

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: P580140

Luminaire Tested: **HVSL12-2-LD4-2LO-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580140
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-LD4-2LO-30-UNV-O-EDD
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

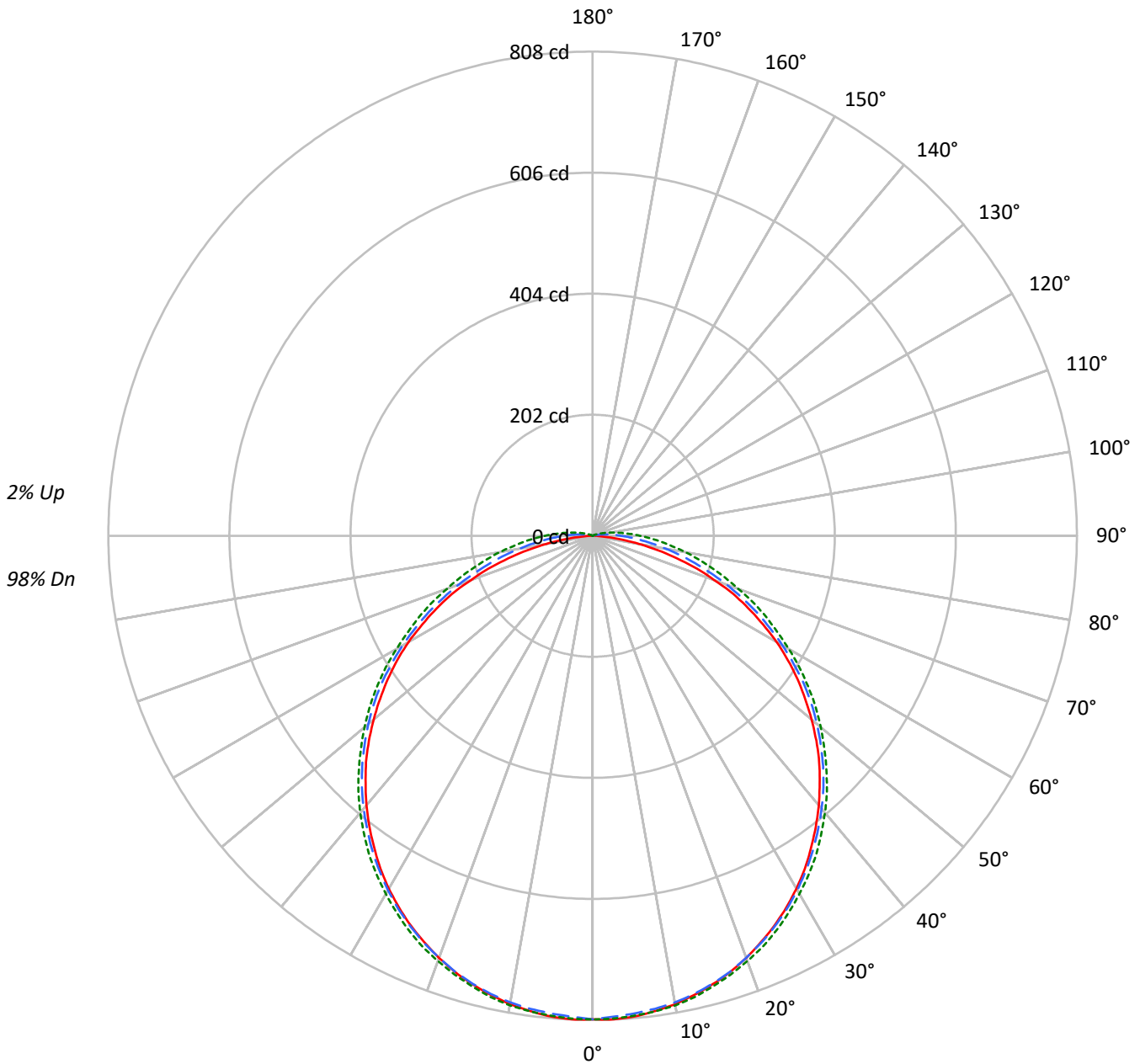
Lumens per Lamp: N/A
Luminaire Lumens: 2440.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 24.4
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

TEST NUMBER: P580140

CATALOG NUMBER: HVSL12-2-LD4-2LO-30-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580140

CATALOG NUMBER: HVSL12-2-LD4-2LO-30-UNV-O-EDD

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°	4343	4343	4343
5°	4319	4257	4281
10°	4275	4191	4225
15°	4222	4117	4150
20°	4167	4033	4077
25°	4103	3945	4002
30°	4031	3851	3913
35°	3944	3747	3825
40°	3854	3637	3717
45°	3756	3516	3599
50°	3632	3376	3471
55°	3498	3221	3328
60°	3339	3016	3156
65°	3097	2786	2990
70°	2762	2512	2792
75°	2303	2211	2629
80°	1650	1919	2506
85°	794	1629	2438



TEST NUMBER: P580140

CATALOG NUMBER: HVSL12-2-LD4-2LO-30-UNV-O-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	3.1
10°-20°	219.1	9.0
20°-30°	332.4	13.6
30°-40°	401.9	16.5
40°-50°	419.4	17.2
50°-60°	383.4	15.7
60°-70°	298.9	12.2
70°-80°	187.0	7.7
80°-90°	84.9	3.5
90°-100°	28.5	1.2
100°-110°	7.2	0.3
110°-120°	1.1	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°	627.8	25.7
0°-40°	1029.7	42.2
0°-60°	1832.5	75.1
0°-90°	2403.2	98.5
90°-120°	36.8	1.5
90°-150°	36.8	1.5
90°-180°	37.0	1.5
0°-180°	2440.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	805	804	800	804	804	76
15°	775	776	774	778	778	219
25°	718	718	719	725	726	331
35°	635	638	641	647	650	398
45°	535	539	544	549	552	412
55°	417	422	430	436	439	373
65°	287	292	302	314	319	284
75°	145	154	176	198	205	155
85°	25	46	80	105	115	32
90°	0	17	47	71	79	1
95°	0	5	24	44	51	0
105°	0	1	4	12	16	0
115°	1	1	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



TEST NUMBER: P580140

CATALOG NUMBER: HVSL12-2-LD4-2LO-30-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	807.0	807.0	807.0	807.0	807.0
2.5°	808.0	806.8	803.2	806.8	806.6
5°	805.3	803.8	800.2	804.0	804.0
7.5°	800.0	799.4	796.2	800.5	800.5
10°	793.7	793.5	790.8	795.6	795.8
12.5°	784.9	785.7	783.2	787.8	788.4
15°	774.7	776.0	773.9	778.3	778.1
17.5°	763.4	764.2	762.7	767.6	767.4
20°	749.6	750.5	749.4	754.5	755.1
22.5°	734.1	735.5	735.3	740.6	742.1
25°	717.8	718.4	719.1	725.2	726.3
27.5°	699.7	700.7	702.0	707.5	708.6
30°	679.9	681.4	683.0	688.7	690.2
32.5°	659.0	660.5	662.4	669.8	670.6
35°	635.4	638.3	640.9	647.4	650.1
37.5°	611.8	615.4	617.9	624.8	626.8
40°	586.9	590.5	594.5	601.7	603.1
42.5°	560.8	565.0	569.8	576.2	578.5
45°	534.6	539.3	543.7	549.0	551.7
47.5°	506.2	511.0	516.3	522.4	524.1
50°	476.9	482.5	488.2	493.9	496.9
52.5°	446.9	453.5	460.0	466.1	468.9
55°	417.2	422.1	429.9	436.2	439.1
57.5°	386.4	390.6	397.6	407.9	409.4
60°	355.0	358.8	366.0	374.4	377.8
62.5°	320.4	325.5	333.1	343.8	346.8
65°	286.7	291.6	301.7	313.7	318.7
67.5°	254.2	255.9	268.8	281.4	289.4
70°	215.7	222.2	237.2	252.6	258.7
72.5°	182.6	189.1	205.7	223.7	231.3
75°	145.2	154.1	176.5	197.7	205.1
77.5°	112.2	122.1	149.9	171.2	179.8
80°	78.4	93.8	124.0	148.0	157.3
82.5°	49.3	68.3	100.6	125.7	133.9
85°	25.1	46.4	79.7	105.4	114.7
87.5°	6.7	30.1	62.0	86.6	96.1
90°	0.2	17.3	47.0	70.6	79.1
92.5°	0.2	9.7	35.0	56.1	64.9
95°	0.2	4.6	24.4	44.1	51.0
97.5°	0.2	1.9	16.7	33.3	40.1
100°	0.2	1.0	10.7	24.2	30.1
102.5°	0.4	0.6	6.7	17.3	22.1
105°	0.4	0.6	4.0	11.8	15.8



TEST NUMBER: P580140

CATALOG NUMBER: HVSL12-2-LD4-2LO-30-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.8	3.2	4.8
115°	0.6	0.6	0.8	2.1	3.0
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	0.6	2.3	8.0	10.8
110°	0.6	0.6	1.3	4.9	7.2



(END OF REPORT)