

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: P857375

Luminaire Tested: **LD4C25D010 EU4259035 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857375
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 EU4259035 4LBMDSWWMH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

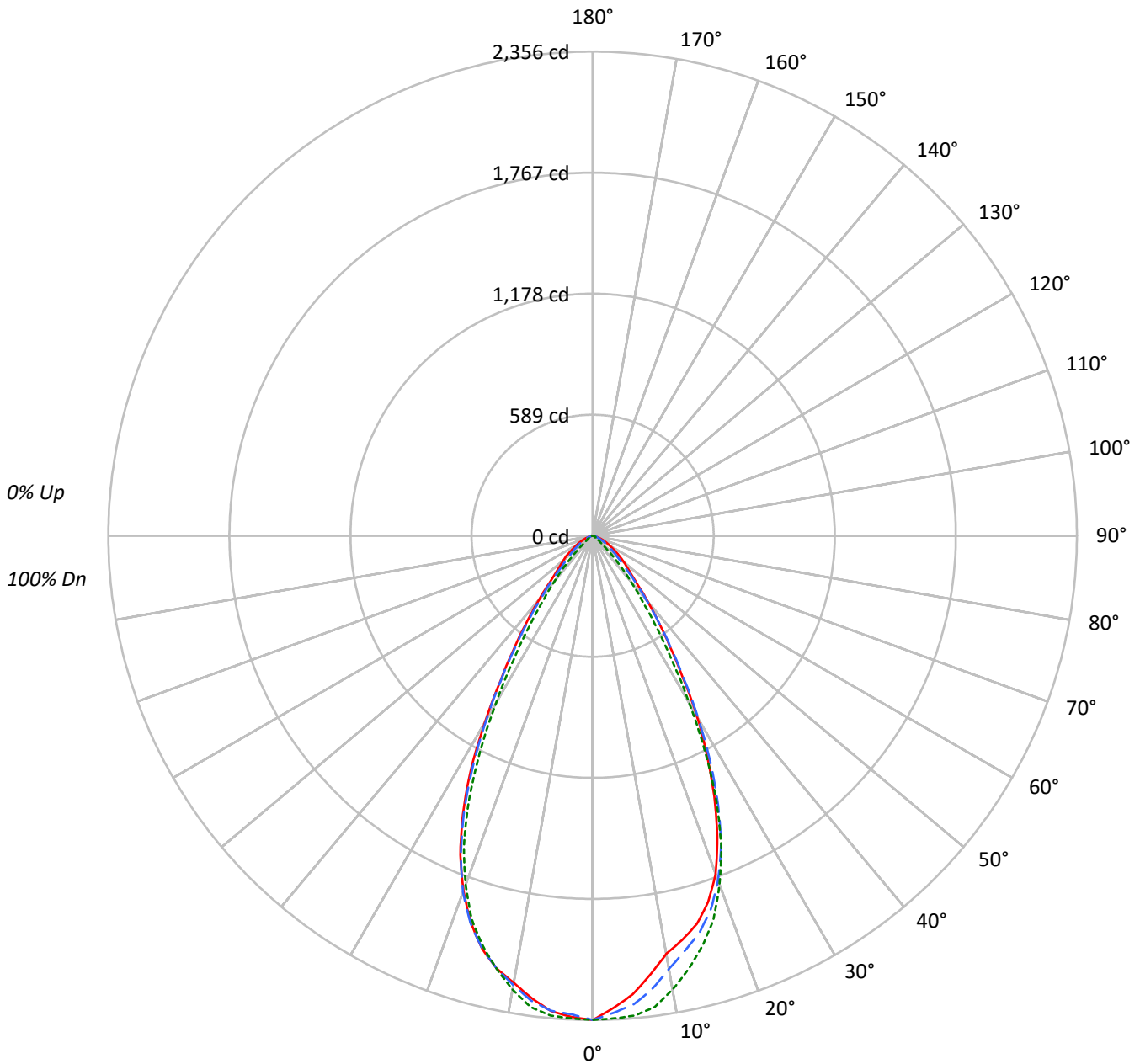
Lumens per Lamp: N/A
Luminaire Lumens: 2145.0 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
Input Voltage (V): NR
Input Current (A_{in}): 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				100				
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92				92				
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85				
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78				78				
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72				72				
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67				67				
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62				62				
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58				58				
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55				55				
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51				51				
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48				48				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	289480	289480	289480
5°	276218	289007	286318
10°	257619	279637	275557
15°	248778	262654	264511
20°	228844	235969	240257
25°	189667	193124	202490
30°	144285	133447	148413
35°	97695	79952	98789
40°	66523	45819	64486
45°	46146	23073	43626
50°	37556	9384	35129
55°	30393	5847	27673
60°	24153	4472	21917
65°	19041	3692	16919
70°	14368	3269	13075
75°	10348	2611	9493
80°	7712	2547	6438
85°	5075	2537	5075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.6	10.1
10°-20°	569.2	26.5
20°-30°	653.1	30.4
30°-40°	396.7	18.5
40°-50°	170.0	7.9
50°-60°	81.6	3.8
60°-70°	39.7	1.8
70°-80°	14.7	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°	1438.9	67.1
0°-40°	1835.6	85.6
0°-60°	2087.2	97.3
0°-90°	2145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2145.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2356	2356	2356	2356	2356	
5°	2240	2289	2344	2320	2322	208
15°	1956	2001	2065	2078	2080	545
25°	1399	1445	1425	1479	1494	635
35°	651	660	533	644	659	417
45°	266	236	133	213	251	216
55°	142	106	27	95	129	128
65°	66	44	13	40	58	66
75°	22	15	6	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°	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2299.8	2325.3	2323.5	2345.3	2350.8	2345.3	2330.8	2345.3	2343.5
5°	2239.8	2268.9	2288.9	2325.3	2343.5	2339.9	2319.9	2323.5	2321.7
7.5°	2152.5	2188.9	2223.4	2278.0	2312.6	2310.8	2281.7	2276.2	2268.9
10°	2065.1	2099.7	2139.7	2196.1	2241.6	2248.9	2219.8	2212.5	2208.9
12.5°	2014.2	2041.5	2068.8	2117.9	2157.9	2172.5	2156.1	2157.9	2156.1
15°	1956.0	1983.3	2001.4	2037.8	2065.1	2085.1	2077.9	2088.8	2079.7
17.5°	1868.6	1901.4	1908.7	1935.9	1956.0	1968.7	1976.0	1986.9	1972.3
20°	1750.4	1775.8	1784.9	1795.8	1804.9	1821.3	1843.2	1854.1	1837.7
22.5°	1584.8	1633.9	1632.1	1626.6	1635.7	1641.2	1675.8	1694.0	1681.2
25°	1399.2	1450.1	1444.7	1422.8	1424.7	1435.6	1479.3	1502.9	1493.8
27.5°	1204.5	1251.8	1239.1	1197.2	1186.3	1202.7	1259.1	1286.4	1280.9
30°	1017.1	1048.0	1028.0	953.4	940.7	960.7	1033.5	1060.8	1046.2
32.5°	815.1	838.8	829.7	738.7	716.9	736.9	822.4	847.9	831.5
35°	651.4	673.2	660.5	553.1	533.1	554.9	644.1	673.2	658.7
37.5°	522.2	538.6	522.2	407.6	389.4	411.2	496.7	534.9	516.7
40°	414.8	427.6	405.7	300.2	285.7	296.6	376.6	414.8	402.1
42.5°	327.5	336.6	313.0	220.2	203.8	218.3	283.8	318.4	311.1
45°	265.6	265.6	236.5	152.8	132.8	147.4	212.9	249.3	251.1
47.5°	227.4	222.0	185.6	101.9	76.4	96.4	169.2	207.4	212.9
50°	196.5	189.2	152.8	74.6	49.1	69.1	140.1	178.3	183.8
52.5°	169.2	163.8	127.4	58.2	34.6	52.8	118.3	154.7	160.1
55°	141.9	138.3	105.5	45.5	27.3	40.0	94.6	125.5	129.2
57.5°	116.4	111.0	85.5	38.2	21.8	32.8	78.2	103.7	107.4
60°	98.3	92.8	69.1	30.9	18.2	25.5	63.7	85.5	89.2
62.5°	81.9	76.4	56.4	25.5	14.6	21.8	50.9	69.1	72.8
65°	65.5	61.9	43.7	20.0	12.7	16.4	40.0	54.6	58.2
67.5°	52.8	49.1	34.6	16.4	10.9	12.7	30.9	43.7	47.3
70°	40.0	36.4	25.5	12.7	9.1	10.9	23.7	32.8	36.4
72.5°	29.1	27.3	20.0	10.9	7.3	9.1	16.4	23.7	27.3
75°	21.8	20.0	14.6	7.3	5.5	7.3	12.7	18.2	20.0
77.5°	14.6	14.6	10.9	5.5	5.5	5.5	9.1	12.7	12.7
80°	10.9	9.1	7.3	3.6	3.6	3.6	5.5	9.1	9.1
82.5°	7.3	5.5	5.5	3.6	3.6	3.6	3.6	5.5	5.5
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)