

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: P859407

Luminaire Tested: **LD4C65D010 EU4659050 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859407
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 EU4659050 4LBMDSWWMH
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

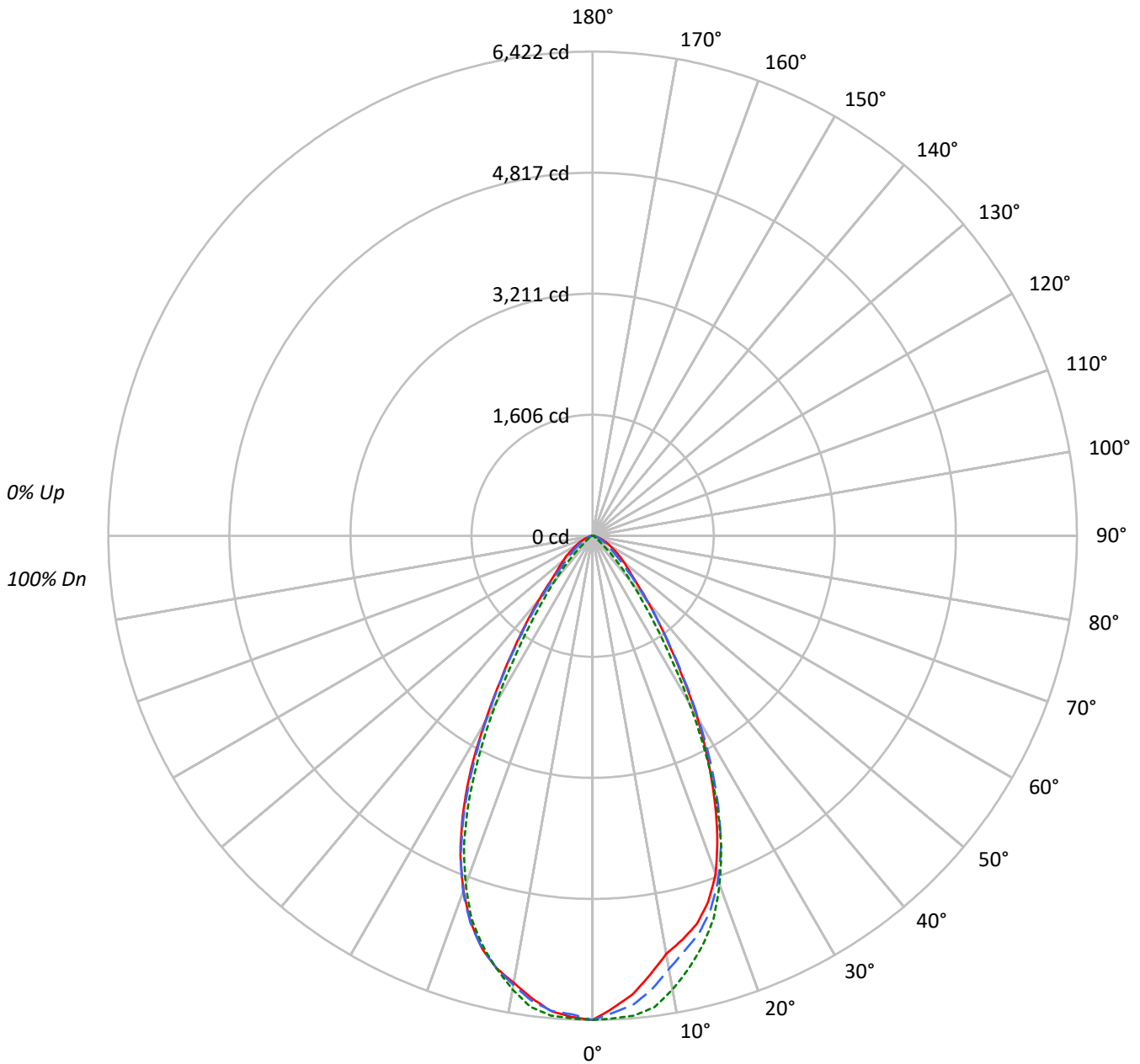
Lumens per Lamp: N/A
Luminaire Lumens: 5846.0 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78			78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72			72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67			67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62			62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58			58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55			55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51			51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48			48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	788928	788928	788928
5°	752811	787662	780325
10°	702123	762127	751000
15°	678010	715848	720897
20°	623672	643126	654801
25°	516921	526328	551867
30°	393233	363684	404497
35°	266253	217916	269223
40°	181319	124851	175754
45°	125789	62894	118891
50°	102367	25592	95716
55°	82848	15936	75416
60°	65800	12187	59707
65°	51889	10087	46133
70°	39189	8908	35633
75°	28243	7073	25869
80°	21083	7004	17546
85°	13955	7048	13955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.4	10.1
10°-20°	1551.3	26.5
20°-30°	1779.9	30.4
30°-40°	1081.2	18.5
40°-50°	463.4	7.9
50°-60°	222.3	3.8
60°-70°	108.1	1.8
70°-80°	40.1	0.7
80°-90°	9.2	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°	3921.6	67.1
0°-40°	5002.9	85.6
0°-60°	5688.6	97.3
0°-90°	5846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5846.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6422	6422	6422	6422	6422	
5°	6104	6238	6387	6323	6328	567
15°	5331	5455	5628	5663	5668	1484
25°	3813	3937	3883	4032	4071	1730
35°	1775	1800	1453	1755	1795	1138
45°	724	645	362	580	684	588
55°	387	288	74	258	352	349
65°	178	119	35	109	159	181
75°	60	40	15	35	54	65
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°	6421.7	6421.7	6421.7	6421.7	6421.7	6421.7	6421.7	6421.7	6421.7
2.5°	6268.0	6337.4	6332.5	6392.0	6406.9	6392.0	6352.3	6392.0	6387.0
5°	6104.4	6183.7	6238.3	6337.4	6387.0	6377.1	6322.6	6332.5	6327.5
7.5°	5866.4	5965.5	6059.7	6208.5	6302.7	6297.8	6218.4	6203.6	6183.7
10°	5628.3	5722.5	5831.6	5985.4	6109.3	6129.2	6049.8	6030.0	6020.1
12.5°	5489.5	5563.9	5638.2	5772.1	5881.2	5920.9	5876.3	5881.2	5876.3
15°	5330.8	5405.2	5454.8	5553.9	5628.3	5682.9	5663.0	5692.8	5668.0
17.5°	5092.8	5182.0	5201.9	5276.2	5330.8	5365.5	5385.3	5415.1	5375.4
20°	4770.4	4839.9	4864.7	4894.4	4919.2	4963.8	5023.3	5053.1	5008.5
22.5°	4319.2	4453.1	4448.1	4433.2	4458.0	4472.9	4567.1	4616.7	4582.0
25°	3813.4	3952.2	3937.3	3877.8	3882.8	3912.6	4031.6	4096.0	4071.2
27.5°	3282.8	3411.7	3377.0	3262.9	3233.2	3277.8	3431.5	3505.9	3491.0
30°	2772.0	2856.3	2801.8	2598.5	2563.7	2618.3	2816.6	2891.0	2851.4
32.5°	2221.6	2286.0	2261.2	2013.3	1953.8	2008.3	2241.4	2310.8	2266.2
35°	1775.3	1834.8	1800.1	1507.5	1453.0	1512.5	1755.4	1834.8	1795.1
37.5°	1423.2	1467.8	1423.2	1110.8	1061.2	1120.7	1353.8	1457.9	1408.3
40°	1130.6	1165.3	1105.8	818.2	778.5	808.3	1026.5	1130.6	1095.9
42.5°	892.6	917.4	852.9	600.0	555.4	595.1	773.6	867.8	848.0
45°	724.0	724.0	644.7	416.5	362.0	401.7	580.2	679.4	684.3
47.5°	619.9	605.0	505.8	277.7	208.3	262.8	461.2	565.3	580.2
50°	535.6	515.7	416.5	203.3	133.9	188.4	381.8	486.0	500.8
52.5°	461.2	446.3	347.1	158.7	94.2	143.8	322.3	421.5	436.4
55°	386.8	376.9	287.6	124.0	74.4	109.1	257.9	342.2	352.1
57.5°	317.4	302.5	233.1	104.1	59.5	89.3	213.2	282.7	292.6
60°	267.8	252.9	188.4	84.3	49.6	69.4	173.6	233.1	243.0
62.5°	223.1	208.3	153.7	69.4	39.7	59.5	138.8	188.4	198.4
65°	178.5	168.6	119.0	54.5	34.7	44.6	109.1	148.8	158.7
67.5°	143.8	133.9	94.2	44.6	29.8	34.7	84.3	119.0	128.9
70°	109.1	99.2	69.4	34.7	24.8	29.8	64.5	89.3	99.2
72.5°	79.3	74.4	54.5	29.8	19.8	24.8	44.6	64.5	74.4
75°	59.5	54.5	39.7	19.8	14.9	19.8	34.7	49.6	54.5
77.5°	39.7	39.7	29.8	14.9	14.9	14.9	24.8	34.7	34.7
80°	29.8	24.8	19.8	9.9	9.9	9.9	14.9	24.8	24.8
82.5°	19.8	14.9	14.9	9.9	9.9	9.9	9.9	14.9	14.9
85°	9.9	9.9	9.9	5.0	5.0	5.0	5.0	9.9	9.9
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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)