

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: P580168

Luminaire Tested: **HVSL12-2-LD4-3LO-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580168
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-40-UNV-O-EDD
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

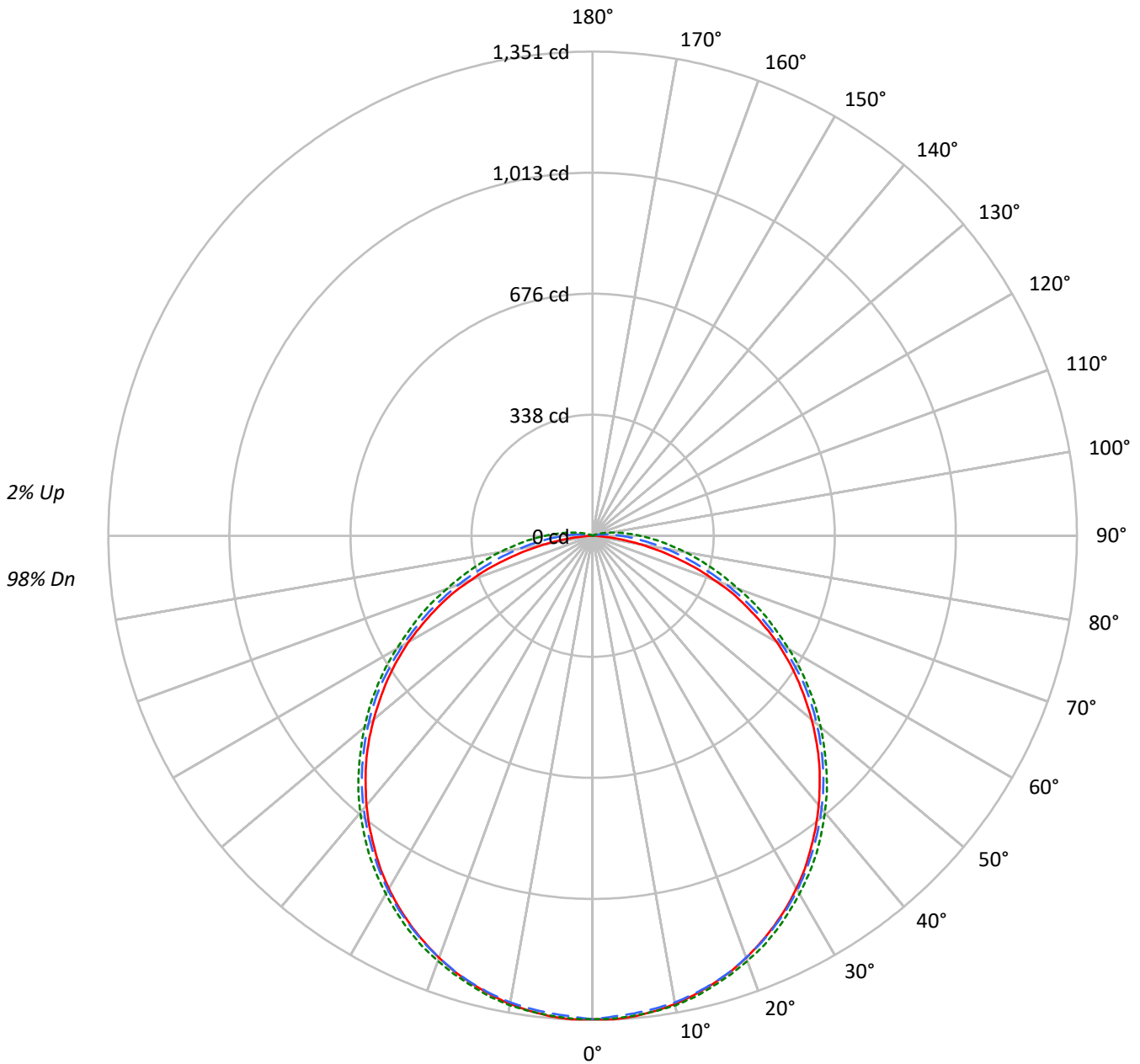
Lumens per Lamp: N/A
Luminaire Lumens: 4079.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

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°	7261	7261	7261
5°	7220	7116	7157
10°	7146	7007	7062
15°	7058	6882	6937
20°	6965	6741	6816
25°	6859	6595	6690
30°	6739	6438	6541
35°	6594	6264	6394
40°	6442	6080	6214
45°	6279	5878	6017
50°	6072	5644	5803
55°	5848	5384	5563
60°	5582	5042	5275
65°	5178	4657	4997
70°	4617	4200	4668
75°	3849	3697	4394
80°	2757	3210	4190
85°	1328	2725	4077



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	3.1
10°-20°	366.2	9.0
20°-30°	555.6	13.6
30°-40°	671.9	16.5
40°-50°	701.0	17.2
50°-60°	641.0	15.7
60°-70°	499.7	12.2
70°-80°	312.6	7.7
80°-90°	142.0	3.5
90°-100°	47.6	1.2
100°-110°	11.9	0.3
110°-120°	1.9	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°	1049.5	25.7
0°-40°	1721.4	42.2
0°-60°	3063.4	75.1
0°-90°	4017.6	98.5
90°-120°	61.4	1.5
90°-150°	61.4	1.5
90°-180°	61.0	1.5
0°-180°	4079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1349	1349	1349	1349	1349	
5°	1346	1344	1338	1344	1344	128
15°	1295	1297	1294	1301	1301	366
25°	1200	1201	1202	1212	1214	553
35°	1062	1067	1071	1082	1087	665
45°	894	902	909	918	922	689
55°	697	706	719	729	734	623
65°	479	488	504	524	533	474
75°	243	258	295	330	343	259
85°	42	78	133	176	192	53
90°	0	29	79	118	132	2
95°	0	8	41	74	85	0
105°	1	1	7	20	26	1
115°	1	1	1	4	5	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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CATALOG NUMBER: HVSL12-2-LD4-3LO-40-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1349.1	1349.1	1349.1	1349.1	1349.1
2.5°	1350.7	1348.8	1342.7	1348.8	1348.5
5°	1346.2	1343.7	1337.6	1344.0	1344.0
7.5°	1337.3	1336.4	1331.0	1338.3	1338.3
10°	1326.8	1326.5	1322.1	1330.0	1330.3
12.5°	1312.2	1313.5	1309.3	1317.0	1317.9
15°	1295.0	1297.2	1293.7	1301.1	1300.7
17.5°	1276.3	1277.5	1275.0	1283.3	1282.9
20°	1253.0	1254.6	1252.7	1261.3	1262.3
22.5°	1227.3	1229.5	1229.2	1238.1	1240.6
25°	1199.9	1200.9	1202.2	1212.3	1214.2
27.5°	1169.7	1171.3	1173.5	1182.8	1184.7
30°	1136.6	1139.2	1141.7	1151.3	1153.8
32.5°	1101.7	1104.2	1107.4	1119.8	1121.1
35°	1062.2	1067.0	1071.4	1082.3	1086.7
37.5°	1022.8	1028.8	1033.0	1044.4	1047.9
40°	981.1	987.2	993.8	1005.9	1008.2
42.5°	937.6	944.6	952.5	963.3	967.1
45°	893.7	901.6	908.9	917.8	922.3
47.5°	846.3	854.2	863.1	873.3	876.2
50°	797.3	806.5	816.1	825.6	830.7
52.5°	747.1	758.2	769.0	779.2	783.9
55°	697.4	705.7	718.7	729.2	734.0
57.5°	645.9	652.9	664.7	681.9	684.4
60°	593.4	599.8	611.9	625.9	631.6
62.5°	535.6	544.2	556.9	574.7	579.8
65°	479.3	487.5	504.4	524.4	532.7
67.5°	424.9	427.8	449.4	470.4	483.7
70°	360.6	371.5	396.6	422.3	432.5
72.5°	305.3	316.1	343.8	374.0	386.7
75°	242.7	257.6	295.1	330.4	342.8
77.5°	187.6	204.2	250.6	286.2	300.5
80°	131.0	156.8	207.4	247.4	263.0
82.5°	82.4	114.2	168.2	210.2	223.9
85°	42.0	77.6	133.3	176.2	191.8
87.5°	11.1	50.2	103.7	144.7	160.6
90°	0.3	28.9	78.6	118.0	132.3
92.5°	0.3	16.2	58.5	93.8	108.4
95°	0.3	7.6	40.7	73.8	85.2
97.5°	0.3	3.2	28.0	55.7	67.1
100°	0.3	1.6	17.8	40.4	50.2
102.5°	0.6	1.0	11.1	28.9	36.9
105°	0.6	1.0	6.7	19.7	26.4



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CATALOG NUMBER: HVSL12-2-LD4-3LO-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	1.0	1.3	5.4	8.0
115°	1.0	1.0	1.3	3.5	5.1
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°	0.6	1.0	3.8	13.4	18.1
110°	1.0	1.0	2.2	8.3	12.1



(END OF REPORT)