

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: P580178

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580178
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-LD4-3STD-50-UNV-O-EDD
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

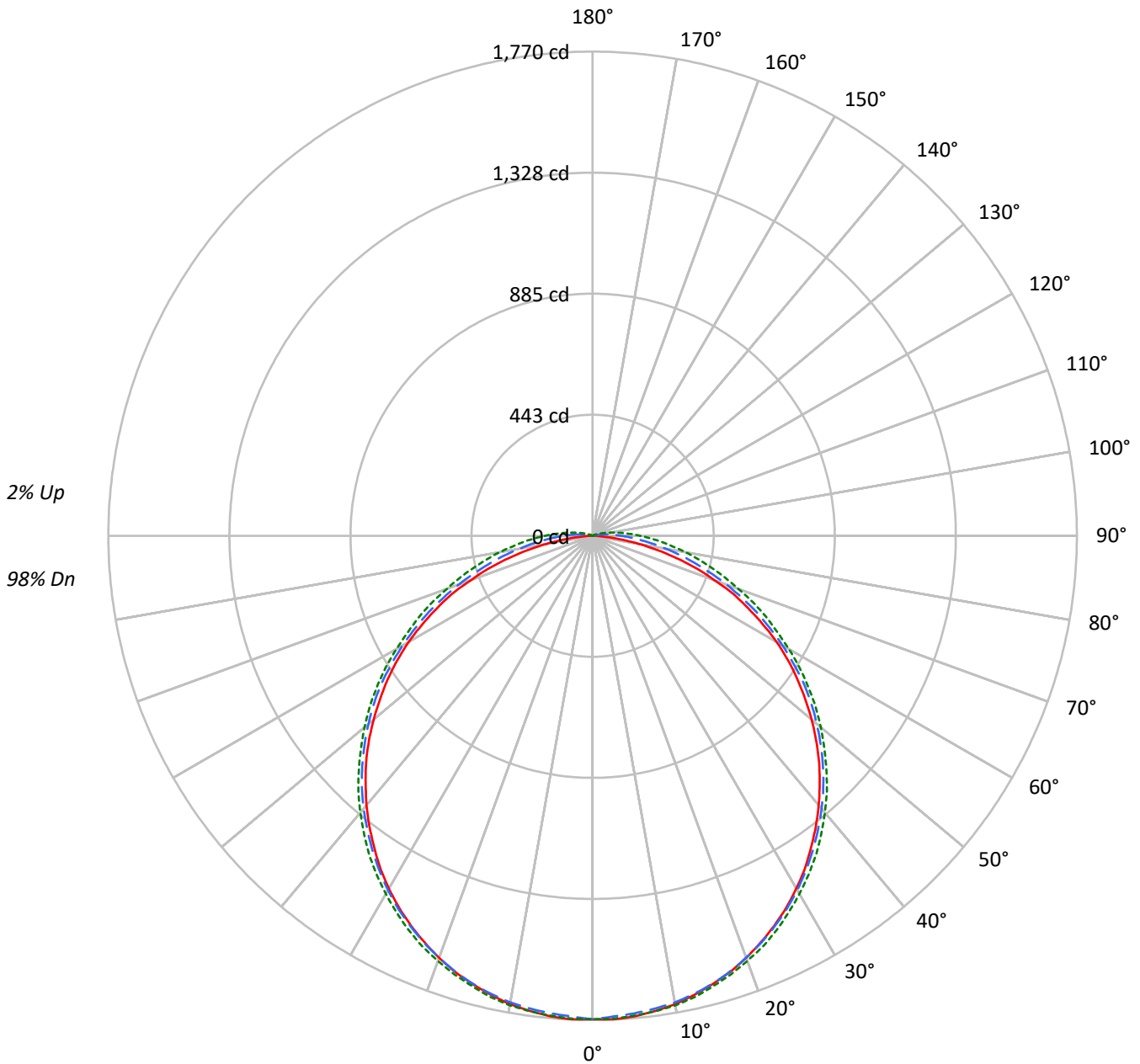
Lumens per Lamp: N/A
Luminaire Lumens: 5344.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 50.6
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				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°	9513	9513	9513
5°	9459	9324	9376
10°	9362	9180	9253
15°	9247	9017	9089
20°	9125	8831	8930
25°	8986	8640	8765
30°	8829	8435	8569
35°	8639	8207	8376
40°	8440	7966	8141
45°	8226	7702	7883
50°	7956	7393	7602
55°	7661	7055	7289
60°	7313	6606	6912
65°	6784	6102	6547
70°	6050	5503	6116
75°	5042	4844	5758
80°	3613	4205	5490
85°	1739	3569	5339



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	3.1
10°-20°	479.8	9.0
20°-30°	728.0	13.6
30°-40°	880.2	16.5
40°-50°	918.5	17.2
50°-60°	839.7	15.7
60°-70°	654.6	12.2
70°-80°	409.5	7.7
80°-90°	186.0	3.5
90°-100°	62.3	1.2
100°-110°	15.6	0.3
110°-120°	2.5	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°	1375.0	25.7
0°-40°	2255.2	42.2
0°-60°	4013.4	75.1
0°-90°	5263.6	98.5
90°-120°	80.4	1.5
90°-150°	80.4	1.5
90°-180°	80.0	1.5
0°-180°	5344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1768	1768	1768	1768	1768	
5°	1764	1760	1752	1761	1761	167
15°	1697	1700	1695	1705	1704	479
25°	1572	1573	1575	1588	1591	724
35°	1392	1398	1404	1418	1424	871
45°	1171	1181	1191	1202	1208	902
55°	914	925	942	955	962	816
65°	628	639	661	687	698	621
75°	318	338	387	433	449	339
85°	55	102	175	231	251	70
90°	0	38	103	155	173	2
95°	0	10	53	97	112	0
105°	1	1	9	26	35	1
115°	1	1	2	5	7	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°	1767.5	1767.5	1767.5	1767.5	1767.5
2.5°	1769.6	1767.1	1759.1	1767.1	1766.6
5°	1763.7	1760.4	1752.5	1760.8	1760.8
7.5°	1752.1	1750.8	1743.7	1753.3	1753.3
10°	1738.3	1737.9	1732.1	1742.5	1742.9
12.5°	1719.1	1720.8	1715.4	1725.4	1726.6
15°	1696.6	1699.6	1695.0	1704.6	1704.1
17.5°	1672.1	1673.7	1670.4	1681.2	1680.8
20°	1641.6	1643.7	1641.2	1652.5	1653.7
22.5°	1607.9	1610.8	1610.4	1622.1	1625.4
25°	1572.1	1573.3	1575.0	1588.3	1590.8
27.5°	1532.5	1534.6	1537.5	1549.6	1552.1
30°	1489.1	1492.5	1495.8	1508.3	1511.6
32.5°	1443.3	1446.6	1450.8	1467.1	1468.7
35°	1391.6	1397.9	1403.7	1417.9	1423.7
37.5°	1340.0	1347.9	1353.3	1368.3	1372.9
40°	1285.4	1293.3	1302.1	1317.9	1320.8
42.5°	1228.3	1237.5	1247.9	1262.1	1267.1
45°	1170.8	1181.2	1190.8	1202.5	1208.3
47.5°	1108.7	1119.1	1130.8	1144.1	1147.9
50°	1044.6	1056.7	1069.1	1081.6	1088.3
52.5°	978.7	993.3	1007.5	1020.8	1027.1
55°	913.7	924.6	941.7	955.4	961.7
57.5°	846.2	855.4	870.8	893.3	896.7
60°	777.5	785.8	801.7	820.0	827.5
62.5°	701.7	712.9	729.6	752.9	759.6
65°	627.9	638.7	660.8	687.1	697.9
67.5°	556.7	560.4	588.7	616.2	633.7
70°	472.5	486.7	519.6	553.3	566.7
72.5°	400.0	414.2	450.4	490.0	506.7
75°	317.9	337.5	386.7	432.9	449.2
77.5°	245.8	267.5	328.3	375.0	393.7
80°	171.7	205.4	271.7	324.2	344.6
82.5°	107.9	149.6	220.4	275.4	293.3
85°	55.0	101.7	174.6	230.8	251.2
87.5°	14.6	65.8	135.8	189.6	210.4
90°	0.4	37.9	102.9	154.6	173.3
92.5°	0.4	21.2	76.7	122.9	142.1
95°	0.4	10.0	53.3	96.7	111.7
97.5°	0.4	4.2	36.7	72.9	87.9
100°	0.4	2.1	23.3	52.9	65.8
102.5°	0.8	1.2	14.6	37.9	48.3
105°	0.8	1.2	8.7	25.8	34.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	1.2	1.7	7.1	10.4
115°	1.2	1.2	1.7	4.6	6.7
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°	0.8	1.2	5.0	17.5	23.7
110°	1.2	1.2	2.9	10.8	15.8



(END OF REPORT)