

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: P856711

Luminaire Tested: **LD4C10D010 EU4109030 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856711
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: LD4C10D010 EU4109030 4LBMDSWLI
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

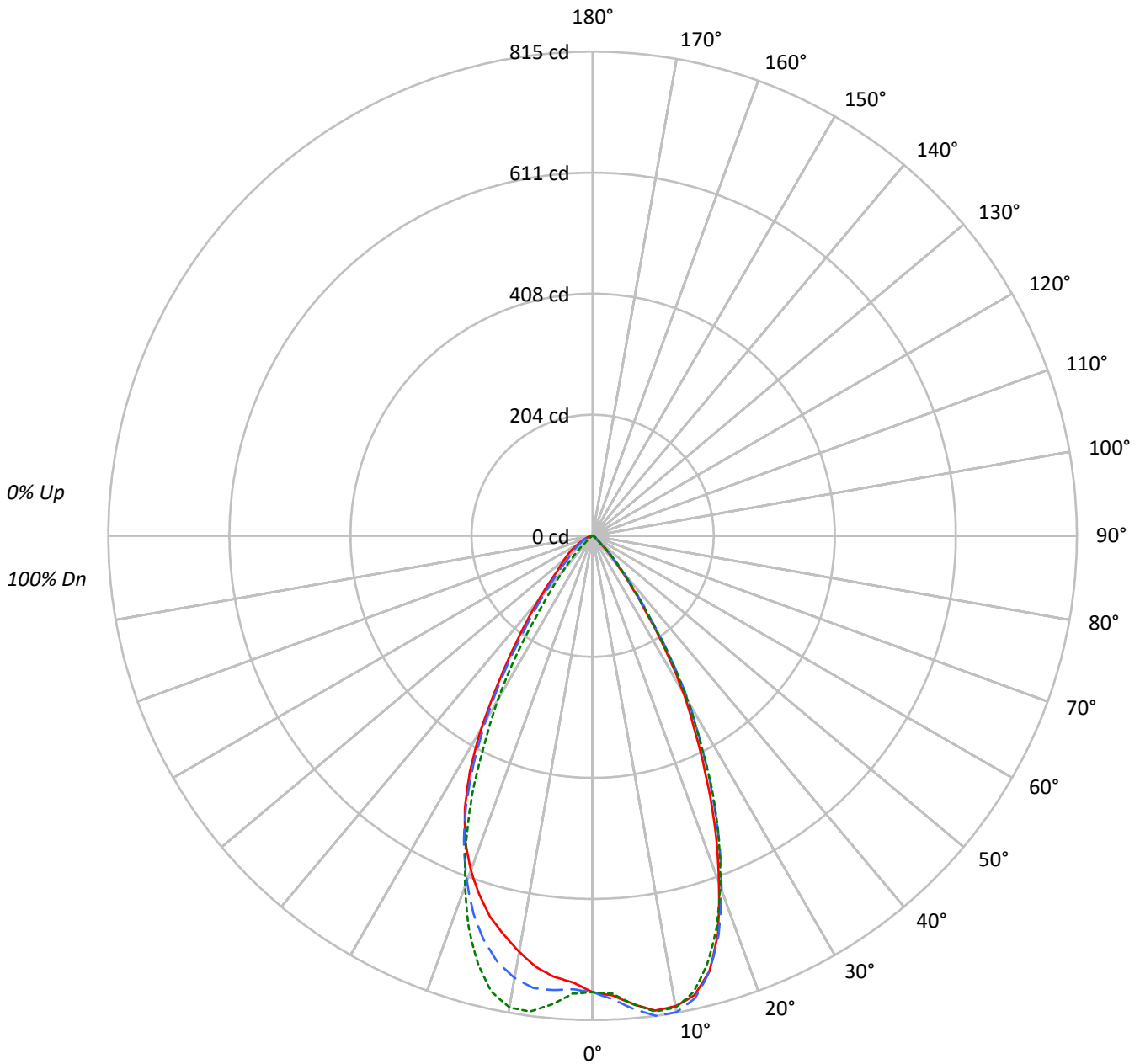
Lumens per Lamp: N/A
Luminaire Lumens: 683.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58																			
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	56	54																			
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	94376	94376	94376
5°	97598	97659	91888
10°	100298	100560	88684
15°	96510	94831	84529
20°	81254	82012	78299
25°	61731	64862	68929
30°	43409	45196	53041
35°	23426	24521	35094
40°	11306	12477	22773
45°	4013	5473	14803
50°	1510	1911	11850
55°	1135	1349	9788
60°	909	1032	7101
65°	756	930	5494
70°	575	754	4346
75°	522	759	3228
80°	354	778	2264
85°	0	705	1551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	11.0
10°-20°	201.8	29.5
20°-30°	218.9	32.0
30°-40°	121.4	17.8
40°-50°	38.7	5.7
50°-60°	15.6	2.3
60°-70°	7.9	1.2
70°-80°	3.3	0.5
80°-90°	0.7	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°	495.5	72.5
0°-40°	616.9	90.3
0°-60°	671.2	98.3
0°-90°	683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	683.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	768	768	768	768	768	
5°	791	800	792	768	745	76
15°	759	759	746	706	665	207
25°	455	474	478	504	508	208
35°	156	169	164	216	234	104
45°	23	27	32	70	85	22
55°	5	5	6	34	46	5
65°	3	3	3	15	19	3
75°	1	1	2	5	7	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°	768.2	768.2	768.2	768.2	768.2	768.2	768.2	768.2	768.2
2.5°	774.5	781.4	780.8	775.6	771.4	769.8	764.0	757.2	752.4
5°	791.4	799.8	799.8	795.6	791.9	782.9	767.7	753.0	745.1
7.5°	806.1	814.5	815.0	811.9	807.7	792.9	767.7	744.0	731.9
10°	804.0	810.3	814.0	810.8	806.1	786.6	755.6	724.1	710.9
12.5°	791.9	797.7	797.1	792.4	786.1	766.1	735.6	703.0	688.3
15°	758.8	761.9	759.3	754.0	745.6	730.4	705.6	677.8	664.6
17.5°	701.4	705.6	704.6	696.2	693.0	678.3	666.7	645.2	633.6
20°	621.5	634.7	634.7	628.4	627.3	617.3	618.9	607.3	598.9
22.5°	541.1	552.6	556.3	553.7	555.8	551.1	565.8	562.6	558.4
25°	455.4	466.9	474.3	473.2	478.5	478.5	504.3	510.6	508.5
27.5°	374.9	386.0	394.4	396.5	393.3	399.1	434.3	446.9	446.9
30°	306.0	315.0	322.9	322.9	318.6	322.9	360.2	374.9	373.9
32.5°	228.2	238.2	245.6	244.5	240.8	246.6	286.0	300.8	297.1
35°	156.2	163.0	168.8	166.7	163.5	173.0	216.1	234.5	234.0
37.5°	105.7	112.0	115.7	114.1	113.1	124.1	163.5	184.0	183.0
40°	70.5	74.7	77.3	76.8	77.8	87.3	123.0	142.0	142.0
42.5°	44.7	47.3	50.0	50.0	52.6	62.6	93.6	109.9	109.9
45°	23.1	24.7	27.3	28.9	31.5	42.1	70.5	84.1	85.2
47.5°	11.0	11.6	12.6	13.1	15.2	26.3	54.2	68.9	72.0
50°	7.9	8.4	8.4	8.4	10.0	20.0	45.7	59.4	62.0
52.5°	6.3	6.3	6.3	6.8	7.9	16.8	39.4	51.5	53.6
55°	5.3	5.3	5.3	5.3	6.3	13.7	33.7	44.2	45.7
57.5°	4.2	4.2	4.2	4.2	5.3	11.0	27.9	35.2	35.8
60°	3.7	3.7	3.7	3.7	4.2	9.5	22.6	28.9	28.9
62.5°	3.2	3.2	3.2	3.2	3.7	7.9	18.9	23.7	23.1
65°	2.6	2.6	2.6	2.6	3.2	6.3	15.2	18.9	18.9
67.5°	2.1	2.1	2.1	2.1	2.6	5.3	12.1	15.2	15.2
70°	1.6	1.6	1.6	1.6	2.1	4.2	10.0	12.1	12.1
72.5°	1.6	1.6	1.6	1.6	1.6	3.2	7.4	9.5	8.9
75°	1.1	1.1	1.1	1.1	1.6	2.6	5.3	6.8	6.8
77.5°	1.1	1.1	1.1	1.1	1.1	2.1	4.2	4.7	4.7
80°	0.5	0.5	0.5	0.5	1.1	1.6	2.6	3.2	3.2
82.5°	0.0	0.5	0.0	0.5	0.5	1.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.5	0.5	1.1	1.6	1.1
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)