9.3	10.9	23.4	56.0	70.1	68.5
65°	7.8	7.8	7.8	7.8	9.3	18.7	45.1	56.0	56.0
67.5°	6.2	6.2	6.2	6.2	7.8	15.6	35.8	45.1	45.1
70°	4.7	4.7	4.7	4.7	6.2	12.5	29.6	35.8	35.8
72.5°	4.7	4.7	4.7	4.7	4.7	9.3	21.8	28.0	26.5
75°	3.1	3.1	3.1	3.1	4.7	7.8	15.6	20.2	20.2
77.5°	3.1	3.1	3.1	3.1	3.1	6.2	12.5	14.0	14.0
80°	1.6	1.6	1.6	1.6	3.1	4.7	7.8	9.3	9.3
82.5°	0.0	1.6	0.0	1.6	1.6	3.1	6.2	6.2	6.2
85°	0.0	0.0	0.0	0.0	1.6	1.6	3.1	4.7	3.1
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)