

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: P857414

Luminaire Tested: **LD4C25D010 EU4259050 4LBMDSWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P857414
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 EU4259050 4LBMDSWLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

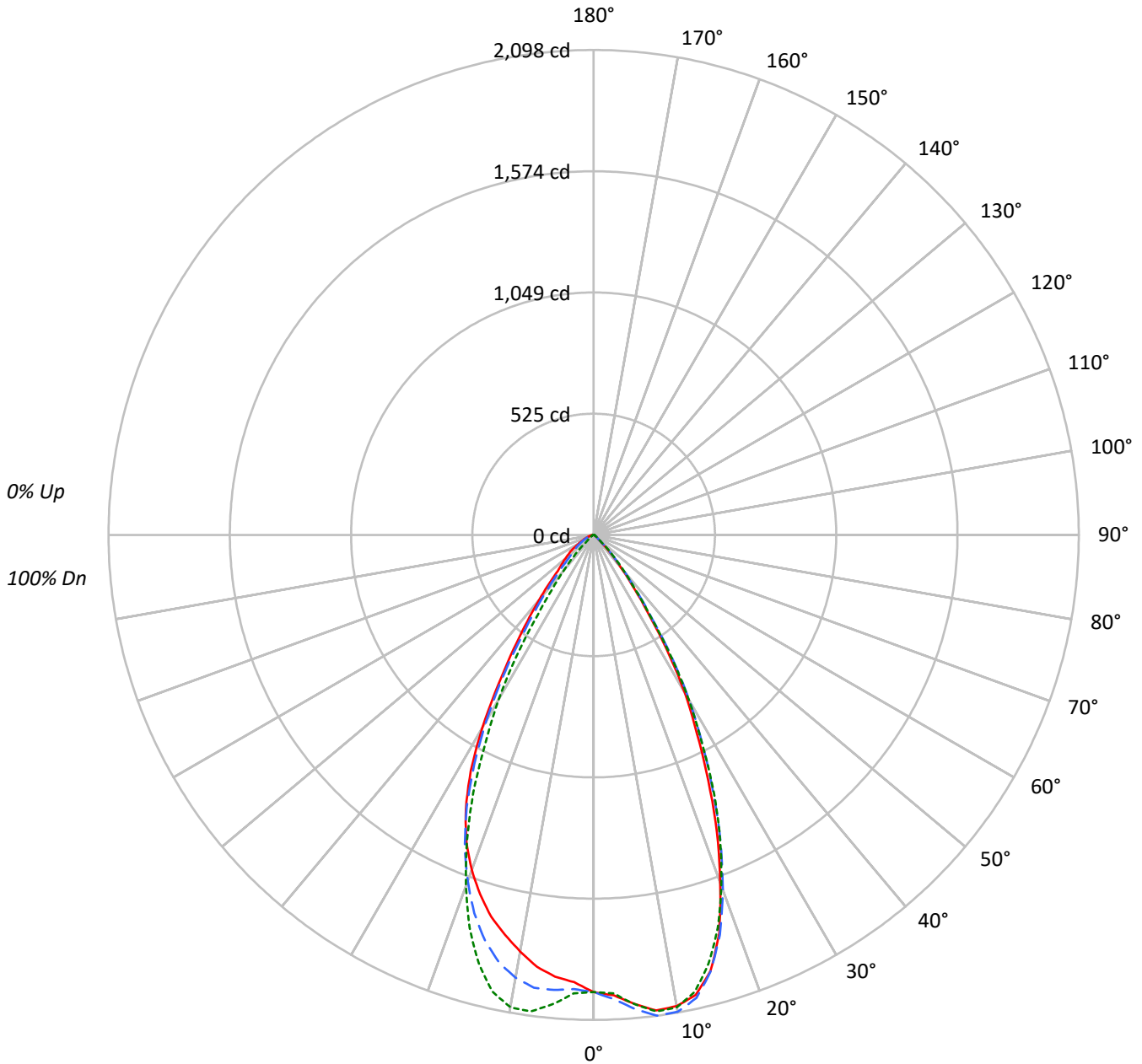
Lumens per Lamp: N/A
Luminaire Lumens: 1758.0 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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°	242930	242930	242930
5°	251196	251369	236508
10°	258155	258829	228265
15°	248397	244098	217579
20°	209141	211089	201546
25°	158883	166948	177413
30°	111742	116353	136511
35°	60291	63125	90331
40°	29092	32123	58601
45°	10355	14108	38101
50°	3880	4912	30523
55°	2892	3470	25210
60°	2334	2654	18281
65°	1977	2355	14157
70°	1473	1940	11171
75°	1282	1946	8354
80°	990	1910	5731
85°	0	1973	3806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.5	11.0
10°-20°	519.4	29.5
20°-30°	563.4	32.0
30°-40°	312.6	17.8
40°-50°	99.6	5.7
50°-60°	40.1	2.3
60°-70°	20.3	1.2
70°-80°	8.4	0.5
80°-90°	1.8	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°	1275.3	72.5
0°-40°	1587.9	90.3
0°-60°	1727.6	98.3
0°-90°	1758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1758.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1977	1977	1977	1977	1977	
5°	2037	2059	2038	1976	1918	196
15°	1953	1954	1919	1816	1711	534
25°	1172	1221	1232	1298	1309	535
35°	402	434	421	556	602	267
45°	60	70	81	181	219	57
55°	14	14	16	87	118	12
65°	7	7	8	39	49	7
75°	3	3	4	14	18	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°	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4	1977.4
2.5°	1993.6	2011.2	2009.8	1996.3	1985.5	1981.4	1966.5	1948.9	1936.8
5°	2036.9	2058.6	2058.6	2047.7	2038.3	2015.3	1976.0	1938.1	1917.8
7.5°	2074.8	2096.5	2097.8	2089.7	2078.9	2041.0	1976.0	1915.1	1884.0
10°	2069.4	2085.6	2095.1	2087.0	2074.8	2024.7	1944.9	1863.7	1829.8
12.5°	2038.3	2053.1	2051.8	2039.6	2023.4	1971.9	1893.4	1809.5	1771.6
15°	1953.0	1961.1	1954.3	1940.8	1919.2	1879.9	1816.3	1744.6	1710.7
17.5°	1805.5	1816.3	1813.6	1791.9	1783.8	1745.9	1716.1	1660.7	1630.9
20°	1599.7	1633.6	1633.6	1617.3	1614.6	1588.9	1593.0	1563.2	1541.6
22.5°	1392.7	1422.5	1431.9	1425.2	1430.6	1418.4	1456.3	1448.2	1437.3
25°	1172.1	1201.8	1220.8	1218.1	1231.6	1231.6	1297.9	1314.2	1308.8
27.5°	965.0	993.4	1015.1	1020.5	1012.4	1027.2	1117.9	1150.4	1150.4
30°	787.7	810.7	831.0	831.0	820.2	831.0	927.1	965.0	962.3
32.5°	587.4	613.1	632.0	629.3	619.9	634.8	736.3	774.2	764.7
35°	402.0	419.6	434.4	429.0	420.9	445.3	556.3	603.6	602.3
37.5°	272.0	288.3	297.8	293.7	291.0	319.4	420.9	473.7	471.0
40°	181.4	192.2	199.0	197.6	200.3	224.7	316.7	365.4	365.4
42.5°	115.0	121.8	128.6	128.6	135.3	161.1	240.9	282.9	282.9
45°	59.6	63.6	70.4	74.4	81.2	108.3	181.4	216.5	219.3
47.5°	28.4	29.8	32.5	33.8	39.2	67.7	139.4	177.3	185.4
50°	20.3	21.7	21.7	21.7	25.7	51.4	117.7	152.9	159.7
52.5°	16.2	16.2	16.2	17.6	20.3	43.3	101.5	132.6	138.0
55°	13.5	13.5	13.5	13.5	16.2	35.2	86.6	113.7	117.7
57.5°	10.8	10.8	10.8	10.8	13.5	28.4	71.7	90.7	92.0
60°	9.5	9.5	9.5	9.5	10.8	24.4	58.2	74.4	74.4
62.5°	8.1	8.1	8.1	8.1	9.5	20.3	48.7	60.9	59.6
65°	6.8	6.8	6.8	6.8	8.1	16.2	39.2	48.7	48.7
67.5°	5.4	5.4	5.4	5.4	6.8	13.5	31.1	39.2	39.2
70°	4.1	4.1	4.1	4.1	5.4	10.8	25.7	31.1	31.1
72.5°	4.1	4.1	4.1	4.1	4.1	8.1	18.9	24.4	23.0
75°	2.7	2.7	2.7	2.7	4.1	6.8	13.5	17.6	17.6
77.5°	2.7	2.7	2.7	2.7	2.7	5.4	10.8	12.2	12.2
80°	1.4	1.4	1.4	1.4	2.7	4.1	6.8	8.1	8.1
82.5°	0.0	1.4	0.0	1.4	1.4	2.7	5.4	5.4	5.4
85°	0.0	0.0	0.0	0.0	1.4	1.4	2.7	4.1	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
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)