

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: P580197

Luminaire Tested: **HVSL12-4-LD4-1STD-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580197
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-35-UNV-O-EDD-90
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

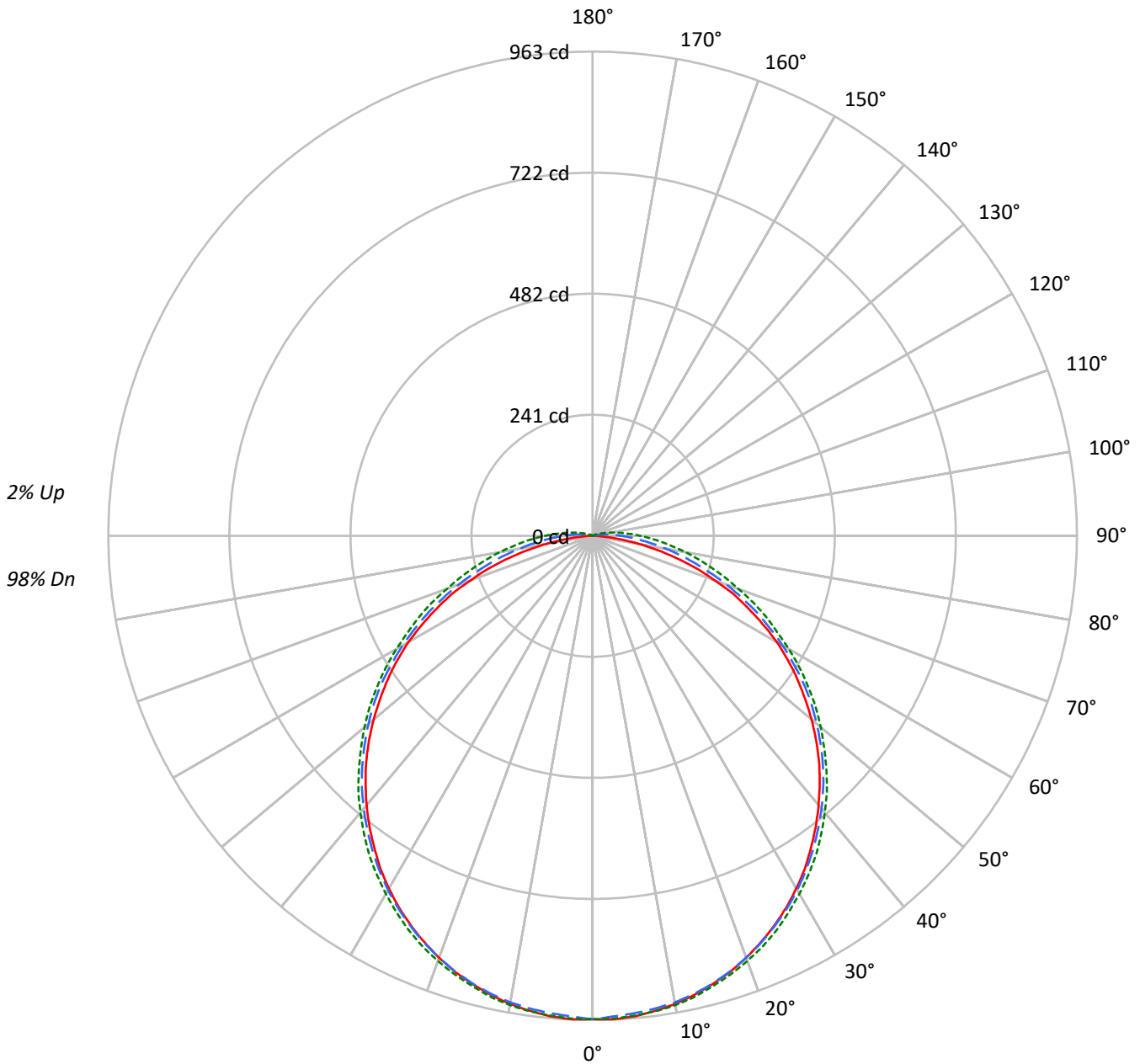
Lumens per Lamp: N/A
Luminaire Lumens: 2907.0 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

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°	2587	2587	2587
5°	2582	2542	2550
10°	2565	2509	2517
15°	2543	2471	2472
20°	2519	2427	2429
25°	2491	2380	2384
30°	2458	2330	2331
35°	2416	2274	2278
40°	2373	2214	2214
45°	2327	2149	2144
50°	2266	2071	2068
55°	2201	1985	1982
60°	2123	1870	1880
65°	1997	1739	1781
70°	1814	1583	1663
75°	1556	1411	1566
80°	1171	1248	1493
85°	625	1093	1453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	3.1
10°-20°	261.0	9.0
20°-30°	396.0	13.6
30°-40°	478.8	16.5
40°-50°	499.6	17.2
50°-60°	456.8	15.7
60°-70°	356.1	12.2
70°-80°	222.7	7.7
80°-90°	101.2	3.5
90°-100°	33.9	1.2
100°-110°	8.5	0.3
110°-120°	1.3	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°	748.0	25.7
0°-40°	1226.8	42.2
0°-60°	2183.2	75.1
0°-90°	2863.2	98.5
90°-120°	43.8	1.5
90°-150°	43.8	1.5
90°-180°	44.0	1.5
0°-180°	2907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	962	962	962	962	962	
5°	959	958	953	958	958	91
15°	923	924	922	927	927	261
25°	855	856	857	864	865	394
35°	757	760	764	771	774	474
45°	637	643	648	654	657	491
55°	497	503	512	520	523	444
65°	342	348	360	374	380	338
75°	173	184	210	236	244	184
85°	30	55	95	126	137	38
90°	0	21	56	84	94	1
95°	0	5	29	53	61	0
105°	0	1	5	14	19	1
115°	1	1	1	2	4	0
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	961.5	961.5	961.5	961.5	961.5
2.5°	962.6	961.2	956.9	961.2	961.0
5°	959.4	957.6	953.3	957.8	957.8
7.5°	953.1	952.4	948.5	953.8	953.8
10°	945.6	945.4	942.2	947.9	948.1
12.5°	935.2	936.1	933.1	938.6	939.2
15°	922.9	924.5	922.0	927.2	927.0
17.5°	909.6	910.5	908.6	914.5	914.3
20°	893.0	894.1	892.8	898.9	899.6
22.5°	874.7	876.2	876.0	882.4	884.2
25°	855.2	855.8	856.7	864.0	865.4
27.5°	833.6	834.8	836.3	842.9	844.3
30°	810.1	811.9	813.7	820.5	822.3
32.5°	785.1	786.9	789.2	798.0	799.0
35°	757.0	760.4	763.6	771.3	774.5
37.5°	728.9	733.2	736.2	744.3	746.8
40°	699.2	703.5	708.3	716.9	718.5
42.5°	668.2	673.2	678.8	686.5	689.3
45°	636.9	642.6	647.8	654.1	657.3
47.5°	603.1	608.8	615.1	622.4	624.4
50°	568.2	574.8	581.6	588.4	592.0
52.5°	532.4	540.3	548.0	555.3	558.7
55°	497.0	502.9	512.2	519.7	523.1
57.5°	460.3	465.3	473.7	485.9	487.8
60°	422.9	427.5	436.1	446.1	450.1
62.5°	381.7	387.8	396.9	409.6	413.2
65°	341.6	347.5	359.5	373.8	379.6
67.5°	302.8	304.8	320.3	335.2	344.7
70°	257.0	264.7	282.6	301.0	308.2
72.5°	217.6	225.3	245.0	266.5	275.6
75°	172.9	183.6	210.3	235.5	244.3
77.5°	133.7	145.5	178.6	204.0	214.2
80°	93.4	111.7	147.8	176.3	187.4
82.5°	58.7	81.4	119.9	149.8	159.6
85°	29.9	55.3	95.0	125.6	136.7
87.5°	7.9	35.8	73.9	103.1	114.5
90°	0.2	20.6	56.0	84.1	94.3
92.5°	0.2	11.6	41.7	66.9	77.3
95°	0.2	5.4	29.0	52.6	60.7
97.5°	0.2	2.3	19.9	39.7	47.8
100°	0.2	1.1	12.7	28.8	35.8
102.5°	0.5	0.7	7.9	20.6	26.3
105°	0.5	0.7	4.8	14.1	18.8



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CATALOG NUMBER: HVSL12-4-LD4-1STD-35-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.7	0.9	3.9	5.7
115°	0.7	0.7	0.9	2.5	3.6
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	0.7	2.7	9.5	12.9
110°	0.7	0.7	1.6	5.9	8.6



(END OF REPORT)