

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: P580138

Luminaire Tested: **HVSL12-2-LD4-2HI-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580138
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-50-UNV-O-EDD
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

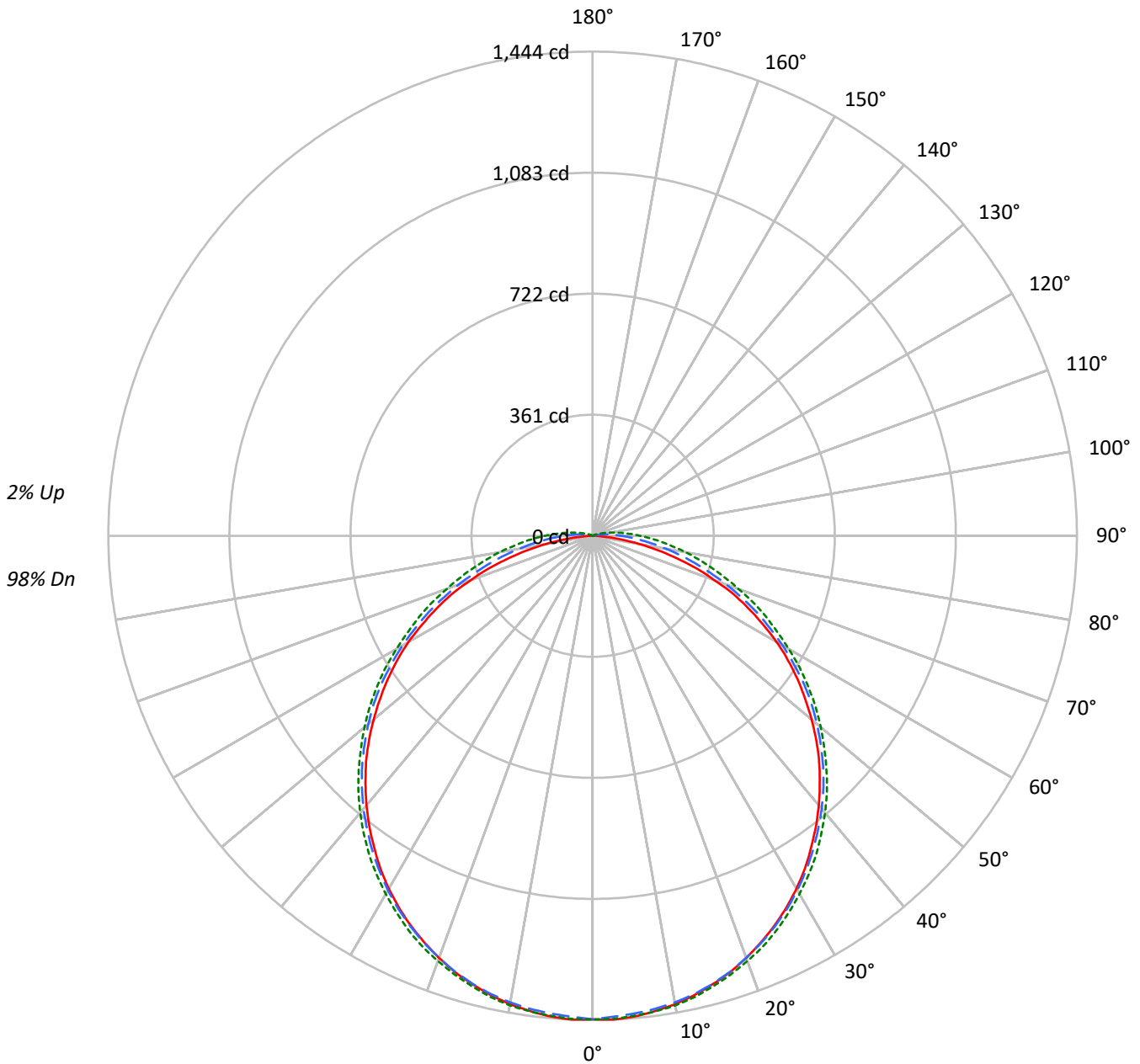
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4361.0 lumens
Efficiency: N/A
Efficacy: 95.6 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									
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°	7763	7763	7763
5°	7720	7608	7651
10°	7640	7491	7551
15°	7546	7358	7417
20°	7447	7207	7287
25°	7333	7051	7153
30°	7205	6883	6993
35°	7050	6697	6835
40°	6888	6501	6644
45°	6712	6285	6433
50°	6492	6034	6203
55°	6253	5756	5948
60°	5968	5391	5640
65°	5536	4980	5343
70°	4937	4491	4991
75°	4114	3952	4698
80°	2948	3431	4480
85°	1420	2913	4357



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	3.1
10°-20°	391.5	9.0
20°-30°	594.1	13.6
30°-40°	718.3	16.5
40°-50°	749.5	17.2
50°-60°	685.3	15.7
60°-70°	534.2	12.2
70°-80°	334.2	7.7
80°-90°	151.8	3.5
90°-100°	50.9	1.2
100°-110°	12.8	0.3
110°-120°	2.0	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°	1122.1	25.7
0°-40°	1840.4	42.2
0°-60°	3275.2	75.1
0°-90°	4295.4	98.5
90°-120°	65.6	1.5
90°-150°	65.6	1.5
90°-180°	66.0	1.5
0°-180°	4361.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1442	1442	1442	1442	1442	
5°	1439	1437	1430	1437	1437	137
15°	1385	1387	1383	1391	1391	391
25°	1283	1284	1285	1296	1298	591
35°	1136	1141	1146	1157	1162	711
45°	955	964	972	981	986	736
55°	746	754	768	780	785	666
65°	512	521	539	561	570	507
75°	259	275	316	353	366	277
85°	45	83	142	188	205	57
90°	0	31	84	126	141	2
95°	0	8	44	79	91	0
105°	1	1	7	21	28	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-LD4-2HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1442.4	1442.4	1442.4	1442.4	1442.4
2.5°	1444.1	1442.0	1435.6	1442.0	1441.7
5°	1439.3	1436.6	1430.1	1436.9	1436.9
7.5°	1429.8	1428.8	1423.0	1430.8	1430.8
10°	1418.6	1418.2	1413.5	1422.0	1422.3
12.5°	1402.9	1404.3	1399.9	1408.0	1409.0
15°	1384.6	1386.9	1383.2	1391.0	1390.7
17.5°	1364.5	1365.9	1363.1	1372.0	1371.6
20°	1339.7	1341.4	1339.3	1348.5	1349.5
22.5°	1312.1	1314.5	1314.2	1323.7	1326.4
25°	1282.9	1283.9	1285.3	1296.1	1298.2
27.5°	1250.6	1252.3	1254.7	1264.5	1266.6
30°	1215.2	1217.9	1220.7	1230.9	1233.6
32.5°	1177.8	1180.5	1183.9	1197.2	1198.6
35°	1135.7	1140.8	1145.5	1157.1	1161.8
37.5°	1093.5	1100.0	1104.4	1116.6	1120.4
40°	1049.0	1055.4	1062.6	1075.5	1077.9
42.5°	1002.4	1009.9	1018.4	1029.9	1034.0
45°	955.4	964.0	971.8	981.3	986.1
47.5°	904.8	913.3	922.8	933.7	936.7
50°	852.4	862.3	872.5	882.7	888.1
52.5°	798.7	810.6	822.2	833.0	838.1
55°	745.7	754.5	768.4	779.7	784.8
57.5°	690.6	698.1	710.6	729.0	731.7
60°	634.5	641.3	654.2	669.2	675.3
62.5°	572.6	581.8	595.4	614.4	619.9
65°	512.4	521.2	539.3	560.7	569.5
67.5°	454.3	457.3	480.4	502.9	517.2
70°	385.6	397.1	424.0	451.5	462.4
72.5°	326.4	338.0	367.6	399.9	413.5
75°	259.4	275.4	315.5	353.3	366.5
77.5°	200.6	218.3	267.9	306.0	321.3
80°	140.1	167.6	221.7	264.5	281.2
82.5°	88.1	122.1	179.9	224.8	239.4
85°	44.9	83.0	142.5	188.4	205.0
87.5°	11.9	53.7	110.8	154.7	171.7
90°	0.3	30.9	84.0	126.1	141.4
92.5°	0.3	17.3	62.6	100.3	115.9
95°	0.3	8.2	43.5	78.9	91.1
97.5°	0.3	3.4	29.9	59.5	71.7
100°	0.3	1.7	19.0	43.2	53.7
102.5°	0.7	1.0	11.9	30.9	39.4
105°	0.7	1.0	7.1	21.1	28.2



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CATALOG NUMBER: HVSL12-2-LD4-2HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	1.0	1.4	5.8	8.5
115°	1.0	1.0	1.4	3.7	5.4
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°	0.7	1.0	4.1	14.3	19.4
110°	1.0	1.0	2.4	8.8	12.9



(END OF REPORT)