

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: P857417

Luminaire Tested: **LD4C25D010 EU4259050 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857417
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 4LBMDSWWMH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

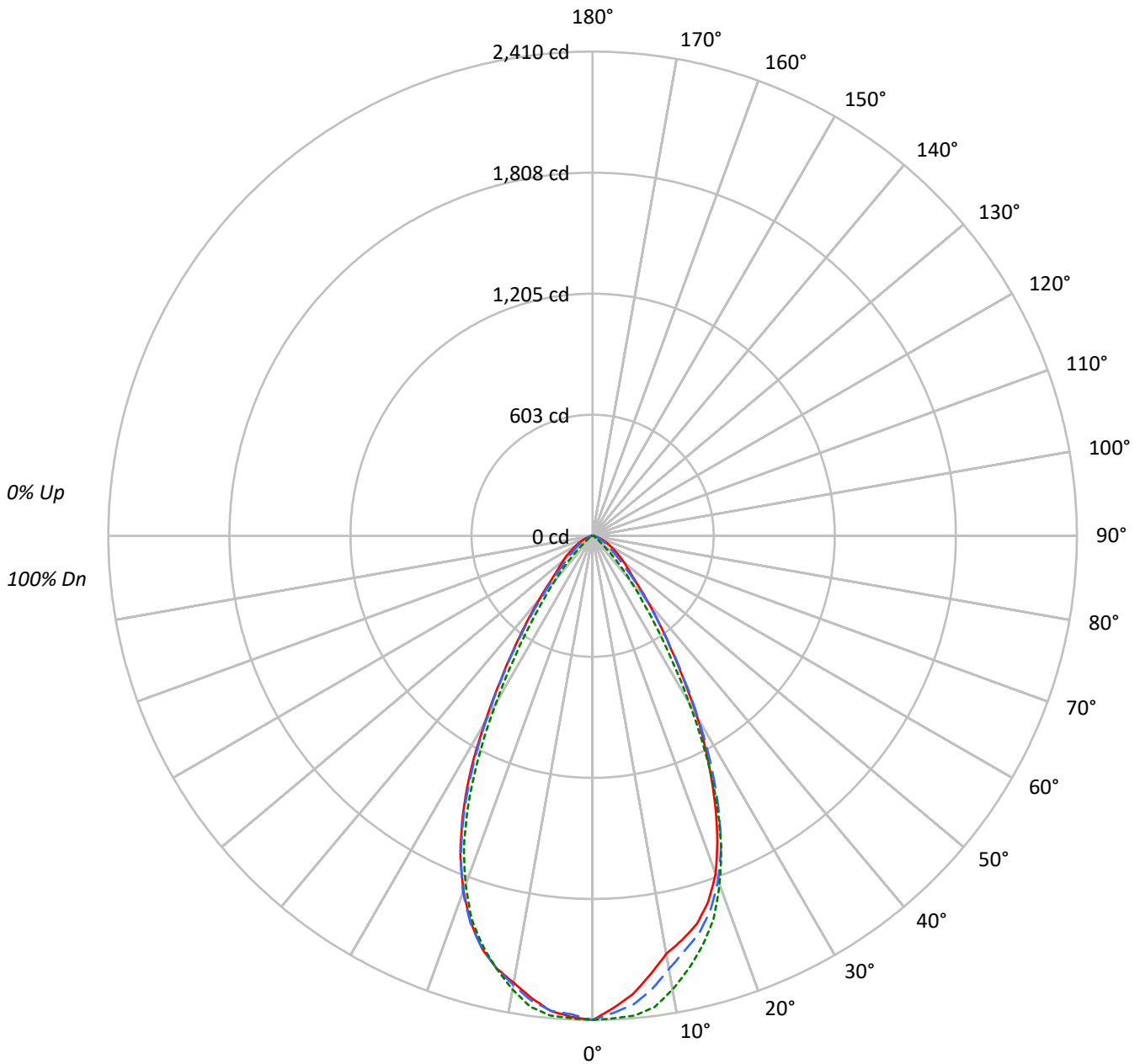
Lumens per Lamp: N/A
Luminaire Lumens: 2194.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	296089	296089	296089
5°	282532	295605	292855
10°	263507	286024	281845
15°	254451	268658	270553
20°	234060	241368	245748
25°	194005	197529	207113
30°	147576	136497	151803
35°	99929	81782	101039
40°	68047	46861	65962
45°	47205	23611	44617
50°	38416	9595	35932
55°	31100	5976	28294
60°	24694	4570	22408
65°	19477	3779	17325
70°	14691	3341	13362
75°	10585	2658	9731
80°	7924	2618	6580
85°	5215	2678	5215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.6	10.1
10°-20°	582.2	26.5
20°-30°	668.0	30.4
30°-40°	405.8	18.5
40°-50°	173.9	7.9
50°-60°	83.4	3.8
60°-70°	40.6	1.8
70°-80°	15.0	0.7
80°-90°	3.5	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°	1471.8	67.1
0°-40°	1877.6	85.6
0°-60°	2134.9	97.3
0°-90°	2194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2194.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2410	2410	2410	2410	2410	
5°	2291	2341	2397	2373	2375	213
15°	2001	2047	2112	2125	2127	557
25°	1431	1478	1457	1513	1528	649
35°	666	676	545	659	674	427
45°	272	242	136	218	257	221
55°	145	108	28	97	132	131
65°	67	45	13	41	60	68
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°	2410.1	2410.1	2410.1	2410.1	2410.1	2410.1	2410.1	2410.1	2410.1
2.5°	2352.4	2378.4	2376.6	2398.9	2404.5	2398.9	2384.0	2398.9	2397.0
5°	2291.0	2320.7	2341.2	2378.4	2397.0	2393.3	2372.9	2376.6	2374.7
7.5°	2201.6	2238.9	2274.2	2330.1	2365.4	2363.6	2333.8	2328.2	2320.7
10°	2112.3	2147.7	2188.6	2246.3	2292.8	2300.3	2270.5	2263.1	2259.3
12.5°	2060.2	2088.1	2116.0	2166.3	2207.2	2222.1	2205.4	2207.2	2205.4
15°	2000.6	2028.6	2047.2	2084.4	2112.3	2132.8	2125.3	2136.5	2127.2
17.5°	1911.3	1944.8	1952.3	1980.2	2000.6	2013.7	2021.1	2032.3	2017.4
20°	1790.3	1816.4	1825.7	1836.9	1846.2	1862.9	1885.3	1896.4	1879.7
22.5°	1621.0	1671.2	1669.4	1663.8	1673.1	1678.7	1714.0	1732.7	1719.6
25°	1431.2	1483.3	1477.7	1455.4	1457.2	1468.4	1513.0	1537.2	1527.9
27.5°	1232.0	1280.4	1267.4	1224.6	1213.4	1230.2	1287.9	1315.8	1310.2
30°	1040.3	1072.0	1051.5	975.2	962.2	982.6	1057.1	1085.0	1070.1
32.5°	833.8	858.0	848.6	755.6	733.3	753.7	841.2	867.3	850.5
35°	666.3	688.6	675.6	565.8	545.3	567.6	658.8	688.6	673.7
37.5°	534.1	550.9	534.1	416.9	398.3	420.6	508.1	547.2	528.5
40°	424.3	437.3	415.0	307.1	292.2	303.4	385.2	424.3	411.3
42.5°	335.0	344.3	320.1	225.2	208.4	223.3	290.3	325.7	318.2
45°	271.7	271.7	241.9	156.3	135.9	150.7	217.7	255.0	256.8
47.5°	232.6	227.0	189.8	104.2	78.2	98.6	173.1	212.2	217.7
50°	201.0	193.6	156.3	76.3	50.2	70.7	143.3	182.4	188.0
52.5°	173.1	167.5	130.3	59.6	35.4	54.0	121.0	158.2	163.8
55°	145.2	141.4	107.9	46.5	27.9	40.9	96.8	128.4	132.1
57.5°	119.1	113.5	87.5	39.1	22.3	33.5	80.0	106.1	109.8
60°	100.5	94.9	70.7	31.6	18.6	26.1	65.1	87.5	91.2
62.5°	83.7	78.2	57.7	26.1	14.9	22.3	52.1	70.7	74.4
65°	67.0	63.3	44.7	20.5	13.0	16.7	40.9	55.8	59.6
67.5°	54.0	50.2	35.4	16.7	11.2	13.0	31.6	44.7	48.4
70°	40.9	37.2	26.1	13.0	9.3	11.2	24.2	33.5	37.2
72.5°	29.8	27.9	20.5	11.2	7.4	9.3	16.7	24.2	27.9
75°	22.3	20.5	14.9	7.4	5.6	7.4	13.0	18.6	20.5
77.5°	14.9	14.9	11.2	5.6	5.6	5.6	9.3	13.0	13.0
80°	11.2	9.3	7.4	3.7	3.7	3.7	5.6	9.3	9.3
82.5°	7.4	5.6	5.6	3.7	3.7	3.7	3.7	5.6	5.6
85°	3.7	3.7	3.7	1.9	1.9	1.9	1.9	3.7	3.7
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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)