

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: P857396

Luminaire Tested: **LD4C25D010 EU4259040 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857396
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 EU4259040 4LBMDSWWMH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

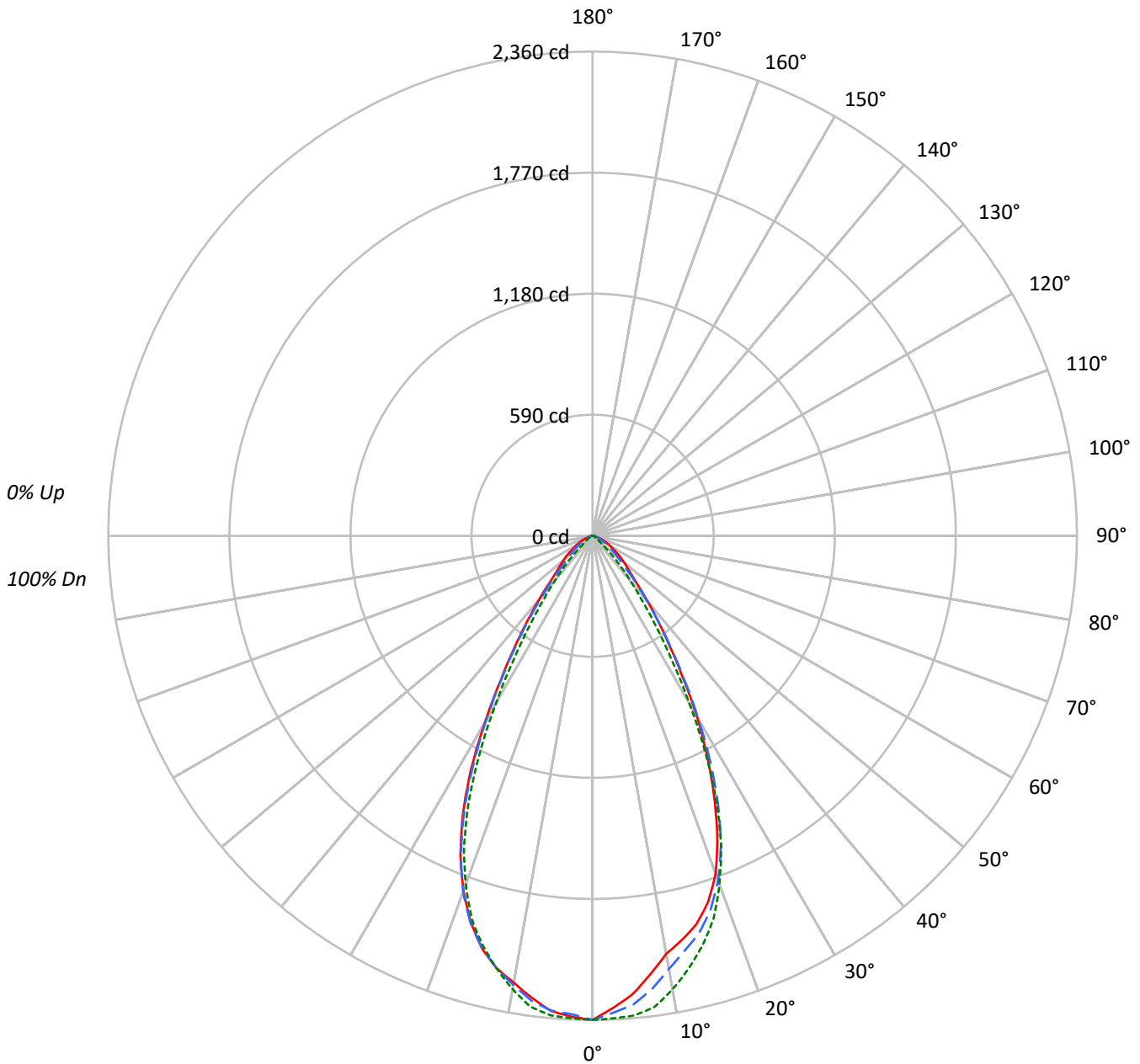
Lumens per Lamp: N/A
Luminaire Lumens: 2148.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	289873	289873	289873
5°	276601	289414	286713
10°	257980	280036	275944
15°	249122	263023	264880
20°	229157	236309	240597
25°	189938	193395	202775
30°	144483	133631	148626
35°	97830	80072	98924
40°	66619	45883	64583
45°	46215	23108	43679
50°	37614	9403	35167
55°	30436	5847	27716
60°	24178	4472	21942
65°	19070	3721	16948
70°	14404	3269	13075
75°	10395	2611	9493
80°	7712	2547	6438
85°	5075	2537	5075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.9	10.1
10°-20°	570.0	26.5
20°-30°	654.0	30.4
30°-40°	397.3	18.5
40°-50°	170.3	7.9
50°-60°	81.7	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°	1440.9	67.1
0°-40°	1838.2	85.6
0°-60°	2090.2	97.3
0°-90°	2148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2148.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2360	2360	2360	2360	2360	
5°	2243	2292	2347	2323	2325	208
15°	1959	2004	2068	2081	2083	545
25°	1401	1447	1427	1481	1496	636
35°	652	661	534	645	660	418
45°	266	237	133	213	251	216
55°	142	106	27	95	129	128
65°	66	44	13	40	58	67
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°	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5	2359.5
2.5°	2303.1	2328.6	2326.7	2348.6	2354.1	2348.6	2334.0	2348.6	2346.8
5°	2242.9	2272.1	2292.1	2328.6	2346.8	2343.1	2323.1	2326.7	2324.9
7.5°	2155.5	2191.9	2226.5	2281.2	2315.8	2314.0	2284.8	2279.4	2272.1
10°	2068.0	2102.6	2142.7	2199.2	2244.8	2252.0	2222.9	2215.6	2212.0
12.5°	2017.0	2044.3	2071.7	2120.9	2160.9	2175.5	2159.1	2160.9	2159.1
15°	1958.7	1986.0	2004.2	2040.7	2068.0	2088.1	2080.8	2091.7	2082.6
17.5°	1871.2	1904.0	1911.3	1938.7	1958.7	1971.5	1978.7	1989.7	1975.1
20°	1752.8	1778.3	1787.4	1798.4	1807.5	1823.9	1845.7	1856.7	1840.3
22.5°	1587.0	1636.2	1634.4	1628.9	1638.0	1643.5	1678.1	1696.3	1683.6
25°	1401.2	1452.2	1446.7	1424.8	1426.7	1437.6	1481.3	1505.0	1495.9
27.5°	1206.2	1253.6	1240.8	1198.9	1188.0	1204.4	1260.9	1288.2	1282.7
30°	1018.5	1049.5	1029.5	954.8	942.0	962.0	1034.9	1062.3	1047.7
32.5°	816.3	840.0	830.9	739.7	717.9	737.9	823.6	849.1	832.7
35°	652.3	674.2	661.4	553.9	533.9	555.7	645.0	674.2	659.6
37.5°	522.9	539.3	522.9	408.1	389.9	411.8	497.4	535.7	517.5
40°	415.4	428.2	406.3	300.6	286.1	297.0	377.2	415.4	402.7
42.5°	328.0	337.1	313.4	220.5	204.1	218.6	284.2	318.9	311.6
45°	266.0	266.0	236.9	153.1	133.0	147.6	213.2	249.6	251.4
47.5°	227.8	222.3	185.8	102.0	76.5	96.6	169.5	207.7	213.2
50°	196.8	189.5	153.1	74.7	49.2	69.2	140.3	178.6	184.0
52.5°	169.5	164.0	127.5	58.3	34.6	52.8	118.4	154.9	160.3
55°	142.1	138.5	105.7	45.6	27.3	40.1	94.7	125.7	129.4
57.5°	116.6	111.1	85.6	38.3	21.9	32.8	78.3	103.9	107.5
60°	98.4	92.9	69.2	31.0	18.2	25.5	63.8	85.6	89.3
62.5°	82.0	76.5	56.5	25.5	14.6	21.9	51.0	69.2	72.9
65°	65.6	61.9	43.7	20.0	12.8	16.4	40.1	54.7	58.3
67.5°	52.8	49.2	34.6	16.4	10.9	12.8	31.0	43.7	47.4
70°	40.1	36.4	25.5	12.8	9.1	10.9	23.7	32.8	36.4
72.5°	29.2	27.3	20.0	10.9	7.3	9.1	16.4	23.7	27.3
75°	21.9	20.0	14.6	7.3	5.5	7.3	12.8	18.2	20.0
77.5°	14.6	14.6	10.9	5.5	5.5	5.5	9.1	12.8	12.8
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)