

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: P857789

Luminaire Tested: **LD4C35D010 EU4359050 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857789
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 EU4359050 4LBMDDWLI
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

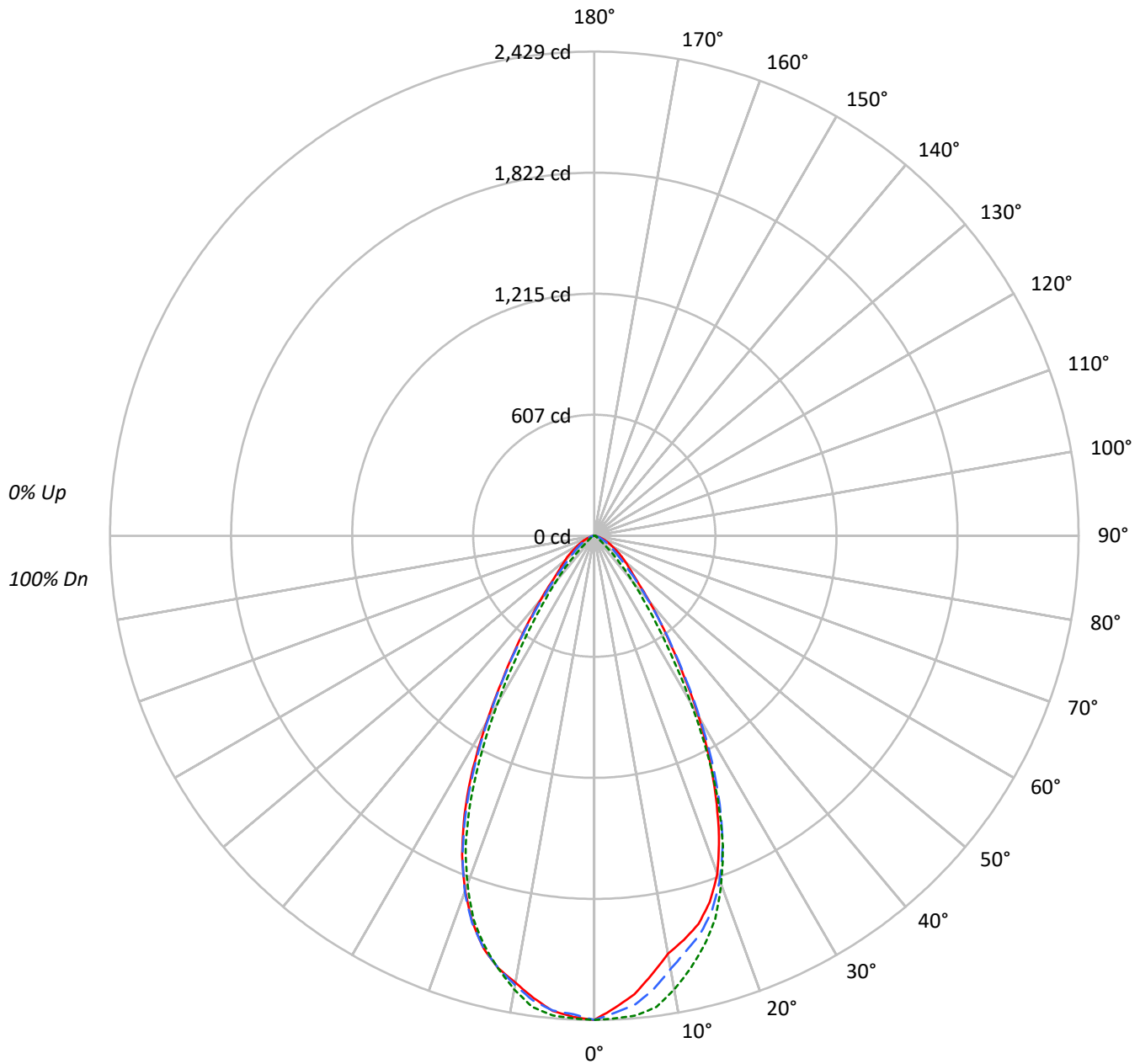
Lumens per Lamp: N/A
Luminaire Lumens: 2211.0 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	298387	298387	298387
5°	284715	297898	295124
10°	265553	288244	284028
15°	256422	270744	272651
20°	235877	243238	247644
25°	195496	199061	208726
30°	148725	137546	152981
35°	100694	82412	101819
40°	68576	47230	66475
45°	47570	23785	44964
50°	38722	9671	36199
55°	31336	6019	28530
60°	24890	4619	22580
65°	19622	3808	17442
70°	14835	3376	13470
75°	10680	2658	9778
80°	7995	2688	6650
85°	5356	2678	5356



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.3	10.1
10°-20°	586.7	26.5
20°-30°	673.2	30.4
30°-40°	408.9	18.5
40°-50°	175.3	7.9
50°-60°	84.1	3.8
60°-70°	40.9	1.8
70°-80°	15.2	0.7
80°-90°	3.5	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°	1483.2	67.1
0°-40°	1892.1	85.6
0°-60°	2151.4	97.3
0°-90°	2211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2211.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2429	2429	2429	2429	2429	
5°	2309	2359	2416	2391	2393	215
15°	2016	2063	2129	2142	2144	561
25°	1442	1489	1468	1525	1540	654
35°	671	681	550	664	679	430
45°	274	244	137	219	259	222
55°	146	109	28	98	133	132
65°	68	45	13	41	60	69
75°	22	15	6	13	21	25
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°	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8
2.5°	2370.6	2396.9	2395.0	2417.5	2423.1	2417.5	2402.5	2417.5	2415.6
5°	2308.7	2338.7	2359.4	2396.9	2415.6	2411.9	2391.2	2395.0	2393.1
7.5°	2218.7	2256.2	2291.8	2348.1	2383.7	2381.9	2351.9	2346.2	2338.7
10°	2128.7	2164.3	2205.6	2263.7	2310.6	2318.1	2288.1	2280.6	2276.8
12.5°	2076.2	2104.3	2132.4	2183.1	2224.3	2239.3	2222.4	2224.3	2222.4
15°	2016.1	2044.3	2063.0	2100.5	2128.7	2149.3	2141.8	2153.1	2143.7
17.5°	1926.1	1959.9	1967.4	1995.5	2016.1	2029.3	2036.8	2048.0	2033.0
20°	1804.2	1830.5	1839.8	1851.1	1860.5	1877.4	1899.9	1911.1	1894.2
22.5°	1633.5	1684.2	1682.3	1676.7	1686.1	1691.7	1727.3	1746.1	1732.9
25°	1442.2	1494.8	1489.1	1466.6	1468.5	1479.8	1524.8	1549.1	1539.8
27.5°	1241.6	1290.3	1277.2	1234.1	1222.8	1239.7	1297.8	1326.0	1320.3
30°	1048.4	1080.3	1059.6	982.8	969.6	990.3	1065.3	1093.4	1078.4
32.5°	840.2	864.6	855.2	761.4	738.9	759.6	847.7	874.0	857.1
35°	671.4	693.9	680.8	570.1	549.5	572.0	663.9	693.9	678.9
37.5°	538.3	555.1	538.3	420.1	401.4	423.9	512.0	551.4	532.6
40°	427.6	440.7	418.2	309.5	294.5	305.7	388.2	427.6	414.5
42.5°	337.6	347.0	322.6	226.9	210.1	225.1	292.6	328.2	320.7
45°	273.8	273.8	243.8	157.5	136.9	151.9	219.4	256.9	258.8
47.5°	234.4	228.8	191.3	105.0	78.8	99.4	174.4	213.8	219.4
50°	202.6	195.1	157.5	76.9	50.6	71.3	144.4	183.8	189.4
52.5°	174.4	168.8	131.3	60.0	35.6	54.4	121.9	159.4	165.0
55°	146.3	142.5	108.8	46.9	28.1	41.3	97.5	129.4	133.2
57.5°	120.0	114.4	88.1	39.4	22.5	33.8	80.6	106.9	110.7
60°	101.3	95.6	71.3	31.9	18.8	26.3	65.6	88.1	91.9
62.5°	84.4	78.8	58.1	26.3	15.0	22.5	52.5	71.3	75.0
65°	67.5	63.8	45.0	20.6	13.1	16.9	41.3	56.3	60.0
67.5°	54.4	50.6	35.6	16.9	11.3	13.1	31.9	45.0	48.8
70°	41.3	37.5	26.3	13.1	9.4	11.3	24.4	33.8	37.5
72.5°	30.0	28.1	20.6	11.3	7.5	9.4	16.9	24.4	28.1
75°	22.5	20.6	15.0	7.5	5.6	7.5	13.1	18.8	20.6
77.5°	15.0	15.0	11.3	5.6	5.6	5.6	9.4	13.1	13.1
80°	11.3	9.4	7.5	3.8	3.8	3.8	5.6	9.4	9.4
82.5°	7.5	5.6	5.6	3.8	3.8	3.8	3.8	5.6	5.6
85°	3.8	3.8	3.8	1.9	1.9	1.9	1.9	3.8	3.8
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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)