

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: P580112

Luminaire Tested: **HVSL12-2-LD4-1HI-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580112
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-40-UNV-O-EDD
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

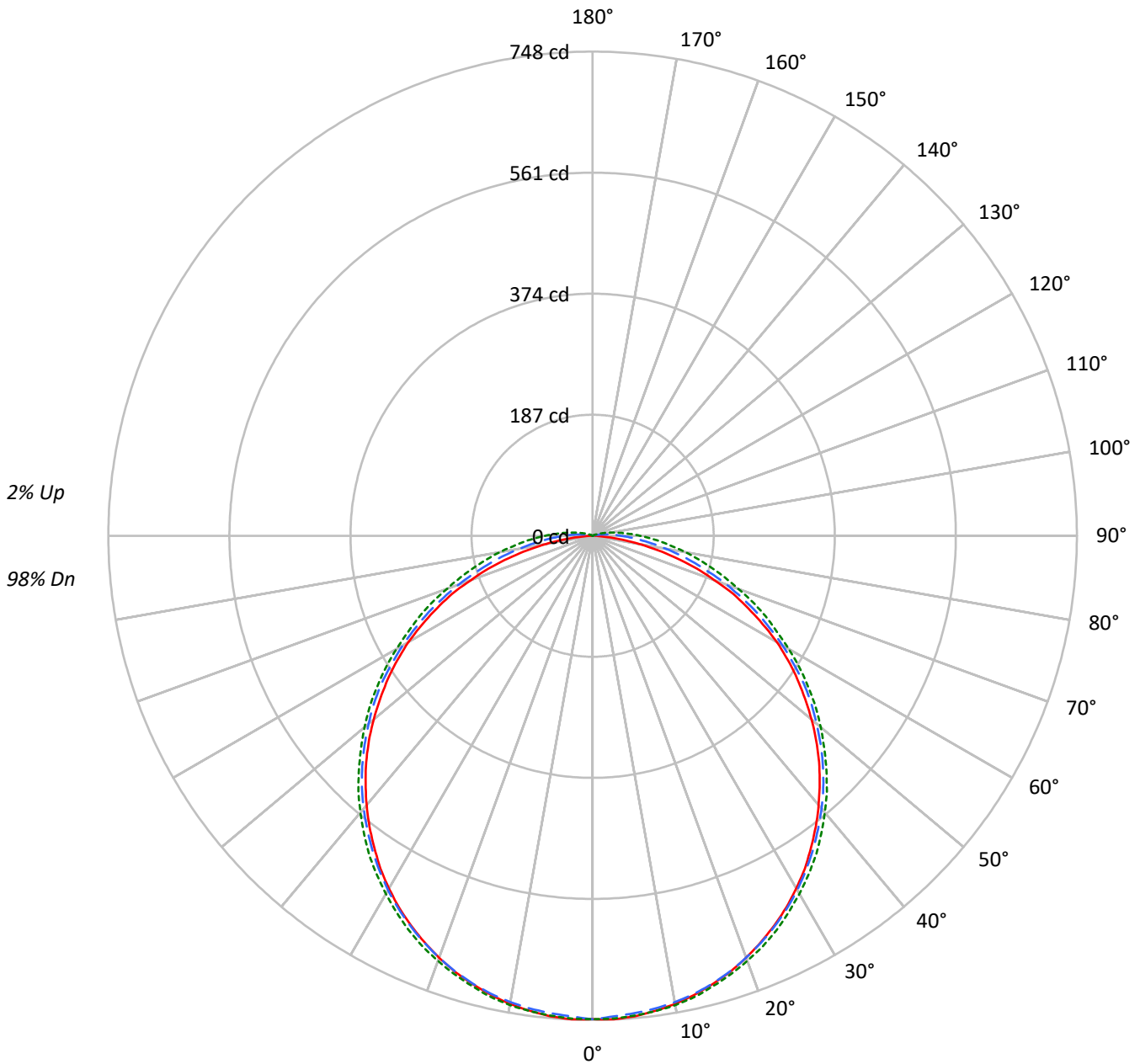
Lumens per Lamp: N/A
Luminaire Lumens: 2258.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

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									
RC	80									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°	4019	4019	4019
5°	3997	3940	3962
10°	3956	3878	3909
15°	3907	3810	3841
20°	3856	3732	3773
25°	3797	3651	3704
30°	3731	3564	3621
35°	3650	3467	3539
40°	3566	3366	3440
45°	3476	3255	3330
50°	3362	3124	3212
55°	3237	2981	3079
60°	3090	2791	2920
65°	2866	2578	2766
70°	2556	2325	2584
75°	2130	2047	2433
80°	1526	1777	2320
85°	734	1509	2257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	3.1
10°-20°	202.7	9.0
20°-30°	307.6	13.6
30°-40°	371.9	16.5
40°-50°	388.1	17.2
50°-60°	354.8	15.7
60°-70°	276.6	12.2
70°-80°	173.0	7.7
80°-90°	78.6	3.5
90°-100°	26.3	1.2
100°-110°	6.6	0.3
110°-120°	1.0	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°	581.0	25.7
0°-40°	952.9	42.2
0°-60°	1695.8	75.1
0°-90°	2224.0	98.5
90°-120°	34.0	1.5
90°-150°	34.0	1.5
90°-180°	34.0	1.5
0°-180°	2258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	745	744	740	744	744	71
15°	717	718	716	720	720	202
25°	664	665	666	671	672	306
35°	588	591	593	599	602	368
45°	495	499	503	508	510	381
55°	386	391	398	404	406	345
65°	265	270	279	290	295	263
75°	134	143	163	183	190	143
85°	23	43	74	98	106	29
90°	0	16	44	65	73	1
95°	0	4	22	41	47	0
105°	0	0	4	11	15	0
115°	0	0	1	2	3	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	746.8	746.8	746.8	746.8	746.8
2.5°	747.7	746.6	743.3	746.6	746.5
5°	745.2	743.8	740.5	744.0	744.0
7.5°	740.3	739.8	736.8	740.8	740.8
10°	734.5	734.3	731.8	736.2	736.4
12.5°	726.4	727.1	724.8	729.0	729.6
15°	716.9	718.1	716.2	720.2	720.1
17.5°	706.5	707.2	705.8	710.4	710.2
20°	693.6	694.5	693.5	698.2	698.7
22.5°	679.4	680.6	680.4	685.4	686.8
25°	664.2	664.8	665.5	671.1	672.2
27.5°	647.5	648.4	649.6	654.7	655.8
30°	629.2	630.6	632.0	637.3	638.7
32.5°	609.8	611.3	613.0	619.9	620.6
35°	588.0	590.7	593.1	599.1	601.6
37.5°	566.2	569.5	571.8	578.2	580.1
40°	543.1	546.5	550.2	556.9	558.1
42.5°	519.0	522.9	527.3	533.3	535.4
45°	494.7	499.1	503.2	508.1	510.5
47.5°	468.5	472.9	477.8	483.4	485.0
50°	441.4	446.5	451.7	457.0	459.8
52.5°	413.5	419.7	425.7	431.3	434.0
55°	386.1	390.7	397.9	403.7	406.3
57.5°	357.6	361.4	367.9	377.5	378.9
60°	328.5	332.0	338.7	346.5	349.6
62.5°	296.5	301.2	308.3	318.1	320.9
65°	265.3	269.9	279.2	290.3	294.9
67.5°	235.2	236.8	248.8	260.4	267.8
70°	199.6	205.6	219.5	233.8	239.4
72.5°	169.0	175.0	190.3	207.0	214.1
75°	134.3	142.6	163.4	182.9	189.8
77.5°	103.9	113.0	138.7	158.4	166.4
80°	72.5	86.8	114.8	137.0	145.6
82.5°	45.6	63.2	93.1	116.4	123.9
85°	23.2	43.0	73.8	97.5	106.2
87.5°	6.2	27.8	57.4	80.1	88.9
90°	0.2	16.0	43.5	65.3	73.2
92.5°	0.2	9.0	32.4	51.9	60.0
95°	0.2	4.2	22.5	40.8	47.2
97.5°	0.2	1.8	15.5	30.8	37.1
100°	0.2	0.9	9.9	22.4	27.8
102.5°	0.4	0.5	6.2	16.0	20.4
105°	0.4	0.5	3.7	10.9	14.6



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CATALOG NUMBER: HVSL12-2-LD4-1HI-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.7	3.0	4.4
115°	0.5	0.5	0.7	1.9	2.8
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°	0.4	0.5	2.1	7.4	10.0
110°	0.5	0.5	1.2	4.6	6.7



(END OF REPORT)