

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: P857792

Luminaire Tested: **LD4C35D010 EU4359050 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857792
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: LD4C35D010 EU4359050 4LBMDSWLI
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

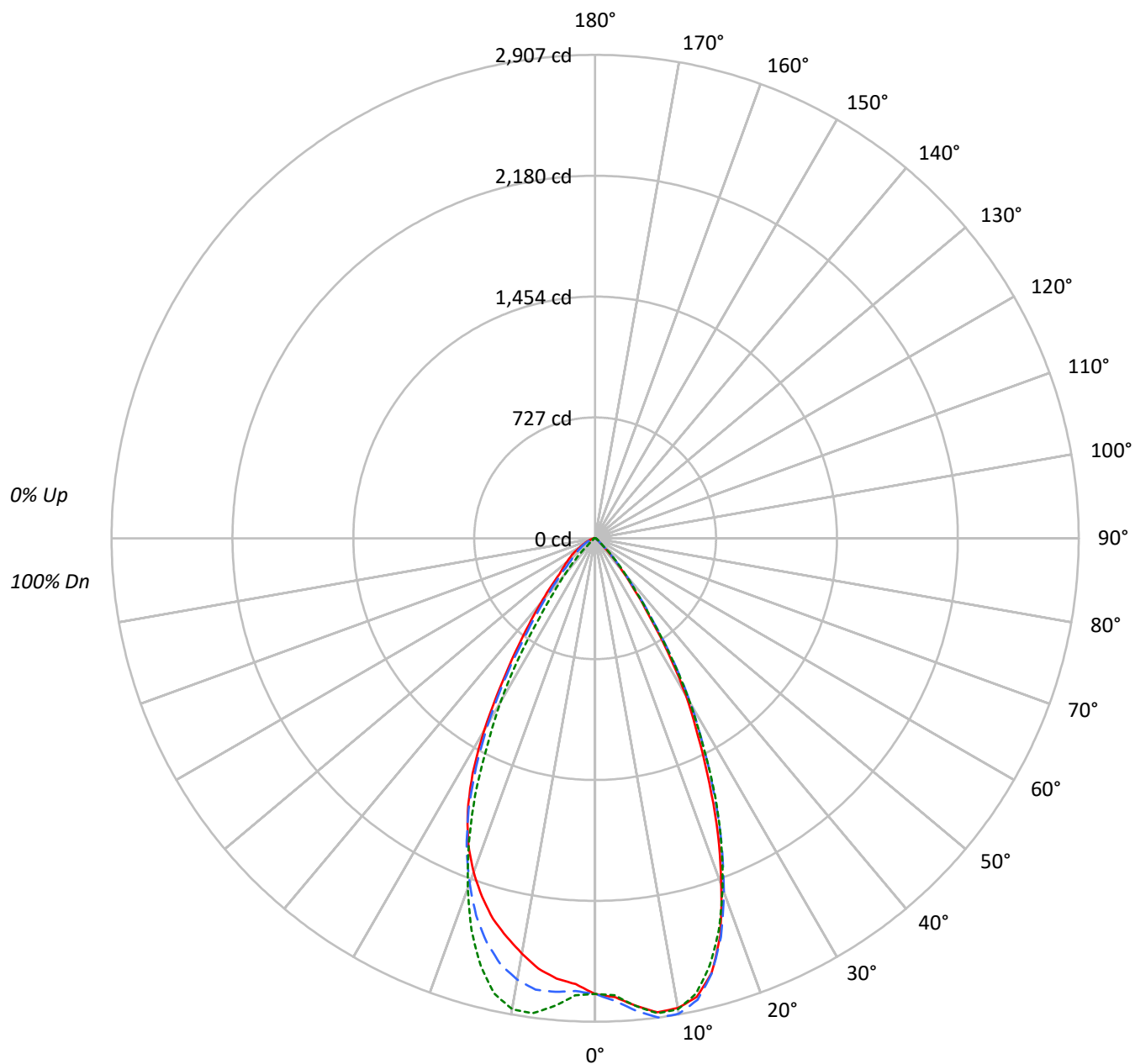
Lumens per Lamp: N/A
Luminaire Lumens: 2436.0 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P857792

CATALOG NUMBER: LD4C35D010 EU4359050 4LBMDSWLI

Luminous Intensity Polar Plot





TEST NUMBER: P857792

CATALOG NUMBER: LD4C35D010 EU4359050 4LBMDSWLI

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	111	108	106	111	108	106	104		104	103	101			101	99	98			97
2	108	103	99	95	105	101	97	94		98	95	92			95	92	90			92
3	102	96	91	87	100	94	90	86		92	88	85			89	86	83			87
4	97	89	84	80	95	88	83	79		86	82	78			84	80	77			82
5	92	84	78	74	91	83	77	73		81	76	73			79	75	72			78
6	88	79	73	68	86	78	72	68		76	71	68			75	71	67			74
7	83	74	68	64	82	73	68	64		72	67	63			71	66	63			70
8	79	70	64	60	78	69	64	60		68	63	59			67	63	59			66
9	76	66	60	56	75	66	60	56		65	59	56			64	59	56			63
10	72	63	57	53	71	62	57	53		61	56	53			61	56	53			60

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	336619	336619	336619
5°	348078	348300	327718
10°	357717	358652	316300
15°	344194	338229	301497
20°	289807	292500	279269
25°	220153	231336	245827
30°	154839	161223	189155
35°	83537	87466	125170
40°	40302	44520	81213
45°	14334	19546	52783
50°	5371	6804	42296
55°	4027	4819	34956
60°	3219	3686	25332
65°	2733	3285	19622
70°	2012	2694	15481
75°	1804	2658	11582
80°	1344	2688	7995
85°	0	2678	5356



TEST NUMBER: P857792

CATALOG NUMBER: LD4C35D010 EU4359050 4LBMDSWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.8	11.0
10°-20°	719.7	29.5
20°-30°	780.7	32.0
30°-40°	433.1	17.8
40°-50°	138.0	5.7
50°-60°	55.6	2.3
60°-70°	28.1	1.2
70°-80°	11.6	0.5
80°-90°	2.4	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°	1767.1	72.5
0°-40°	2200.3	90.3
0°-60°	2393.9	98.3
0°-90°	2436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2436.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2740	2740	2740	2740	2740	
5°	2822	2852	2824	2738	2657	271
15°	2706	2708	2659	2517	2370	740
25°	1624	1692	1707	1798	1814	742
35°	557	602	583	771	835	369
45°	82	98	112	251	304	79
55°	19	19	22	120	163	17
65°	9	9	11	54	68	9
75°	4	4	6	19	24	4
85°	0	0	2	4	4	0
90°	0	0	0	0	0	



TEST NUMBER: P857792

CATALOG NUMBER: LD4C35D010 EU4359050 4LBMDSWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2740.0	2740.0	2740.0	2740.0	2740.0	2740.0	2740.0	2740.0	2740.0
2.5°	2762.5	2786.8	2785.0	2766.2	2751.2	2745.6	2724.9	2700.6	2683.7
5°	2822.5	2852.5	2852.5	2837.5	2824.3	2792.5	2738.1	2685.6	2657.4
7.5°	2875.0	2905.0	2906.9	2895.6	2880.6	2828.1	2738.1	2653.7	2610.5
10°	2867.5	2890.0	2903.1	2891.9	2875.0	2805.6	2694.9	2582.4	2535.5
12.5°	2824.3	2845.0	2843.1	2826.2	2803.7	2732.5	2623.7	2507.4	2454.9
15°	2706.2	2717.4	2708.1	2689.3	2659.3	2604.9	2516.8	2417.4	2370.5
17.5°	2501.8	2516.8	2513.0	2483.0	2471.8	2419.3	2378.0	2301.1	2259.9
20°	2216.7	2263.6	2263.6	2241.1	2237.3	2201.7	2207.3	2166.1	2136.1
22.5°	1929.8	1971.0	1984.2	1974.8	1982.3	1965.4	2017.9	2006.7	1991.7
25°	1624.1	1665.4	1691.6	1687.9	1706.6	1706.6	1798.5	1821.0	1813.5
27.5°	1337.2	1376.5	1406.5	1414.0	1402.8	1423.4	1549.1	1594.1	1594.1
30°	1091.5	1123.4	1151.5	1151.5	1136.5	1151.5	1284.6	1337.2	1333.4
32.5°	813.9	849.6	875.8	872.1	858.9	879.6	1020.2	1072.7	1059.6
35°	557.0	581.4	602.0	594.5	583.2	617.0	770.8	836.4	834.6
37.5°	377.0	399.5	412.6	407.0	403.2	442.6	583.2	656.4	652.6
40°	251.3	266.3	275.7	273.8	277.6	311.3	438.8	506.4	506.4
42.5°	159.4	168.8	178.2	178.2	187.5	223.2	333.8	392.0	392.0
45°	82.5	88.1	97.5	103.1	112.5	150.0	251.3	300.1	303.8
47.5°	39.4	41.3	45.0	46.9	54.4	93.8	193.2	245.7	256.9
50°	28.1	30.0	30.0	30.0	35.6	71.3	163.2	211.9	221.3
52.5°	22.5	22.5	22.5	24.4	28.1	60.0	140.7	183.8	191.3
55°	18.8	18.8	18.8	18.8	22.5	48.8	120.0	157.5	163.2
57.5°	15.0	15.0	15.0	15.0	18.8	39.4	99.4	125.7	127.5
60°	13.1	13.1	13.1	13.1	15.0	33.8	80.6	103.1	103.1
62.5°	11.3	11.3	11.3	11.3	13.1	28.1	67.5	84.4	82.5
65°	9.4	9.4	9.4	9.4	11.3	22.5	54.4	67.5	67.5
67.5°	7.5	7.5	7.5	7.5	9.4	18.8	43.1	54.4	54.4
70°	5.6	5.6	5.6	5.6	7.5	15.0	35.6	43.1	43.1
72.5°	5.6	5.6	5.6	5.6	5.6	11.3	26.3	33.8	31.9
75°	3.8	3.8	3.8	3.8	5.6	9.4	18.8	24.4	24.4
77.5°	3.8	3.8	3.8	3.8	3.8	7.5	15.0	16.9	16.9
80°	1.9	1.9	1.9	1.9	3.8	5.6	9.4	11.3	11.3
82.5°	0.0	1.9	0.0	1.9	1.9	3.8	7.5	7.5	7.5
85°	0.0	0.0	0.0	0.0	1.9	1.9	3.8	5.6	3.8
87.5°	0.0	0.0	0.0	0.0	0.0	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)