

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: P580552

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580552
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
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

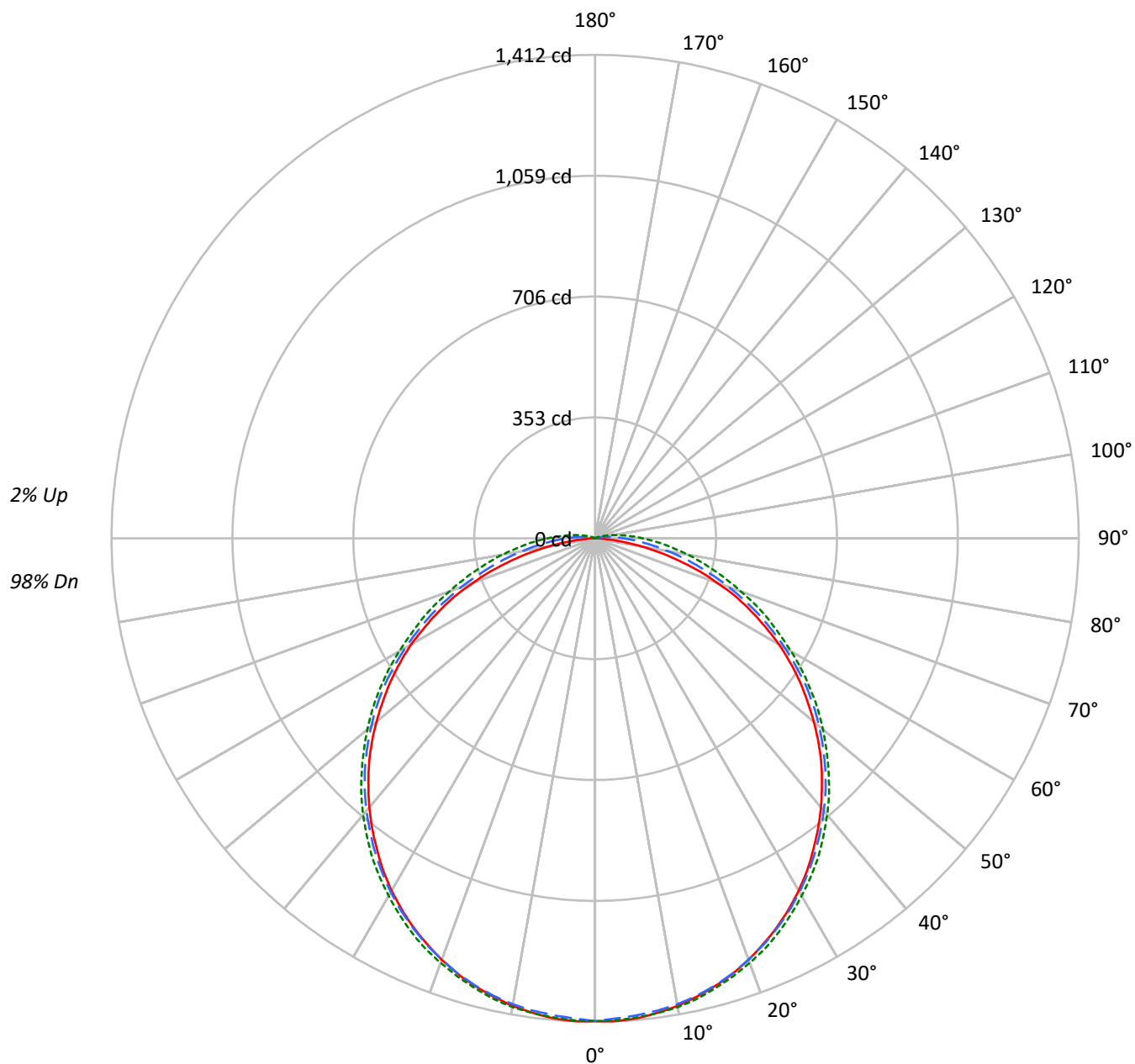
Lumens per Lamp: N/A
Luminaire Lumens: 4264.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

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°	15180	15180	15180
5°	15132	14607	14545
10°	15013	14127	13969
15°	14865	13635	13362
20°	14707	13123	12787
25°	14522	12614	12224
30°	14309	12091	11632
35°	14045	11542	11056
40°	13769	10978	10431
45°	13472	10384	9783
50°	13091	9730	9112
55°	12677	9031	8400
60°	12183	8193	7617
65°	11402	7289	6844
70°	10293	6275	5993
75°	8739	5202	5200
80°	6457	4163	4442
85°	3316	3133	3687



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	3.1
10°-20°	382.8	9.0
20°-30°	580.8	13.6
30°-40°	702.3	16.5
40°-50°	732.8	17.2
50°-60°	670.0	15.7
60°-70°	522.3	12.2
70°-80°	326.7	7.7
80°-90°	148.4	3.5
90°-100°	49.7	1.2
100°-110°	12.5	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°	1097.1	25.7
0°-40°	1799.5	42.2
0°-60°	3202.3	75.1
0°-90°	4199.8	98.5
90°-120°	64.2	1.5
90°-150°	64.2	1.5
90°-180°	64.0	1.5
0°-180°	4264.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1410	1410	1410	1410	1410	
5°	1407	1405	1398	1405	1405	134
15°	1354	1356	1352	1360	1360	382
25°	1254	1255	1257	1267	1269	578
35°	1110	1115	1120	1131	1136	695
45°	934	942	950	960	964	720
55°	729	738	751	762	767	651
65°	501	510	527	548	557	496
75°	254	269	308	345	358	270
85°	44	81	139	184	200	56
90°	0	30	82	123	138	2
95°	0	8	43	77	89	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1410.3	1410.3	1410.3	1410.3	1410.3
2.5°	1411.9	1409.9	1403.6	1409.9	1409.6
5°	1407.3	1404.6	1398.3	1405.0	1405.0
7.5°	1398.0	1397.0	1391.3	1399.0	1399.0
10°	1387.0	1386.7	1382.0	1390.3	1390.7
12.5°	1371.7	1373.0	1368.7	1376.7	1377.7
15°	1353.8	1356.1	1352.4	1360.1	1359.7
17.5°	1334.1	1335.5	1332.8	1341.5	1341.1
20°	1309.9	1311.5	1309.5	1318.5	1319.5
22.5°	1282.9	1285.3	1284.9	1294.2	1296.9
25°	1254.4	1255.3	1256.7	1267.3	1269.3
27.5°	1222.8	1224.4	1226.8	1236.4	1238.4
30°	1188.2	1190.9	1193.5	1203.5	1206.1
32.5°	1151.6	1154.3	1157.6	1170.6	1171.9
35°	1110.4	1115.4	1120.0	1131.3	1136.0
37.5°	1069.2	1075.5	1079.8	1091.8	1095.4
40°	1025.6	1031.9	1038.9	1051.6	1053.9
42.5°	980.1	987.4	995.7	1007.0	1011.0
45°	934.2	942.5	950.2	959.5	964.1
47.5°	884.7	893.0	902.3	912.9	915.9
50°	833.5	843.1	853.1	863.1	868.4
52.5°	780.9	792.6	803.9	814.5	819.5
55°	729.1	737.7	751.3	762.3	767.3
57.5°	675.2	682.5	694.8	712.8	715.4
60°	620.4	627.0	639.6	654.3	660.3
62.5°	559.9	568.8	582.1	600.7	606.1
65°	501.0	509.7	527.3	548.2	556.9
67.5°	444.2	447.2	469.8	491.7	505.7
70°	377.0	388.3	414.6	441.5	452.1
72.5°	319.2	330.5	359.4	391.0	404.3
75°	253.7	269.3	308.5	345.4	358.4
77.5°	196.1	213.4	262.0	299.2	314.2
80°	137.0	163.9	216.8	258.6	274.9
82.5°	86.1	119.4	175.9	219.8	234.0
85°	43.9	81.1	139.3	184.2	200.5
87.5°	11.6	52.5	108.4	151.3	167.9
90°	0.3	30.3	82.1	123.3	138.3
92.5°	0.3	17.0	61.2	98.1	113.4
95°	0.3	8.0	42.6	77.1	89.1
97.5°	0.3	3.3	29.3	58.2	70.1
100°	0.3	1.7	18.6	42.2	52.5
102.5°	0.7	1.0	11.6	30.3	38.6
105°	0.7	1.0	7.0	20.6	27.6



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CATALOG NUMBER: HVSL4-3-LD4-2LO-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	1.0	1.3	5.7	8.3
115°	1.0	1.0	1.3	3.7	5.3
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	4.0	14.0	18.9
110°	1.0	1.0	2.3	8.6	12.6



(END OF REPORT)