

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: P580436

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580436
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: HVSL4-1-LD4-1STD-30-UNV-O-EDD
Description: 1 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

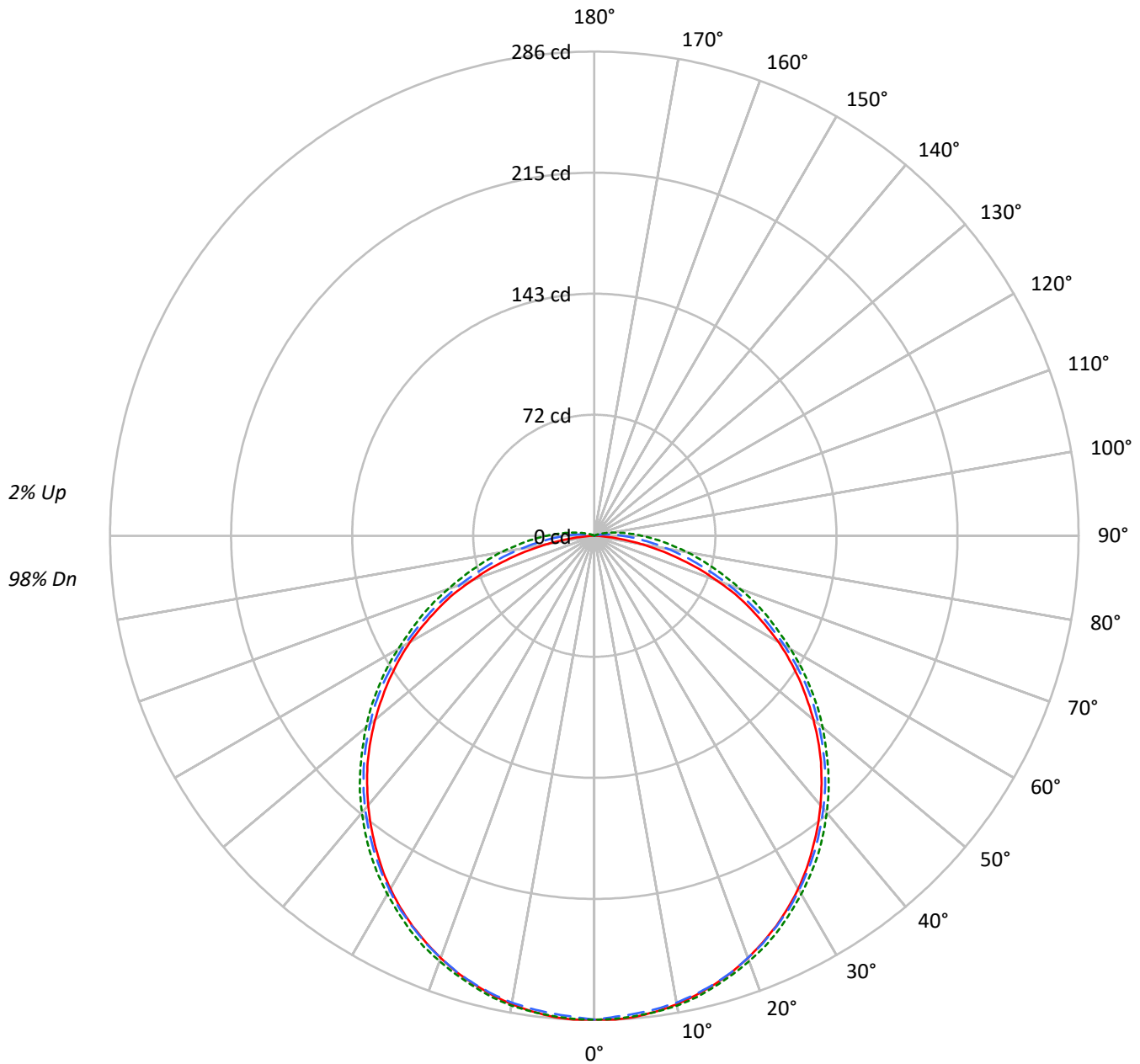
Lumens per Lamp: N/A
Luminaire Lumens: 864.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.17')
CIE Type: Direct

Input Watts (W): 8.2
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: P580436

CATALOG NUMBER: HVSL4-1-LD4-1STD-30-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580436

CATALOG NUMBER: HVSL4-1-LD4-1STD-30-UNV-O-EDD

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°	9229	9229	9229
5°	9112	8819	8842
10°	8951	8476	8491
15°	8778	8133	8122
20°	8599	7781	7774
25°	8404	7436	7431
30°	8190	7087	7071
35°	7943	6727	6721
40°	7685	6358	6340
45°	7410	5974	5949
50°	7079	5561	5540
55°	6716	5121	5107
60°	6299	4607	4630
65°	5713	4058	4159
70°	4947	3455	3643
75°	3953	2826	3160
80°	2657	2222	2700
85°	1135	1635	2240



TEST NUMBER: P580436

CATALOG NUMBER: HVSL4-1-LD4-1STD-30-UNV-O-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.0	3.1
10°-20°	77.6	9.0
20°-30°	117.7	13.6
30°-40°	142.3	16.5
40°-50°	148.5	17.2
50°-60°	135.8	15.7
60°-70°	105.8	12.2
70°-80°	66.2	7.7
80°-90°	30.1	3.5
90°-100°	10.1	1.2
100°-110°	2.5	0.3
110°-120°	0.4	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°	222.3	25.7
0°-40°	364.6	42.2
0°-60°	648.9	75.1
0°-90°	851.0	98.5
90°-120°	13.0	1.5
90°-150°	13.0	1.5
90°-180°	13.0	1.5
0°-180°	864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	286	286	286	286	286	
5°	285	285	283	285	285	27
15°	274	275	274	276	276	77
25°	254	254	255	257	257	117
35°	225	226	227	229	230	141
45°	189	191	192	194	195	146
55°	148	150	152	154	156	132
65°	102	103	107	111	113	100
75°	51	55	62	70	73	55
85°	9	16	28	37	41	11
90°	0	6	17	25	28	0
95°	0	2	9	16	18	0
105°	0	0	1	4	6	0
115°	0	0	0	1	1	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	



TEST NUMBER: P580436

CATALOG NUMBER: HVSL4-1-LD4-1STD-30-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	285.8	285.8	285.8	285.8	285.8
2.5°	286.1	285.7	284.4	285.7	285.6
5°	285.2	284.6	283.3	284.7	284.7
7.5°	283.3	283.1	281.9	283.5	283.5
10°	281.0	281.0	280.0	281.7	281.8
12.5°	277.9	278.2	277.3	279.0	279.2
15°	274.3	274.8	274.0	275.6	275.5
17.5°	270.3	270.6	270.1	271.8	271.7
20°	265.4	265.8	265.3	267.2	267.4
22.5°	260.0	260.4	260.4	262.2	262.8
25°	254.2	254.4	254.6	256.8	257.2
27.5°	247.8	248.1	248.6	250.5	250.9
30°	240.8	241.3	241.8	243.9	244.4
32.5°	233.3	233.9	234.6	237.2	237.5
35°	225.0	226.0	227.0	229.2	230.2
37.5°	216.6	217.9	218.8	221.2	222.0
40°	207.8	209.1	210.5	213.1	213.5
42.5°	198.6	200.1	201.8	204.0	204.9
45°	189.3	191.0	192.5	194.4	195.4
47.5°	179.3	180.9	182.8	185.0	185.6
50°	168.9	170.8	172.9	174.9	176.0
52.5°	158.2	160.6	162.9	165.0	166.1
55°	147.7	149.5	152.2	154.5	155.5
57.5°	136.8	138.3	140.8	144.4	145.0
60°	125.7	127.0	129.6	132.6	133.8
62.5°	113.4	115.3	118.0	121.7	122.8
65°	101.5	103.3	106.8	111.1	112.8
67.5°	90.0	90.6	95.2	99.6	102.5
70°	76.4	78.7	84.0	89.5	91.6
72.5°	64.7	67.0	72.8	79.2	81.9
75°	51.4	54.6	62.5	70.0	72.6
77.5°	39.7	43.2	53.1	60.6	63.7
80°	27.8	33.2	43.9	52.4	55.7
82.5°	17.4	24.2	35.6	44.5	47.4
85°	8.9	16.4	28.2	37.3	40.6
87.5°	2.4	10.6	22.0	30.7	34.0
90°	0.1	6.1	16.6	25.0	28.0
92.5°	0.1	3.4	12.4	19.9	23.0
95°	0.1	1.6	8.6	15.6	18.1
97.5°	0.1	0.7	5.9	11.8	14.2
100°	0.1	0.3	3.8	8.6	10.6
102.5°	0.1	0.2	2.4	6.1	7.8
105°	0.1	0.2	1.4	4.2	5.6



TEST NUMBER: P580436

CATALOG NUMBER: HVSL4-1-LD4-1STD-30-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.2	0.2	0.3	1.1	1.7
115°	0.2	0.2	0.3	0.7	1.1
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°	0.1	0.2	0.8	2.8	3.8
110°	0.2	0.2	0.5	1.8	2.6



(END OF REPORT)