

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: P859690

Luminaire Tested: **LD4C08D010 EU4089040 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859690
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 EU4089040 4LBMDSWWMH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

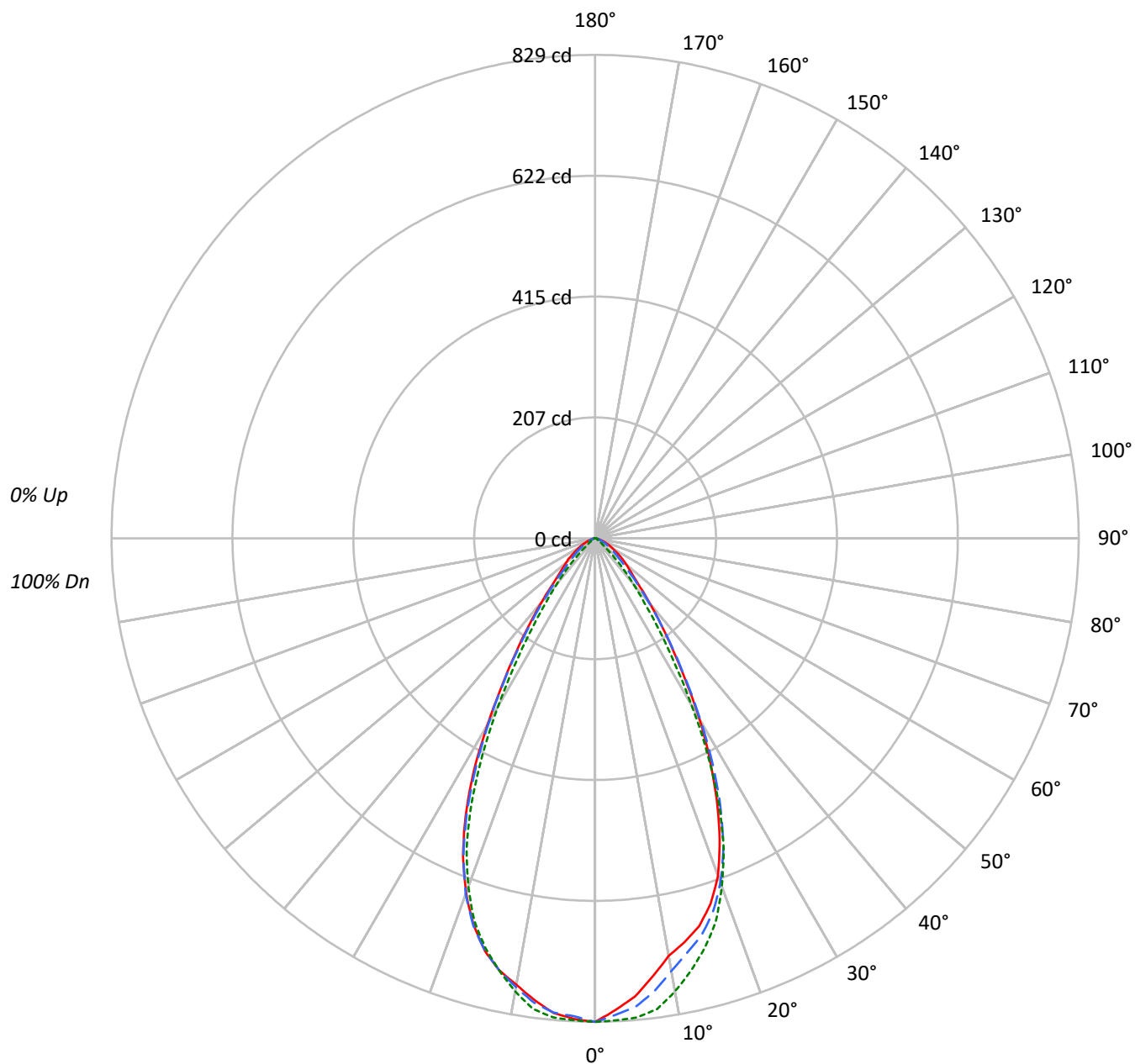
Lumens per Lamp: N/A
Luminaire Lumens: 755.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P859690

CATALOG NUMBER: LD4C08D010 EU4089040 4LBMDSWWMH

Luminous Intensity Polar Plot





TEST NUMBER: P859690

CATALOG NUMBER: LD4C08D010 EU4089040 4LBMSWWMH

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°	101895	101895	101895
5°	97228	101729	100779
10°	90680	98427	96992
15°	87568	92452	93101
20°	80548	83058	84561
25°	66760	67980	71274
30°	50786	46970	52232
35°	34390	28136	34765
40°	23415	16118	22693
45°	16245	8131	15359
50°	13226	3306	12366
55°	10709	2056	9746
60°	8501	1573	7715
65°	6715	1308	5959
70°	5065	1149	4598
75°	3655	902	3323
80°	2688	920	2264
85°	1832	846	1832



TEST NUMBER: P859690

CATALOG NUMBER: LD4C08D010 EU4089040 4LBMDSWWMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	10.1
10°-20°	200.3	26.5
20°-30°	229.9	30.4
30°-40°	139.6	18.5
40°-50°	59.9	7.9
50°-60°	28.7	3.8
60°-70°	14.0	1.8
70°-80°	5.2	0.7
80°-90°	1.2	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°	506.5	67.1
0°-40°	646.1	85.6
0°-60°	734.7	97.3
0°-90°	755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	829	829	829	829	829	
5°	788	806	825	816	817	73
15°	688	704	727	731	732	192
25°	492	508	502	521	526	223
35°	229	232	188	227	232	147
45°	94	83	47	75	88	76
55°	50	37	10	33	46	45
65°	23	15	4	14	20	23
75°	8	5	2	4	7	8
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



TEST NUMBER: P859690

CATALOG NUMBER: LD4C08D010 EU4089040 4LBMSWWMH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	829.4	829.4	829.4	829.4	829.4	829.4	829.4	829.4	829.4
2.5°	809.5	818.5	817.8	825.5	827.4	825.5	820.4	825.5	824.9
5°	788.4	798.6	805.7	818.5	824.9	823.6	816.5	817.8	817.2
7.5°	757.6	770.4	782.6	801.8	814.0	813.3	803.1	801.2	798.6
10°	726.9	739.1	753.1	773.0	789.0	791.6	781.3	778.8	777.5
12.5°	709.0	718.6	728.2	745.5	759.5	764.7	758.9	759.5	758.9
15°	688.5	698.1	704.5	717.3	726.9	733.9	731.4	735.2	732.0
17.5°	657.7	669.2	671.8	681.4	688.5	692.9	695.5	699.3	694.2
20°	616.1	625.1	628.3	632.1	635.3	641.1	648.8	652.6	646.8
22.5°	557.8	575.1	574.5	572.5	575.7	577.7	589.8	596.2	591.8
25°	492.5	510.4	508.5	500.8	501.5	505.3	520.7	529.0	525.8
27.5°	424.0	440.6	436.1	421.4	417.6	423.3	443.2	452.8	450.9
30°	358.0	368.9	361.8	335.6	331.1	338.1	363.8	373.4	368.2
32.5°	286.9	295.2	292.0	260.0	252.3	259.4	289.5	298.4	292.7
35°	229.3	237.0	232.5	194.7	187.6	195.3	226.7	237.0	231.8
37.5°	183.8	189.6	183.8	143.5	137.1	144.7	174.8	188.3	181.9
40°	146.0	150.5	142.8	105.7	100.5	104.4	132.6	146.0	141.5
42.5°	115.3	118.5	110.2	77.5	71.7	76.9	99.9	112.1	109.5
45°	93.5	93.5	83.3	53.8	46.8	51.9	74.9	87.7	88.4
47.5°	80.1	78.1	65.3	35.9	26.9	33.9	59.6	73.0	74.9
50°	69.2	66.6	53.8	26.3	17.3	24.3	49.3	62.8	64.7
52.5°	59.6	57.6	44.8	20.5	12.2	18.6	41.6	54.4	56.4
55°	50.0	48.7	37.1	16.0	9.6	14.1	33.3	44.2	45.5
57.5°	41.0	39.1	30.1	13.4	7.7	11.5	27.5	36.5	37.8
60°	34.6	32.7	24.3	10.9	6.4	9.0	22.4	30.1	31.4
62.5°	28.8	26.9	19.9	9.0	5.1	7.7	17.9	24.3	25.6
65°	23.1	21.8	15.4	7.0	4.5	5.8	14.1	19.2	20.5
67.5°	18.6	17.3	12.2	5.8	3.8	4.5	10.9	15.4	16.7
70°	14.1	12.8	9.0	4.5	3.2	3.8	8.3	11.5	12.8
72.5°	10.2	9.6	7.0	3.8	2.6	3.2	5.8	8.3	9.6
75°	7.7	7.0	5.1	2.6	1.9	2.6	4.5	6.4	7.0
77.5°	5.1	5.1	3.8	1.9	1.9	1.9	3.2	4.5	4.5
80°	3.8	3.2	2.6	1.3	1.3	1.3	1.9	3.2	3.2
82.5°	2.6	1.9	1.9	1.3	1.3	1.3	1.3	1.9	1.9
85°	1.3	1.3	1.3	0.6	0.6	0.6	0.6	1.3	1.3
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)