

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: P580133

Luminaire Tested: **HVSL12-2-LD4-2HI-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580133
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: HVSL12-2-LD4-2HI-35-UNV-O-EDD-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

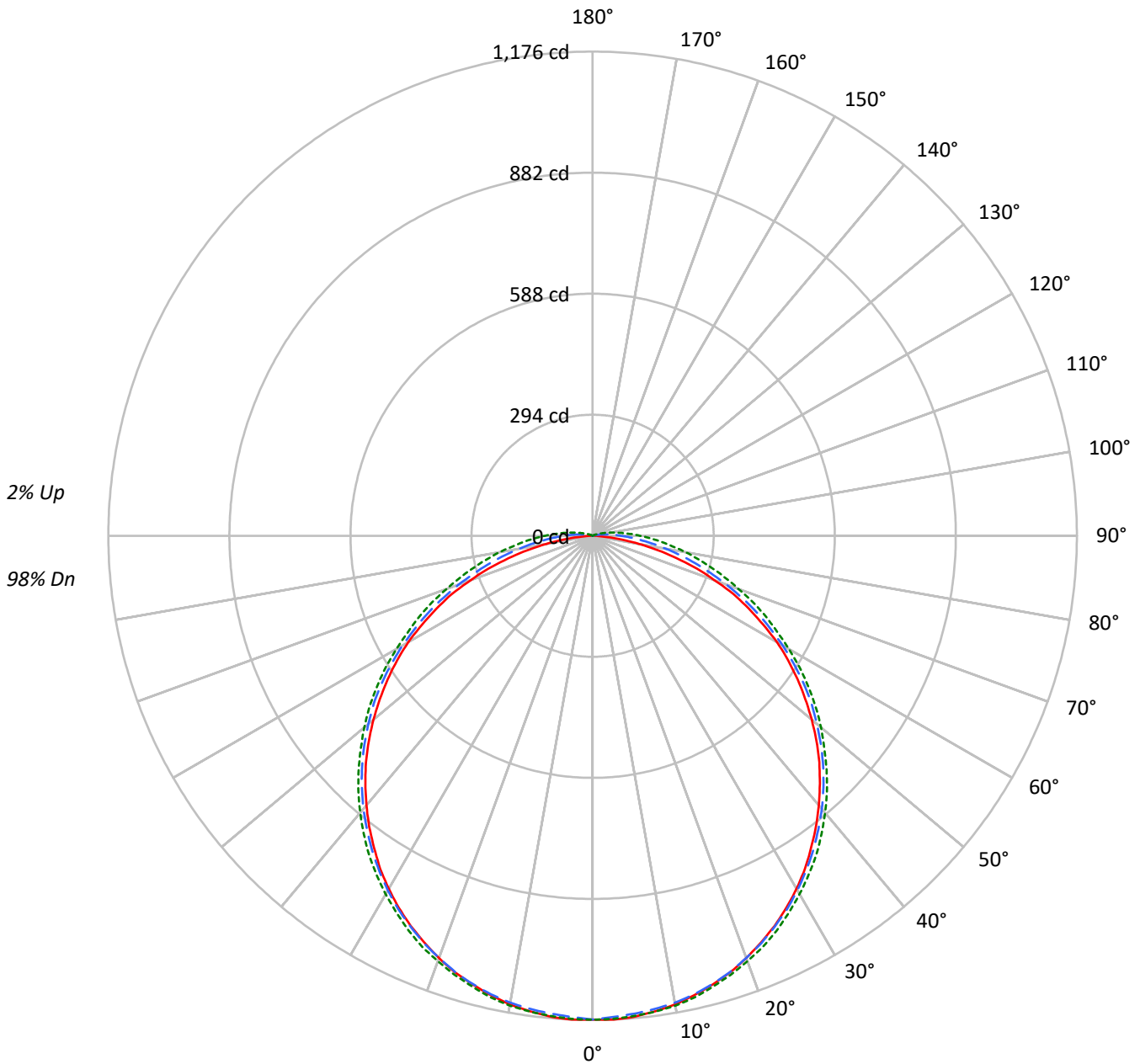
Lumens per Lamp: N/A
Luminaire Lumens: 3553.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 45.6
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					20	
RC	80					70					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°	6324	6324	6324
5°	6289	6199	6234
10°	6224	6103	6152
15°	6148	5995	6043
20°	6067	5872	5937
25°	5975	5744	5828
30°	5871	5608	5697
35°	5744	5456	5569
40°	5612	5296	5413
45°	5469	5120	5241
50°	5290	4916	5054
55°	5094	4690	4846
60°	4862	4392	4595
65°	4511	4057	4353
70°	4022	3658	4066
75°	3353	3221	3828
80°	2401	2795	3650
85°	1157	2373	3549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	3.1
10°-20°	319.0	9.0
20°-30°	484.0	13.6
30°-40°	585.2	16.5
40°-50°	610.6	17.2
50°-60°	558.3	15.7
60°-70°	435.2	12.2
70°-80°	272.3	7.7
80°-90°	123.7	3.5
90°-100°	41.5	1.2
100°-110°	10.4	0.3
110°-120°	1.6	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°	914.2	25.7
0°-40°	1499.4	42.2
0°-60°	2668.4	75.1
0°-90°	3499.5	98.5
90°-120°	53.5	1.5
90°-150°	53.5	1.5
90°-180°	53.0	1.5
0°-180°	3553.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1173	1170	1165	1171	1171	111
15°	1128	1130	1127	1133	1133	318
25°	1045	1046	1047	1056	1058	482
35°	925	929	933	943	947	579
45°	778	785	792	800	803	600
55°	608	615	626	635	639	543
65°	418	425	439	457	464	413
75°	211	224	257	288	299	225
85°	37	68	116	154	167	46
90°	0	25	68	103	115	1
95°	0	7	36	64	74	0
105°	1	1	6	17	23	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.1	1175.1	1175.1	1175.1	1175.1
2.5°	1176.5	1174.8	1169.6	1174.8	1174.6
5°	1172.6	1170.4	1165.1	1170.7	1170.7
7.5°	1164.9	1164.0	1159.3	1165.7	1165.7
10°	1155.7	1155.4	1151.6	1158.5	1158.8
12.5°	1143.0	1144.1	1140.5	1147.1	1148.0
15°	1128.0	1130.0	1126.9	1133.3	1133.0
17.5°	1111.7	1112.8	1110.6	1117.8	1117.5
20°	1091.5	1092.8	1091.2	1098.7	1099.5
22.5°	1069.0	1071.0	1070.7	1078.4	1080.7
25°	1045.2	1046.0	1047.1	1056.0	1057.7
27.5°	1018.9	1020.3	1022.2	1030.2	1031.9
30°	990.1	992.3	994.5	1002.8	1005.0
32.5°	959.6	961.8	964.6	975.4	976.5
35°	925.2	929.4	933.3	942.7	946.6
37.5°	890.9	896.2	899.8	909.7	912.8
40°	854.6	859.9	865.7	876.2	878.2
42.5°	816.7	822.7	829.7	839.1	842.4
45°	778.4	785.4	791.7	799.5	803.4
47.5°	737.1	744.1	751.8	760.7	763.2
50°	694.5	702.5	710.8	719.1	723.6
52.5°	650.7	660.4	669.8	678.7	682.9
55°	607.5	614.7	626.1	635.2	639.4
57.5°	562.6	568.7	579.0	593.9	596.1
60°	516.9	522.5	533.0	545.2	550.2
62.5°	466.5	474.0	485.1	500.6	505.0
65°	417.5	424.7	439.4	456.8	464.0
67.5°	370.1	372.6	391.4	409.7	421.3
70°	314.1	323.6	345.4	367.9	376.7
72.5°	265.9	275.4	299.5	325.8	336.9
75°	211.4	224.4	257.1	287.8	298.6
77.5°	163.4	177.8	218.3	249.3	261.8
80°	114.1	136.6	180.6	215.5	229.1
82.5°	71.7	99.5	146.5	183.1	195.0
85°	36.6	67.6	116.1	153.5	167.0
87.5°	9.7	43.8	90.3	126.0	139.9
90°	0.3	25.2	68.4	102.8	115.2
92.5°	0.3	14.1	51.0	81.7	94.5
95°	0.3	6.6	35.5	64.3	74.2
97.5°	0.3	2.8	24.4	48.5	58.5
100°	0.3	1.4	15.5	35.2	43.8
102.5°	0.6	0.8	9.7	25.2	32.1
105°	0.6	0.8	5.8	17.2	23.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.1	4.7	6.9
115°	0.8	0.8	1.1	3.0	4.4
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°	0.6	0.8	3.3	11.6	15.8
110°	0.8	0.8	1.9	7.2	10.5



(END OF REPORT)