

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: P857587

Luminaire Tested: **LD4C30D010 EU4309050 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857587
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: LD4C30D010 EU4309050 4LBMDDWLI
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

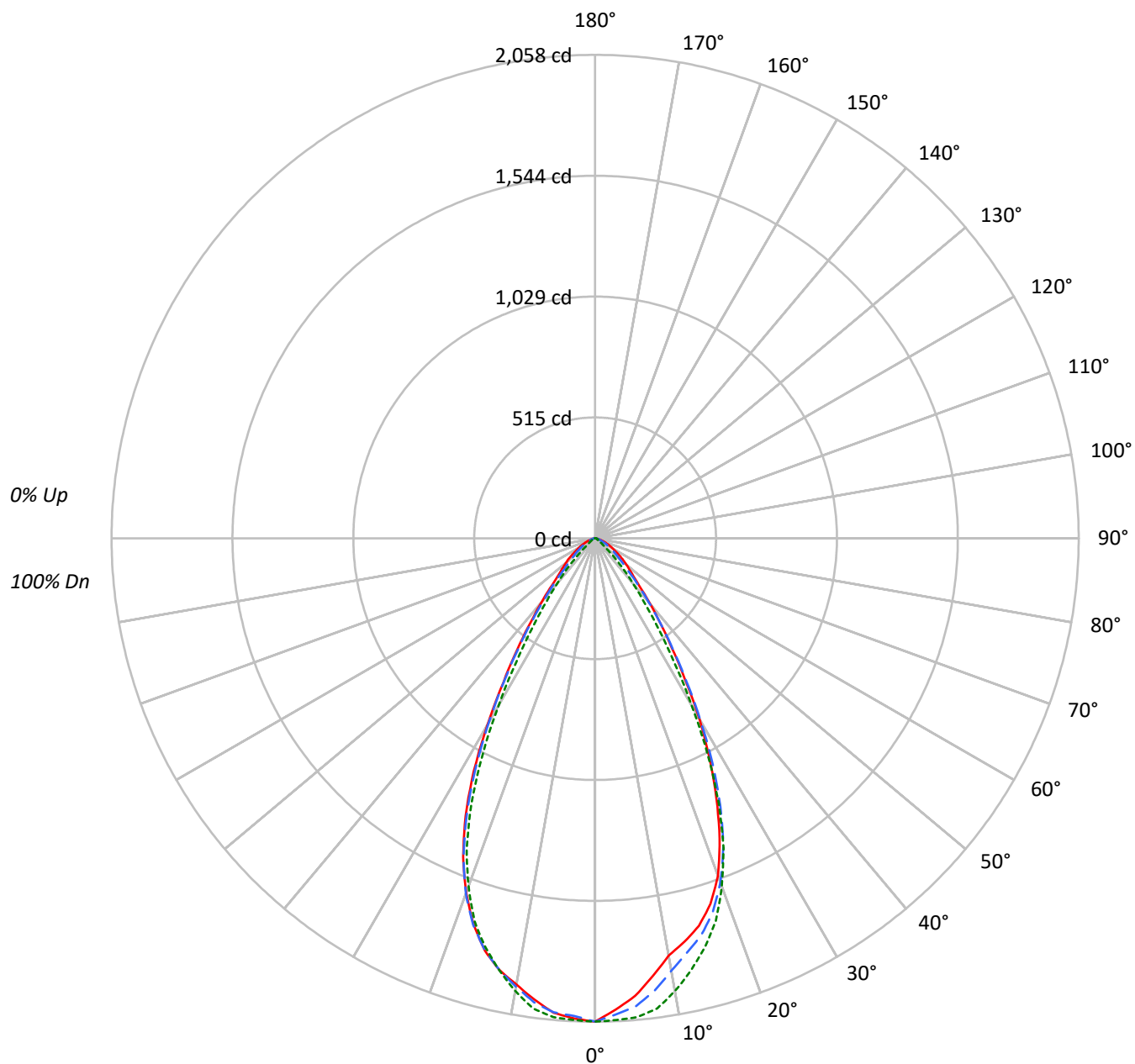
Lumens per Lamp: N/A
Luminaire Lumens: 1873.0 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
Input Voltage (V): NR
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67		
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62		
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58		
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51		
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	252771	252771	252771
5°	241195	252355	250012
10°	224959	244183	240615
15°	217223	229357	230972
20°	199820	206056	209795
25°	165620	168629	176816
30°	125985	116523	129588
35°	85307	69814	86251
40°	58087	39997	56307
45°	40308	20154	38101
50°	32797	8199	30676
55°	26538	5098	24160
60°	21082	3907	19116
65°	16628	3227	14767
70°	12572	2838	11423
75°	9066	2278	8307
80°	6721	2264	5589
85°	4511	2255	4511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	10.1
10°-20°	497.0	26.5
20°-30°	570.3	30.4
30°-40°	346.4	18.5
40°-50°	148.5	7.9
50°-60°	71.2	3.8
60°-70°	34.6	1.8
70°-80°	12.9	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°	1256.5	67.1
0°-40°	1602.9	85.6
0°-60°	1822.6	97.3
0°-90°	1873.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1873.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2058	2058	2058	2058	2058	
5°	1956	1999	2046	2026	2027	182
15°	1708	1748	1803	1814	1816	476
25°	1222	1262	1244	1292	1304	554
35°	569	577	466	562	575	365
45°	232	206	116	186	219	188
55°	124	92	24	83	113	112
65°	57	38	11	35	51	58
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°	2057.5	2057.5	2057.5	2057.5	2057.5	2057.5	2057.5	2057.5	2057.5
2.5°	2008.2	2030.5	2028.9	2047.9	2052.7	2047.9	2035.2	2047.9	2046.3
5°	1955.8	1981.2	1998.7	2030.5	2046.3	2043.2	2025.7	2028.9	2027.3
7.5°	1879.5	1911.3	1941.5	1989.1	2019.3	2017.7	1992.3	1987.6	1981.2
10°	1803.3	1833.4	1868.4	1917.7	1957.4	1963.7	1938.3	1932.0	1928.8
12.5°	1758.8	1782.6	1806.4	1849.3	1884.3	1897.0	1882.7	1884.3	1882.7
15°	1707.9	1731.8	1747.7	1779.4	1803.3	1820.7	1814.4	1823.9	1816.0
17.5°	1631.7	1660.3	1666.6	1690.5	1707.9	1719.1	1725.4	1734.9	1722.2
20°	1528.4	1550.6	1558.6	1568.1	1576.1	1590.4	1609.4	1619.0	1604.7
22.5°	1383.8	1426.7	1425.1	1420.4	1428.3	1433.1	1463.3	1479.1	1468.0
25°	1221.8	1266.3	1261.5	1242.4	1244.0	1253.5	1291.7	1312.3	1304.4
27.5°	1051.8	1093.1	1082.0	1045.4	1035.9	1050.2	1099.4	1123.3	1118.5
30°	888.1	915.1	897.7	832.5	821.4	838.9	902.4	926.3	913.5
32.5°	711.8	732.4	724.5	645.0	626.0	643.5	718.1	740.4	726.1
35°	568.8	587.8	576.7	483.0	465.5	484.6	562.4	587.8	575.1
37.5°	456.0	470.3	456.0	355.9	340.0	359.1	433.7	467.1	451.2
40°	362.2	373.4	354.3	262.1	249.4	259.0	328.9	362.2	351.1
42.5°	286.0	293.9	273.3	192.2	177.9	190.7	247.8	278.0	271.7
45°	232.0	232.0	206.5	133.5	116.0	128.7	185.9	217.7	219.3
47.5°	198.6	193.8	162.1	89.0	66.7	84.2	147.8	181.1	185.9
50°	171.6	165.2	133.5	65.1	42.9	60.4	122.3	155.7	160.5
52.5°	147.8	143.0	111.2	50.8	30.2	46.1	103.3	135.0	139.8
55°	123.9	120.7	92.1	39.7	23.8	35.0	82.6	109.6	112.8
57.5°	101.7	96.9	74.7	33.4	19.1	28.6	68.3	90.6	93.7
60°	85.8	81.0	60.4	27.0	15.9	22.2	55.6	74.7	77.8
62.5°	71.5	66.7	49.3	22.2	12.7	19.1	44.5	60.4	63.6
65°	57.2	54.0	38.1	17.5	11.1	14.3	35.0	47.7	50.8
67.5°	46.1	42.9	30.2	14.3	9.5	11.1	27.0	38.1	41.3
70°	35.0	31.8	22.2	11.1	7.9	9.5	20.7	28.6	31.8
72.5°	25.4	23.8	17.5	9.5	6.4	7.9	14.3	20.7	23.8
75°	19.1	17.5	12.7	6.4	4.8	6.4	11.1	15.9	17.5
77.5°	12.7	12.7	9.5	4.8	4.8	4.8	7.9	11.1	11.1
80°	9.5	7.9	6.4	3.2	3.2	3.2	4.8	7.9	7.9
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)