

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: P580109

Luminaire Tested: **HVSL12-2-LD4-1HI-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580109
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-LD4-1HI-35-UNV-O-EDD-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

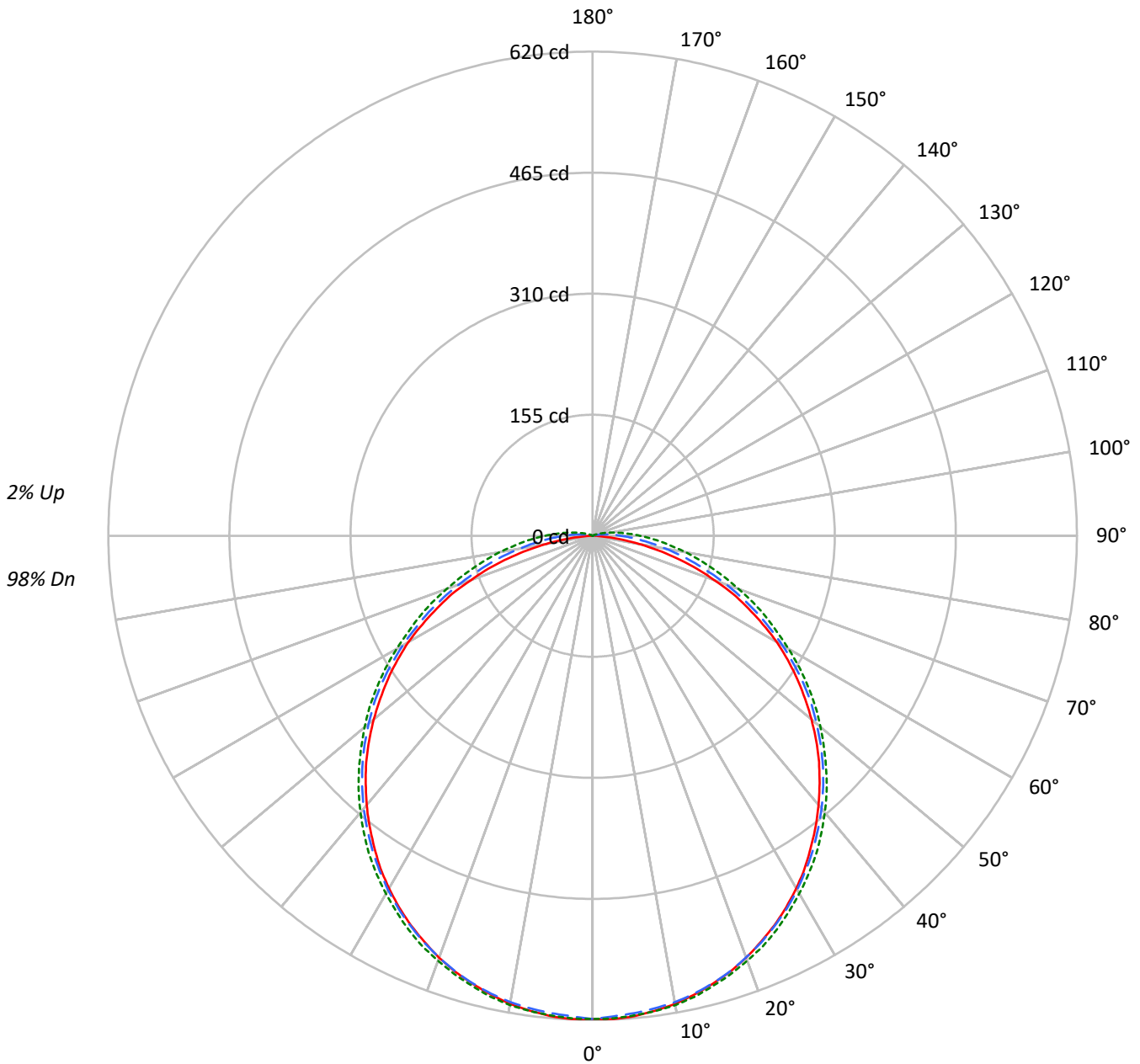
Lumens per Lamp: N/A
Luminaire Lumens: 1871.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 22.8
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°	3330	3330	3330
5°	3312	3264	3283
10°	3278	3214	3240
15°	3237	3157	3182
20°	3195	3092	3126
25°	3146	3025	3069
30°	3091	2953	3000
35°	3024	2873	2933
40°	2955	2789	2850
45°	2880	2696	2760
50°	2785	2589	2661
55°	2682	2470	2552
60°	2560	2313	2420
65°	2375	2137	2292
70°	2118	1926	2141
75°	1765	1696	2016
80°	1265	1472	1921
85°	610	1249	1870



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	3.1
10°-20°	168.0	9.0
20°-30°	254.9	13.6
30°-40°	308.2	16.5
40°-50°	321.6	17.2
50°-60°	294.0	15.7
60°-70°	229.2	12.2
70°-80°	143.4	7.7
80°-90°	65.1	3.5
90°-100°	21.8	1.2
100°-110°	5.5	0.3
110°-120°	0.9	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°	481.4	25.7
0°-40°	789.6	42.2
0°-60°	1405.2	75.1
0°-90°	1842.9	98.5
90°-120°	28.1	1.5
90°-150°	28.1	1.5
90°-180°	28.0	1.5
0°-180°	1871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	619	619	619	619	619	
5°	618	616	614	616	616	59
15°	594	595	593	597	597	168
25°	550	551	551	556	557	254
35°	487	489	492	496	498	305
45°	410	414	417	421	423	316
55°	320	324	330	334	337	286
65°	220	224	231	241	244	218
75°	111	118	135	152	157	119
85°	19	36	61	81	88	24
90°	0	13	36	54	61	1
95°	0	4	19	34	39	0
105°	0	0	3	9	12	0
115°	0	0	1	2	2	0
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°	618.8	618.8	618.8	618.8	618.8
2.5°	619.5	618.7	615.9	618.7	618.5
5°	617.5	616.3	613.6	616.5	616.5
7.5°	613.4	613.0	610.5	613.9	613.9
10°	608.6	608.5	606.4	610.1	610.2
12.5°	601.9	602.5	600.6	604.1	604.5
15°	594.0	595.0	593.4	596.8	596.6
17.5°	585.4	586.0	584.8	588.6	588.5
20°	574.8	575.5	574.6	578.6	579.0
22.5°	562.9	564.0	563.8	567.9	569.1
25°	550.4	550.8	551.4	556.1	557.0
27.5°	536.5	537.3	538.3	542.5	543.4
30°	521.4	522.5	523.7	528.1	529.2
32.5°	505.3	506.5	507.9	513.6	514.2
35°	487.2	489.4	491.5	496.4	498.5
37.5°	469.1	471.9	473.8	479.1	480.7
40°	450.0	452.8	455.9	461.4	462.4
42.5°	430.0	433.3	436.9	441.9	443.6
45°	409.9	413.6	416.9	421.0	423.0
47.5°	388.2	391.8	395.9	400.6	401.9
50°	365.7	369.9	374.3	378.7	381.0
52.5°	342.7	347.8	352.7	357.4	359.6
55°	319.9	323.7	329.7	334.5	336.7
57.5°	296.3	299.5	304.9	312.8	313.9
60°	272.2	275.1	280.7	287.1	289.7
62.5°	245.7	249.6	255.4	263.6	265.9
65°	219.8	223.6	231.4	240.6	244.3
67.5°	194.9	196.2	206.1	215.8	221.9
70°	165.4	170.4	181.9	193.7	198.4
72.5°	140.0	145.0	157.7	171.6	177.4
75°	111.3	118.2	135.4	151.6	157.3
77.5°	86.1	93.7	115.0	131.3	137.9
80°	60.1	71.9	95.1	113.5	120.6
82.5°	37.8	52.4	77.2	96.4	102.7
85°	19.3	35.6	61.1	80.8	88.0
87.5°	5.1	23.0	47.6	66.4	73.7
90°	0.1	13.3	36.0	54.1	60.7
92.5°	0.1	7.4	26.8	43.0	49.7
95°	0.1	3.5	18.7	33.8	39.1
97.5°	0.1	1.5	12.8	25.5	30.8
100°	0.1	0.7	8.2	18.5	23.0
102.5°	0.3	0.4	5.1	13.3	16.9
105°	0.3	0.4	3.1	9.0	12.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	0.6	2.5	3.6
115°	0.4	0.4	0.6	1.6	2.3
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°	0.3	0.4	1.8	6.1	8.3
110°	0.4	0.4	1.0	3.8	5.5



(END OF REPORT)