

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: P857751

Luminaire Tested: **LD4C35D010 EU4359035 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857751
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 EU4359035 4LBMDSWMW
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

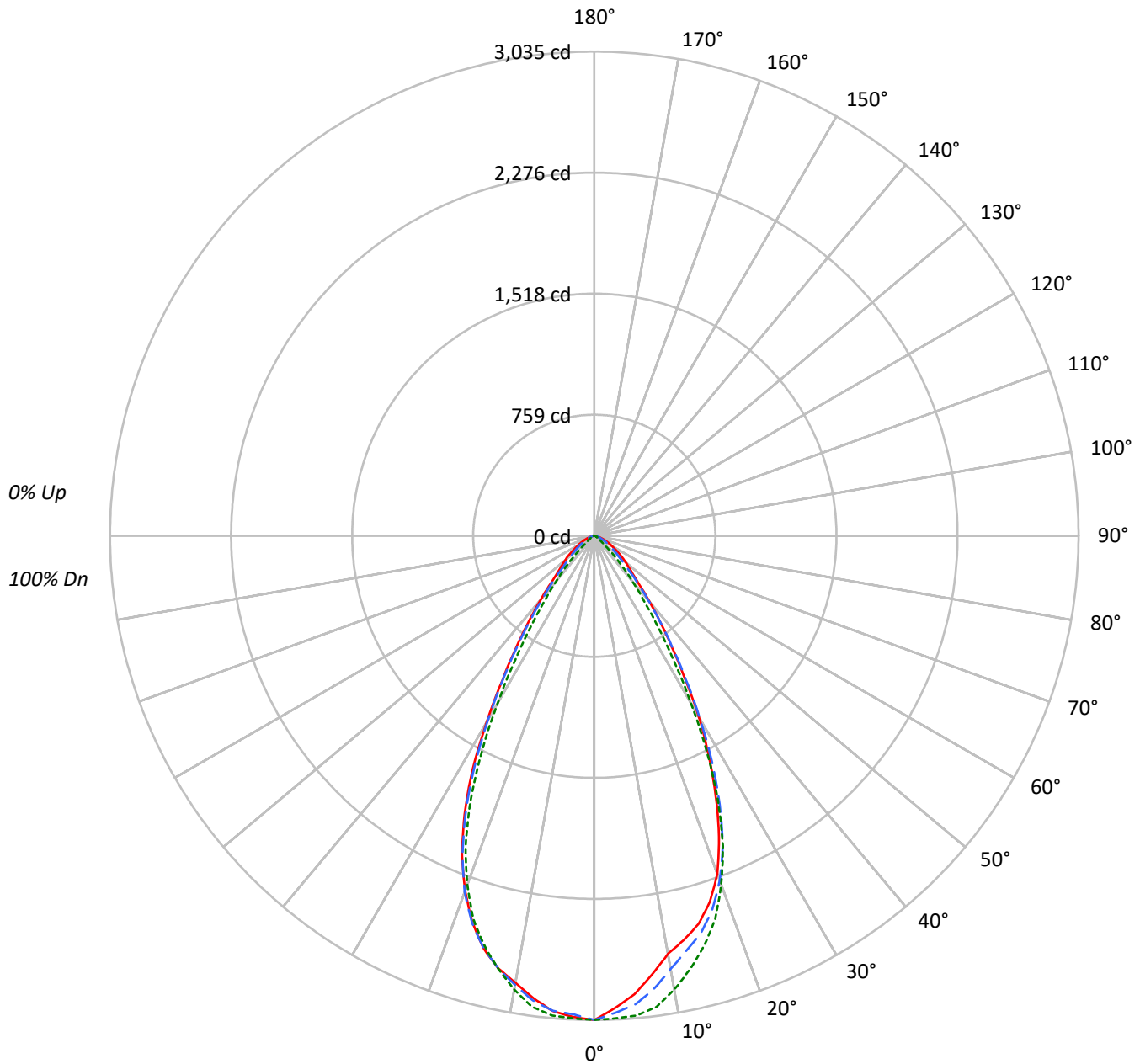
Lumens per Lamp: N/A
Luminaire Lumens: 2763.0 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P857751

CATALOG NUMBER: LD4C35D010 EU4359035 4LBMDSWMW

Luminous Intensity Polar Plot





TEST NUMBER: P857751

CATALOG NUMBER: LD4C35D010 EU4359035 4LBMDSWMW

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°	372873	372873	372873
5°	355798	372274	368809
10°	331844	360212	354947
15°	320448	338331	340722
20°	294775	303966	309483
25°	244309	248755	260833
30°	185849	171891	191169
35°	125845	102989	127240
40°	85704	59018	83074
45°	59454	29727	56188
50°	48374	12098	45240
55°	39154	7539	35641
60°	31106	5750	28207
65°	24535	4767	21802
70°	18535	4203	16846
75°	13338	3323	12246
80°	9976	3325	8278
85°	6625	3242	6625



TEST NUMBER: P857751

CATALOG NUMBER: LD4C35D010 EU4359035 4LBMDSWMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.1	10.1
10°-20°	733.2	26.5
20°-30°	841.2	30.4
30°-40°	511.0	18.5
40°-50°	219.0	7.9
50°-60°	105.1	3.8
60°-70°	51.1	1.8
70°-80°	19.0	0.7
80°-90°	4.3	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°	1853.5	67.1
0°-40°	2364.5	85.6
0°-60°	2688.6	97.3
0°-90°	2763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2763.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3035	3035	3035	3035	3035	
5°	2885	2948	3019	2988	2991	268
15°	2520	2578	2660	2676	2679	701
25°	1802	1861	1835	1905	1924	818
35°	839	851	687	830	848	538
45°	342	305	171	274	323	278
55°	183	136	35	122	166	165
65°	84	56	16	52	75	86
75°	28	19	7	16	26	31
85°	5	5	2	2	5	6
90°	0	0	0	0	0	



TEST NUMBER: P857751

CATALOG NUMBER: LD4C35D010 EU4359035 4LBMSWMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3035.1	3035.1	3035.1	3035.1	3035.1	3035.1	3035.1	3035.1	3035.1
2.5°	2962.5	2995.3	2992.9	3021.1	3028.1	3021.1	3002.3	3021.1	3018.7
5°	2885.1	2922.6	2948.4	2995.3	3018.7	3014.0	2988.2	2992.9	2990.6
7.5°	2772.6	2819.5	2864.0	2934.3	2978.9	2976.5	2939.0	2932.0	2922.6
10°	2660.1	2704.7	2756.2	2828.9	2887.5	2896.8	2859.3	2850.0	2845.3
12.5°	2594.5	2629.7	2664.8	2728.1	2779.7	2798.4	2777.3	2779.7	2777.3
15°	2519.5	2554.7	2578.1	2625.0	2660.1	2685.9	2676.5	2690.6	2678.9
17.5°	2407.0	2449.2	2458.6	2493.7	2519.5	2535.9	2545.3	2559.3	2540.6
20°	2254.7	2287.5	2299.2	2313.3	2325.0	2346.1	2374.2	2388.2	2367.2
22.5°	2041.4	2104.7	2102.3	2095.3	2107.0	2114.0	2158.6	2182.0	2165.6
25°	1802.3	1867.9	1860.9	1832.8	1835.1	1849.2	1905.4	1935.9	1924.2
27.5°	1551.5	1612.5	1596.1	1542.2	1528.1	1549.2	1621.9	1657.0	1650.0
30°	1310.1	1350.0	1324.2	1228.1	1211.7	1237.5	1331.2	1366.4	1347.6
32.5°	1050.0	1080.5	1068.7	951.5	923.4	949.2	1059.4	1092.2	1071.1
35°	839.1	867.2	850.8	712.5	686.7	714.8	829.7	867.2	848.4
37.5°	672.6	693.7	672.6	525.0	501.6	529.7	639.8	689.1	665.6
40°	534.4	550.8	522.6	386.7	368.0	382.0	485.1	534.4	518.0
42.5°	421.9	433.6	403.1	283.6	262.5	281.2	365.6	410.2	400.8
45°	342.2	342.2	304.7	196.9	171.1	189.8	274.2	321.1	323.4
47.5°	293.0	285.9	239.1	131.2	98.4	124.2	218.0	267.2	274.2
50°	253.1	243.7	196.9	96.1	63.3	89.1	180.5	229.7	236.7
52.5°	218.0	210.9	164.1	75.0	44.5	68.0	152.3	199.2	206.2
55°	182.8	178.1	135.9	58.6	35.2	51.6	121.9	161.7	166.4
57.5°	150.0	143.0	110.2	49.2	28.1	42.2	100.8	133.6	138.3
60°	126.6	119.5	89.1	39.8	23.4	32.8	82.0	110.2	114.8
62.5°	105.5	98.4	72.7	32.8	18.7	28.1	65.6	89.1	93.7
65°	84.4	79.7	56.2	25.8	16.4	21.1	51.6	70.3	75.0
67.5°	68.0	63.3	44.5	21.1	14.1	16.4	39.8	56.2	60.9
70°	51.6	46.9	32.8	16.4	11.7	14.1	30.5	42.2	46.9
72.5°	37.5	35.2	25.8	14.1	9.4	11.7	21.1	30.5	35.2
75°	28.1	25.8	18.7	9.4	7.0	9.4	16.4	23.4	25.8
77.5°	18.7	18.7	14.1	7.0	7.0	7.0	11.7	16.4	16.4
80°	14.1	11.7	9.4	4.7	4.7	4.7	7.0	11.7	11.7
82.5°	9.4	7.0	7.0	4.7	4.7	4.7	4.7	7.0	7.0
85°	4.7	4.7	4.7	2.3	2.3	2.3	2.3	4.7	4.7
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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)