

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: P856781

Luminaire Tested: **LD4C10D010 EU4109050 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856781
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 EU4109050 4LBMDSWLI
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

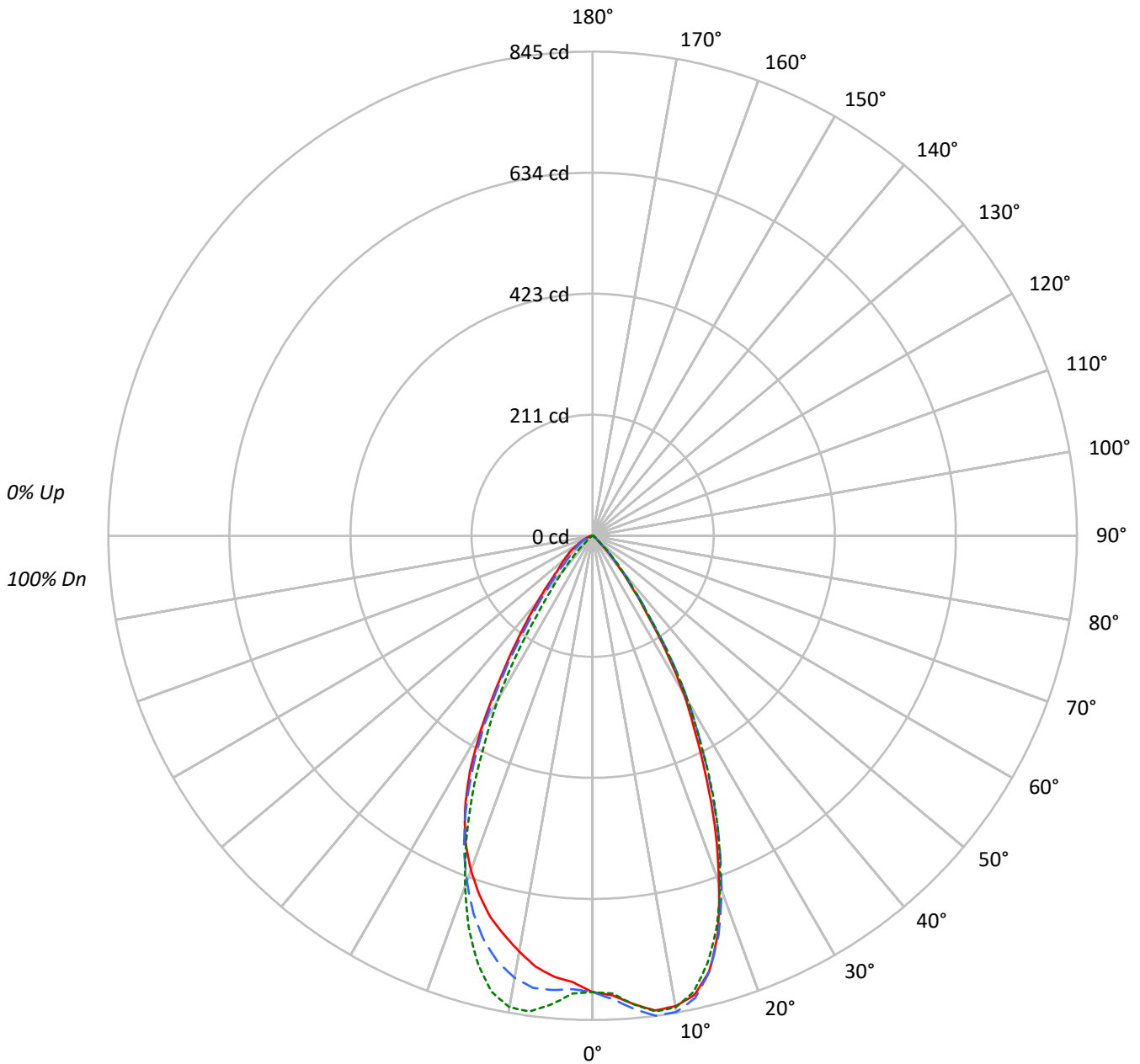
Lumens per Lamp: N/A
Luminaire Lumens: 708.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	60	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°	97828	97828	97828
5°	101162	101236	95254
10°	103966	104240	91927
15°	100033	98303	87632
20°	84234	85019	81162
25°	63981	67235	71450
30°	44998	46856	54970
35°	24281	25421	36384
40°	11707	12942	23607
45°	4170	5681	15341
50°	1567	1988	12289
55°	1178	1392	10153
60°	934	1081	7371
65°	785	959	5698
70°	575	790	4490
75°	522	759	3370
80°	354	778	2335
85°	0	705	1551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	11.0
10°-20°	209.2	29.5
20°-30°	226.9	32.0
30°-40°	125.9	17.8
40°-50°	40.1	5.7
50°-60°	16.2	2.3
60°-70°	8.2	1.2
70°-80°	3.4	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°	513.6	72.5
0°-40°	639.5	90.3
0°-60°	695.8	98.3
0°-90°	708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	708.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	796	796	796	796	796	
5°	820	829	821	796	772	79
15°	786	787	773	732	689	215
25°	472	492	496	523	527	216
35°	162	175	170	224	243	107
45°	24	28	33	73	88	23
55°	6	6	6	35	47	5
65°	3	3	3	16	20	3
75°	1	1	2	6	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°	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3
2.5°	802.9	810.0	809.4	804.0	799.6	798.0	792.0	784.9	780.0
5°	820.3	829.0	829.0	824.7	820.9	811.6	795.8	780.5	772.4
7.5°	835.6	844.3	844.9	841.6	837.2	822.0	795.8	771.3	758.7
10°	833.4	839.9	843.8	840.5	835.6	815.4	783.3	750.6	736.9
12.5°	820.9	826.9	826.3	821.4	814.9	794.2	762.5	728.8	713.5
15°	786.5	789.8	787.1	781.6	772.9	757.1	731.5	702.6	689.0
17.5°	727.1	731.5	730.4	721.7	718.4	703.1	691.1	668.8	656.8
20°	644.3	657.9	657.9	651.4	650.3	639.9	641.5	629.6	620.8
22.5°	560.9	572.9	576.7	574.0	576.1	571.2	586.5	583.2	578.9
25°	472.0	484.0	491.6	490.6	496.0	496.0	522.7	529.3	527.1
27.5°	388.6	400.1	408.8	411.0	407.7	413.7	450.2	463.3	463.3
30°	317.2	326.5	334.7	334.7	330.3	334.7	373.4	388.6	387.5
32.5°	236.6	246.9	254.5	253.5	249.6	255.6	296.5	311.8	308.0
35°	161.9	169.0	175.0	172.8	169.5	179.3	224.0	243.1	242.6
37.5°	109.6	116.1	119.9	118.3	117.2	128.6	169.5	190.8	189.7
40°	73.0	77.4	80.1	79.6	80.7	90.5	127.5	147.2	147.2
42.5°	46.3	49.1	51.8	51.8	54.5	64.9	97.0	113.9	113.9
45°	24.0	25.6	28.3	30.0	32.7	43.6	73.0	87.2	88.3
47.5°	11.4	12.0	13.1	13.6	15.8	27.3	56.1	71.4	74.7
50°	8.2	8.7	8.7	8.7	10.4	20.7	47.4	61.6	64.3
52.5°	6.5	6.5	6.5	7.1	8.2	17.4	40.9	53.4	55.6
55°	5.5	5.5	5.5	5.5	6.5	14.2	34.9	45.8	47.4
57.5°	4.4	4.4	4.4	4.4	5.5	11.4	28.9	36.5	37.1
60°	3.8	3.8	3.8	3.8	4.4	9.8	23.4	30.0	30.0
62.5°	3.3	3.3	3.3	3.3	3.8	8.2	19.6	24.5	24.0
65°	2.7	2.7	2.7	2.7	3.3	6.5	15.8	19.6	19.6
67.5°	2.2	2.2	2.2	2.2	2.7	5.5	12.5	15.8	15.8
70°	1.6	1.6	1.6	1.6	2.2	4.4	10.4	12.5	12.5
72.5°	1.6	1.6	1.6	1.6	1.6	3.3	7.6	9.8	9.3
75°	1.1	1.1	1.1	1.1	1.6	2.7	5.5	7.1	7.1
77.5°	1.1	1.1	1.1	1.1	1.1	2.2	4.4	4.9	4.9
80°	0.5	0.5	0.5	0.5	1.1	1.6	2.7	3.3	3.3
82.5°	0.0	0.5	0.0	0.5	0.5	1.1	2.2	2.2	2.2
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)