

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: P580518

Luminaire Tested: **HVSL4-3-LD4-1HI-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580518
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-35-UNV-O-EDD
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

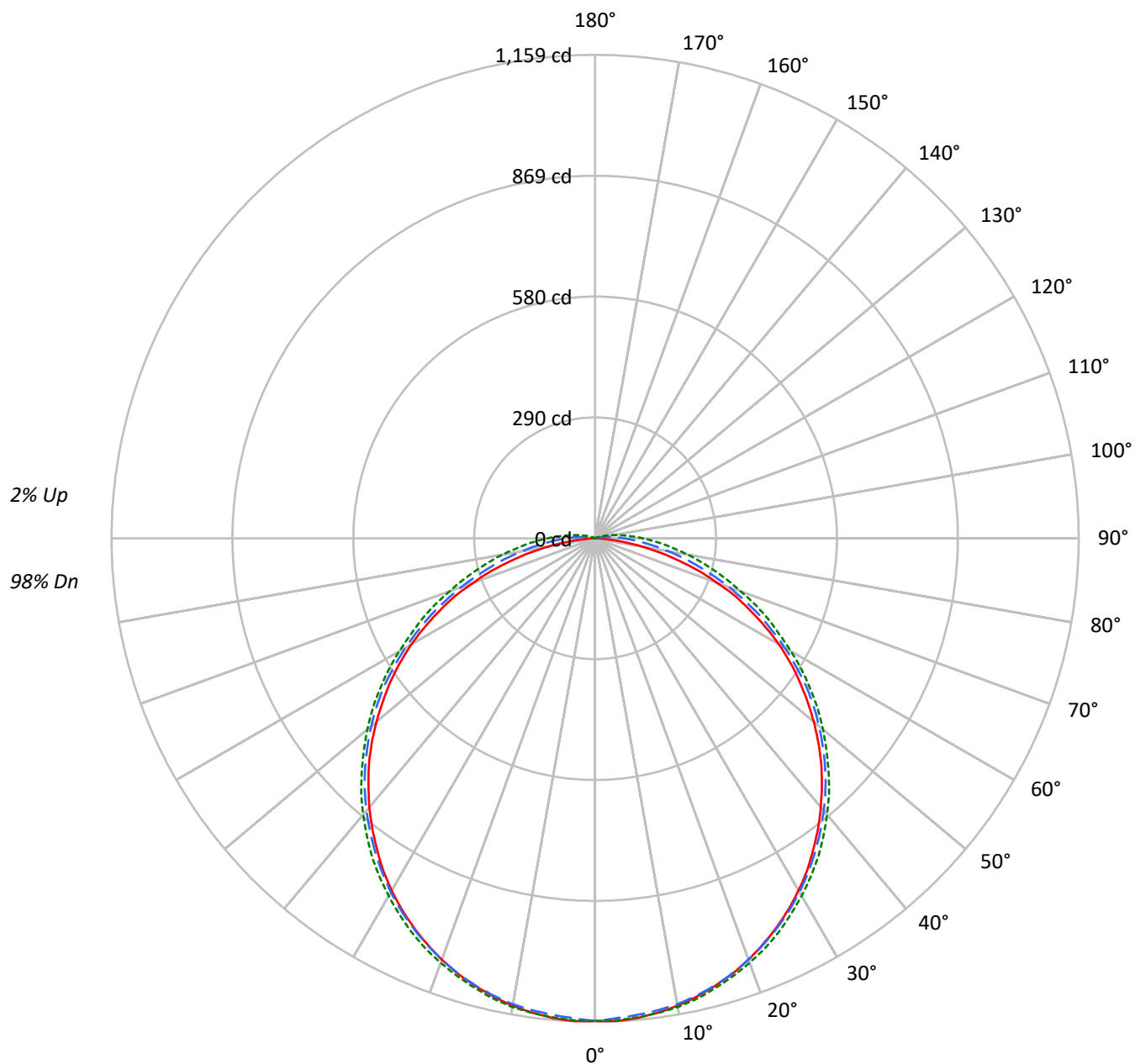
Lumens per Lamp: N/A
Luminaire Lumens: 3499.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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°	12457	12457	12457
5°	12417	11986	11935
10°	12320	11593	11463
15°	12198	11189	10965
20°	12069	10769	10493
25°	11916	10351	10031
30°	11742	9922	9546
35°	11525	9471	9072
40°	11299	9009	8560
45°	11055	8521	8028
50°	10741	7984	7477
55°	10402	7411	6893
60°	9998	6724	6250
65°	9356	5981	5616
70°	8448	5149	4918
75°	7172	4270	4267
80°	5298	3416	3645
85°	2719	2571	3025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	3.1
10°-20°	314.1	9.0
20°-30°	476.6	13.6
30°-40°	576.3	16.5
40°-50°	601.4	17.2
50°-60°	549.8	15.7
60°-70°	428.6	12.2
70°-80°	268.1	7.7
80°-90°	121.8	3.5
90°-100°	40.8	1.2
100°-110°	10.2	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°	900.3	25.7
0°-40°	1476.6	42.2
0°-60°	2627.8	75.1
0°-90°	3446.3	98.5
90°-120°	52.7	1.5
90°-150°	52.7	1.5
90°-180°	53.0	1.5
0°-180°	3499.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1157	1157	1157	1157	1157	
5°	1155	1153	1147	1153	1153	110
15°	1111	1113	1110	1116	1116	314
25°	1029	1030	1031	1040	1042	474
35°	911	915	919	928	932	570
45°	767	773	780	787	791	591
55°	598	605	616	626	630	534
65°	411	418	433	450	457	407
75°	208	221	253	283	294	222
85°	36	67	114	151	164	46
90°	0	25	67	101	114	1
95°	0	6	35	63	73	0
105°	0	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°	1157.3	1157.3	1157.3	1157.3	1157.3
2.5°	1158.6	1157.0	1151.8	1157.0	1156.7
5°	1154.8	1152.6	1147.4	1152.9	1152.9
7.5°	1147.2	1146.3	1141.7	1148.0	1148.0
10°	1138.2	1137.9	1134.1	1140.9	1141.2
12.5°	1125.6	1126.7	1123.2	1129.7	1130.5
15°	1110.9	1112.8	1109.8	1116.1	1115.8
17.5°	1094.8	1095.9	1093.7	1100.8	1100.5
20°	1074.9	1076.2	1074.6	1082.0	1082.8
22.5°	1052.8	1054.7	1054.4	1062.0	1064.2
25°	1029.3	1030.1	1031.2	1039.9	1041.6
27.5°	1003.4	1004.8	1006.7	1014.6	1016.2
30°	975.0	977.2	979.4	987.6	989.8
32.5°	945.0	947.2	949.9	960.6	961.7
35°	911.2	915.3	919.1	928.4	932.2
37.5°	877.4	882.5	886.1	895.9	898.9
40°	841.6	846.8	852.5	862.9	864.8
42.5°	804.2	810.2	817.1	826.3	829.6
45°	766.6	773.4	779.7	787.3	791.1
47.5°	725.9	732.8	740.4	749.1	751.6
50°	683.9	691.8	700.0	708.2	712.6
52.5°	640.8	650.4	659.7	668.4	672.5
55°	598.3	605.4	616.5	625.6	629.6
57.5°	554.1	560.1	570.2	584.9	587.1
60°	509.1	514.5	524.9	536.9	541.8
62.5°	459.4	466.8	477.7	493.0	497.3
65°	411.1	418.2	432.7	449.9	457.0
67.5°	364.5	366.9	385.5	403.5	414.9
70°	309.4	318.6	340.2	362.3	371.0
72.5°	261.9	271.2	294.9	320.8	331.7
75°	208.2	221.0	253.2	283.4	294.1
77.5°	161.0	175.1	215.0	245.5	257.8
80°	112.4	134.5	177.9	212.2	225.6
82.5°	70.7	97.9	144.3	180.3	192.1
85°	36.0	66.6	114.3	151.1	164.5
87.5°	9.5	43.1	88.9	124.1	137.8
90°	0.3	24.8	67.4	101.2	113.5
92.5°	0.3	13.9	50.2	80.5	93.0
95°	0.3	6.5	34.9	63.3	73.1
97.5°	0.3	2.7	24.0	47.7	57.6
100°	0.3	1.4	15.3	34.6	43.1
102.5°	0.5	0.8	9.5	24.8	31.6
105°	0.5	0.8	5.7	16.9	22.6



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CATALOG NUMBER: HVSL4-3-LD4-1HI-35-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.1	4.6	6.8
115°	0.8	0.8	1.1	3.0	4.4
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	3.3	11.5	15.6
110°	0.8	0.8	1.9	7.1	10.4



(END OF REPORT)