

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: P859344

Luminaire Tested: **LD4C65D010 EU4659030 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859344
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 4LBMDSWWMH
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

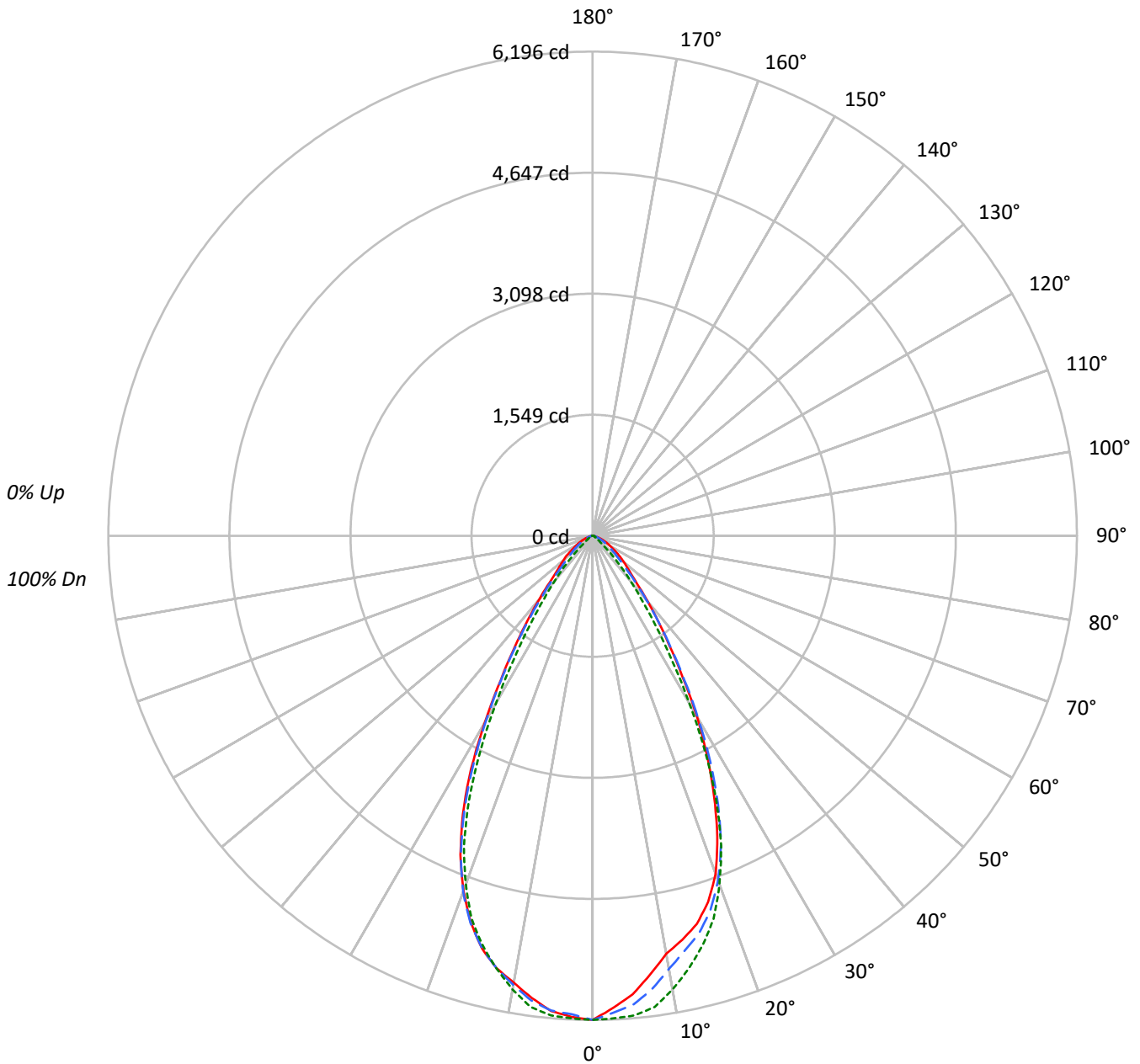
Lumens per Lamp: N/A
Luminaire Lumens: 5640.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	761139	761139	761139
5°	726285	759915	752836
10°	677385	735281	724528
15°	654111	690627	695498
20°	601695	620469	631726
25°	498702	507785	532428
30°	379373	350874	390240
35°	256865	210237	259744
40°	174936	120457	169563
45°	121358	60670	114704
50°	98755	24693	92352
55°	79935	15379	72760
60°	63466	11745	57594
65°	50058	9738	44506
70°	37824	8585	34375
75°	27246	6835	24968
80°	20305	6792	16909
85°	13532	6766	13532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.6	10.1
10°-20°	1496.6	26.5
20°-30°	1717.2	30.4
30°-40°	1043.2	18.5
40°-50°	447.1	7.9
50°-60°	214.5	3.8
60°-70°	104.3	1.8
70°-80°	38.7	0.7
80°-90°	8.9	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°	3783.4	67.1
0°-40°	4826.6	85.6
0°-60°	5488.1	97.3
0°-90°	5640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5640.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6196	6196	6196	6196	6196	
5°	5889	6018	6162	6100	6105	547
15°	5143	5263	5430	5464	5468	1432
25°	3679	3799	3746	3890	3928	1669
35°	1713	1737	1402	1694	1732	1098
45°	698	622	349	560	660	567
55°	373	278	72	249	340	337
65°	172	115	34	105	153	175
75°	57	38	14	34	53	63
85°	10	10	5	5	10	13
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°	6195.5	6195.5	6195.5	6195.5	6195.5	6195.5	6195.5	6195.5	6195.5
2.5°	6047.1	6114.1	6109.3	6166.8	6181.1	6166.8	6128.5	6166.8	6162.0
5°	5889.3	5965.8	6018.4	6114.1	6162.0	6152.4	6099.8	6109.3	6104.6
7.5°	5659.6	5755.3	5846.2	5989.7	6080.6	6075.9	5999.3	5985.0	5965.8
10°	5430.0	5520.9	5626.1	5774.5	5894.1	5913.2	5836.6	5817.5	5807.9
12.5°	5296.0	5367.8	5439.6	5568.7	5674.0	5712.3	5669.2	5674.0	5669.2
15°	5142.9	5214.7	5262.6	5358.2	5430.0	5482.6	5463.5	5492.2	5468.3
17.5°	4913.3	4999.4	5018.6	5090.3	5142.9	5176.4	5195.6	5224.3	5186.0
20°	4602.3	4669.3	4693.2	4721.9	4745.9	4788.9	4846.3	4875.0	4832.0
22.5°	4167.0	4296.2	4291.4	4277.0	4300.9	4315.3	4406.2	4454.0	4420.5
25°	3679.0	3813.0	3798.6	3741.2	3746.0	3774.7	3889.5	3951.7	3927.8
27.5°	3167.1	3291.5	3258.0	3148.0	3119.3	3162.3	3310.6	3382.4	3368.0
30°	2674.3	2755.7	2703.0	2506.9	2473.4	2526.0	2717.4	2789.2	2750.9
32.5°	2143.3	2205.5	2181.6	1942.4	1885.0	1937.6	2162.4	2229.4	2186.4
35°	1712.7	1770.1	1736.6	1454.4	1401.8	1459.2	1693.6	1770.1	1731.9
37.5°	1373.0	1416.1	1373.0	1071.6	1023.8	1081.2	1306.1	1406.5	1358.7
40°	1090.8	1124.3	1066.9	789.4	751.1	779.8	990.3	1090.8	1057.3
42.5°	861.1	885.1	822.9	578.9	535.8	574.1	746.3	837.2	818.1
45°	698.5	698.5	621.9	401.9	349.2	387.5	559.7	655.4	660.2
47.5°	598.0	583.7	488.0	267.9	200.9	253.6	444.9	545.4	559.7
50°	516.7	497.6	401.9	196.1	129.2	181.8	368.4	468.8	483.2
52.5°	444.9	430.6	334.9	153.1	90.9	138.7	311.0	406.7	421.0
55°	373.2	363.6	277.5	119.6	71.8	105.3	248.8	330.1	339.7
57.5°	306.2	291.8	224.9	100.5	57.4	86.1	205.7	272.7	282.3
60°	258.3	244.0	181.8	81.3	47.8	67.0	167.4	224.9	234.4
62.5°	215.3	200.9	148.3	67.0	38.3	57.4	134.0	181.8	191.4
65°	172.2	162.7	114.8	52.6	33.5	43.1	105.3	143.5	153.1
67.5°	138.7	129.2	90.9	43.1	28.7	33.5	81.3	114.8	124.4
70°	105.3	95.7	67.0	33.5	23.9	28.7	62.2	86.1	95.7
72.5°	76.5	71.8	52.6	28.7	19.1	23.9	43.1	62.2	71.8
75°	57.4	52.6	38.3	19.1	14.4	19.1	33.5	47.8	52.6
77.5°	38.3	38.3	28.7	14.4	14.4	14.4	23.9	33.5	33.5
80°	28.7	23.9	19.1	9.6	9.6	9.6	14.4	23.9	23.9
82.5°	19.1	14.4	14.4	9.6	9.6	9.6	9.6	14.4	14.4
85°	9.6	9.6	9.6	4.8	4.8	4.8	4.8	9.6	9.6
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
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)