

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: P857793

Luminaire Tested: **LD4C35D010 EU4359050 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857793
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 4LBMDSWMW
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

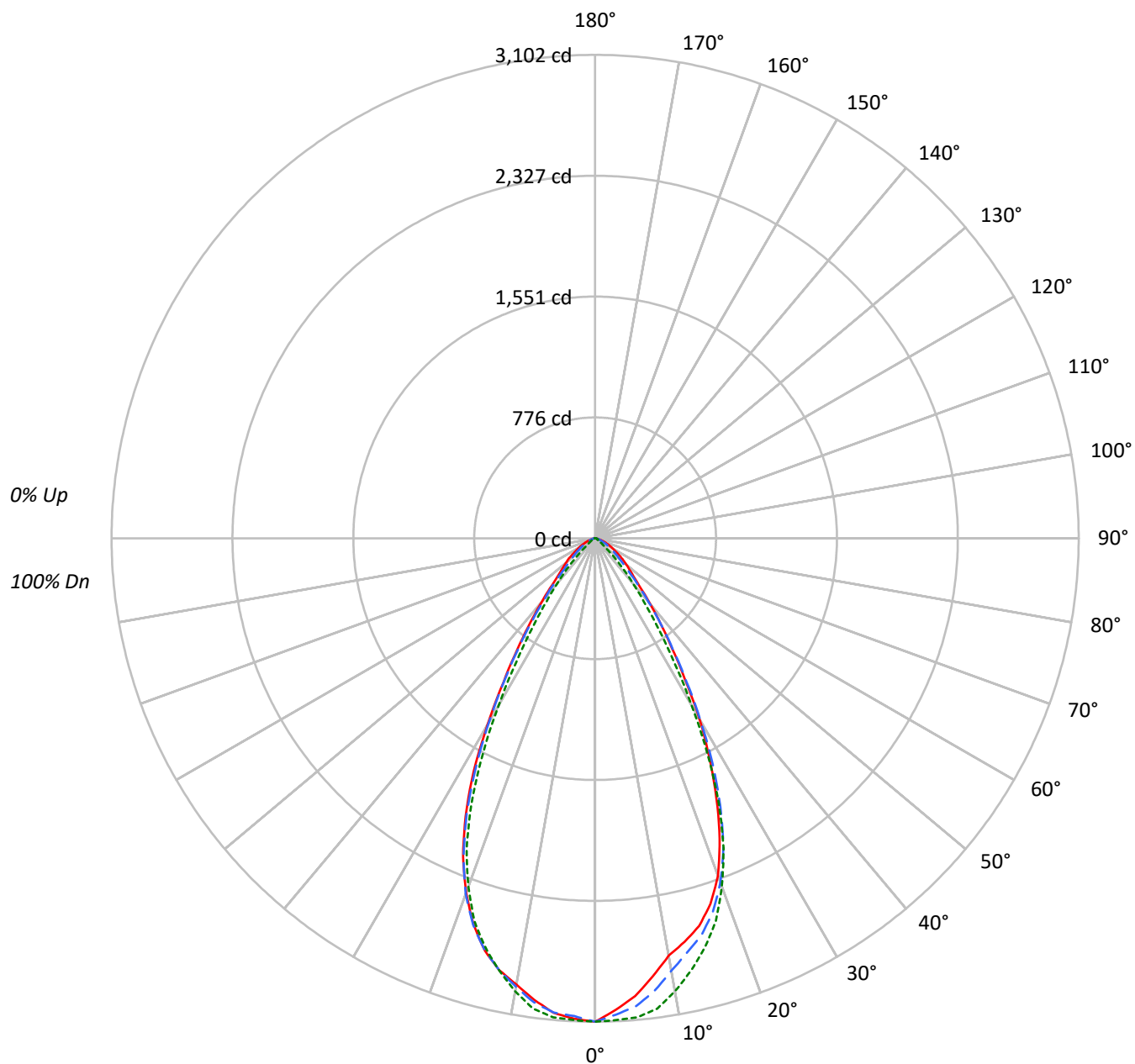
Lumens per Lamp: N/A
Luminaire Lumens: 2824.0 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	381104	381104	381104
5°	363654	380500	376948
10°	339167	368158	362782
15°	327520	345797	348239
20°	301273	310673	316307
25°	249704	254245	266594
30°	189963	175692	195397
35°	128620	105268	130060
40°	87596	60317	84902
45°	60757	30387	57439
50°	49444	12366	46233
55°	40010	7689	36433
60°	31794	5897	28846
65°	25058	4884	22296
70°	18930	4310	17206
75°	13623	3418	12531
80°	10188	3396	8490
85°	6766	3383	6766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.2	10.1
10°-20°	749.4	26.5
20°-30°	859.8	30.4
30°-40°	522.3	18.5
40°-50°	223.9	7.9
50°-60°	107.4	3.8
60°-70°	52.2	1.8
70°-80°	19.4	0.7
80°-90°	4.5	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°	1894.4	67.1
0°-40°	2416.7	85.6
0°-60°	2748.0	97.3
0°-90°	2824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2824.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3102	3102	3102	3102	3102	
5°	2949	3014	3085	3054	3057	274
15°	2575	2635	2719	2736	2738	717
25°	1842	1902	1876	1948	1967	836
35°	858	870	702	848	867	550
45°	350	311	175	280	331	284
55°	187	139	36	125	170	169
65°	86	58	17	53	77	87
75°	29	19	7	17	26	32
85°	5	5	2	2	5	7
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°	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1
2.5°	3027.9	3061.4	3059.0	3087.8	3094.9	3087.8	3068.6	3087.8	3085.4
5°	2948.8	2987.1	3013.5	3061.4	3085.4	3080.6	3054.2	3059.0	3056.6
7.5°	2833.8	2881.7	2927.3	2999.1	3044.6	3042.2	3003.9	2996.7	2987.1
10°	2718.8	2764.4	2817.1	2891.3	2951.2	2960.8	2922.5	2912.9	2908.1
12.5°	2651.8	2687.7	2723.6	2788.3	2841.0	2860.2	2838.6	2841.0	2838.6
15°	2575.1	2611.1	2635.0	2682.9	2718.8	2745.2	2735.6	2750.0	2738.0
17.5°	2460.1	2503.3	2512.8	2548.8	2575.1	2591.9	2601.5	2615.8	2596.7
20°	2304.4	2338.0	2349.9	2364.3	2376.3	2397.9	2426.6	2441.0	2419.4
22.5°	2086.4	2151.1	2148.7	2141.5	2153.5	2160.7	2206.2	2230.2	2213.4
25°	1842.1	1909.2	1902.0	1873.3	1875.6	1890.0	1947.5	1978.7	1966.7
27.5°	1585.8	1648.1	1631.3	1576.2	1561.8	1583.4	1657.7	1693.6	1686.4
30°	1339.1	1379.8	1353.4	1255.2	1238.5	1264.8	1360.6	1396.6	1377.4
32.5°	1073.2	1104.3	1092.3	972.6	943.8	970.2	1082.7	1116.3	1094.7
35°	857.6	886.3	869.6	728.2	701.9	730.6	848.0	886.3	867.2
37.5°	687.5	709.1	687.5	536.6	512.6	541.4	654.0	704.3	680.3
40°	546.2	562.9	534.2	395.3	376.1	390.5	495.9	546.2	529.4
42.5°	431.2	443.2	412.0	289.9	268.3	287.5	373.7	419.2	409.6
45°	349.7	349.7	311.4	201.2	174.9	194.0	280.3	328.2	330.6
47.5°	299.4	292.2	244.3	134.1	100.6	127.0	222.8	273.1	280.3
50°	258.7	249.1	201.2	98.2	64.7	91.0	184.5	234.8	241.9
52.5°	222.8	215.6	167.7	76.7	45.5	69.5	155.7	203.6	210.8
55°	186.8	182.1	138.9	59.9	35.9	52.7	124.6	165.3	170.1
57.5°	153.3	146.1	112.6	50.3	28.7	43.1	103.0	136.5	141.3
60°	129.4	122.2	91.0	40.7	24.0	33.5	83.8	112.6	117.4
62.5°	107.8	100.6	74.3	33.5	19.2	28.7	67.1	91.0	95.8
65°	86.2	81.4	57.5	26.4	16.8	21.6	52.7	71.9	76.7
67.5°	69.5	64.7	45.5	21.6	14.4	16.8	40.7	57.5	62.3
70°	52.7	47.9	33.5	16.8	12.0	14.4	31.1	43.1	47.9
72.5°	38.3	35.9	26.4	14.4	9.6	12.0	21.6	31.1	35.9
75°	28.7	26.4	19.2	9.6	7.2	9.6	16.8	24.0	26.4
77.5°	19.2	19.2	14.4	7.2	7.2	7.2	12.0	16.8	16.8
80°	14.4	12.0	9.6	4.8	4.8	4.8	7.2	12.0	12.0
82.5°	9.6	7.2	7.2	4.8	4.8	4.8	4.8	7.2	7.2
85°	4.8	4.8	4.8	2.4	2.4	2.4	2.4	4.8	4.8
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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)