

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: P859342

Luminaire Tested: **LD4C65D010 EU4659030 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859342
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: LD4C65D010 EU4659030 4LBMDSWMW
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

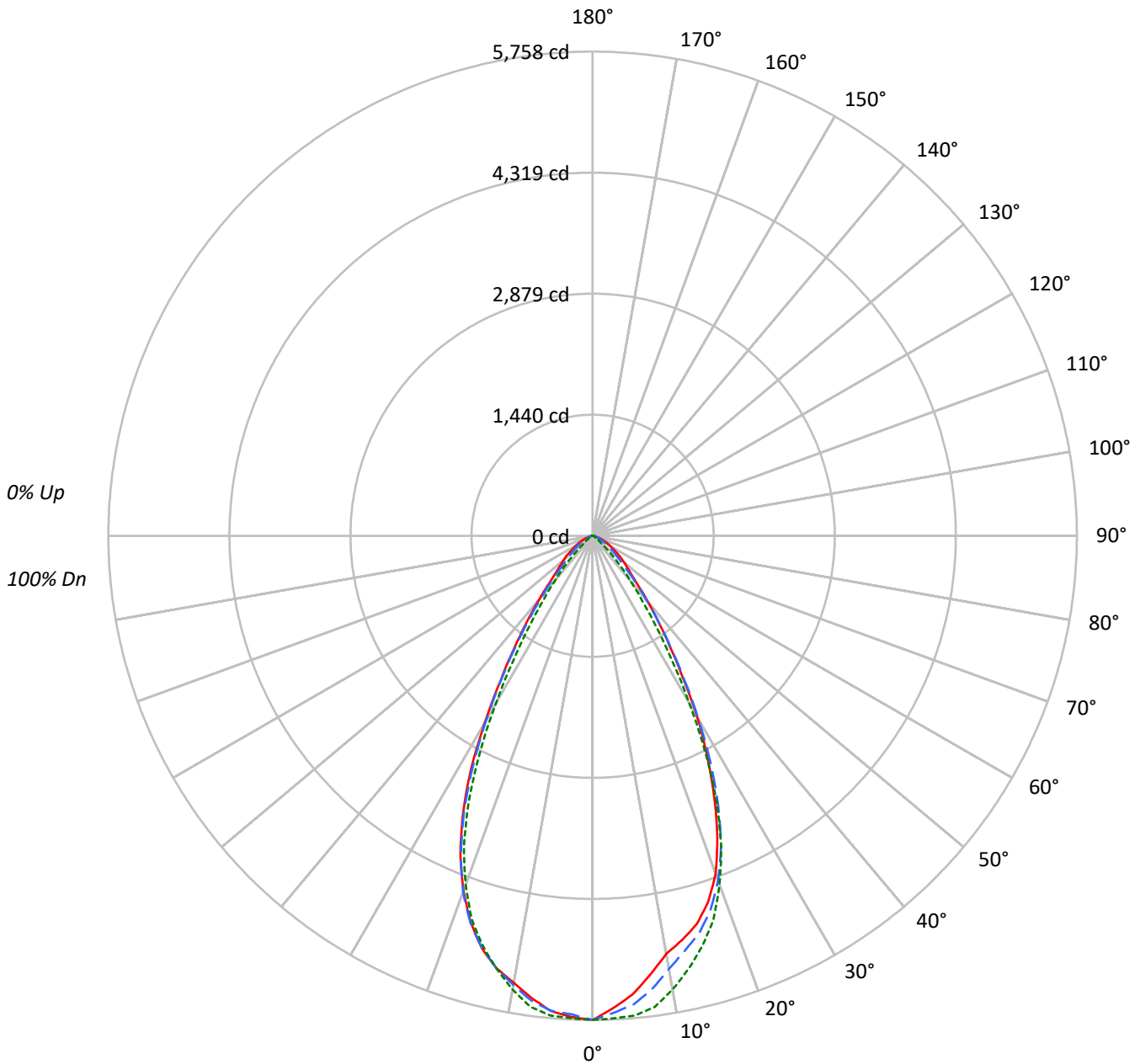
Lumens per Lamp: N/A
Luminaire Lumens: 5242.0 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (A_{in}): 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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72	72	72	72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55	55	55	55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51	51	51	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	707427	707427	707427
5°	675032	706282	699709
10°	629582	683386	673406
15°	607955	641889	646417
20°	559245	576685	587144
25°	463513	471944	494853
30°	352605	326120	362705
35°	238747	195389	241402
40°	162587	111957	157599
45°	112793	56396	106608
50°	91779	22954	85835
55°	74281	14286	67619
60°	58994	10934	53540
65°	46540	9041	41366
70°	35130	7974	31933
75°	25347	6313	23211
80°	18890	6297	15706
85°	12545	6202	12545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.4	10.1
10°-20°	1391.0	26.5
20°-30°	1596.0	30.4
30°-40°	969.5	18.5
40°-50°	415.5	7.9
50°-60°	199.3	3.8
60°-70°	96.9	1.8
70°-80°	36.0	0.7
80°-90°	8.3	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°	3516.4	67.1
0°-40°	4486.0	85.6
0°-60°	5100.8	97.3
0°-90°	5242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5242.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5758	5758	5758	5758	5758	
5°	5474	5594	5727	5669	5674	509
15°	4780	4891	5047	5078	5082	1331
25°	3419	3530	3482	3615	3651	1551
35°	1592	1614	1303	1574	1610	1020
45°	649	578	325	520	614	527
55°	347	258	67	231	316	313
65°	160	107	31	98	142	162
75°	53	36	13	31	49	59
85°	9	9	4	4	9	12
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°	5758.3	5758.3	5758.3	5758.3	5758.3	5758.3	5758.3	5758.3	5758.3
2.5°	5620.4	5682.7	5678.2	5731.6	5744.9	5731.6	5696.0	5731.6	5727.1
5°	5473.7	5544.8	5593.7	5682.7	5727.1	5718.2	5669.3	5678.2	5673.8
7.5°	5260.2	5349.2	5433.7	5567.1	5651.5	5647.1	5576.0	5562.6	5544.8
10°	5046.8	5131.3	5229.1	5367.0	5478.1	5495.9	5424.8	5407.0	5398.1
12.5°	4922.3	4989.0	5055.7	5175.8	5273.6	5309.2	5269.1	5273.6	5269.1
15°	4780.0	4846.7	4891.2	4980.1	5046.8	5095.7	5077.9	5104.6	5082.4
17.5°	4566.6	4646.6	4664.4	4731.1	4780.0	4811.1	4828.9	4855.6	4820.0
20°	4277.6	4339.8	4362.0	4388.7	4411.0	4451.0	4504.3	4531.0	4491.0
22.5°	3872.9	3993.0	3988.5	3975.2	3997.4	4010.8	4095.3	4139.7	4108.6
25°	3419.4	3543.9	3530.5	3477.2	3481.6	3508.3	3615.0	3672.8	3650.6
27.5°	2943.6	3059.2	3028.1	2925.8	2899.1	2939.2	3077.0	3143.7	3130.4
30°	2485.6	2561.2	2512.3	2330.0	2298.9	2347.8	2525.6	2592.3	2556.8
32.5°	1992.0	2049.9	2027.6	1805.3	1751.9	1800.8	2009.8	2072.1	2032.1
35°	1591.9	1645.2	1614.1	1351.7	1302.8	1356.2	1574.1	1645.2	1609.6
37.5°	1276.2	1316.2	1276.2	996.0	951.6	1004.9	1213.9	1307.3	1262.8
40°	1013.8	1044.9	991.6	733.7	698.1	724.8	920.4	1013.8	982.7
42.5°	800.4	822.6	764.8	538.0	498.0	533.6	693.7	778.1	760.4
45°	649.2	649.2	578.0	373.5	324.6	360.2	520.2	609.2	613.6
47.5°	555.8	542.5	453.5	249.0	186.8	235.7	413.5	506.9	520.2
50°	480.2	462.4	373.5	182.3	120.1	169.0	342.4	435.8	449.1
52.5°	413.5	400.2	311.3	142.3	84.5	128.9	289.0	378.0	391.3
55°	346.8	337.9	257.9	111.2	66.7	97.8	231.2	306.8	315.7
57.5°	284.6	271.2	209.0	93.4	53.4	80.0	191.2	253.5	262.3
60°	240.1	226.8	169.0	75.6	44.5	62.3	155.6	209.0	217.9
62.5°	200.1	186.8	137.8	62.3	35.6	53.4	124.5	169.0	177.9
65°	160.1	151.2	106.7	48.9	31.1	40.0	97.8	133.4	142.3
67.5°	128.9	120.1	84.5	40.0	26.7	31.1	75.6	106.7	115.6
70°	97.8	88.9	62.3	31.1	22.2	26.7	57.8	80.0	88.9
72.5°	71.1	66.7	48.9	26.7	17.8	22.2	40.0	57.8	66.7
75°	53.4	48.9	35.6	17.8	13.3	17.8	31.1	44.5	48.9
77.5°	35.6	35.6	26.7	13.3	13.3	13.3	22.2	31.1	31.1
80°	26.7	22.2	17.8	8.9	8.9	8.9	13.3	22.2	22.2
82.5°	17.8	13.3	13.3	8.9	8.9	8.9	8.9	13.3	13.3
85°	8.9	8.9	8.9	4.4	4.4	4.4	4.4	8.9	8.9
87.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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)