

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: P857372

Luminaire Tested: **LD4C25D010 EU4259035 4LBMDSWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P857372
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 EU4259035 4LBMDSWLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

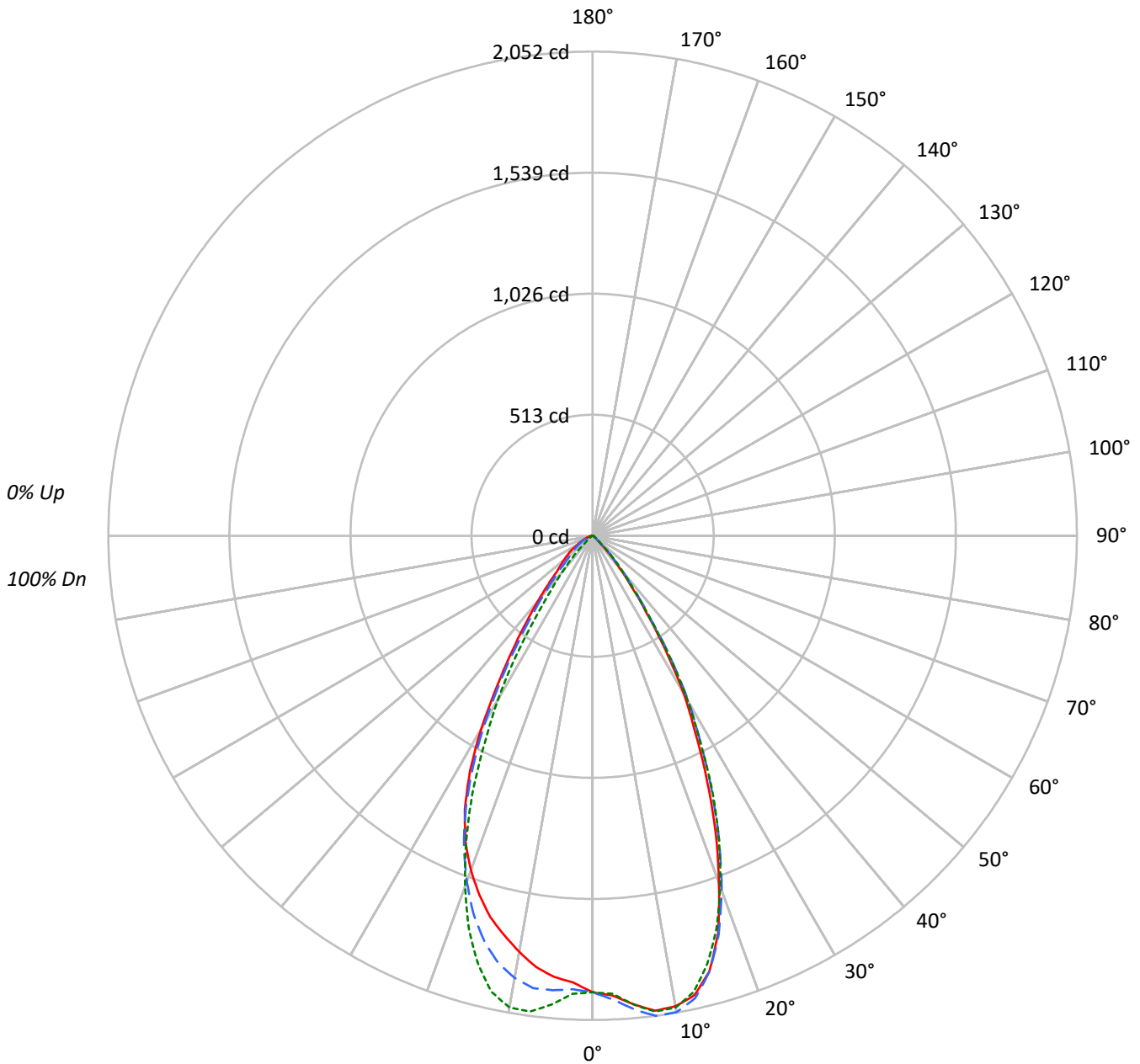
Lumens per Lamp: N/A
Luminaire Lumens: 1720.0 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	237672	237672	237672
5°	245770	245930	231390
10°	252579	253240	223338
15°	243029	238820	212886
20°	204631	206527	197179
25°	155440	163342	173577
30°	109331	113828	133560
35°	58986	61760	88381
40°	28450	31433	57334
45°	10129	13812	37267
50°	3803	4816	29873
55°	2827	3406	24675
60°	2285	2604	17887
65°	1919	2296	13866
70°	1437	1904	10956
75°	1234	1899	8164
80°	920	1839	5589
85°	0	1832	3665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.4	11.0
10°-20°	508.1	29.5
20°-30°	551.2	32.0
30°-40°	305.8	17.8
40°-50°	97.4	5.7
50°-60°	39.3	2.3
60°-70°	19.9	1.2
70°-80°	8.2	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°	1247.7	72.5
0°-40°	1553.6	90.3
0°-60°	1690.2	98.3
0°-90°	1720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1720.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1935	1935	1935	1935	1935	
5°	1993	2014	1994	1933	1876	192
15°	1911	1912	1878	1777	1674	523
25°	1147	1194	1205	1270	1280	524
35°	393	425	412	544	589	261
45°	58	69	80	177	214	56
55°	13	13	16	85	115	12
65°	7	7	8	38	48	7
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°	1934.6	1934.6	1934.6	1934.6	1934.6	1934.6	1934.6	1934.6	1934.6
2.5°	1950.5	1967.7	1966.4	1953.2	1942.6	1938.6	1924.0	1906.8	1894.9
5°	1992.9	2014.1	2014.1	2003.5	1994.2	1971.7	1933.3	1896.2	1876.3
7.5°	2030.0	2051.1	2052.5	2044.5	2033.9	1996.8	1933.3	1873.7	1843.2
10°	2024.7	2040.5	2049.8	2041.9	2030.0	1981.0	1902.8	1823.4	1790.3
12.5°	1994.2	2008.8	2007.4	1995.5	1979.6	1929.3	1852.5	1770.4	1733.3
15°	1910.8	1918.7	1912.1	1898.9	1877.7	1839.3	1777.0	1706.9	1673.8
17.5°	1766.4	1777.0	1774.4	1753.2	1745.3	1708.2	1679.0	1624.8	1595.6
20°	1565.2	1598.3	1598.3	1582.4	1579.7	1554.6	1558.5	1529.4	1508.2
22.5°	1362.6	1391.7	1401.0	1394.4	1399.6	1387.7	1424.8	1416.9	1406.3
25°	1146.7	1175.9	1194.4	1191.8	1205.0	1205.0	1269.9	1285.8	1280.5
27.5°	944.1	971.9	993.1	998.4	990.5	1005.0	1093.8	1125.5	1125.5
30°	770.7	793.2	813.0	813.0	802.4	813.0	907.1	944.1	941.5
32.5°	574.7	599.8	618.4	615.7	606.5	621.0	720.3	757.4	748.2
35°	393.3	410.5	425.1	419.8	411.8	435.7	544.2	590.6	589.3
37.5°	266.2	282.0	291.3	287.3	284.7	312.5	411.8	463.5	460.8
40°	177.4	188.0	194.7	193.3	196.0	219.8	309.9	357.5	357.5
42.5°	112.6	119.2	125.8	125.8	132.4	157.6	235.7	276.8	276.8
45°	58.3	62.2	68.9	72.8	79.5	105.9	177.4	211.9	214.5
47.5°	27.8	29.1	31.8	33.1	38.4	66.2	136.4	173.5	181.4
50°	19.9	21.2	21.2	21.2	25.2	50.3	115.2	149.6	156.3
52.5°	15.9	15.9	15.9	17.2	19.9	42.4	99.3	129.8	135.1
55°	13.2	13.2	13.2	13.2	15.9	34.4	84.7	111.2	115.2
57.5°	10.6	10.6	10.6	10.6	13.2	27.8	70.2	88.7	90.0
60°	9.3	9.3	9.3	9.3	10.6	23.8	56.9	72.8	72.8
62.5°	7.9	7.9	7.9	7.9	9.3	19.9	47.7	59.6	58.3
65°	6.6	6.6	6.6	6.6	7.9	15.9	38.4	47.7	47.7
67.5°	5.3	5.3	5.3	5.3	6.6	13.2	30.5	38.4	38.4
70°	4.0	4.0	4.0	4.0	5.3	10.6	25.2	30.5	30.5
72.5°	4.0	4.0	4.0	4.0	4.0	7.9	18.5	23.8	22.5
75°	2.6	2.6	2.6	2.6	4.0	6.6	13.2	17.2	17.2
77.5°	2.6	2.6	2.6	2.6	2.6	5.3	10.6	11.9	11.9
80°	1.3	1.3	1.3	1.3	2.6	4.0	6.6	7.9	7.9
82.5°	0.0	1.3	0.0	1.3	1.3	2.6	5.3	5.3	5.3
85°	0.0	0.0	0.0	0.0	1.3	1.3	2.6	4.0	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)