

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: P859619

Luminaire Tested: **LD4C08D010 EU4089027 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859619
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: LD4C08D010 EU4089027 4LBMDSWMW
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

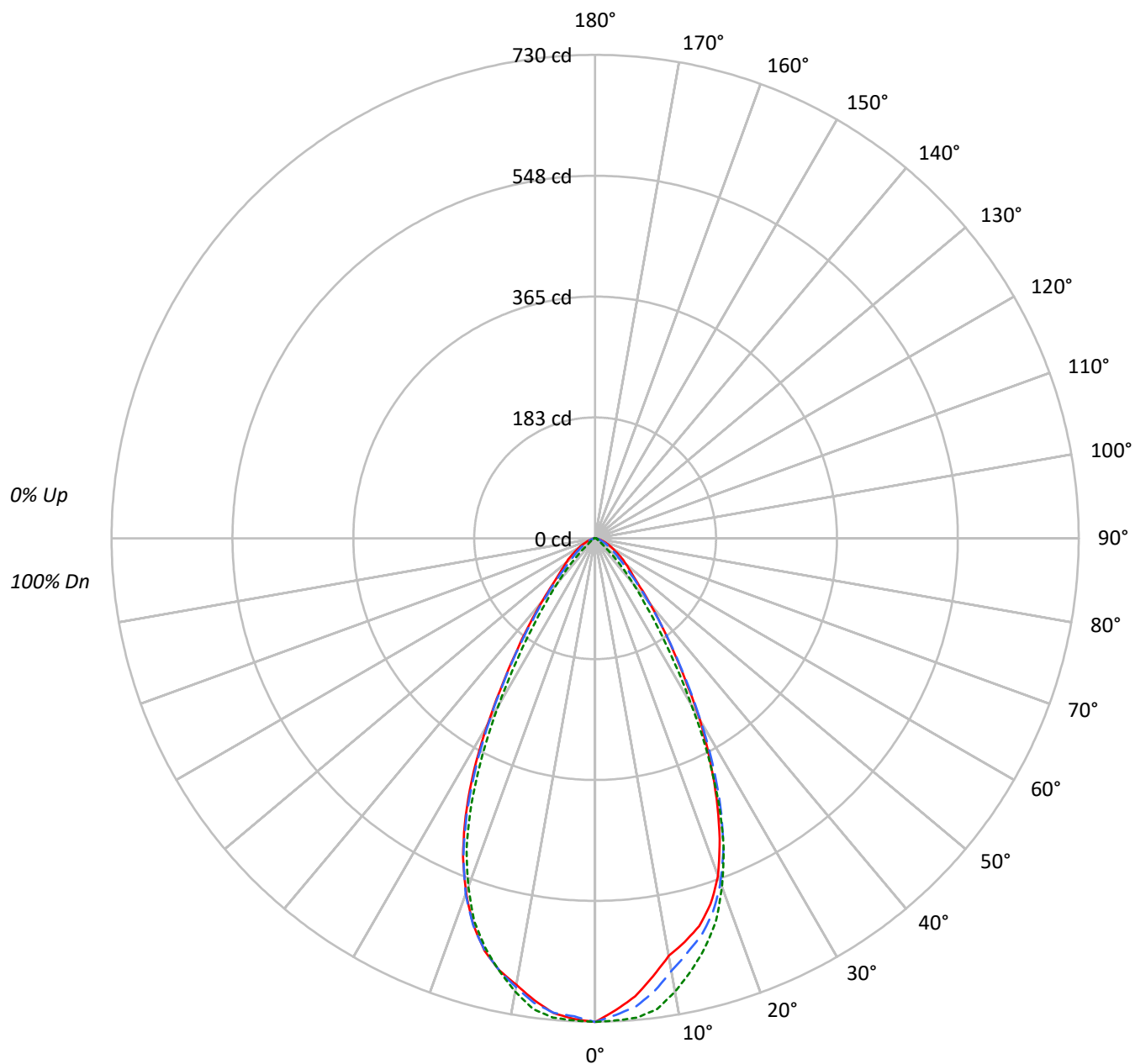
Lumens per Lamp: N/A
Luminaire Lumens: 665.0 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	93	97	93	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		85
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	91	82	75	71	89	81	75	71	79	74	70		77	73	69		76
6	86	76	70	66	84	76	70	65	74	69	65		73	68	64		71
7	81	72	65	61	80	71	65	61	70	64	60		68	64	60		67
8	77	67	61	57	76	67	61	57	66	60	56		65	60	56		64
9	74	63	57	53	72	63	57	53	62	57	53		61	56	53		60
10	70	60	54	50	69	60	54	50	59	53	50		58	53	50		57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	89744	89744	89744
5°	85635	89594	88768
10°	79864	86700	85428
15°	77126	81425	82010
20°	70951	73161	74481
25°	58803	59874	62775
30°	44728	41366	46019
35°	30280	24791	30625
40°	20624	14209	19999
45°	14316	7158	13517
50°	11640	2905	10894
55°	9424	1821	8589
60°	7494	1376	6782
65°	5901	1134	5262
70°	4454	1006	4059
75°	3228	807	2943
80°	2405	778	1981
85°	1551	846	1551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	10.1
10°-20°	176.5	26.5
20°-30°	202.5	30.4
30°-40°	123.0	18.5
40°-50°	52.7	7.9
50°-60°	25.3	3.8
60°-70°	12.3	1.8
70°-80°	4.6	0.7
80°-90°	1.1	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°	446.1	67.1
0°-40°	569.1	85.6
0°-60°	647.1	97.3
0°-90°	665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	665.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	730	730	730	730	730	
5°	694	710	726	719	720	65
15°	606	620	640	644	645	169
25°	434	448	442	459	463	197
35°	202	205	165	200	204	129
45°	82	73	41	66	78	67
55°	44	33	8	29	40	40
65°	20	14	4	12	18	21
75°	7	4	2	4	6	7
85°	1	1	1	1	1	2
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°	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5	730.5
2.5°	713.0	720.9	720.3	727.1	728.8	727.1	722.6	727.1	726.5
5°	694.4	703.4	709.6	720.9	726.5	725.4	719.2	720.3	719.8
7.5°	667.3	678.6	689.3	706.2	717.0	716.4	707.4	705.7	703.4
10°	640.2	651.0	663.4	680.9	695.0	697.2	688.2	685.9	684.8
12.5°	624.4	632.9	641.4	656.6	669.0	673.5	668.4	669.0	668.4
15°	606.4	614.9	620.5	631.8	640.2	646.4	644.2	647.6	644.8
17.5°	579.3	589.5	591.7	600.2	606.4	610.3	612.6	616.0	611.5
20°	542.7	550.5	553.4	556.8	559.6	564.7	571.4	574.8	569.7
22.5°	491.3	506.6	506.0	504.3	507.1	508.8	519.5	525.2	521.2
25°	433.8	449.6	447.9	441.1	441.7	445.1	458.6	465.9	463.1
27.5°	373.4	388.1	384.1	371.2	367.8	372.9	390.3	398.8	397.1
30°	315.3	324.9	318.7	295.6	291.6	297.8	320.4	328.9	324.4
32.5°	252.7	260.0	257.2	229.0	222.3	228.5	255.0	262.9	257.8
35°	201.9	208.7	204.8	171.5	165.3	172.0	199.7	208.7	204.2
37.5°	161.9	167.0	161.9	126.4	120.7	127.5	154.0	165.8	160.2
40°	128.6	132.6	125.8	93.1	88.6	91.9	116.8	128.6	124.7
42.5°	101.5	104.4	97.0	68.3	63.2	67.7	88.0	98.7	96.5
45°	82.4	82.4	73.3	47.4	41.2	45.7	66.0	77.3	77.8
47.5°	70.5	68.8	57.5	31.6	23.7	29.9	52.5	64.3	66.0
50°	60.9	58.7	47.4	23.1	15.2	21.4	43.4	55.3	57.0
52.5°	52.5	50.8	39.5	18.1	10.7	16.4	36.7	47.9	49.6
55°	44.0	42.9	32.7	14.1	8.5	12.4	29.3	38.9	40.1
57.5°	36.1	34.4	26.5	11.8	6.8	10.2	24.3	32.2	33.3
60°	30.5	28.8	21.4	9.6	5.6	7.9	19.7	26.5	27.6
62.5°	25.4	23.7	17.5	7.9	4.5	6.8	15.8	21.4	22.6
65°	20.3	19.2	13.5	6.2	3.9	5.1	12.4	16.9	18.1
67.5°	16.4	15.2	10.7	5.1	3.4	3.9	9.6	13.5	14.7
70°	12.4	11.3	7.9	3.9	2.8	3.4	7.3	10.2	11.3
72.5°	9.0	8.5	6.2	3.4	2.3	2.8	5.1	7.3	8.5
75°	6.8	6.2	4.5	2.3	1.7	2.3	3.9	5.6	6.2
77.5°	4.5	4.5	3.4	1.7	1.7	1.7	2.8	3.9	3.9
80°	3.4	2.8	2.3	1.1	1.1	1.1	1.7	2.8	2.8
82.5°	2.3	1.7	1.7	1.1	1.1	1.1	1.1	1.7	1.7
85°	1.1	1.1	1.1	0.6	0.6	0.6	0.6	1.1	1.1
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)