

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: P859641

Luminaire Tested: **LD4C08D010 EU4089030 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859641
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 EU4089030 4LBMDSWLI
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

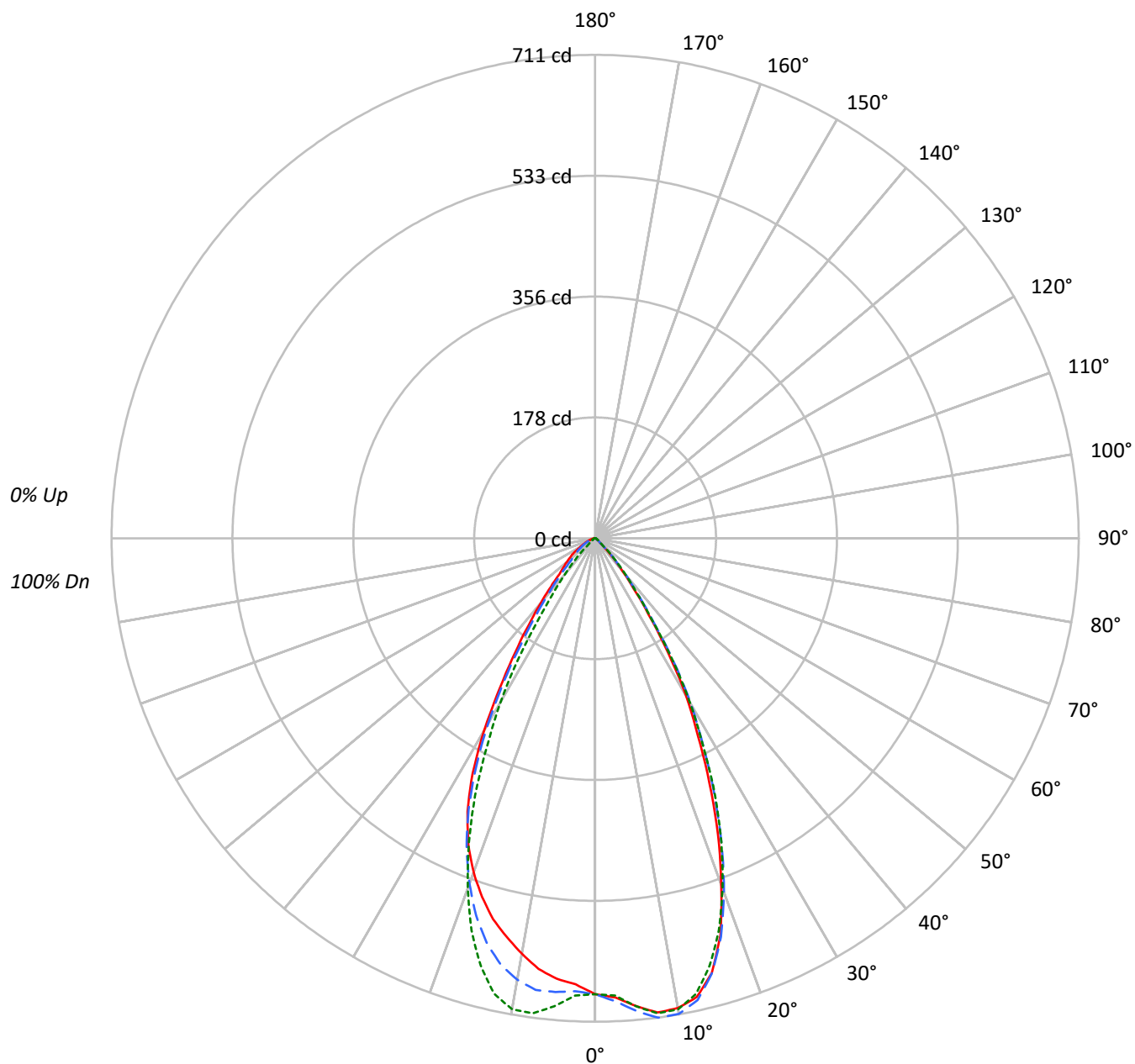
Lumens per Lamp: N/A
Luminaire Lumens: 596.0 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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: P859641

CATALOG NUMBER: LD4C08D010 EU4089030 4LBMDSWLI

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°	82361	82361	82361
5°	85167	85216	80184
10°	87524	87748	77394
15°	84211	82748	73769
20°	70899	71566	68324
25°	53869	56594	60145
30°	37876	39451	46274
35°	20442	21402	30625
40°	9863	10889	19870
45°	3510	4778	12909
50°	1319	1663	10340
55°	985	1178	8546
60°	786	909	6192
65°	669	814	4796
70°	503	647	3808
75°	427	665	2848
80°	354	637	1981
85°	0	705	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	11.0
10°-20°	176.1	29.5
20°-30°	191.0	32.0
30°-40°	106.0	17.8
40°-50°	33.8	5.7
50°-60°	13.6	2.3
60°-70°	6.9	1.2
70°-80°	2.9	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°	432.4	72.5
0°-40°	538.3	90.3
0°-60°	585.7	98.3
0°-90°	596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	596.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	670	670	670	670	670	
5°	691	698	691	670	650	66
15°	662	663	651	616	580	181
25°	397	414	418	440	444	181
35°	136	147	143	189	204	90
45°	20	24	28	62	74	19
55°	5	5	6	29	40	4
65°	2	2	3	13	16	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°	670.4	670.4	670.4	670.4	670.4	670.4	670.4	670.4	670.4
2.5°	675.9	681.8	681.4	676.8	673.1	671.7	666.7	660.7	656.6
5°	690.6	697.9	697.9	694.2	691.0	683.2	669.9	657.1	650.2
7.5°	703.4	710.7	711.2	708.4	704.8	691.9	669.9	649.3	638.7
10°	701.6	707.1	710.3	707.5	703.4	686.4	659.4	631.8	620.4
12.5°	691.0	696.1	695.6	691.5	686.0	668.5	641.9	613.5	600.6
15°	662.1	664.9	662.6	658.0	650.6	637.3	615.8	591.4	580.0
17.5°	612.1	615.8	614.8	607.5	604.8	591.9	581.8	563.0	552.9
20°	542.3	553.8	553.8	548.3	547.4	538.7	540.1	530.0	522.6
22.5°	472.1	482.2	485.5	483.2	485.0	480.9	493.7	491.0	487.3
25°	397.4	407.5	413.9	413.0	417.5	417.5	440.0	445.5	443.7
27.5°	327.2	336.8	344.1	346.0	343.2	348.3	379.0	390.0	390.0
30°	267.0	274.8	281.7	281.7	278.1	281.7	314.3	327.2	326.2
32.5°	199.1	207.9	214.3	213.4	210.1	215.2	249.6	262.5	259.2
35°	136.3	142.2	147.3	145.5	142.7	151.0	188.6	204.6	204.2
37.5°	92.2	97.7	100.9	99.6	98.7	108.3	142.7	160.6	159.7
40°	61.5	65.2	67.4	67.0	67.9	76.2	107.4	123.9	123.9
42.5°	39.0	41.3	43.6	43.6	45.9	54.6	81.7	95.9	95.9
45°	20.2	21.6	23.9	25.2	27.5	36.7	61.5	73.4	74.3
47.5°	9.6	10.1	11.0	11.5	13.3	22.9	47.3	60.1	62.9
50°	6.9	7.3	7.3	7.3	8.7	17.4	39.9	51.8	54.1
52.5°	5.5	5.5	5.5	6.0	6.9	14.7	34.4	45.0	46.8
55°	4.6	4.6	4.6	4.6	5.5	11.9	29.4	38.5	39.9
57.5°	3.7	3.7	3.7	3.7	4.6	9.6	24.3	30.7	31.2
60°	3.2	3.2	3.2	3.2	3.7	8.3	19.7	25.2	25.2
62.5°	2.8	2.8	2.8	2.8	3.2	6.9	16.5	20.6	20.2
65°	2.3	2.3	2.3	2.3	2.8	5.5	13.3	16.5	16.5
67.5°	1.8	1.8	1.8	1.8	2.3	4.6	10.6	13.3	13.3
70°	1.4	1.4	1.4	1.4	1.8	3.7	8.7	10.6	10.6
72.5°	1.4	1.4	1.4	1.4	1.4	2.8	6.4	8.3	7.8
75°	0.9	0.9	0.9	0.9	1.4	2.3	4.6	6.0	6.0
77.5°	0.9	0.9	0.9	0.9	0.9	1.8	3.7	4.1	4.1
80°	0.5	0.5	0.5	0.5	0.9	1.4	2.3	2.8	2.8
82.5°	0.0	0.5	0.0	0.5	0.5	0.9	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.5	0.5	0.9	1.4	0.9
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



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— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)