

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: FAIL-SAFE

Report Number: P580196

Luminaire Tested: **HVSL12-4-LD4-1STD-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)
Test Lab: INNOVATION CENTER
Issue Date: 12/16/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: HVSL12-4-LD4-1STD-30-UNV-O-EDD
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

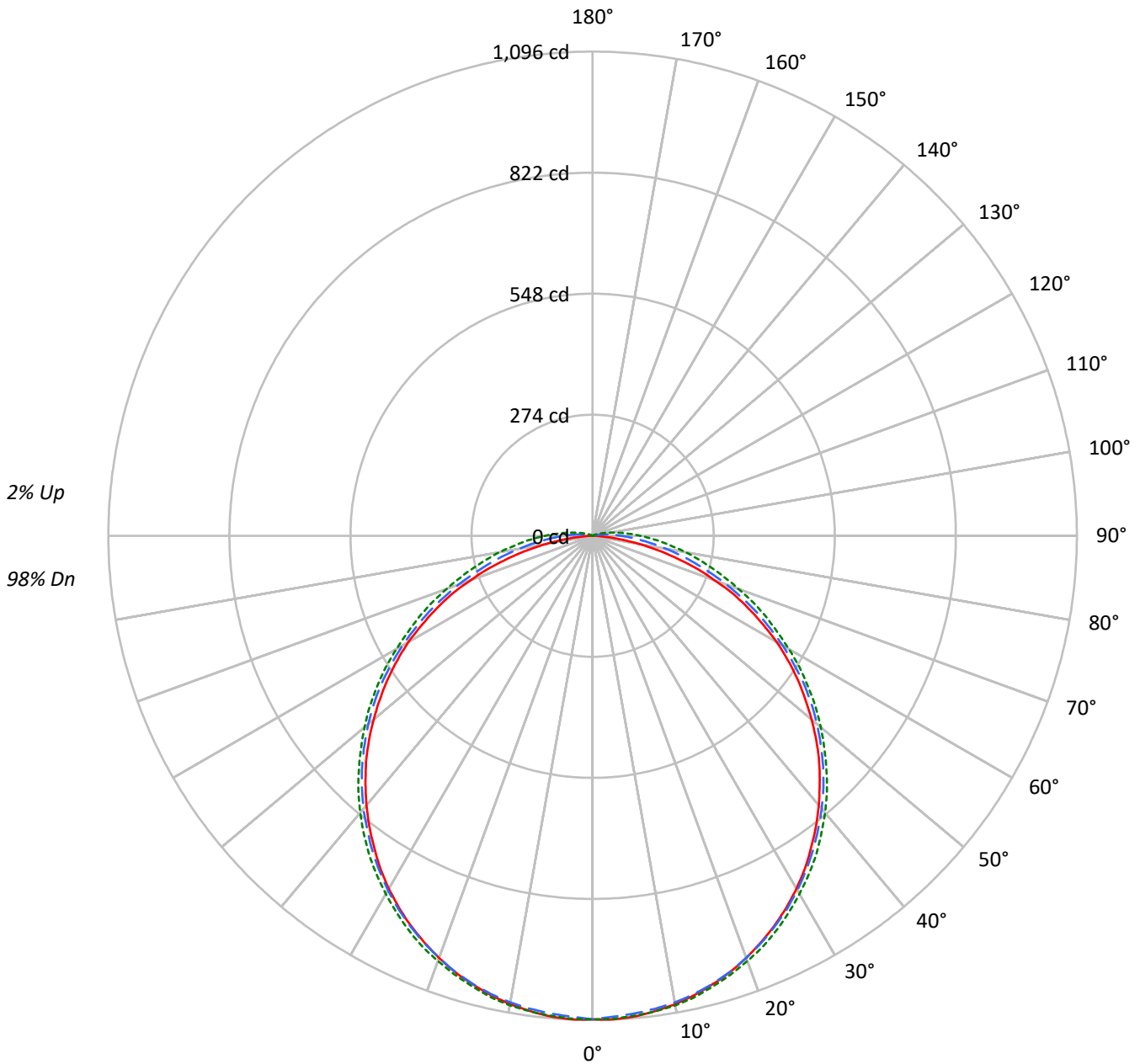
Lumens per Lamp: N/A
Luminaire Lumens: 3310.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 34.5
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									
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	110	110	110	105	105	105	101	101	101				98																
1	108	102	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83				81																
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69				67																
3	89	78	69	63	86	76	68	62	73	66	61	70	64	59	67	62	58				56																
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	54	50				47																
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43				41																
6	69	55	46	40	67	54	46	39	52	45	39	50	44	38	49	43	38				36																
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34				32																
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30				28																
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27				25																
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25				23																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2946	2946	2946
5°	2940	2895	2904
10°	2921	2857	2865
15°	2895	2814	2815
20°	2868	2763	2765
25°	2836	2710	2715
30°	2799	2653	2654
35°	2751	2589	2594
40°	2702	2521	2521
45°	2649	2447	2441
50°	2580	2358	2354
55°	2506	2260	2257
60°	2417	2129	2140
65°	2273	1980	2028
70°	2066	1802	1894
75°	1772	1607	1783
80°	1332	1421	1700
85°	713	1243	1654



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.1
10°-20°	297.2	9.0
20°-30°	450.9	13.6
30°-40°	545.2	16.5
40°-50°	568.9	17.2
50°-60°	520.1	15.7
60°-70°	405.5	12.2
70°-80°	253.6	7.7
80°-90°	115.2	3.5
90°-100°	38.6	1.2
100°-110°	9.7	0.3
110°-120°	1.5	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°	851.7	25.7
0°-40°	1396.9	42.2
0°-60°	2485.9	75.1
0°-90°	3260.2	98.5
90°-120°	49.8	1.5
90°-150°	49.8	1.5
90°-180°	50.0	1.5
0°-180°	3310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1092	1090	1086	1091	1091	104
15°	1051	1053	1050	1056	1056	297
25°	974	974	976	984	985	449
35°	862	866	869	878	882	540
45°	725	732	738	745	748	559
55°	566	573	583	592	596	506
65°	389	396	409	426	432	385
75°	197	209	240	268	278	210
85°	34	63	108	143	156	43
90°	0	24	64	96	107	1
95°	0	6	33	60	69	0
105°	0	1	5	16	21	1
115°	1	1	1	3	4	1
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1094.7	1094.7	1094.7	1094.7	1094.7
2.5°	1096.0	1094.5	1089.6	1094.5	1094.2
5°	1092.4	1090.4	1085.5	1090.6	1090.6
7.5°	1085.2	1084.4	1080.0	1086.0	1086.0
10°	1076.7	1076.4	1072.8	1079.3	1079.5
12.5°	1064.8	1065.8	1062.5	1068.7	1069.5
15°	1050.9	1052.7	1049.8	1055.8	1055.5
17.5°	1035.6	1036.7	1034.6	1041.3	1041.1
20°	1016.8	1018.1	1016.6	1023.5	1024.3
22.5°	995.9	997.7	997.5	1004.7	1006.7
25°	973.7	974.5	975.5	983.8	985.3
27.5°	949.2	950.5	952.3	959.8	961.3
30°	922.4	924.4	926.5	934.2	936.3
32.5°	894.0	896.0	898.6	908.7	909.7
35°	862.0	865.8	869.4	878.2	881.8
37.5°	830.0	834.9	838.2	847.5	850.4
40°	796.2	801.1	806.5	816.3	818.1
42.5°	760.8	766.5	772.9	781.7	784.8
45°	725.2	731.6	737.6	744.8	748.4
47.5°	686.7	693.2	700.4	708.7	711.0
50°	647.0	654.5	662.2	670.0	674.1
52.5°	606.2	615.2	624.0	632.3	636.2
55°	566.0	572.7	583.2	591.8	595.6
57.5°	524.1	529.8	539.4	553.3	555.4
60°	481.6	486.7	496.5	507.9	512.5
62.5°	434.6	441.6	451.9	466.3	470.5
65°	388.9	395.6	409.3	425.6	432.3
67.5°	344.8	347.1	364.7	381.7	392.5
70°	292.7	301.4	321.8	342.7	351.0
72.5°	247.8	256.5	279.0	303.5	313.8
75°	196.9	209.0	239.5	268.1	278.2
77.5°	152.3	165.7	203.4	232.3	243.9
80°	106.3	127.2	168.3	200.8	213.4
82.5°	66.8	92.6	136.5	170.6	181.7
85°	34.1	63.0	108.1	143.0	155.6
87.5°	9.0	40.8	84.1	117.4	130.3
90°	0.3	23.5	63.7	95.7	107.4
92.5°	0.3	13.2	47.5	76.1	88.0
95°	0.3	6.2	33.0	59.9	69.2
97.5°	0.3	2.6	22.7	45.2	54.5
100°	0.3	1.3	14.5	32.8	40.8
102.5°	0.5	0.8	9.0	23.5	29.9
105°	0.5	0.8	5.4	16.0	21.4



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CATALOG NUMBER: HVSL12-4-LD4-1STD-30-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.0	4.4	6.5
115°	0.8	0.8	1.0	2.8	4.1
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	0.5	0.8	3.1	10.8	14.7
110°	0.8	0.8	1.8	6.7	9.8



(END OF REPORT)