

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: P857705

Luminaire Tested: **LD4C35D010 EU4359027 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857705
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: LD4C35D010 EU4359027 4LBMDDWLI
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

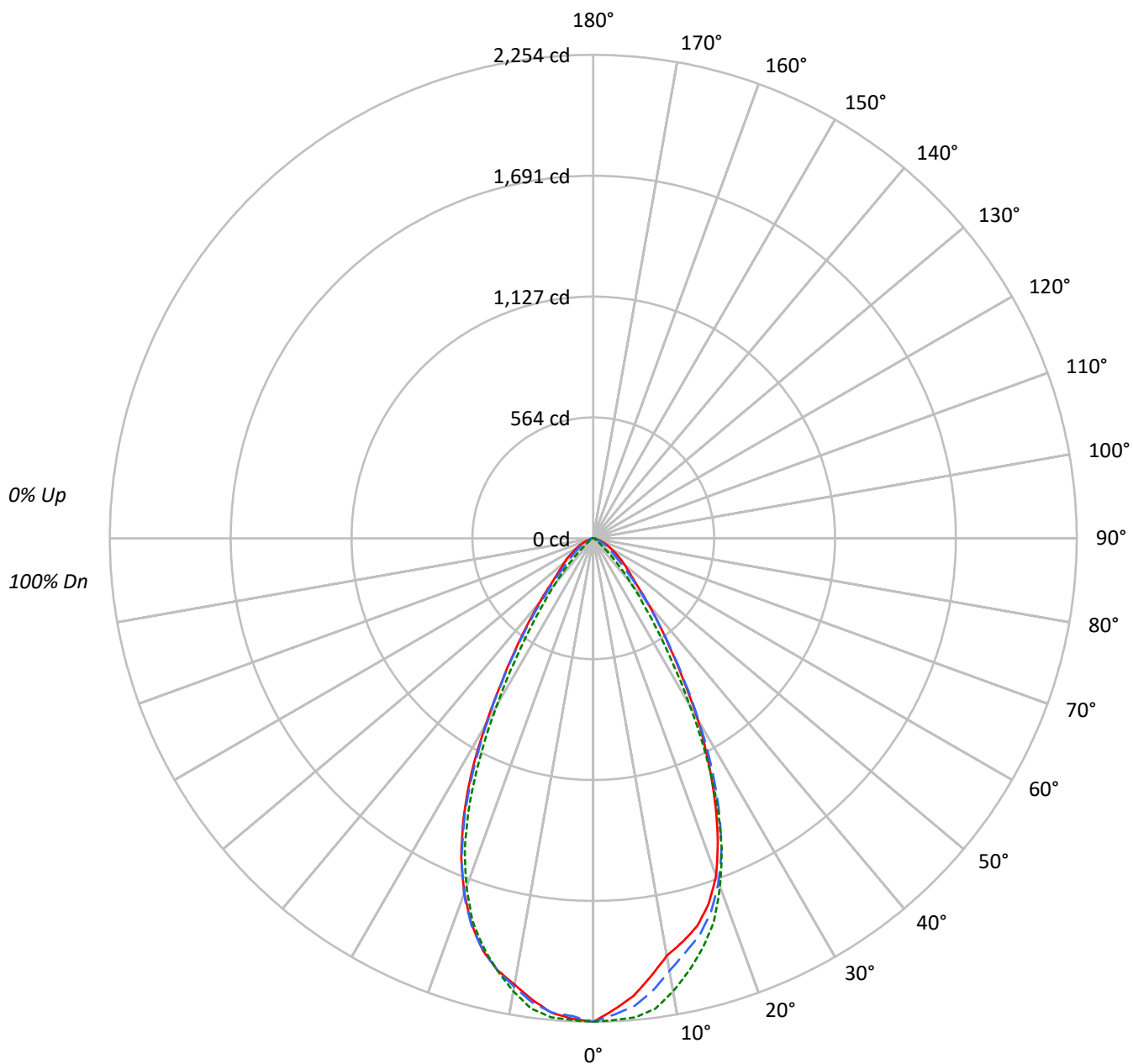
Lumens per Lamp: N/A
Luminaire Lumens: 2052.0 lumens
Efficiency: N/A
Efficacy: 50.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	113	110	107	105	111	108	105	103		104	102	100			100	99	97			97
2	107	102	97	94	105	100	96	93		97	93	91			94	91	89			91
3	101	94	89	85	99	93	88	84		90	86	83			88	84	81			85
4	96	88	82	77	94	86	81	77		84	80	76			82	78	75			80
5	91	82	75	71	89	81	75	71		79	74	70			77	73	69			76
6	86	76	70	66	84	76	70	65		74	69	65			73	68	64			71
7	81	72	65	61	80	71	65	61		70	64	60			68	64	60			67
8	77	67	61	57	76	67	61	57		66	60	56			65	60	56			64
9	74	63	57	53	72	63	57	53		62	57	53			61	56	53			60
10	70	60	54	50	69	60	54	50		59	53	50			58	53	50			57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	276924	276924	276924
5°	264244	276477	273900
10°	246454	267511	263606
15°	237993	251271	253039
20°	218921	225745	229837
25°	181439	184746	193706
30°	138029	127659	141987
35°	93450	76488	94500
40°	63652	43830	61696
45°	44148	22082	41733
50°	35932	8983	33600
55°	29087	5590	26474
60°	23096	4275	20959
65°	18227	3546	16192
70°	13757	3125	12500
75°	9921	2468	9066
80°	7358	2476	6155
85°	4934	2396	4934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	10.1
10°-20°	544.5	26.5
20°-30°	624.8	30.4
30°-40°	379.5	18.5
40°-50°	162.7	7.9
50°-60°	78.0	3.8
60°-70°	37.9	1.8
70°-80°	14.1	0.7
80°-90°	3.2	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°	1376.5	67.1
0°-40°	1756.0	85.6
0°-60°	1996.7	97.3
0°-90°	2052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2052.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2254	2254	2254	2254	2254	
5°	2143	2190	2242	2219	2221	199
15°	1871	1915	1976	1988	1990	521
25°	1338	1382	1363	1415	1429	607
35°	623	632	510	616	630	399
45°	254	226	127	204	240	206
55°	136	101	26	90	124	123
65°	63	42	12	38	56	64
75°	21	14	5	12	19	23
85°	4	4	2	2	4	5
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°	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1	2254.1
2.5°	2200.1	2224.5	2222.8	2243.6	2248.9	2243.6	2229.7	2243.6	2241.9
5°	2142.7	2170.5	2189.7	2224.5	2241.9	2238.4	2219.3	2222.8	2221.0
7.5°	2059.1	2094.0	2127.0	2179.2	2212.3	2210.6	2182.7	2177.5	2170.5
10°	1975.6	2008.7	2047.0	2100.9	2144.4	2151.4	2123.5	2116.6	2113.1
12.5°	1926.9	1953.0	1979.1	2026.1	2064.4	2078.3	2062.6	2064.4	2062.6
15°	1871.2	1897.3	1914.7	1949.5	1975.6	1994.7	1987.8	1998.2	1989.5
17.5°	1787.6	1818.9	1825.9	1852.0	1871.2	1883.3	1890.3	1900.7	1886.8
20°	1674.5	1698.8	1707.5	1718.0	1726.7	1742.4	1763.2	1773.7	1758.0
22.5°	1516.1	1563.1	1561.3	1556.1	1564.8	1570.0	1603.1	1620.5	1608.3
25°	1338.5	1387.3	1382.0	1361.2	1362.9	1373.3	1415.1	1437.7	1429.0
27.5°	1152.3	1197.5	1185.4	1145.3	1134.9	1150.5	1204.5	1230.6	1225.4
30°	973.0	1002.6	983.4	912.1	899.9	919.0	988.7	1014.8	1000.9
32.5°	779.8	802.4	793.7	706.7	685.8	704.9	786.8	811.1	795.5
35°	623.1	644.0	631.8	529.1	510.0	530.9	616.2	644.0	630.1
37.5°	499.6	515.2	499.6	389.9	372.5	393.4	475.2	511.7	494.3
40°	396.9	409.0	388.2	287.2	273.3	283.7	360.3	396.9	384.7
42.5°	313.3	322.0	299.4	210.6	194.9	208.9	271.5	304.6	297.6
45°	254.1	254.1	226.3	146.2	127.1	141.0	203.7	238.5	240.2
47.5°	217.6	212.4	177.5	97.5	73.1	92.3	161.9	198.4	203.7
50°	188.0	181.0	146.2	71.4	47.0	66.1	134.0	170.6	175.8
52.5°	161.9	156.7	121.8	55.7	33.1	50.5	113.1	148.0	153.2
55°	135.8	132.3	101.0	43.5	26.1	38.3	90.5	120.1	123.6
57.5°	111.4	106.2	81.8	36.6	20.9	31.3	74.8	99.2	102.7
60°	94.0	88.8	66.1	29.6	17.4	24.4	60.9	81.8	85.3
62.5°	78.3	73.1	54.0	24.4	13.9	20.9	48.7	66.1	69.6
65°	62.7	59.2	41.8	19.1	12.2	15.7	38.3	52.2	55.7
67.5°	50.5	47.0	33.1	15.7	10.4	12.2	29.6	41.8	45.3
70°	38.3	34.8	24.4	12.2	8.7	10.4	22.6	31.3	34.8
72.5°	27.8	26.1	19.1	10.4	7.0	8.7	15.7	22.6	26.1
75°	20.9	19.1	13.9	7.0	5.2	7.0	12.2	17.4	19.1
77.5°	13.9	13.9	10.4	5.2	5.2	5.2	8.7	12.2	12.2
80°	10.4	8.7	7.0	3.5	3.5	3.5	5.2	8.7	8.7
82.5°	7.0	5.2	5.2	3.5	3.5	3.5	3.5	5.2	5.2
85°	3.5	3.5	3.5	1.7	1.7	1.7	1.7	3.5	3.5
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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)