

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: P857351

Luminaire Tested: **LD4C25D010 EU4259030 4LBMDSWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P857351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C25D010 EU4259030 4LBMDSWLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

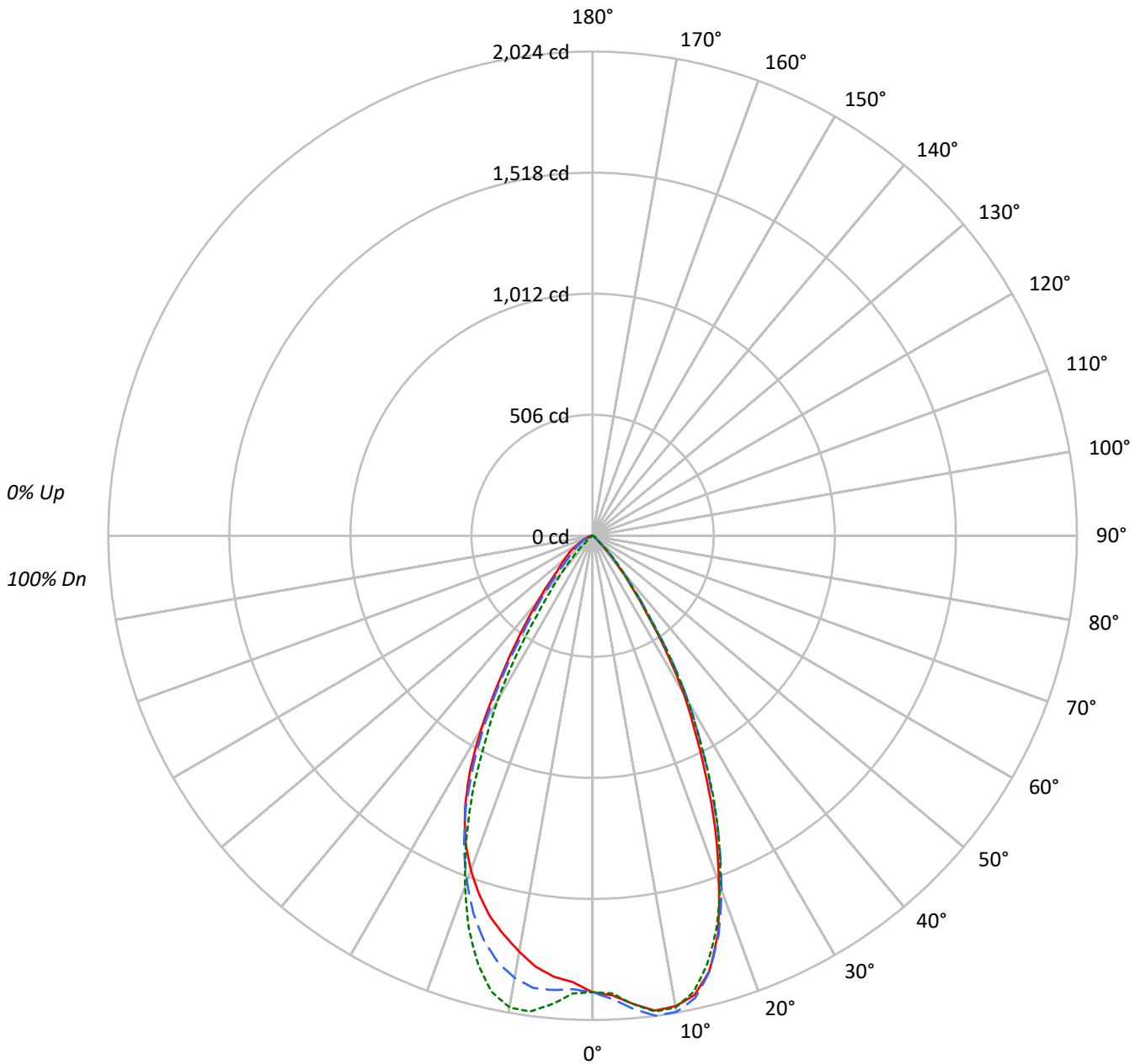
Lumens per Lamp: N/A
Luminaire Lumens: 1696.0 lumens
Efficiency: N/A
Efficacy: 53.8 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P857351

CATALOG NUMBER: LD4C25D010 EU4259030 4LBMDSWLI

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58																			
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54																			
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	234355	234355	234355
5°	242342	242502	228172
10°	249048	249697	220219
15°	239634	235487	209910
20°	201768	203650	194433
25°	153271	161065	171150
30°	107799	112253	131688
35°	58161	60905	87136
40°	28065	30984	56532
45°	9990	13604	36746
50°	3746	4740	29453
55°	2806	3363	24332
60°	2236	2555	17642
65°	1890	2267	13663
70°	1401	1868	10776
75°	1234	1851	8069
80°	920	1839	5518
85°	0	1832	3665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	11.0
10°-20°	501.1	29.5
20°-30°	543.5	32.0
30°-40°	301.6	17.8
40°-50°	96.0	5.7
50°-60°	38.7	2.3
60°-70°	19.6	1.2
70°-80°	8.1	0.5
80°-90°	1.7	0.1
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°	1230.3	72.5
0°-40°	1531.9	90.3
0°-60°	1666.6	98.3
0°-90°	1696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1696.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1908	1908	1908	1908	1908	
5°	1965	1986	1966	1906	1850	189
15°	1884	1885	1852	1752	1650	515
25°	1131	1178	1188	1252	1263	516
35°	388	419	406	537	581	257
45°	58	68	78	175	212	55
55°	13	13	16	84	114	12
65°	6	6	8	38	47	6
75°	3	3	4	13	17	3
85°	0	0	1	3	3	0
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°	1907.6	1907.6	1907.6	1907.6	1907.6	1907.6	1907.6	1907.6	1907.6
2.5°	1923.3	1940.3	1939.0	1925.9	1915.5	1911.5	1897.2	1880.2	1868.4
5°	1965.1	1986.0	1986.0	1975.5	1966.4	1944.2	1906.3	1869.8	1850.2
7.5°	2001.6	2022.5	2023.8	2016.0	2005.5	1969.0	1906.3	1847.6	1817.5
10°	1996.4	2012.1	2021.2	2013.4	2001.6	1953.3	1876.3	1797.9	1765.3
12.5°	1966.4	1980.7	1979.4	1967.7	1952.0	1902.4	1826.7	1745.7	1709.2
15°	1884.1	1892.0	1885.4	1872.4	1851.5	1813.6	1752.2	1683.0	1650.4
17.5°	1741.8	1752.2	1749.6	1728.7	1720.9	1684.3	1655.6	1602.1	1573.4
20°	1543.3	1576.0	1576.0	1560.3	1557.7	1532.9	1536.8	1508.1	1487.2
22.5°	1343.6	1372.3	1381.4	1374.9	1380.1	1368.4	1404.9	1397.1	1386.6
25°	1130.7	1159.5	1177.7	1175.1	1188.2	1188.2	1252.2	1267.8	1262.6
27.5°	931.0	958.4	979.3	984.5	976.7	991.0	1078.5	1109.8	1109.8
30°	759.9	782.1	801.7	801.7	791.3	801.7	894.4	931.0	928.3
32.5°	566.7	591.5	609.8	607.1	598.0	612.4	710.3	746.9	737.7
35°	387.8	404.8	419.1	413.9	406.1	429.6	536.6	582.3	581.0
37.5°	262.4	278.1	287.3	283.3	280.7	308.1	406.1	457.0	454.4
40°	175.0	185.4	191.9	190.6	193.2	216.7	305.5	352.5	352.5
42.5°	111.0	117.5	124.0	124.0	130.6	155.4	232.4	272.9	272.9
45°	57.5	61.4	67.9	71.8	78.3	104.5	175.0	208.9	211.5
47.5°	27.4	28.7	31.3	32.6	37.9	65.3	134.5	171.0	178.9
50°	19.6	20.9	20.9	20.9	24.8	49.6	113.6	147.5	154.1
52.5°	15.7	15.7	15.7	17.0	19.6	41.8	97.9	128.0	133.2
55°	13.1	13.1	13.1	13.1	15.7	33.9	83.6	109.7	113.6
57.5°	10.4	10.4	10.4	10.4	13.1	27.4	69.2	87.5	88.8
60°	9.1	9.1	9.1	9.1	10.4	23.5	56.1	71.8	71.8
62.5°	7.8	7.8	7.8	7.8	9.1	19.6	47.0	58.8	57.5
65°	6.5	6.5	6.5	6.5	7.8	15.7	37.9	47.0	47.0
67.5°	5.2	5.2	5.2	5.2	6.5	13.1	30.0	37.9	37.9
70°	3.9	3.9	3.9	3.9	5.2	10.4	24.8	30.0	30.0
72.5°	3.9	3.9	3.9	3.9	3.9	7.8	18.3	23.5	22.2
75°	2.6	2.6	2.6	2.6	3.9	6.5	13.1	17.0	17.0
77.5°	2.6	2.6	2.6	2.6	2.6	5.2	10.4	11.8	11.8
80°	1.3	1.3	1.3	1.3	2.6	3.9	6.5	7.8	7.8
82.5°	0.0	1.3	0.0	1.3	1.3	2.6	5.2	5.2	5.2
85°	0.0	0.0	0.0	0.0	1.3	1.3	2.6	3.9	2.6
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
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)