

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: P857548

Luminaire Tested: **LD4C30D010 EU4309035 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857548
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 EU4309035 4LBMDSWLI
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

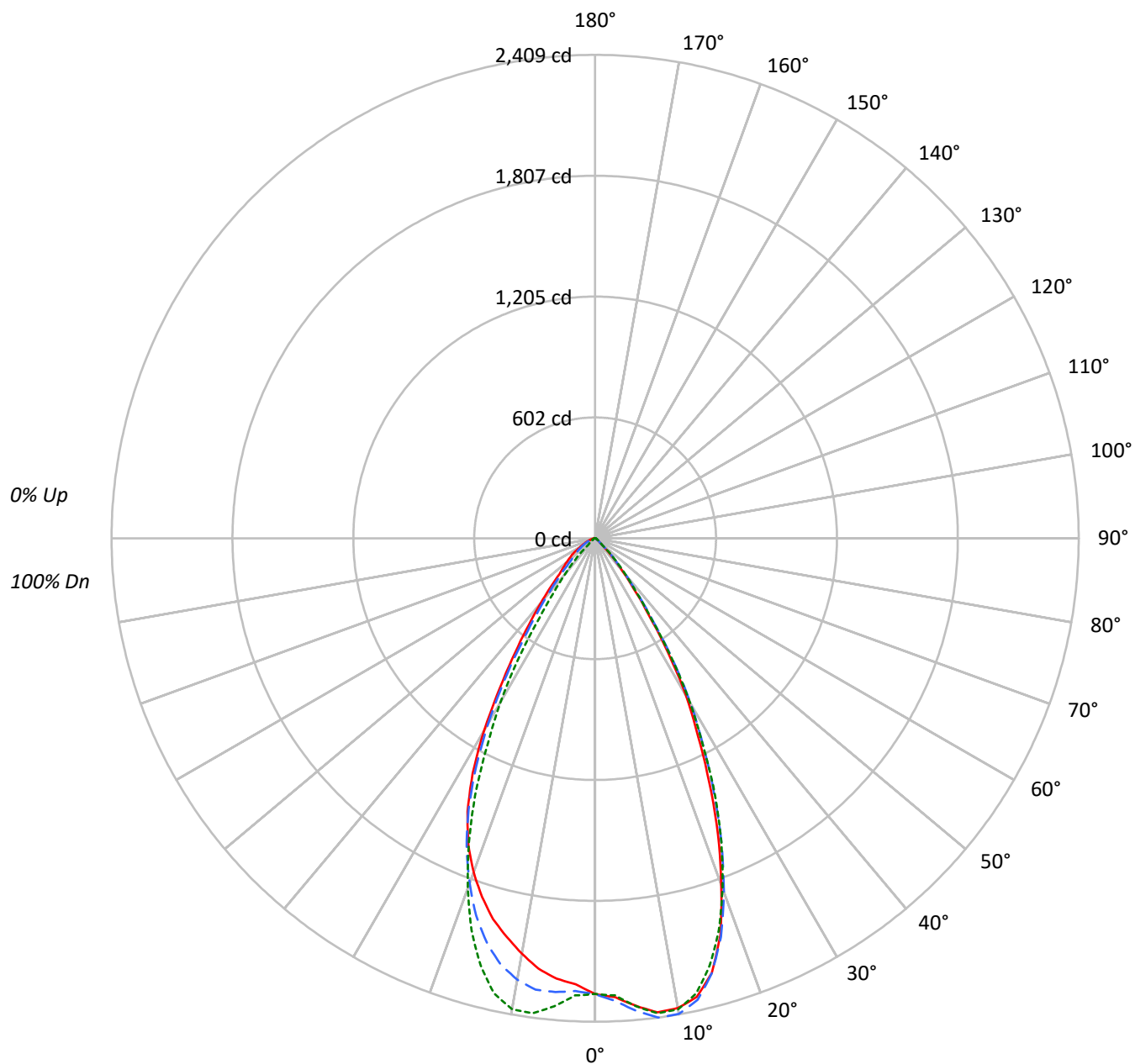
Lumens per Lamp: N/A
Luminaire Lumens: 2019.0 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93		
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87		
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80		
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70		
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65		
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61		
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58		
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54		
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	278988	278988	278988
5°	288489	288686	271618
10°	296478	297251	262159
15°	285268	280333	249885
20°	240205	242440	231458
25°	182469	191741	203751
30°	128326	133617	156783
35°	69229	72499	103739
40°	33406	36886	67309
45°	11884	16210	43748
50°	4453	5638	35053
55°	3320	4005	28958
60°	2678	3047	21008
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°	221.1	11.0
10°-20°	596.5	29.5
20°-30°	647.0	32.0
30°-40°	359.0	17.8
40°-50°	114.3	5.7
50°-60°	46.1	2.3
60°-70°	23.3	1.2
70°-80°	9.6	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°	1464.6	72.5
0°-40°	1823.6	90.3
0°-60°	1984.1	98.3
0°-90°	2019.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2019.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2271	2271	2271	2271	2271	
5°	2339	2364	2341	2269	2202	225
15°	2243	2244	2204	2086	1965	613
25°	1346	1402	1414	1491	1503	615
35°	462	499	483	639	692	306
45°	68	81	93	208	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°	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9	2270.9
2.5°	2289.6	2309.8	2308.2	2292.7	2280.2	2275.6	2258.5	2238.3	2224.3
5°	2339.3	2364.2	2364.2	2351.7	2340.9	2314.4	2269.4	2225.8	2202.5
7.5°	2382.8	2407.7	2409.3	2399.9	2387.5	2344.0	2269.4	2199.4	2163.7
10°	2376.6	2395.3	2406.2	2396.8	2382.8	2325.3	2233.6	2140.4	2101.5
12.5°	2340.9	2358.0	2356.4	2342.4	2323.8	2264.7	2174.6	2078.2	2034.7
15°	2242.9	2252.3	2244.5	2229.0	2204.1	2159.0	2086.0	2003.6	1964.7
17.5°	2073.5	2086.0	2082.8	2058.0	2048.6	2005.1	1970.9	1907.2	1873.0
20°	1837.3	1876.1	1876.1	1857.5	1854.4	1824.8	1829.5	1795.3	1770.4
22.5°	1599.4	1633.6	1644.5	1636.7	1643.0	1629.0	1672.5	1663.2	1650.7
25°	1346.1	1380.3	1402.0	1398.9	1414.5	1414.5	1490.6	1509.3	1503.1
27.5°	1108.3	1140.9	1165.8	1172.0	1162.7	1179.8	1283.9	1321.2	1321.2
30°	904.6	931.1	954.4	954.4	941.9	954.4	1064.7	1108.3	1105.2
32.5°	674.6	704.1	725.9	722.8	711.9	729.0	845.6	889.1	878.2
35°	461.6	481.9	498.9	492.7	483.4	511.4	638.8	693.2	691.7
37.5°	312.4	331.1	342.0	337.3	334.2	366.8	483.4	544.0	540.9
40°	208.3	220.7	228.5	226.9	230.0	258.0	363.7	419.7	419.7
42.5°	132.1	139.9	147.7	147.7	155.4	185.0	276.7	324.9	324.9
45°	68.4	73.1	80.8	85.5	93.3	124.3	208.3	248.7	251.8
47.5°	32.6	34.2	37.3	38.9	45.1	77.7	160.1	203.6	212.9
50°	23.3	24.9	24.9	24.9	29.5	59.1	135.2	175.6	183.4
52.5°	18.7	18.7	18.7	20.2	23.3	49.7	116.6	152.3	158.5
55°	15.5	15.5	15.5	15.5	18.7	40.4	99.5	130.6	135.2
57.5°	12.4	12.4	12.4	12.4	15.5	32.6	82.4	104.1	105.7
60°	10.9	10.9	10.9	10.9	12.4	28.0	66.8	85.5	85.5
62.5°	9.3	9.3	9.3	9.3	10.9	23.3	56.0	69.9	68.4
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	15.5	35.8	45.1	45.1
70°	4.7	4.7	4.7	4.7	6.2	12.4	29.5	35.8	35.8
72.5°	4.7	4.7	4.7	4.7	4.7	9.3	21.8	28.0	26.4
75°	3.1	3.1	3.1	3.1	4.7	7.8	15.5	20.2	20.2
77.5°	3.1	3.1	3.1	3.1	3.1	6.2	12.4	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)