

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: P859711

Luminaire Tested: **LD4C08D010 EU4089050 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859711
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 EU4089050 4LBMDSWMW
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

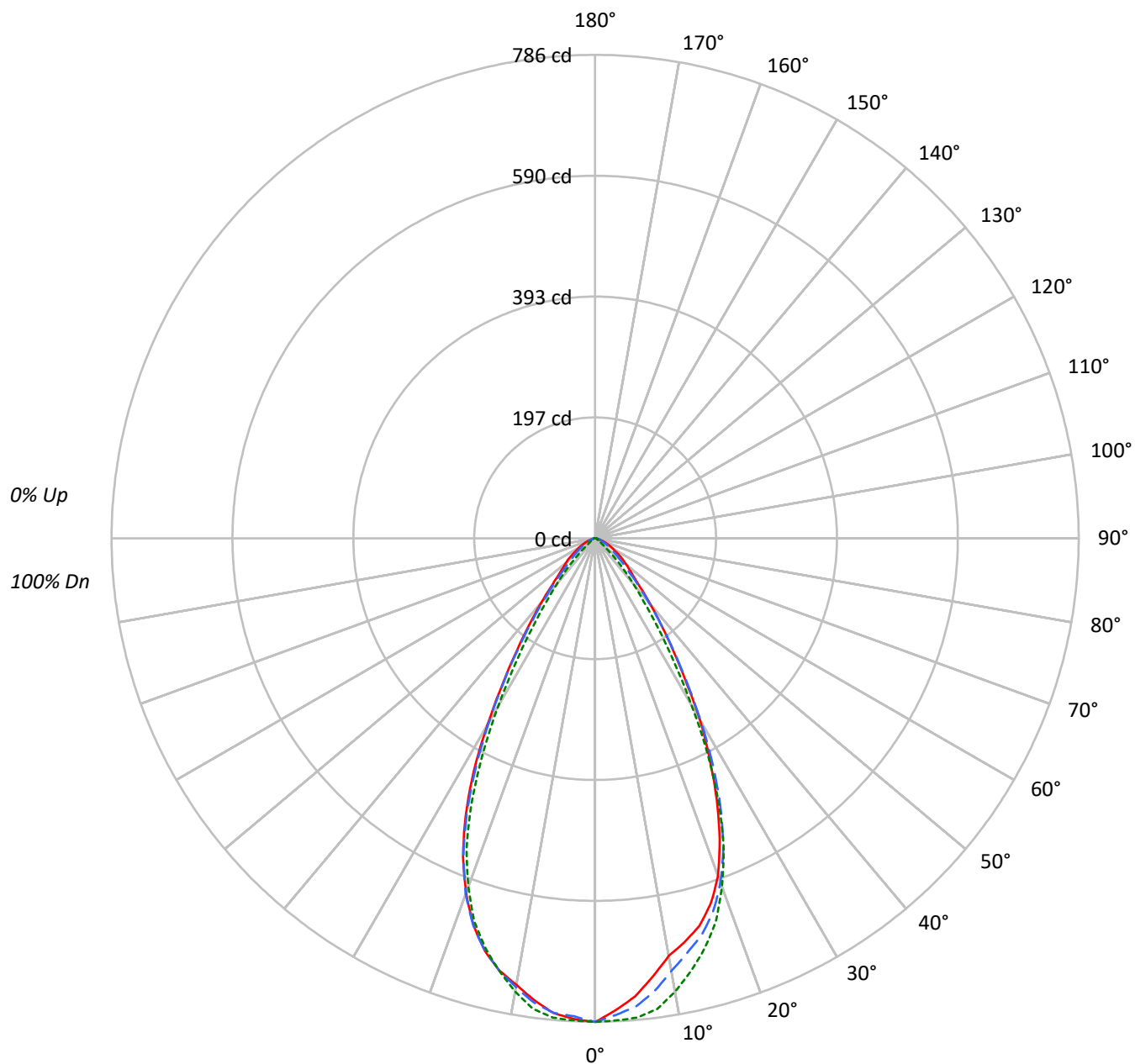
Lumens per Lamp: N/A
Luminaire Lumens: 716.0 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67		
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62		
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58		
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51		
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	96624	96624	96624
5°	92196	96475	95575
10°	85989	93349	91977
15°	83041	87670	88293
20°	76390	78770	80195
25°	63317	64469	67587
30°	48161	44544	49537
35°	32605	26696	32980
40°	22212	15300	21522
45°	15411	7697	14560
50°	12538	3134	11716
55°	10153	1949	9232
60°	8059	1499	7322
65°	6366	1250	5640
70°	4813	1078	4346
75°	3465	854	3180
80°	2547	849	2122
85°	1692	846	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	10.1
10°-20°	190.0	26.5
20°-30°	218.0	30.4
30°-40°	132.4	18.5
40°-50°	56.8	7.9
50°-60°	27.2	3.8
60°-70°	13.2	1.8
70°-80°	4.9	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°	480.3	67.1
0°-40°	612.7	85.6
0°-60°	696.7	97.3
0°-90°	716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	716.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	786	786	786	786	786	
5°	748	764	782	774	775	69
15°	653	668	689	694	694	182
25°	467	482	476	494	499	212
35°	217	220	178	215	220	139
45°	89	79	44	71	84	72
55°	47	35	9	32	43	43
65°	22	15	4	13	19	22
75°	7	5	2	4	7	8
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°	786.5	786.5	786.5	786.5	786.5	786.5	786.5	786.5	786.5
2.5°	767.7	776.2	775.6	782.9	784.7	782.9	778.0	782.9	782.3
5°	747.6	757.4	764.0	776.2	782.3	781.0	774.4	775.6	775.0
7.5°	718.5	730.6	742.2	760.4	771.9	771.3	761.6	759.8	757.4
10°	689.3	700.9	714.2	733.1	748.3	750.7	741.0	738.5	737.3
12.5°	672.3	681.4	690.6	707.0	720.3	725.2	719.7	720.3	719.7
15°	652.9	662.0	668.1	680.2	689.3	696.0	693.6	697.2	694.2
17.5°	623.7	634.7	637.1	646.2	652.9	657.2	659.6	663.2	658.4
20°	584.3	592.8	595.8	599.5	602.5	608.0	615.2	618.9	613.4
22.5°	529.0	545.4	544.8	543.0	546.0	547.8	559.4	565.4	561.2
25°	467.1	484.1	482.2	474.9	475.6	479.2	493.8	501.7	498.6
27.5°	402.1	417.9	413.6	399.6	396.0	401.5	420.3	429.4	427.6
30°	339.5	349.8	343.2	318.3	314.0	320.7	345.0	354.1	349.2
32.5°	272.1	280.0	277.0	246.6	239.3	246.0	274.5	283.0	277.6
35°	217.4	224.7	220.5	184.6	178.0	185.2	215.0	224.7	219.9
37.5°	174.3	179.8	174.3	136.0	130.0	137.3	165.8	178.6	172.5
40°	138.5	142.7	135.4	100.2	95.4	99.0	125.7	138.5	134.2
42.5°	109.3	112.4	104.5	73.5	68.0	72.9	94.7	106.3	103.9
45°	88.7	88.7	79.0	51.0	44.3	49.2	71.1	83.2	83.8
47.5°	75.9	74.1	61.9	34.0	25.5	32.2	56.5	69.2	71.1
50°	65.6	63.2	51.0	24.9	16.4	23.1	46.8	59.5	61.3
52.5°	56.5	54.7	42.5	19.4	11.5	17.6	39.5	51.6	53.4
55°	47.4	46.2	35.2	15.2	9.1	13.4	31.6	41.9	43.1
57.5°	38.9	37.0	28.5	12.8	7.3	10.9	26.1	34.6	35.8
60°	32.8	31.0	23.1	10.3	6.1	8.5	21.3	28.5	29.8
62.5°	27.3	25.5	18.8	8.5	4.9	7.3	17.0	23.1	24.3
65°	21.9	20.6	14.6	6.7	4.3	5.5	13.4	18.2	19.4
67.5°	17.6	16.4	11.5	5.5	3.6	4.3	10.3	14.6	15.8
70°	13.4	12.1	8.5	4.3	3.0	3.6	7.9	10.9	12.1
72.5°	9.7	9.1	6.7	3.6	2.4	3.0	5.5	7.9	9.1
75°	7.3	6.7	4.9	2.4	1.8	2.4	4.3	6.1	6.7
77.5°	4.9	4.9	3.6	1.8	1.8	1.8	3.0	4.3	4.3
80°	3.6	3.0	2.4	1.2	1.2	1.2	1.8	3.0	3.0
82.5°	2.4	1.8	1.8	1.2	1.2	1.2	1.2	1.8	1.8
85°	1.2	1.2	1.2	0.6	0.6	0.6	0.6	1.2	1.2
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)