

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: P857415

Luminaire Tested: **LD4C25D010 EU4259050 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857415
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 EU4259050 4LBMDSWMW
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

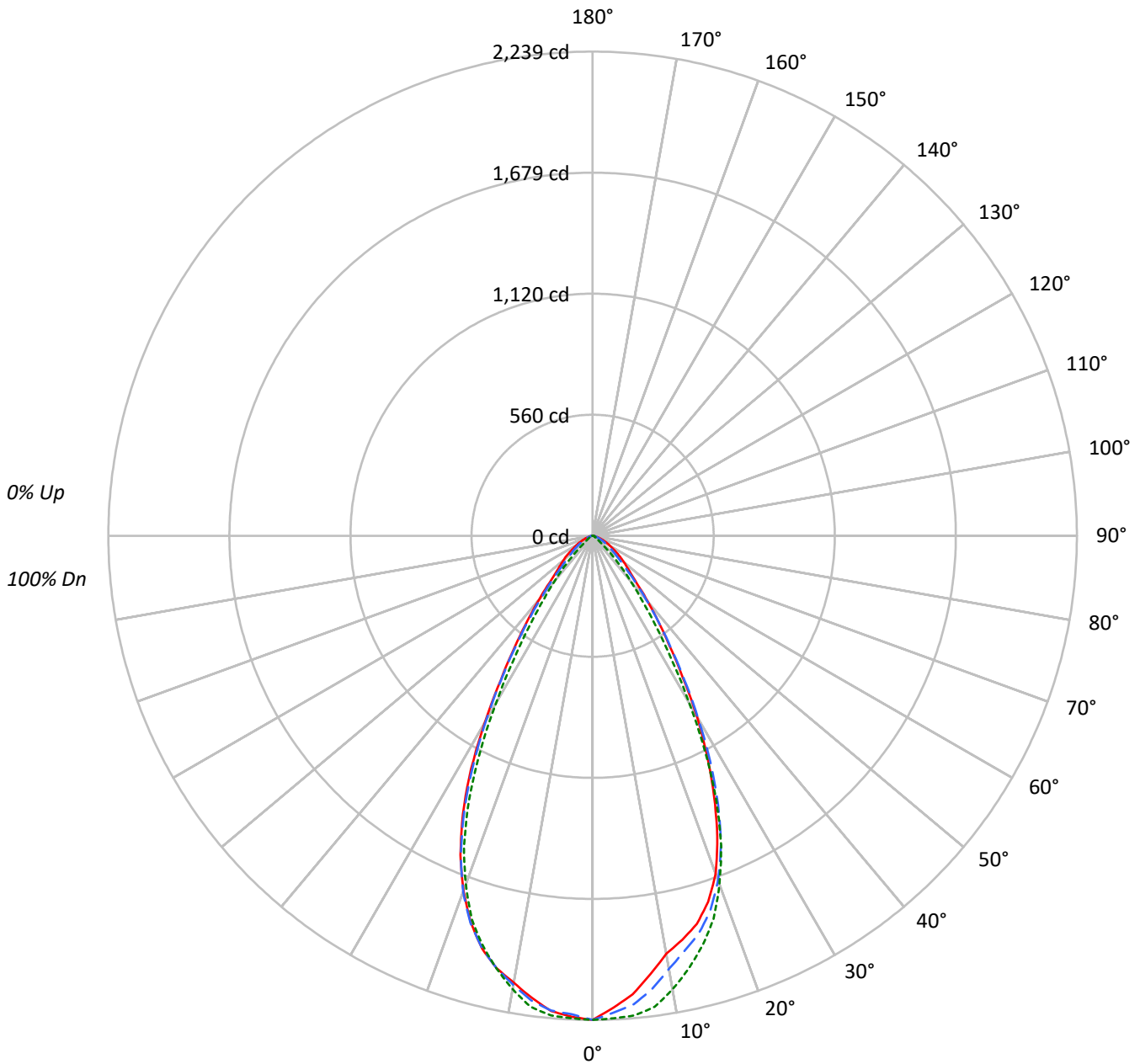
Lumens per Lamp: N/A
Luminaire Lumens: 2038.0 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	275032	275032	275032
5°	262443	274590	272038
10°	244769	265690	261810
15°	236365	249554	251309
20°	217417	224202	228268
25°	180205	183486	192392
30°	137093	126794	141008
35°	92820	75963	93855
40°	63219	43525	61279
45°	43852	21926	41455
50°	35683	8926	33371
55°	28873	5547	26281
60°	22949	4251	20811
65°	18081	3517	16075
70°	13650	3089	12428
75°	9826	2468	9019
80°	7358	2476	6084
85°	4934	2396	4934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.8	10.1
10°-20°	540.8	26.5
20°-30°	620.5	30.4
30°-40°	376.9	18.5
40°-50°	161.5	7.9
50°-60°	77.5	3.8
60°-70°	37.7	1.8
70°-80°	14.0	0.7
80°-90°	3.2	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°	1367.1	67.1
0°-40°	1744.1	85.6
0°-60°	1983.1	97.3
0°-90°	2038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2038.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2239	2239	2239	2239	2239	
5°	2128	2175	2227	2204	2206	198
15°	1858	1902	1962	1974	1976	517
25°	1329	1373	1354	1406	1419	603
35°	619	628	506	612	626	397
45°	252	225	126	202	239	205
55°	135	100	26	90	123	122
65°	62	42	12	38	55	63
75°	21	14	5	12	19	23
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°	2238.7	2238.7	2238.7	2238.7	2238.7	2238.7	2238.7	2238.7	2238.7
2.5°	2185.1	2209.3	2207.6	2228.3	2233.5	2228.3	2214.5	2228.3	2226.6
5°	2128.1	2155.7	2174.8	2209.3	2226.6	2223.2	2204.1	2207.6	2205.9
7.5°	2045.1	2079.7	2112.5	2164.4	2197.2	2195.5	2167.8	2162.6	2155.7
10°	1962.1	1995.0	2033.0	2086.6	2129.8	2136.7	2109.1	2102.1	2098.7
12.5°	1913.7	1939.6	1965.6	2012.2	2050.3	2064.1	2048.6	2050.3	2048.6
15°	1858.4	1884.3	1901.6	1936.2	1962.1	1981.1	1974.2	1984.6	1975.9
17.5°	1775.4	1806.5	1813.4	1839.4	1858.4	1870.5	1877.4	1887.8	1874.0
20°	1663.0	1687.2	1695.9	1706.3	1714.9	1730.5	1751.2	1761.6	1746.0
22.5°	1505.7	1552.4	1550.7	1545.5	1554.1	1559.3	1592.2	1609.5	1597.4
25°	1329.4	1377.8	1372.6	1351.9	1353.6	1364.0	1405.5	1427.9	1419.3
27.5°	1144.4	1189.4	1177.3	1137.5	1127.1	1142.7	1196.3	1222.2	1217.0
30°	966.4	995.8	976.7	905.9	893.8	912.8	981.9	1007.9	994.0
32.5°	774.5	796.9	788.3	701.9	681.1	700.1	781.4	805.6	790.0
35°	618.9	639.6	627.5	525.5	506.5	527.3	612.0	639.6	625.8
37.5°	496.1	511.7	496.1	387.2	369.9	390.7	471.9	508.2	491.0
40°	394.2	406.3	385.5	285.2	271.4	281.8	357.8	394.2	382.1
42.5°	311.2	319.8	297.3	209.2	193.6	207.4	269.7	302.5	295.6
45°	252.4	252.4	224.7	145.2	126.2	140.0	202.3	236.8	238.6
47.5°	216.1	210.9	176.3	96.8	72.6	91.6	160.8	197.1	202.3
50°	186.7	179.8	145.2	70.9	46.7	65.7	133.1	169.4	174.6
52.5°	160.8	155.6	121.0	55.3	32.8	50.1	112.4	146.9	152.1
55°	134.8	131.4	100.3	43.2	25.9	38.0	89.9	119.3	122.7
57.5°	110.6	105.5	81.3	36.3	20.7	31.1	74.3	98.5	102.0
60°	93.4	88.2	65.7	29.4	17.3	24.2	60.5	81.3	84.7
62.5°	77.8	72.6	53.6	24.2	13.8	20.7	48.4	65.7	69.1
65°	62.2	58.8	41.5	19.0	12.1	15.6	38.0	51.9	55.3
67.5°	50.1	46.7	32.8	15.6	10.4	12.1	29.4	41.5	44.9
70°	38.0	34.6	24.2	12.1	8.6	10.4	22.5	31.1	34.6
72.5°	27.7	25.9	19.0	10.4	6.9	8.6	15.6	22.5	25.9
75°	20.7	19.0	13.8	6.9	5.2	6.9	12.1	17.3	19.0
77.5°	13.8	13.8	10.4	5.2	5.2	5.2	8.6	12.1	12.1
80°	10.4	8.6	6.9	3.5	3.5	3.5	5.2	8.6	8.6
82.5°	6.9	5.2	5.2	3.5	3.5	3.5	3.5	5.2	5.2
85°	3.5	3.5	3.5	1.7	1.7	1.7	1.7	3.5	3.5
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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)