

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: P859710

Luminaire Tested: **LD4C08D010 EU4089050 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C08D010 EU4089050 4LBMDSWLI
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

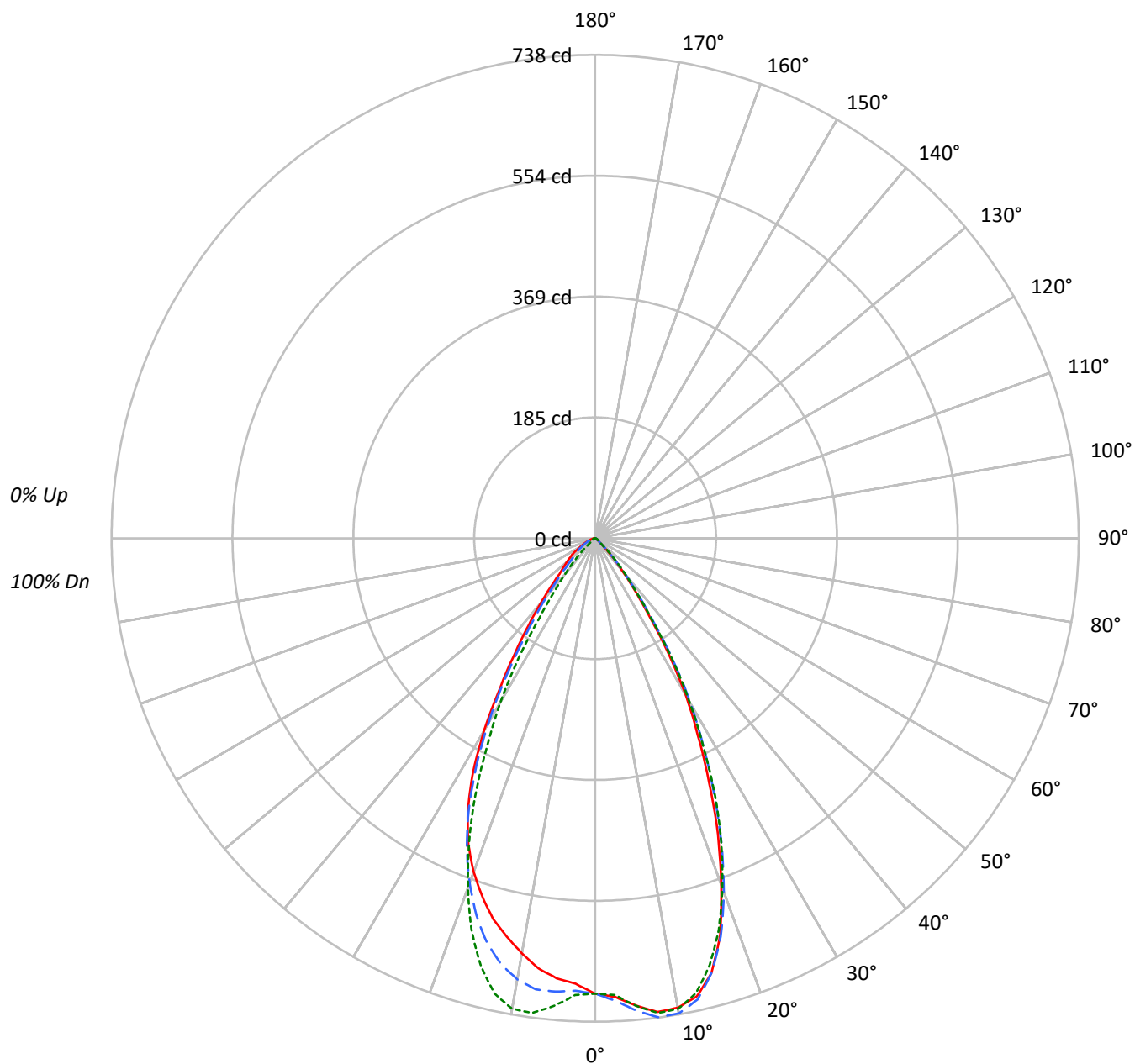
Lumens per Lamp: N/A
Luminaire Lumens: 618.0 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	111	108	106	111	108	106	104		104	103	101			101	99	98			97
2	108	103	99	95	105	101	97	94		98	95	92			95	92	90			92
3	102	96	91	87	100	94	90	86		92	88	85			89	86	83			87
4	97	89	84	80	95	88	83	79		86	82	78			84	80	77			82
5	92	84	78	74	91	83	77	73		81	76	73			79	75	72			78
6	88	79	73	68	86	78	72	68		76	71	68			75	71	67			74
7	83	74	68	64	82	73	68	64		72	67	63			71	66	63			70
8	79	70	64	60	78	69	64	60		68	63	59			67	63	59			66
9	76	66	60	56	75	66	60	56		65	59	56			64	59	56			63
10	72	63	57	53	71	62	57	53		61	56	53			61	56	53			60

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	85395	85395	85395
5°	88299	88361	83144
10°	90755	90992	80251
15°	87314	85813	76490
20°	73527	74207	70847
25°	55848	58695	62368
30°	39281	40898	47991
35°	21192	22197	31750
40°	10232	11290	20608
45°	3631	4952	13395
50°	1357	1720	10722
55°	1028	1221	8867
60°	811	934	6438
65°	698	843	4971
70°	503	682	3915
75°	475	665	2943
80°	354	707	2052
85°	0	705	1410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	11.0
10°-20°	182.6	29.5
20°-30°	198.1	32.0
30°-40°	109.9	17.8
40°-50°	35.0	5.7
50°-60°	14.1	2.3
60°-70°	7.1	1.2
70°-80°	3.0	0.5
80°-90°	0.6	0.1
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°	448.3	72.5
0°-40°	558.2	90.3
0°-60°	607.3	98.3
0°-90°	618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	618.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	695	695	695	695	695	
5°	716	724	716	695	674	69
15°	686	687	675	638	601	188
25°	412	429	433	456	460	188
35°	141	153	148	196	212	94
45°	21	25	28	64	77	20
55°	5	5	6	30	41	4
65°	2	2	3	14	17	2
75°	1	1	1	5	6	1
85°	0	0	0	1	1	0
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°	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1
2.5°	700.8	707.0	706.5	701.8	698.0	696.5	691.3	685.1	680.8
5°	716.0	723.7	723.7	719.9	716.5	708.4	694.6	681.3	674.2
7.5°	729.4	737.0	737.5	734.6	730.8	717.5	694.6	673.2	662.3
10°	727.5	733.2	736.5	733.6	729.4	711.8	683.7	655.1	643.3
12.5°	716.5	721.8	721.3	717.0	711.3	693.2	665.6	636.1	622.8
15°	686.5	689.4	687.0	682.3	674.7	660.9	638.5	613.3	601.4
17.5°	634.7	638.5	637.5	629.9	627.1	613.8	603.3	583.8	573.3
20°	562.4	574.3	574.3	568.6	567.6	558.6	560.0	549.5	541.9
22.5°	489.6	500.0	503.4	501.0	502.9	498.6	511.9	509.1	505.3
25°	412.0	422.5	429.2	428.2	433.0	433.0	456.3	462.0	460.1
27.5°	339.2	349.2	356.8	358.7	355.9	361.1	393.0	404.4	404.4
30°	276.9	285.0	292.1	292.1	288.3	292.1	325.9	339.2	338.3
32.5°	206.5	215.5	222.2	221.2	217.9	223.1	258.8	272.1	268.8
35°	141.3	147.5	152.7	150.8	148.0	156.5	195.5	212.2	211.7
37.5°	95.6	101.3	104.7	103.2	102.3	112.3	148.0	166.5	165.6
40°	63.8	67.6	69.9	69.5	70.4	79.0	111.3	128.5	128.5
42.5°	40.4	42.8	45.2	45.2	47.6	56.6	84.7	99.4	99.4
45°	20.9	22.4	24.7	26.2	28.5	38.1	63.8	76.1	77.1
47.5°	10.0	10.5	11.4	11.9	13.8	23.8	49.0	62.3	65.2
50°	7.1	7.6	7.6	7.6	9.0	18.1	41.4	53.8	56.1
52.5°	5.7	5.7	5.7	6.2	7.1	15.2	35.7	46.6	48.5
55°	4.8	4.8	4.8	4.8	5.7	12.4	30.4	40.0	41.4
57.5°	3.8	3.8	3.8	3.8	4.8	10.0	25.2	31.9	32.4
60°	3.3	3.3	3.3	3.3	3.8	8.6	20.5	26.2	26.2
62.5°	2.9	2.9	2.9	2.9	3.3	7.1	17.1	21.4	20.9
65°	2.4	2.4	2.4	2.4	2.9	5.7	13.8	17.1	17.1
67.5°	1.9	1.9	1.9	1.9	2.4	4.8	10.9	13.8	13.8
70°	1.4	1.4	1.4	1.4	1.9	3.8	9.0	10.9	10.9
72.5°	1.4	1.4	1.4	1.4	1.4	2.9	6.7	8.6	8.1
75°	1.0	1.0	1.0	1.0	1.4	2.4	4.8	6.2	6.2
77.5°	1.0	1.0	1.0	1.0	1.0	1.9	3.8	4.3	4.3
80°	0.5	0.5	0.5	0.5	1.0	1.4	2.4	2.9	2.9
82.5°	0.0	0.5	0.0	0.5	0.5	1.0	1.9	1.9	1.9
85°	0.0	0.0	0.0	0.0	0.5	0.5	1.0	1.4	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
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)