

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: P859323

Luminaire Tested: **LD4C65D010 EU4659027 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859323
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 EU4659027 4LBMDSWWMH
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

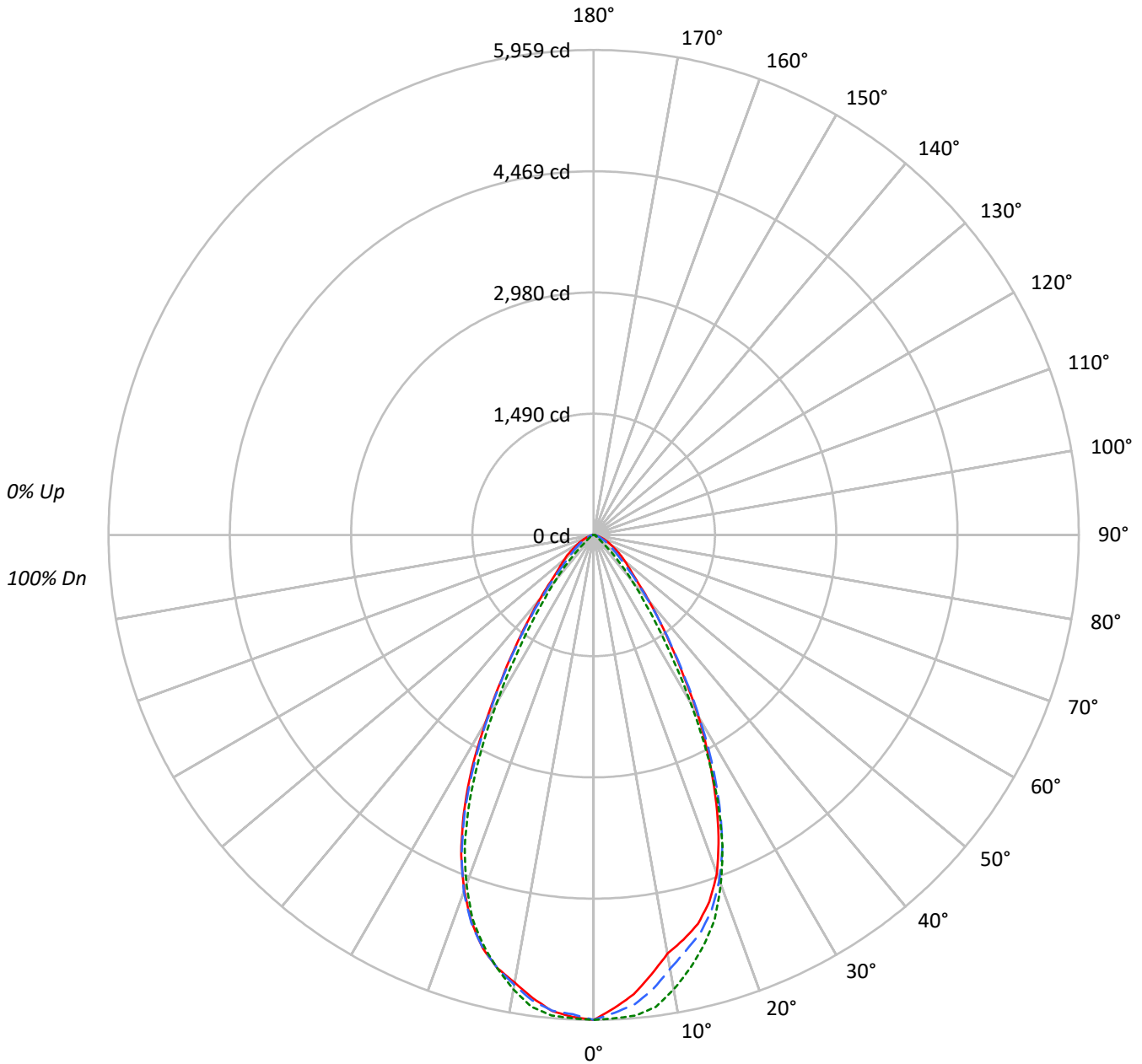
Lumens per Lamp: N/A
Luminaire Lumens: 5425.0 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	732121	732121	732121
5°	698599	730946	724139
10°	651562	707250	696909
15°	629183	664299	668980
20°	578764	596806	607644
25°	479698	488427	512122
30°	364918	337497	375359
35°	247071	202213	249831
40°	168264	115870	163100
45°	116737	58360	110326
50°	94990	23738	88835
55°	76872	14779	69975
60°	61058	11303	55407
65°	48168	9360	42820
70°	36351	8262	33046
75°	26202	6550	24018
80°	19527	6509	16272
85°	12968	6484	12968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.9	10.1
10°-20°	1439.6	26.5
20°-30°	1651.7	30.4
30°-40°	1003.4	18.5
40°-50°	430.0	7.9
50°-60°	206.3	3.8
60°-70°	100.3	1.8
70°-80°	37.2	0.7
80°-90°	8.6	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°	3639.2	67.1
0°-40°	4642.6	85.6
0°-60°	5278.9	97.3
0°-90°	5425.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5425.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5959	5959	5959	5959	5959	
5°	5665	5789	5927	5867	5872	526
15°	4947	5062	5223	5255	5260	1377
25°	3539	3654	3603	3741	3778	1605
35°	1647	1670	1348	1629	1666	1056
45°	672	598	336	538	635	546
55°	359	267	69	239	327	324
65°	166	110	32	101	147	168
75°	55	37	14	32	51	61
85°	9	9	5	5	9	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°	5959.3	5959.3	5959.3	5959.3	5959.3	5959.3	5959.3	5959.3	5959.3
2.5°	5816.6	5881.1	5876.5	5931.7	5945.5	5931.7	5894.9	5931.7	5927.1
5°	5664.8	5738.4	5789.0	5881.1	5927.1	5917.9	5867.2	5876.5	5871.9
7.5°	5443.9	5535.9	5623.4	5761.4	5848.8	5844.2	5770.6	5756.8	5738.4
10°	5223.0	5310.4	5411.7	5554.3	5669.4	5687.8	5614.2	5595.7	5586.5
12.5°	5094.2	5163.2	5232.2	5356.5	5457.7	5494.5	5453.1	5457.7	5453.1
15°	4946.9	5015.9	5061.9	5154.0	5223.0	5273.6	5255.2	5282.8	5259.8
17.5°	4726.0	4808.8	4827.2	4896.3	4946.9	4979.1	4997.5	5025.1	4988.3
20°	4426.9	4491.3	4514.3	4541.9	4564.9	4606.4	4661.6	4689.2	4647.8
22.5°	4008.1	4132.4	4127.8	4114.0	4137.0	4150.8	4238.2	4284.2	4252.0
25°	3538.8	3667.6	3653.8	3598.6	3603.2	3630.8	3741.2	3801.1	3778.0
27.5°	3046.4	3166.0	3133.8	3028.0	3000.3	3041.8	3184.4	3253.4	3239.6
30°	2572.4	2650.6	2600.0	2411.3	2379.1	2429.7	2613.8	2682.8	2646.0
32.5°	2061.6	2121.4	2098.4	1868.3	1813.1	1863.7	2080.0	2144.4	2103.0
35°	1647.4	1702.7	1670.4	1398.9	1348.3	1403.5	1629.0	1702.7	1665.8
37.5°	1320.7	1362.1	1320.7	1030.8	984.8	1040.0	1256.3	1352.9	1306.9
40°	1049.2	1081.4	1026.2	759.3	722.5	750.1	952.6	1049.2	1017.0
42.5°	828.3	851.3	791.5	556.8	515.4	552.2	717.9	805.3	786.9
45°	671.9	671.9	598.2	386.5	335.9	372.7	538.4	630.4	635.0
47.5°	575.2	561.4	469.4	257.7	193.3	243.9	428.0	524.6	538.4
50°	497.0	478.6	386.5	188.7	124.2	174.9	354.3	451.0	464.8
52.5°	428.0	414.2	322.1	147.3	87.4	133.5	299.1	391.1	405.0
55°	358.9	349.7	266.9	115.0	69.0	101.2	239.3	317.5	326.7
57.5°	294.5	280.7	216.3	96.6	55.2	82.8	197.9	262.3	271.5
60°	248.5	234.7	174.9	78.2	46.0	64.4	161.1	216.3	225.5
62.5°	207.1	193.3	142.7	64.4	36.8	55.2	128.8	174.9	184.1
65°	165.7	156.5	110.4	50.6	32.2	41.4	101.2	138.1	147.3
67.5°	133.5	124.2	87.4	41.4	27.6	32.2	78.2	110.4	119.6
70°	101.2	92.0	64.4	32.2	23.0	27.6	59.8	82.8	92.0
72.5°	73.6	69.0	50.6	27.6	18.4	23.0	41.4	59.8	69.0
75°	55.2	50.6	36.8	18.4	13.8	18.4	32.2	46.0	50.6
77.5°	36.8	36.8	27.6	13.8	13.8	13.8	23.0	32.2	32.2
80°	27.6	23.0	18.4	9.2	9.2	9.2	13.8	23.0	23.0
82.5°	18.4	13.8	13.8	9.2	9.2	9.2	9.2	13.8	13.8
85°	9.2	9.2	9.2	4.6	4.6	4.6	4.6	9.2	9.2
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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)