

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: P580170

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580170
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
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

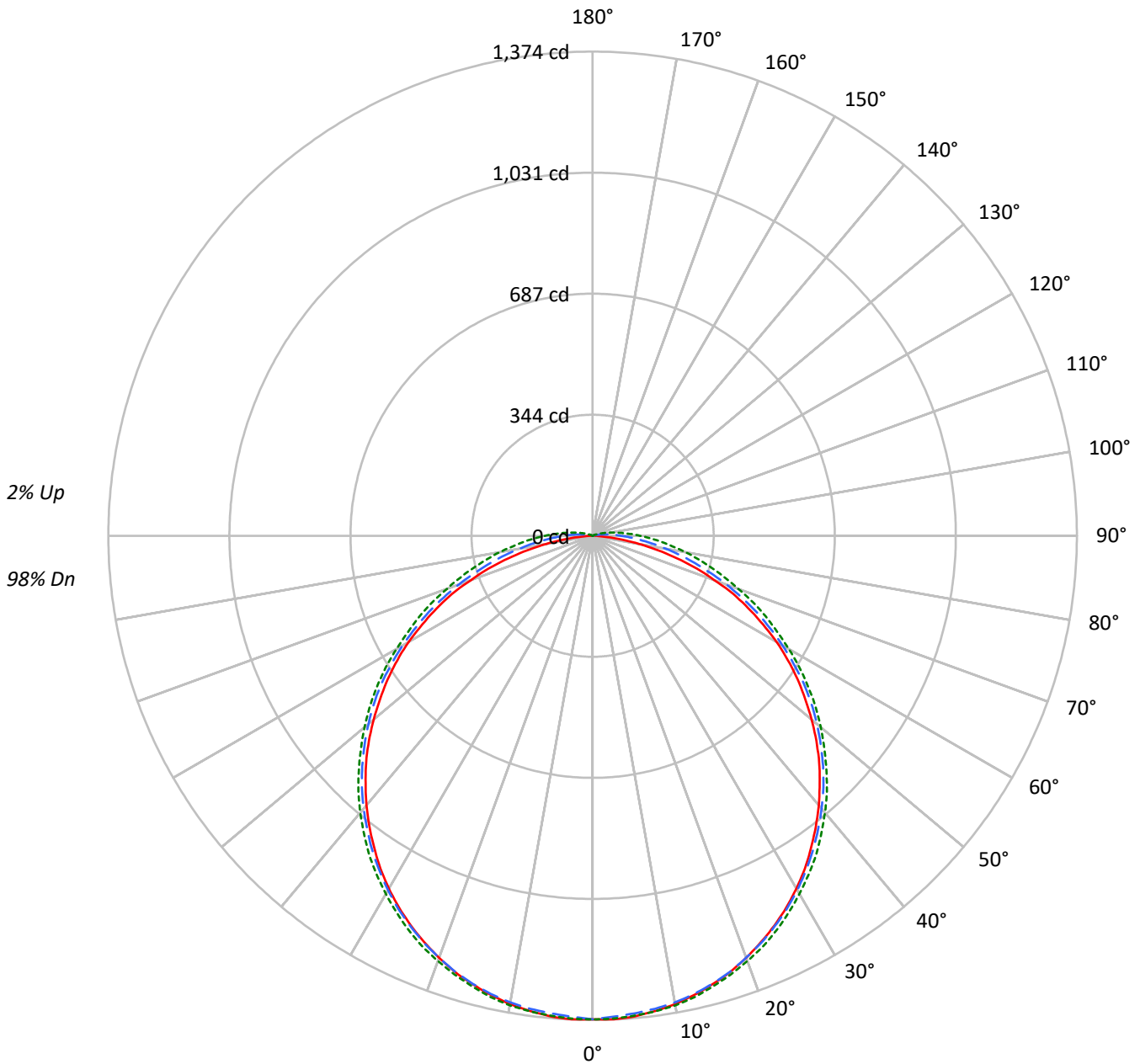
Lumens per Lamp: N/A
Luminaire Lumens: 4149.0 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P580170

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

Luminous Intensity Polar Plot





TEST NUMBER: P580170

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

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°	7385	7385	7385
5°	7344	7239	7280
10°	7269	7127	7184
15°	7179	7001	7057
20°	7085	6857	6933
25°	6977	6708	6805
30°	6855	6548	6653
35°	6708	6371	6504
40°	6553	6185	6321
45°	6386	5979	6120
50°	6177	5741	5902
55°	5948	5477	5658
60°	5677	5129	5366
65°	5267	4738	5083
70°	4696	4272	4748
75°	3914	3761	4470
80°	2805	3264	4262
85°	1350	2770	4147



TEST NUMBER: P580170

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	3.1
10°-20°	372.5	9.0
20°-30°	565.2	13.6
30°-40°	683.4	16.5
40°-50°	713.1	17.2
50°-60°	652.0	15.7
60°-70°	508.2	12.2
70°-80°	317.9	7.7
80°-90°	144.4	3.5
90°-100°	48.4	1.2
100°-110°	12.1	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°	1067.5	25.7
0°-40°	1750.9	42.2
0°-60°	3116.0	75.1
0°-90°	4086.5	98.5
90°-120°	62.5	1.5
90°-150°	62.5	1.5
90°-180°	62.0	1.5
0°-180°	4149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1369	1367	1361	1367	1367	130
15°	1317	1320	1316	1323	1323	372
25°	1220	1222	1223	1233	1235	562
35°	1080	1085	1090	1101	1105	676
45°	909	917	924	934	938	700
55°	709	718	731	742	747	634
65°	488	496	513	533	542	482
75°	247	262	300	336	349	263
85°	43	79	136	179	195	54
90°	0	29	80	120	135	2
95°	0	8	41	75	87	0
105°	1	1	7	20	27	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	



TEST NUMBER: P580170

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1372.2	1372.2	1372.2	1372.2	1372.2
2.5°	1373.9	1371.9	1365.8	1371.9	1371.6
5°	1369.3	1366.7	1360.6	1367.1	1367.1
7.5°	1360.3	1359.3	1353.8	1361.2	1361.2
10°	1349.6	1349.3	1344.7	1352.8	1353.2
12.5°	1334.7	1336.0	1331.8	1339.6	1340.5
15°	1317.2	1319.5	1316.0	1323.4	1323.1
17.5°	1298.2	1299.5	1296.9	1305.3	1305.0
20°	1274.5	1276.2	1274.2	1283.0	1283.9
22.5°	1248.3	1250.6	1250.3	1259.3	1261.9
25°	1220.5	1221.5	1222.8	1233.1	1235.1
27.5°	1189.8	1191.4	1193.7	1203.1	1205.0
30°	1156.1	1158.7	1161.3	1171.0	1173.6
32.5°	1120.6	1123.2	1126.4	1139.0	1140.3
35°	1080.5	1085.3	1089.8	1100.8	1105.4
37.5°	1040.3	1046.5	1050.7	1062.3	1065.9
40°	998.0	1004.1	1010.9	1023.2	1025.5
42.5°	953.6	960.8	968.8	979.8	983.7
45°	909.0	917.1	924.5	933.6	938.1
47.5°	860.8	868.9	877.9	888.3	891.2
50°	811.0	820.4	830.1	839.8	845.0
52.5°	759.9	771.2	782.2	792.5	797.4
55°	709.4	717.8	731.1	741.8	746.6
57.5°	657.0	664.1	676.1	693.6	696.1
60°	603.6	610.1	622.4	636.6	642.4
62.5°	544.8	553.5	566.4	584.5	589.7
65°	487.5	495.9	513.1	533.4	541.8
67.5°	432.2	435.1	457.1	478.4	492.0
70°	366.8	377.8	403.4	429.6	439.9
72.5°	310.5	321.5	349.7	380.4	393.4
75°	246.8	262.0	300.2	336.1	348.7
77.5°	190.9	207.7	254.9	291.1	305.7
80°	133.3	159.5	210.9	251.7	267.5
82.5°	83.8	116.1	171.1	213.8	227.7
85°	42.7	78.9	135.5	179.2	195.1
87.5°	11.3	51.1	105.5	147.2	163.4
90°	0.3	29.4	79.9	120.0	134.6
92.5°	0.3	16.5	59.5	95.4	110.3
95°	0.3	7.8	41.4	75.0	86.7
97.5°	0.3	3.2	28.5	56.6	68.3
100°	0.3	1.6	18.1	41.1	51.1
102.5°	0.6	1.0	11.3	29.4	37.5
105°	0.6	1.0	6.8	20.1	26.8



TEST NUMBER: P580170

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	1.0	1.3	5.5	8.1
115°	1.0	1.0	1.3	3.6	5.2
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	3.9	13.6	18.4
110°	1.0	1.0	2.3	8.4	12.3



(END OF REPORT)