

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: P580169

Luminaire Tested: **HVSL12-2-LD4-3LO-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580169
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-LD4-3LO-50-UNV-O-EDD-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

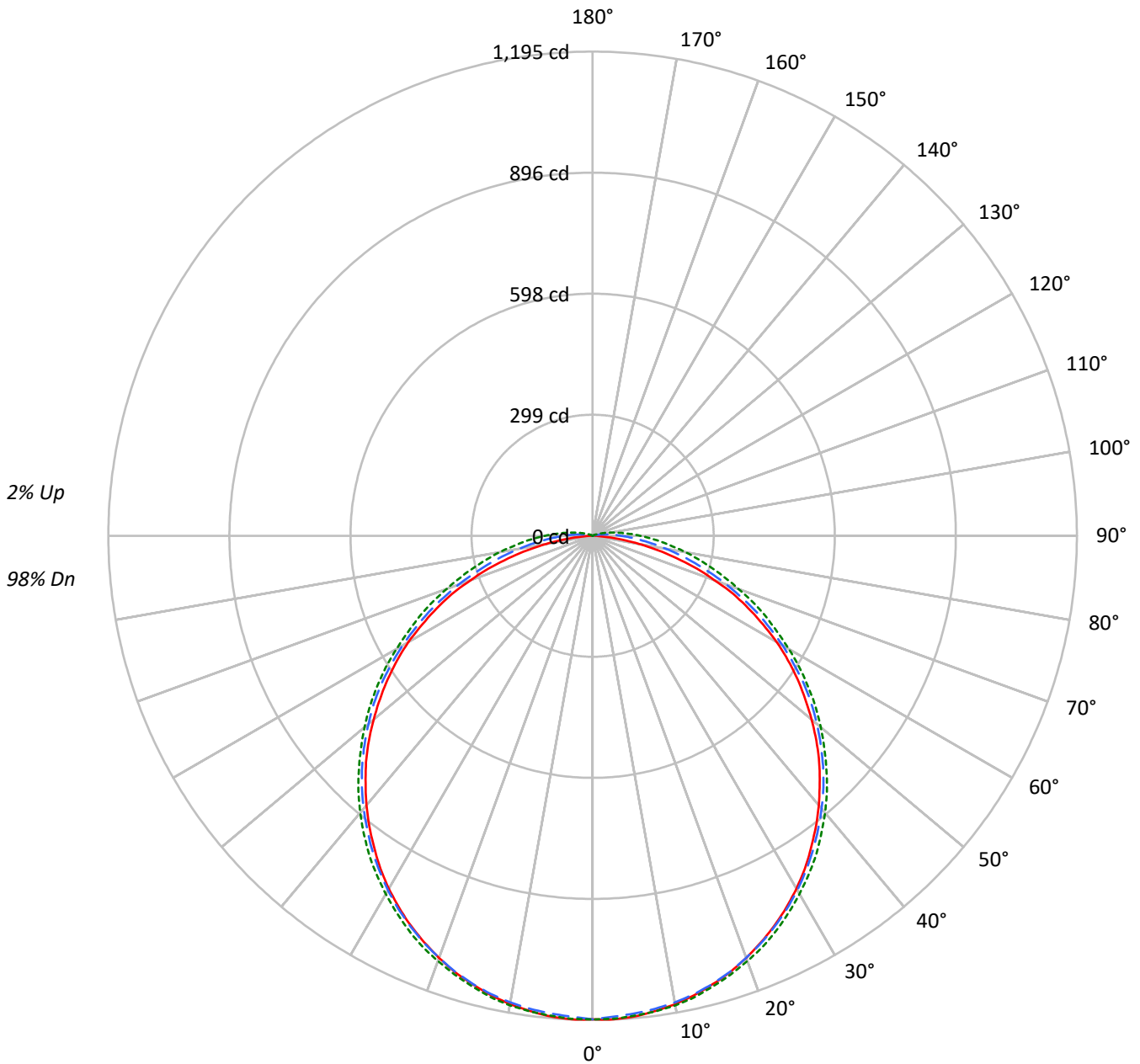
Lumens per Lamp: N/A
Luminaire Lumens: 3609.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 35.7
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°	6424	6424	6424
5°	6388	6296	6332
10°	6322	6199	6249
15°	6245	6090	6138
20°	6163	5964	6030
25°	6069	5835	5919
30°	5963	5696	5787
35°	5834	5542	5657
40°	5700	5380	5498
45°	5555	5201	5323
50°	5373	4993	5134
55°	5174	4764	4922
60°	4939	4461	4667
65°	4581	4121	4421
70°	4086	3716	4130
75°	3405	3271	3888
80°	2439	2840	3707
85°	1173	2410	3607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	3.1
10°-20°	324.0	9.0
20°-30°	491.6	13.6
30°-40°	594.5	16.5
40°-50°	620.3	17.2
50°-60°	567.1	15.7
60°-70°	442.1	12.3
70°-80°	276.5	7.7
80°-90°	125.6	3.5
90°-100°	42.1	1.2
100°-110°	10.6	0.3
110°-120°	1.7	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°	928.6	25.7
0°-40°	1523.0	42.2
0°-60°	2710.4	75.1
0°-90°	3554.7	98.5
90°-120°	54.3	1.5
90°-150°	54.3	1.5
90°-180°	54.0	1.5
0°-180°	3609.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1191	1189	1184	1189	1189	113
15°	1146	1148	1145	1151	1151	323
25°	1062	1062	1064	1073	1074	489
35°	940	944	948	958	962	588
45°	791	798	804	812	816	609
55°	617	624	636	645	649	551
65°	424	431	446	464	471	420
75°	215	228	261	292	303	229
85°	37	69	118	156	170	47
90°	0	26	70	104	117	1
95°	0	7	36	65	75	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1193.6	1193.6	1193.6	1193.6	1193.6
2.5°	1195.0	1193.4	1188.0	1193.4	1193.1
5°	1191.1	1188.9	1183.5	1189.1	1189.1
7.5°	1183.2	1182.4	1177.6	1184.1	1184.1
10°	1173.9	1173.7	1169.7	1176.8	1177.0
12.5°	1161.0	1162.1	1158.5	1165.2	1166.1
15°	1145.8	1147.8	1144.7	1151.1	1150.9
17.5°	1129.2	1130.3	1128.1	1135.4	1135.1
20°	1108.7	1110.1	1108.4	1116.0	1116.8
22.5°	1085.9	1087.8	1087.6	1095.4	1097.7
25°	1061.7	1062.5	1063.6	1072.6	1074.3
27.5°	1034.9	1036.3	1038.3	1046.5	1048.2
30°	1005.7	1007.9	1010.2	1018.6	1020.9
32.5°	974.7	977.0	979.8	990.8	991.9
35°	939.8	944.0	948.0	957.6	961.5
37.5°	904.9	910.3	913.9	924.1	927.2
40°	868.1	873.4	879.3	890.0	892.0
42.5°	829.5	835.7	842.8	852.3	855.7
45°	790.7	797.7	804.2	812.1	816.0
47.5°	748.8	755.8	763.7	772.7	775.2
50°	705.4	713.6	722.0	730.5	735.0
52.5°	661.0	670.8	680.4	689.4	693.6
55°	617.1	624.4	635.9	645.2	649.4
57.5°	571.5	577.7	588.1	603.3	605.5
60°	525.1	530.7	541.4	553.8	558.8
62.5°	473.9	481.5	492.7	508.5	513.0
65°	424.0	431.4	446.3	464.0	471.3
67.5°	375.9	378.5	397.6	416.2	428.0
70°	319.1	328.7	350.9	373.7	382.7
72.5°	270.1	279.7	304.2	330.9	342.2
75°	214.7	227.9	261.1	292.4	303.3
77.5°	166.0	180.6	221.7	253.2	265.9
80°	115.9	138.7	183.5	218.9	232.7
82.5°	72.9	101.0	148.9	186.0	198.1
85°	37.1	68.7	117.9	155.9	169.7
87.5°	9.8	44.5	91.7	128.0	142.1
90°	0.3	25.6	69.5	104.4	117.1
92.5°	0.3	14.4	51.8	83.0	96.0
95°	0.3	6.8	36.0	65.3	75.4
97.5°	0.3	2.8	24.8	49.2	59.4
100°	0.3	1.4	15.8	35.7	44.5
102.5°	0.6	0.8	9.8	25.6	32.6
105°	0.6	0.8	5.9	17.4	23.4



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CATALOG NUMBER: HVSL12-2-LD4-3LO-50-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.1	4.8	7.0
115°	0.8	0.8	1.1	3.1	4.5
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	3.4	11.8	16.0
110°	0.8	0.8	2.0	7.3	10.7



(END OF REPORT)