

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: P857331

Luminaire Tested: **LD4C25D010 EU4259027 4LBMDSWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P857331
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 EU4259027 4LBMDSWMW
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

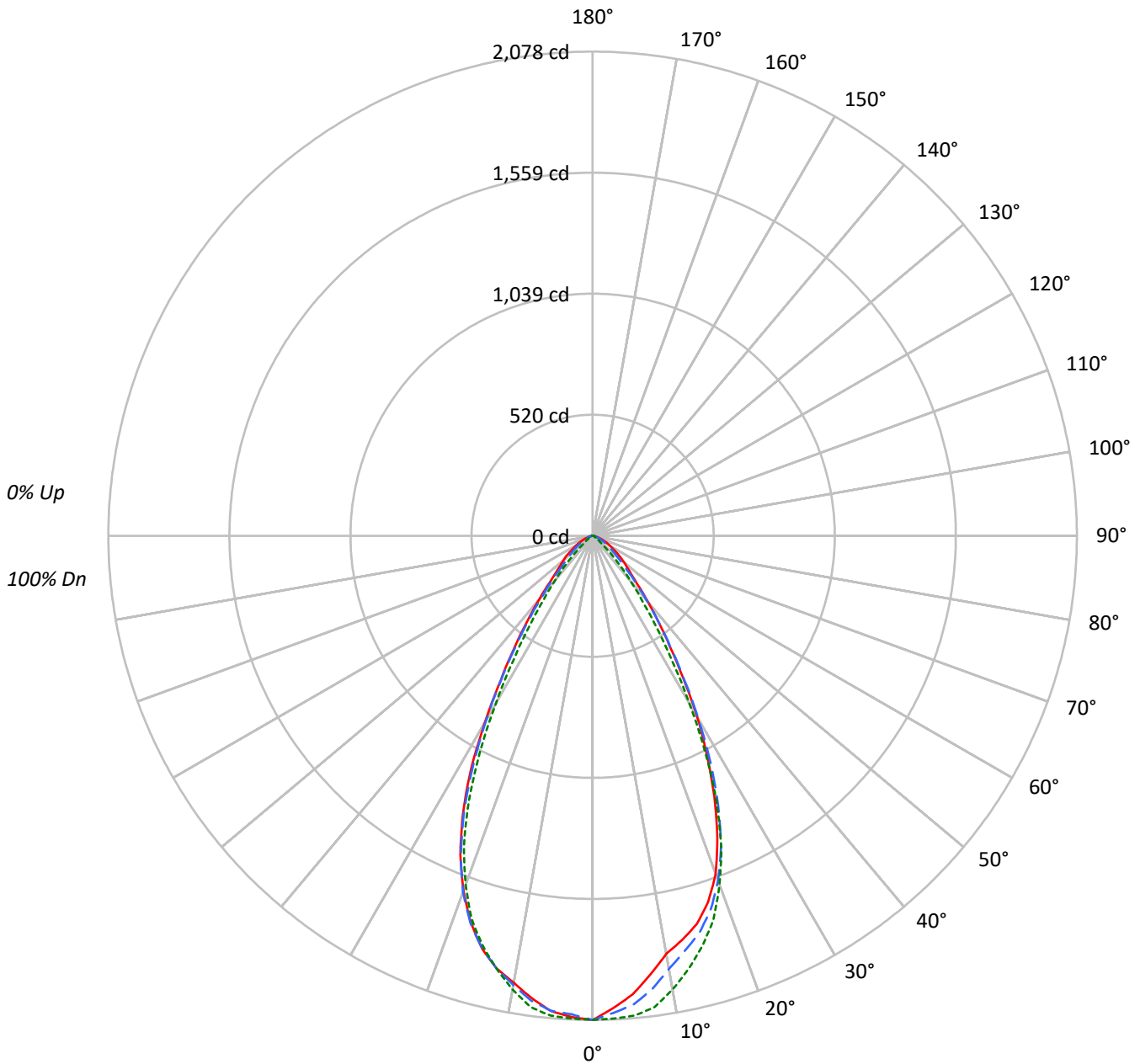
Lumens per Lamp: N/A
Luminaire Lumens: 1892.0 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	255326	255326	255326
5°	243636	254920	252540
10°	227242	246653	243048
15°	219436	231684	233312
20°	201846	208148	211913
25°	167301	170337	178606
30°	127262	117700	130907
35°	86176	70519	87136
40°	58681	40414	56885
45°	40708	20362	38484
50°	33122	8276	30982
55°	26816	5162	24396
60°	21303	3931	19313
65°	16802	3256	14942
70°	12680	2874	11530
75°	9161	2278	8402
80°	6792	2264	5660
85°	4511	2255	4511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	10.1
10°-20°	502.1	26.5
20°-30°	576.0	30.4
30°-40°	349.9	18.5
40°-50°	150.0	7.9
50°-60°	71.9	3.8
60°-70°	35.0	1.8
70°-80°	13.0	0.7
80°-90°	3.0	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°	1269.2	67.1
0°-40°	1619.1	85.6
0°-60°	1841.1	97.3
0°-90°	1892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1892.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2078	2078	2078	2078	2078	
5°	1976	2019	2067	2046	2048	184
15°	1725	1765	1822	1833	1834	480
25°	1234	1274	1257	1305	1318	560
35°	575	583	470	568	581	368
45°	234	209	117	188	222	190
55°	125	93	24	84	114	113
65°	58	38	11	35	51	59
75°	19	13	5	11	18	21
85°	3	3	2	2	3	4
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°	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3
2.5°	2028.6	2051.1	2049.4	2068.7	2073.5	2068.7	2055.9	2068.7	2067.1
5°	1975.6	2001.3	2019.0	2051.1	2067.1	2063.9	2046.2	2049.4	2047.8
7.5°	1898.6	1930.7	1961.2	2009.3	2039.8	2038.2	2012.5	2007.7	2001.3
10°	1821.6	1852.0	1887.4	1937.1	1977.2	1983.6	1958.0	1951.5	1948.3
12.5°	1776.6	1800.7	1824.8	1868.1	1903.4	1916.2	1901.8	1903.4	1901.8
15°	1725.3	1749.3	1765.4	1797.5	1821.6	1839.2	1832.8	1842.4	1834.4
17.5°	1648.2	1677.1	1683.5	1707.6	1725.3	1736.5	1742.9	1752.5	1739.7
20°	1543.9	1566.4	1574.4	1584.0	1592.1	1606.5	1625.8	1635.4	1620.9
22.5°	1397.9	1441.2	1439.6	1434.8	1442.8	1447.6	1478.1	1494.2	1482.9
25°	1234.2	1279.1	1274.3	1255.0	1256.6	1266.3	1304.8	1325.6	1317.6
27.5°	1062.4	1104.2	1092.9	1056.0	1046.4	1060.8	1110.6	1134.7	1129.8
30°	897.1	924.4	906.8	841.0	829.7	847.4	911.6	935.7	922.8
32.5°	719.0	739.9	731.8	651.6	632.3	650.0	725.4	747.9	733.4
35°	574.6	593.8	582.6	487.9	470.2	489.5	568.1	593.8	581.0
37.5°	460.6	475.0	460.6	359.5	343.4	362.7	438.1	471.8	455.8
40°	365.9	377.1	357.9	264.8	252.0	261.6	332.2	365.9	354.7
42.5°	288.9	296.9	276.0	194.2	179.7	192.6	250.4	280.9	274.4
45°	234.3	234.3	208.6	134.8	117.2	130.0	187.8	219.9	221.5
47.5°	200.6	195.8	163.7	89.9	67.4	85.1	149.3	183.0	187.8
50°	173.3	166.9	134.8	65.8	43.3	61.0	123.6	157.3	162.1
52.5°	149.3	144.4	112.3	51.4	30.5	46.5	104.3	136.4	141.2
55°	125.2	122.0	93.1	40.1	24.1	35.3	83.5	110.7	113.9
57.5°	102.7	97.9	75.4	33.7	19.3	28.9	69.0	91.5	94.7
60°	86.7	81.8	61.0	27.3	16.0	22.5	56.2	75.4	78.6
62.5°	72.2	67.4	49.8	22.5	12.8	19.3	44.9	61.0	64.2
65°	57.8	54.6	38.5	17.7	11.2	14.4	35.3	48.1	51.4
67.5°	46.5	43.3	30.5	14.4	9.6	11.2	27.3	38.5	41.7
70°	35.3	32.1	22.5	11.2	8.0	9.6	20.9	28.9	32.1
72.5°	25.7	24.1	17.7	9.6	6.4	8.0	14.4	20.9	24.1
75°	19.3	17.7	12.8	6.4	4.8	6.4	11.2	16.0	17.7
77.5°	12.8	12.8	9.6	4.8	4.8	4.8	8.0	11.2	11.2
80°	9.6	8.0	6.4	3.2	3.2	3.2	4.8	8.0	8.0
82.5°	6.4	4.8	4.8	3.2	3.2	3.2	3.2	4.8	4.8
85°	3.2	3.2	3.2	1.6	1.6	1.6	1.6	3.2	3.2
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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)