

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: P857354

Luminaire Tested: **LD4C25D010 EU4259030 4LBMDSWWMH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P857354  
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: LD4C25D010 EU4259030 4LBMDSWWMH  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

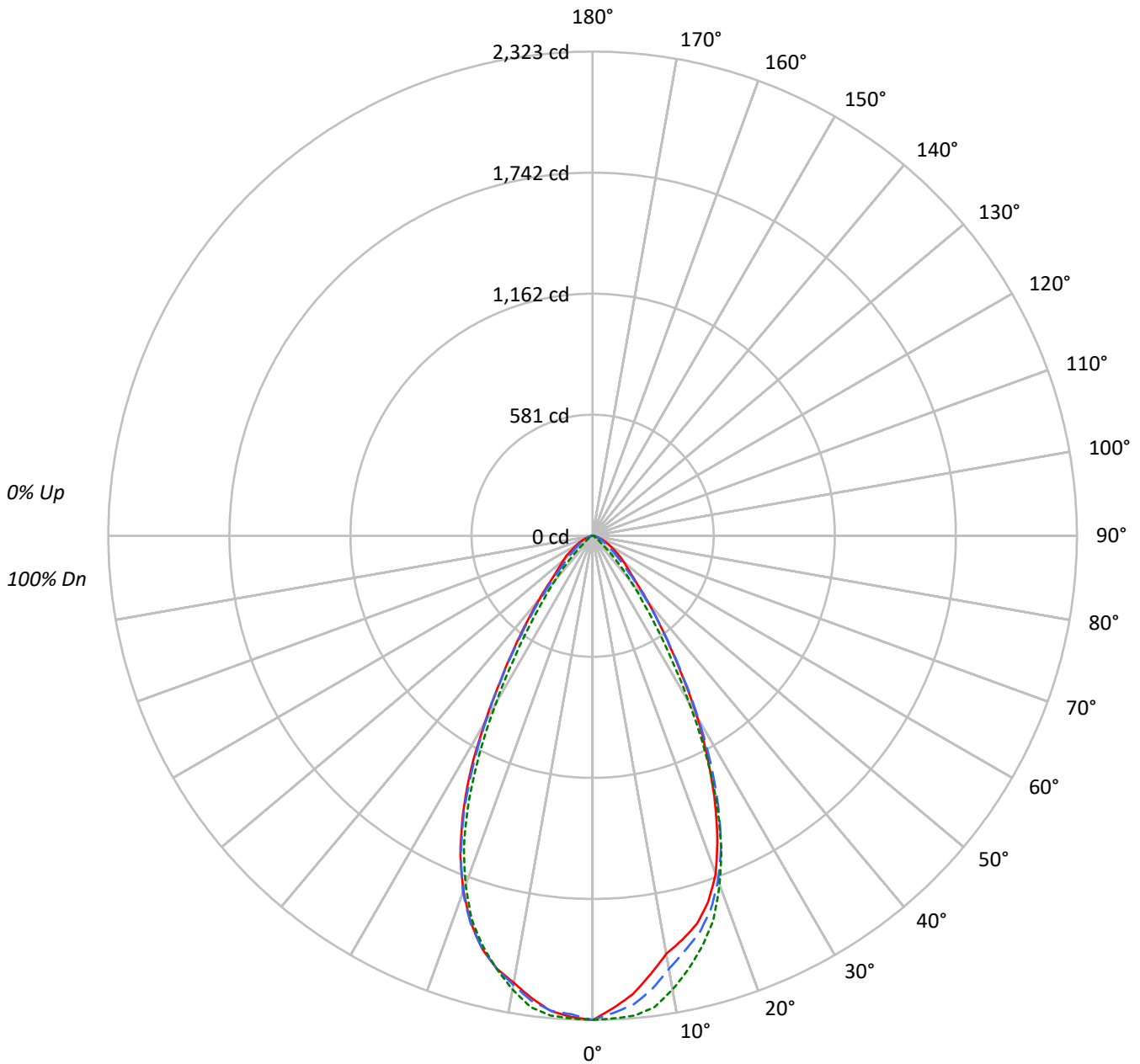
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2115.0 lumens  
Efficiency: N/A  
Efficacy: 67.1 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): 31.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	285425	285425	285425
5°	272358	284962	282310
10°	254013	275732	271703
15°	245293	258979	260810
20°	225641	232674	236897
25°	187010	190412	199657
30°	142270	131574	146342
35°	96330	78843	97395
40°	65593	45177	63588
45°	45503	22760	43018
50°	37040	9251	34632
55°	29965	5762	27288
60°	23809	4398	21598
65°	18779	3663	16686
70°	14188	3233	12895
75°	10205	2563	9351
80°	7641	2547	6367
85°	5075	2537	5075



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.6	10.1
10°-20°	561.2	26.5
20°-30°	643.9	30.4
30°-40°	391.2	18.5
40°-50°	167.7	7.9
50°-60°	80.4	3.8
60°-70°	39.1	1.8
70°-80°	14.5	0.7
80°-90°	3.4	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°	1418.8	67.1
0°-40°	1810.0	85.6
0°-60°	2058.0	97.3
0°-90°	2115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2115.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2323	2323	2323	2323	2323	
5°	2208	2257	2311	2287	2289	205
15°	1929	1974	2036	2049	2051	537
25°	1380	1424	1405	1459	1473	626
35°	642	651	526	635	649	412
45°	262	233	131	210	248	213
55°	140	104	27	93	127	126
65°	65	43	13	40	57	66
75°	22	14	5	13	20	24
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°	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3	2323.3
2.5°	2267.7	2292.8	2291.0	2312.5	2317.9	2312.5	2298.2	2312.5	2310.7
5°	2208.5	2237.2	2256.9	2292.8	2310.7	2307.2	2287.4	2291.0	2289.2
7.5°	2122.4	2158.2	2192.3	2246.2	2280.2	2278.4	2249.7	2244.4	2237.2
10°	2036.2	2070.3	2109.8	2165.4	2210.3	2217.4	2188.7	2181.6	2178.0
12.5°	1986.0	2012.9	2039.8	2088.3	2127.7	2142.1	2126.0	2127.7	2126.0
15°	1928.6	1955.5	1973.5	2009.3	2036.2	2056.0	2048.8	2059.6	2050.6
17.5°	1842.5	1874.8	1882.0	1908.9	1928.6	1941.2	1948.3	1959.1	1944.8
20°	1725.9	1751.0	1760.0	1770.7	1779.7	1795.8	1817.4	1828.1	1812.0
22.5°	1562.6	1611.1	1609.3	1603.9	1612.9	1618.2	1652.3	1670.3	1657.7
25°	1379.6	1429.9	1424.5	1402.9	1404.7	1415.5	1458.6	1481.9	1472.9
27.5°	1187.7	1234.3	1221.7	1180.5	1169.7	1185.9	1241.5	1268.4	1263.0
30°	1002.9	1033.4	1013.6	940.1	927.5	947.3	1019.0	1045.9	1031.6
32.5°	803.7	827.1	818.1	728.4	706.9	726.6	810.9	836.0	819.9
35°	642.3	663.8	651.2	545.4	525.7	547.2	635.1	663.8	649.4
37.5°	514.9	531.0	514.9	401.9	383.9	405.5	489.8	527.5	509.5
40°	409.0	421.6	400.1	296.0	281.7	292.4	371.4	409.0	396.5
42.5°	322.9	331.9	308.6	217.1	200.9	215.3	279.9	314.0	306.8
45°	261.9	261.9	233.2	150.7	131.0	145.3	209.9	245.8	247.6
47.5°	224.3	218.9	183.0	100.5	75.4	95.1	166.8	204.5	209.9
50°	193.8	186.6	150.7	73.6	48.4	68.2	138.1	175.8	181.2
52.5°	166.8	161.5	125.6	57.4	34.1	52.0	116.6	152.5	157.9
55°	139.9	136.3	104.1	44.9	26.9	39.5	93.3	123.8	127.4
57.5°	114.8	109.4	84.3	37.7	21.5	32.3	77.1	102.3	105.8
60°	96.9	91.5	68.2	30.5	17.9	25.1	62.8	84.3	87.9
62.5°	80.7	75.4	55.6	25.1	14.4	21.5	50.2	68.2	71.8
65°	64.6	61.0	43.1	19.7	12.6	16.1	39.5	53.8	57.4
67.5°	52.0	48.4	34.1	16.1	10.8	12.6	30.5	43.1	46.6
70°	39.5	35.9	25.1	12.6	9.0	10.8	23.3	32.3	35.9
72.5°	28.7	26.9	19.7	10.8	7.2	9.0	16.1	23.3	26.9
75°	21.5	19.7	14.4	7.2	5.4	7.2	12.6	17.9	19.7
77.5°	14.4	14.4	10.8	5.4	5.4	5.4	9.0	12.6	12.6
80°	10.8	9.0	7.2	3.6	3.6	3.6	5.4	9.0	9.0
82.5°	7.2	5.4	5.4	3.6	3.6	3.6	3.6	5.4	5.4
85°	3.6	3.6	3.6	1.8	1.8	1.8	1.8	3.6	3.6
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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)