

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: P580551

Luminaire Tested: **HVSL4-3-LD4-2LO-40-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580551
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: HVSL4-3-LD4-2LO-40-UNV-O-EDD-90
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

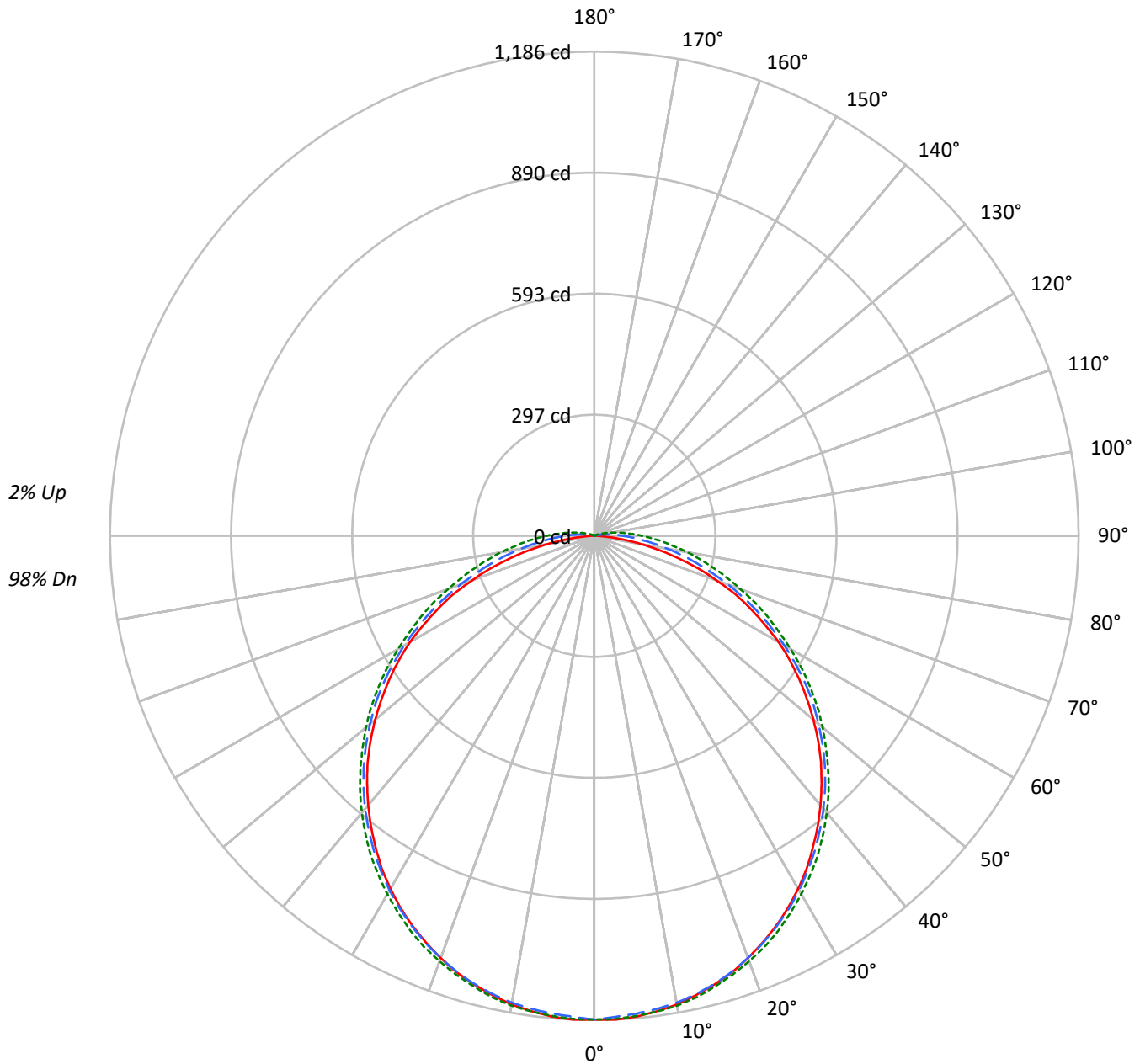
Lumens per Lamp: N/A
Luminaire Lumens: 3583.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 34.7
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					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	12755	12755	12755
5°	12715	12274	12222
10°	12615	11871	11738
15°	12490	11457	11228
20°	12358	11028	10745
25°	12202	10600	10272
30°	12023	10160	9775
35°	11802	9699	9290
40°	11570	9225	8766
45°	11321	8725	8221
50°	11000	8175	7656
55°	10651	7590	7059
60°	10237	6885	6400
65°	9581	6125	5750
70°	8650	5273	5036
75°	7344	4371	4369
80°	5425	3496	3733
85°	2787	2634	3099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	3.1
10°-20°	321.7	9.0
20°-30°	488.1	13.6
30°-40°	590.2	16.5
40°-50°	615.8	17.2
50°-60°	563.0	15.7
60°-70°	438.9	12.2
70°-80°	274.5	7.7
80°-90°	124.7	3.5
90°-100°	41.8	1.2
100°-110°	10.5	0.3
110°-120°	1.6	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°	921.9	25.7
0°-40°	1512.1	42.2
0°-60°	2690.9	75.1
0°-90°	3529.1	98.5
90°-120°	53.9	1.5
90°-150°	53.9	1.5
90°-180°	54.0	1.5
0°-180°	3583.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1182	1180	1175	1181	1181	112
15°	1138	1140	1136	1143	1143	321
25°	1054	1055	1056	1065	1067	486
35°	933	937	941	951	955	584
45°	785	792	798	806	810	605
55°	613	620	631	641	645	547
65°	421	428	443	461	468	417
75°	213	226	259	290	301	227
85°	37	68	117	155	168	47
90°	0	25	69	104	116	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°	1185.0	1185.0	1185.0	1185.0	1185.0
2.5°	1186.4	1184.8	1179.5	1184.8	1184.5
5°	1182.5	1180.3	1175.0	1180.6	1180.6
7.5°	1174.7	1173.9	1169.1	1175.5	1175.5
10°	1165.5	1165.2	1161.3	1168.3	1168.6
12.5°	1152.6	1153.8	1150.1	1156.8	1157.7
15°	1137.5	1139.5	1136.4	1142.9	1142.6
17.5°	1121.1	1122.2	1119.9	1127.2	1126.9
20°	1100.7	1102.1	1100.4	1107.9	1108.8
22.5°	1078.0	1080.0	1079.7	1087.5	1089.8
25°	1054.0	1054.9	1056.0	1064.9	1066.6
27.5°	1027.5	1028.9	1030.8	1038.9	1040.6
30°	998.4	1000.7	1002.9	1011.3	1013.5
32.5°	967.7	969.9	972.7	983.6	984.7
35°	933.1	937.2	941.2	950.7	954.6
37.5°	898.4	903.7	907.4	917.4	920.5
40°	861.8	867.1	873.0	883.6	885.6
42.5°	823.5	829.7	836.7	846.2	849.5
45°	785.0	792.0	798.4	806.2	810.1
47.5°	743.4	750.4	758.2	767.1	769.6
50°	700.4	708.5	716.8	725.2	729.7
52.5°	656.2	666.0	675.5	684.4	688.6
55°	612.6	619.9	631.4	640.6	644.8
57.5°	567.4	573.5	583.9	598.9	601.2
60°	521.3	526.9	537.5	549.8	554.8
62.5°	470.4	478.0	489.2	504.8	509.3
65°	421.0	428.3	443.1	460.7	467.9
67.5°	373.2	375.7	394.7	413.2	424.9
70°	316.8	326.3	348.4	371.0	379.9
72.5°	268.2	277.7	302.0	328.5	339.7
75°	213.2	226.3	259.2	290.3	301.1
77.5°	164.8	179.3	220.1	251.4	264.0
80°	115.1	137.7	182.1	217.3	231.0
82.5°	72.4	100.3	147.8	184.7	196.7
85°	36.9	68.2	117.1	154.8	168.5
87.5°	9.8	44.1	91.1	127.1	141.1
90°	0.3	25.4	69.0	103.6	116.2
92.5°	0.3	14.2	51.4	82.4	95.3
95°	0.3	6.7	35.8	64.8	74.9
97.5°	0.3	2.8	24.6	48.9	58.9
100°	0.3	1.4	15.6	35.5	44.1
102.5°	0.6	0.8	9.8	25.4	32.4
105°	0.6	0.8	5.9	17.3	23.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.1	4.7	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	11.7	15.9
110°	0.8	0.8	2.0	7.3	10.6



(END OF REPORT)