

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: P580652

Luminaire Tested: **HVSL4-8-LD4-2STD-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580652
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: HVSL4-8-LD4-2STD-30-UNV-O-EDD
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

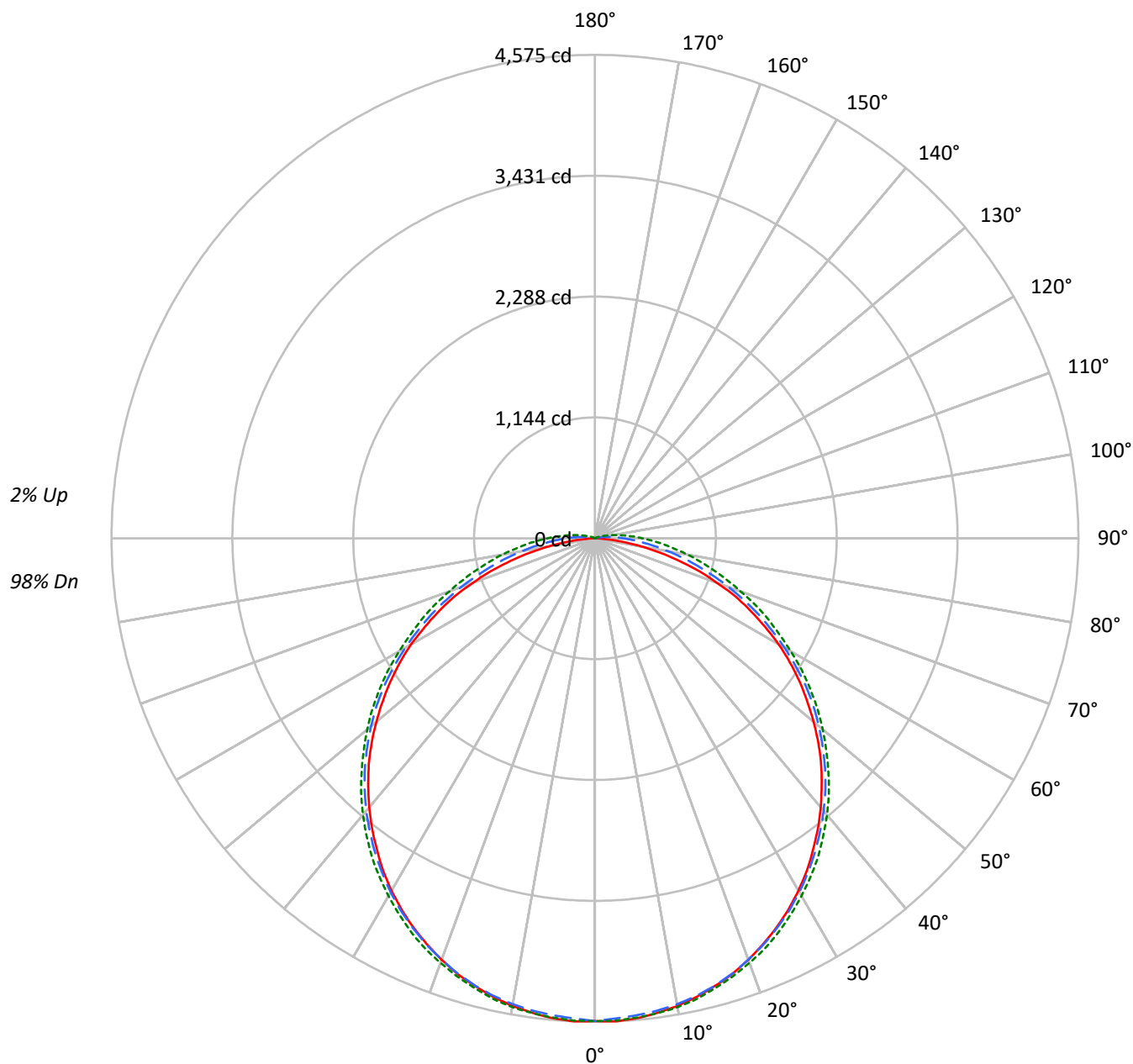
Lumens per Lamp: N/A
Luminaire Lumens: 13817.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 130.8
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

TEST NUMBER: P580652

CATALOG NUMBER: HVSL4-8-LD4-2STD-30-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580652

CATALOG NUMBER: HVSL4-8-LD4-2STD-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°	18446	18446	18446
5°	18443	17786	17673
10°	18354	17236	16973
15°	18230	16668	16237
20°	18095	16073	15538
25°	17929	15478	14855
30°	17732	14864	14135
35°	17475	14217	13435
40°	17211	13551	12675
45°	16928	12844	11888
50°	16548	12063	11072
55°	16145	11227	10207
60°	15663	10215	9255
65°	14843	9117	8316
70°	13636	7880	7283
75°	11895	6565	6318
80°	9226	5286	5398
85°	5319	4012	4480



TEST NUMBER: P580652

CATALOG NUMBER: HVSL4-8-LD4-2STD-30-UNV-O-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.4	3.1
10°-20°	1240.5	9.0
20°-30°	1882.2	13.6
30°-40°	2275.9	16.5
40°-50°	2374.7	17.2
50°-60°	2171.2	15.7
60°-70°	1692.5	12.2
70°-80°	1058.8	7.7
80°-90°	480.9	3.5
90°-100°	161.2	1.2
100°-110°	40.4	0.3
110°-120°	6.4	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°	3555.1	25.7
0°-40°	5830.9	42.2
0°-60°	10376.8	75.1
0°-90°	13609.0	98.5
90°-120°	208.0	1.5
90°-150°	208.0	1.5
90°-180°	208.0	1.5
0°-180°	13817.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4570	4570	4570	4570	4570	
5°	4560	4552	4531	4553	4553	433
15°	4387	4394	4382	4407	4406	1238
25°	4065	4068	4072	4107	4113	1873
35°	3598	3614	3629	3666	3681	2252
45°	3027	3054	3079	3109	3124	2333
55°	2362	2390	2435	2470	2486	2111
65°	1624	1652	1709	1776	1804	1606
75°	822	873	1000	1119	1161	876
85°	142	263	451	597	650	180
90°	1	98	266	400	448	6
95°	1	26	138	250	289	1
105°	2	3	23	67	89	2
115°	3	3	4	12	17	2
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: P580652

CATALOG NUMBER: HVSL4-8-LD4-2STD-30-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4569.8	4569.8	4569.8	4569.8	4569.8
2.5°	4575.2	4568.8	4548.3	4568.8	4567.7
5°	4560.1	4551.5	4531.0	4552.6	4552.6
7.5°	4530.0	4526.7	4508.4	4533.2	4533.2
10°	4494.4	4493.3	4478.3	4505.2	4506.3
12.5°	4444.9	4449.2	4435.2	4461.0	4464.3
15°	4386.7	4394.2	4382.4	4407.2	4406.1
17.5°	4323.1	4327.4	4318.8	4346.8	4345.8
20°	4244.5	4249.9	4243.4	4272.5	4275.7
22.5°	4157.2	4164.8	4163.7	4193.9	4202.5
25°	4064.6	4067.8	4072.1	4106.6	4113.1
27.5°	3962.2	3967.6	3975.2	4006.4	4012.9
30°	3850.2	3858.8	3867.4	3899.8	3908.4
32.5°	3731.7	3740.3	3751.1	3793.1	3797.4
35°	3598.1	3614.3	3629.4	3666.0	3681.1
37.5°	3464.5	3485.0	3499.0	3537.8	3549.6
40°	3323.4	3343.9	3366.5	3407.4	3415.0
42.5°	3175.8	3199.5	3226.5	3263.1	3276.0
45°	3027.2	3054.1	3078.9	3109.0	3124.1
47.5°	2866.6	2893.6	2923.7	2958.2	2967.9
50°	2700.7	2732.0	2764.3	2796.6	2813.9
52.5°	2530.5	2568.2	2604.9	2639.3	2655.5
55°	2362.5	2390.5	2434.7	2470.2	2486.4
57.5°	2188.0	2211.7	2251.5	2309.7	2318.3
60°	2010.2	2031.8	2072.7	2120.1	2139.5
62.5°	1814.1	1843.2	1886.3	1946.6	1963.9
65°	1623.5	1651.5	1708.6	1776.4	1804.4
67.5°	1439.2	1448.9	1522.2	1593.3	1638.5
70°	1221.6	1258.3	1343.4	1430.6	1465.1
72.5°	1034.2	1070.8	1164.5	1266.9	1310.0
75°	822.0	872.6	999.7	1119.3	1161.3
77.5°	635.6	691.6	848.9	969.6	1018.0
80°	443.8	531.1	702.4	838.1	890.9
82.5°	279.0	386.7	569.9	712.1	758.4
85°	142.2	262.9	451.4	596.8	649.6
87.5°	37.7	170.2	351.2	490.2	544.0
90°	1.1	98.0	266.1	399.7	448.1
92.5°	1.1	54.9	198.2	317.8	367.4
95°	1.1	25.9	137.9	249.9	288.7
97.5°	1.1	10.8	94.8	188.5	227.3
100°	1.1	5.4	60.3	136.8	170.2
102.5°	2.2	3.2	37.7	98.0	125.0
105°	2.2	3.2	22.6	66.8	89.4



TEST NUMBER: P580652

CATALOG NUMBER: HVSL4-8-LD4-2STD-30-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	3.2	4.3	18.3	26.9
115°	3.2	3.2	4.3	11.9	17.2
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°	2.2	3.2	12.9	45.2	61.4
110°	3.2	3.2	7.5	28.0	40.9



(END OF REPORT)