

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: P857592

Luminaire Tested: **LD4C30D010 EU4309050 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857592
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 4LBMDSWWH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

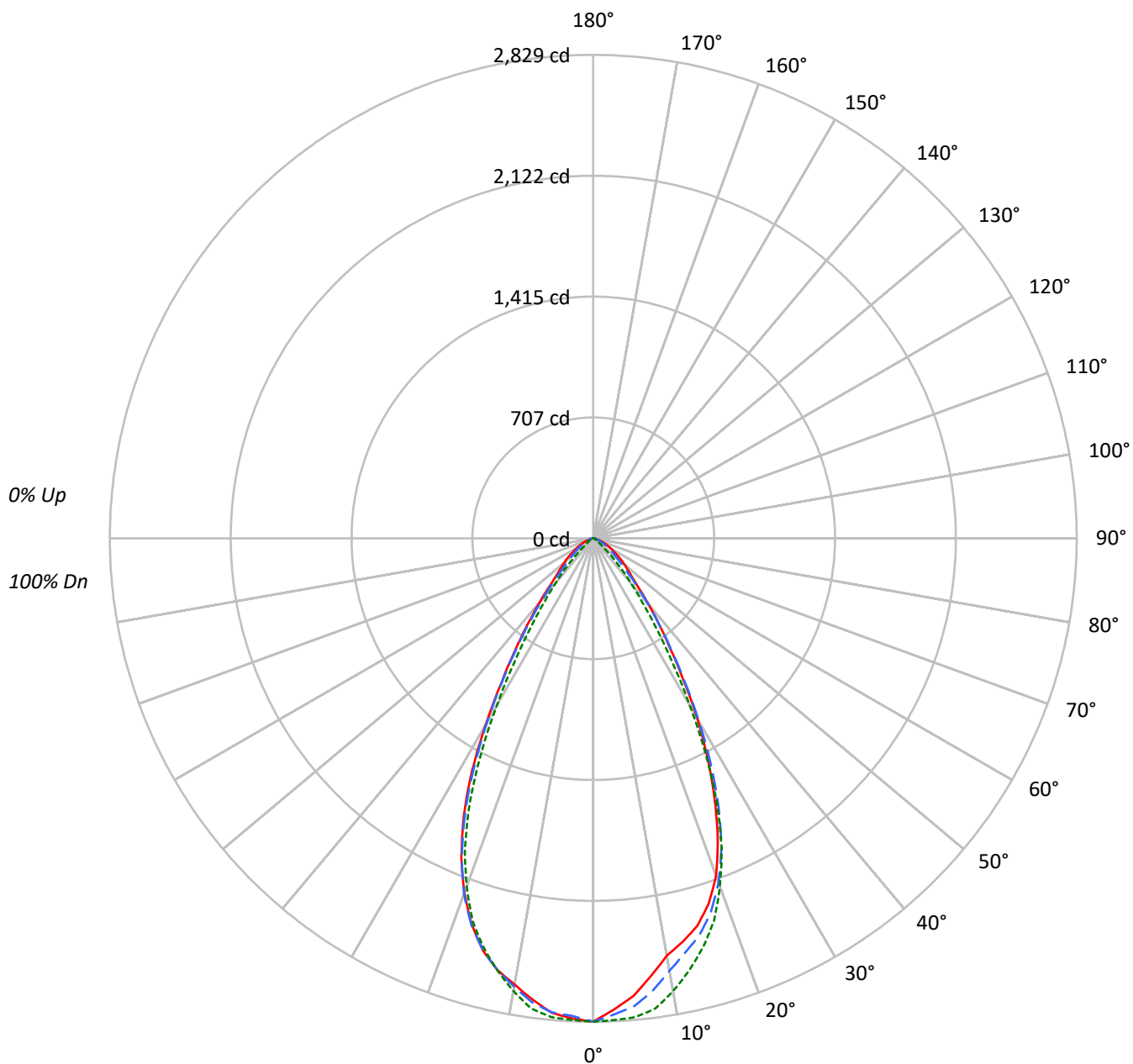
Lumens per Lamp: N/A
Luminaire Lumens: 2575.0 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P857592

CATALOG NUMBER: LD4C30D010 EU4309050 4LBMDSWWH

Luminous Intensity Polar Plot





TEST NUMBER: P857592

CATALOG NUMBER: LD4C30D010 EU4309050 4LBMDSWWH

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°	347503	347503	347503
5°	331590	346944	343713
10°	309264	335699	330796
15°	298648	315310	317536
20°	274707	283283	288421
25°	227690	231838	243089
30°	173210	160201	178161
35°	117282	95985	118586
40°	79866	54992	77412
45°	55406	27712	52366
50°	45087	11276	42162
55°	36498	7025	33221
60°	28969	5356	26291
65°	22849	4448	20320
70°	17277	3915	15697
75°	12436	3133	11392
80°	9268	3113	7712
85°	6202	3101	6202



TEST NUMBER: P857592

CATALOG NUMBER: LD4C30D010 EU4309050 4LBMDSWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.1	10.1
10°-20°	683.3	26.5
20°-30°	784.0	30.4
30°-40°	476.3	18.5
40°-50°	204.1	7.9
50°-60°	97.9	3.8
60°-70°	47.6	1.8
70°-80°	17.7	0.7
80°-90°	4.1	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°	1727.4	67.1
0°-40°	2203.6	85.6
0°-60°	2505.7	97.3
0°-90°	2575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2575.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2829	2829	2829	2829	2829	
5°	2689	2748	2813	2785	2787	250
15°	2348	2403	2479	2494	2497	654
25°	1680	1734	1710	1776	1793	762
35°	782	793	640	773	791	501
45°	319	284	160	256	301	259
55°	170	127	33	114	155	154
65°	79	52	15	48	70	80
75°	26	18	7	15	24	29
85°	4	4	2	2	4	6
90°	0	0	0	0	0	



TEST NUMBER: P857592

CATALOG NUMBER: LD4C30D010 EU4309050 4LBMDSWWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2828.6	2828.6	2828.6	2828.6	2828.6	2828.6	2828.6	2828.6	2828.6
2.5°	2760.9	2791.5	2789.3	2815.5	2822.0	2815.5	2798.0	2815.5	2813.3
5°	2688.8	2723.8	2747.8	2791.5	2813.3	2808.9	2784.9	2789.3	2787.1
7.5°	2584.0	2627.6	2669.2	2734.7	2776.2	2774.0	2739.0	2732.5	2723.8
10°	2479.1	2520.6	2568.7	2636.4	2691.0	2699.7	2664.8	2656.0	2651.7
12.5°	2418.0	2450.7	2483.5	2542.5	2590.5	2608.0	2588.3	2590.5	2588.3
15°	2348.1	2380.8	2402.7	2446.4	2479.1	2503.1	2494.4	2507.5	2496.6
17.5°	2243.2	2282.5	2291.3	2324.0	2348.1	2363.4	2372.1	2385.2	2367.7
20°	2101.2	2131.8	2142.7	2155.9	2166.8	2186.4	2212.6	2225.7	2206.1
22.5°	1902.5	1961.5	1959.3	1952.7	1963.6	1970.2	2011.7	2033.5	2018.2
25°	1679.7	1740.8	1734.3	1708.1	1710.3	1723.4	1775.8	1804.2	1793.3
27.5°	1446.0	1502.8	1487.5	1437.2	1424.1	1443.8	1511.5	1544.3	1537.7
30°	1221.0	1258.1	1234.1	1144.5	1129.3	1153.3	1240.7	1273.4	1255.9
32.5°	978.5	1006.9	996.0	886.8	860.6	884.6	987.3	1017.9	998.2
35°	782.0	808.2	792.9	664.0	640.0	666.2	773.2	808.2	790.7
37.5°	626.9	646.5	626.9	489.3	467.4	493.6	596.3	642.2	620.3
40°	498.0	513.3	487.1	360.4	342.9	356.0	452.1	498.0	482.7
42.5°	393.2	404.1	375.7	264.3	244.6	262.1	340.7	382.2	373.5
45°	318.9	318.9	284.0	183.5	159.5	176.9	255.6	299.2	301.4
47.5°	273.0	266.5	222.8	122.3	91.7	115.8	203.1	249.0	255.6
50°	235.9	227.2	183.5	89.6	59.0	83.0	168.2	214.1	220.6
52.5°	203.1	196.6	152.9	69.9	41.5	63.3	142.0	185.7	192.2
55°	170.4	166.0	126.7	54.6	32.8	48.1	113.6	150.7	155.1
57.5°	139.8	133.2	102.7	45.9	26.2	39.3	93.9	124.5	128.9
60°	117.9	111.4	83.0	37.1	21.8	30.6	76.4	102.7	107.0
62.5°	98.3	91.7	67.7	30.6	17.5	26.2	61.2	83.0	87.4
65°	78.6	74.3	52.4	24.0	15.3	19.7	48.1	65.5	69.9
67.5°	63.3	59.0	41.5	19.7	13.1	15.3	37.1	52.4	56.8
70°	48.1	43.7	30.6	15.3	10.9	13.1	28.4	39.3	43.7
72.5°	34.9	32.8	24.0	13.1	8.7	10.9	19.7	28.4	32.8
75°	26.2	24.0	17.5	8.7	6.6	8.7	15.3	21.8	24.0
77.5°	17.5	17.5	13.1	6.6	6.6	6.6	10.9	15.3	15.3
80°	13.1	10.9	8.7	4.4	4.4	4.4	6.6	10.9	10.9
82.5°	8.7	6.6	6.6	4.4	4.4	4.4	4.4	6.6	6.6
85°	4.4	4.4	4.4	2.2	2.2	2.2	2.2	4.4	4.4
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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)