

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: P580516

Luminaire Tested: **HVSL4-3-LD4-1HI-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580516
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-LD4-1HI-30-UNV-O-EDD
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

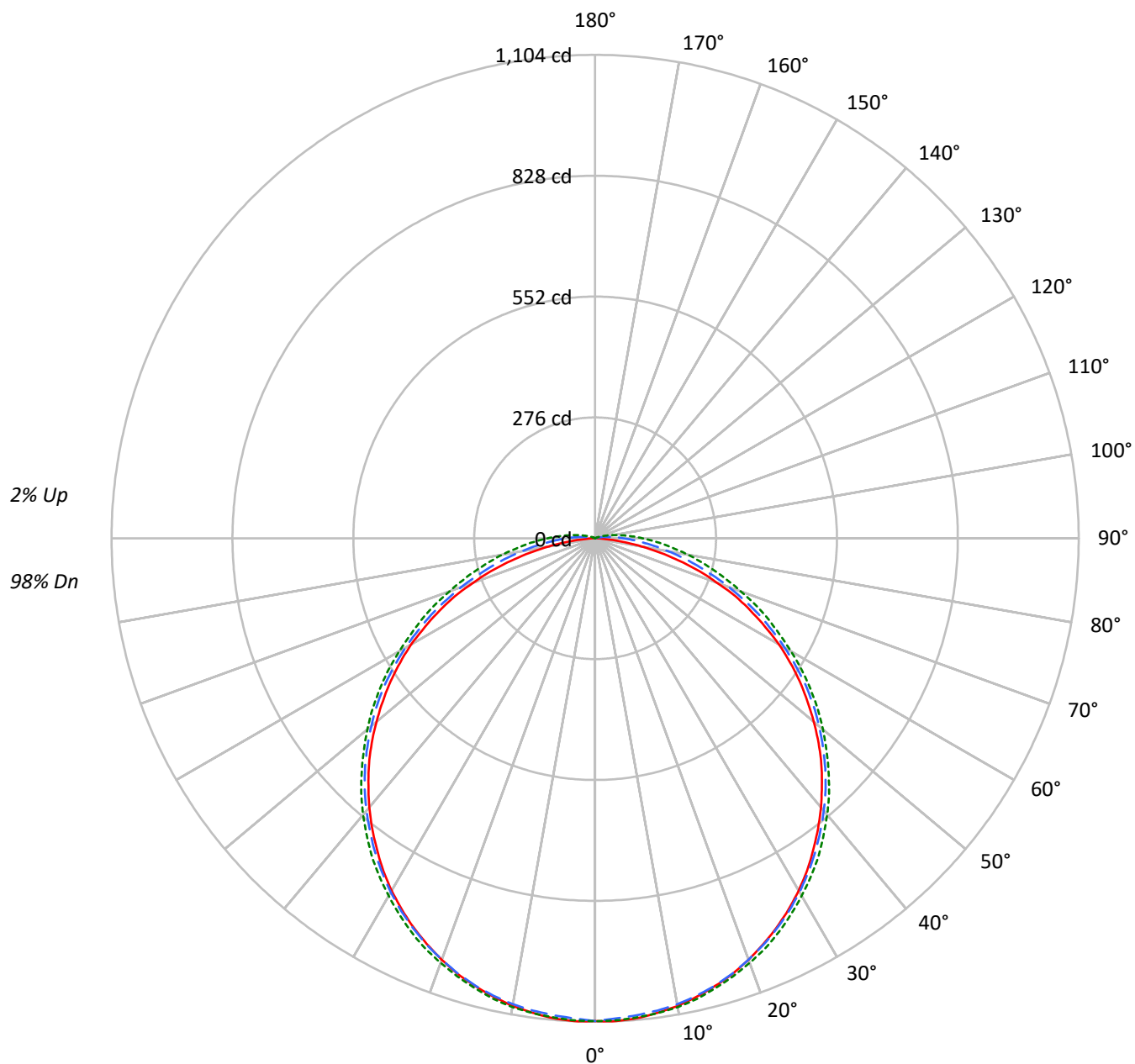
Lumens per Lamp: N/A
Luminaire Lumens: 3334.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 32.3
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°	11869	11869	11869
5°	11831	11421	11372
10°	11739	11046	10921
15°	11622	10662	10448
20°	11499	10261	9998
25°	11354	9863	9559
30°	11188	9454	9096
35°	10981	9025	8644
40°	10766	8584	8156
45°	10533	8119	7649
50°	10235	7607	7124
55°	9912	7062	6568
60°	9526	6406	5956
65°	8914	5699	5351
70°	8049	4906	4686
75°	6831	4067	4065
80°	5048	3255	3474
85°	2591	2449	2882



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	3.1
10°-20°	299.3	9.0
20°-30°	454.2	13.6
30°-40°	549.2	16.5
40°-50°	573.0	17.2
50°-60°	523.9	15.7
60°-70°	408.4	12.2
70°-80°	255.5	7.7
80°-90°	116.0	3.5
90°-100°	38.9	1.2
100°-110°	9.8	0.3
110°-120°	1.5	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°	857.8	25.7
0°-40°	1407.0	42.2
0°-60°	2503.9	75.1
0°-90°	3283.8	98.5
90°-120°	50.2	1.5
90°-150°	50.2	1.5
90°-180°	50.0	1.5
0°-180°	3334.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1103	1103	1103	1103	1103	
5°	1100	1098	1093	1098	1098	104
15°	1058	1060	1058	1063	1063	299
25°	981	982	983	991	992	452
35°	868	872	876	885	888	543
45°	730	737	743	750	754	563
55°	570	577	588	596	600	509
65°	392	398	412	429	435	388
75°	198	211	241	270	280	211
85°	34	63	109	144	157	43
90°	0	24	64	96	108	1
95°	0	6	33	60	70	0
105°	0	1	6	16	22	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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CATALOG NUMBER: HVSL4-3-LD4-1HI-30-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.7	1102.7	1102.7	1102.7	1102.7
2.5°	1104.0	1102.4	1097.5	1102.4	1102.2
5°	1100.3	1098.3	1093.3	1098.5	1098.5
7.5°	1093.1	1092.3	1087.9	1093.8	1093.8
10°	1084.5	1084.2	1080.6	1087.1	1087.3
12.5°	1072.5	1073.6	1070.2	1076.4	1077.2
15°	1058.5	1060.3	1057.5	1063.4	1063.2
17.5°	1043.2	1044.2	1042.1	1048.9	1048.6
20°	1024.2	1025.5	1023.9	1030.9	1031.7
22.5°	1003.1	1004.9	1004.7	1012.0	1014.0
25°	980.8	981.6	982.6	990.9	992.5
27.5°	956.1	957.4	959.2	966.7	968.3
30°	929.0	931.1	933.2	941.0	943.1
32.5°	900.4	902.5	905.1	915.3	916.3
35°	868.2	872.1	875.8	884.6	888.2
37.5°	836.0	840.9	844.3	853.7	856.5
40°	801.9	806.9	812.3	822.2	824.0
42.5°	766.3	772.0	778.5	787.4	790.5
45°	730.4	736.9	742.9	750.2	753.8
47.5°	691.7	698.2	705.5	713.8	716.1
50°	651.7	659.2	667.0	674.8	679.0
52.5°	610.6	619.7	628.5	636.9	640.8
55°	570.1	576.8	587.5	596.1	600.0
57.5°	527.9	533.7	543.3	557.3	559.4
60°	485.1	490.3	500.1	511.6	516.3
62.5°	437.7	444.8	455.2	469.7	473.9
65°	391.7	398.5	412.3	428.6	435.4
67.5°	347.3	349.6	367.3	384.5	395.4
70°	294.8	303.6	324.2	345.2	353.5
72.5°	249.5	258.4	281.0	305.7	316.1
75°	198.3	210.6	241.2	270.1	280.2
77.5°	153.4	166.9	204.8	234.0	245.6
80°	107.1	128.2	169.5	202.2	215.0
82.5°	67.3	93.3	137.5	171.8	183.0
85°	34.3	63.4	108.9	144.0	156.7
87.5°	9.1	41.1	84.7	118.3	131.3
90°	0.3	23.7	64.2	96.4	108.1
92.5°	0.3	13.3	47.8	76.7	88.6
95°	0.3	6.2	33.3	60.3	69.7
97.5°	0.3	2.6	22.9	45.5	54.8
100°	0.3	1.3	14.6	33.0	41.1
102.5°	0.5	0.8	9.1	23.7	30.2
105°	0.5	0.8	5.5	16.1	21.6



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CATALOG NUMBER: HVSL4-3-LD4-1HI-30-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.0	4.4	6.5
115°	0.8	0.8	1.0	2.9	4.2
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°	0.5	0.8	3.1	10.9	14.8
110°	0.8	0.8	1.8	6.8	9.9



(END OF REPORT)