

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: P580828

Luminaire Tested: **HVSL8-8-LD4-2HI-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580828
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: HVSL8-8-LD4-2HI-30-UNV-O-EDD
Description: 8 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

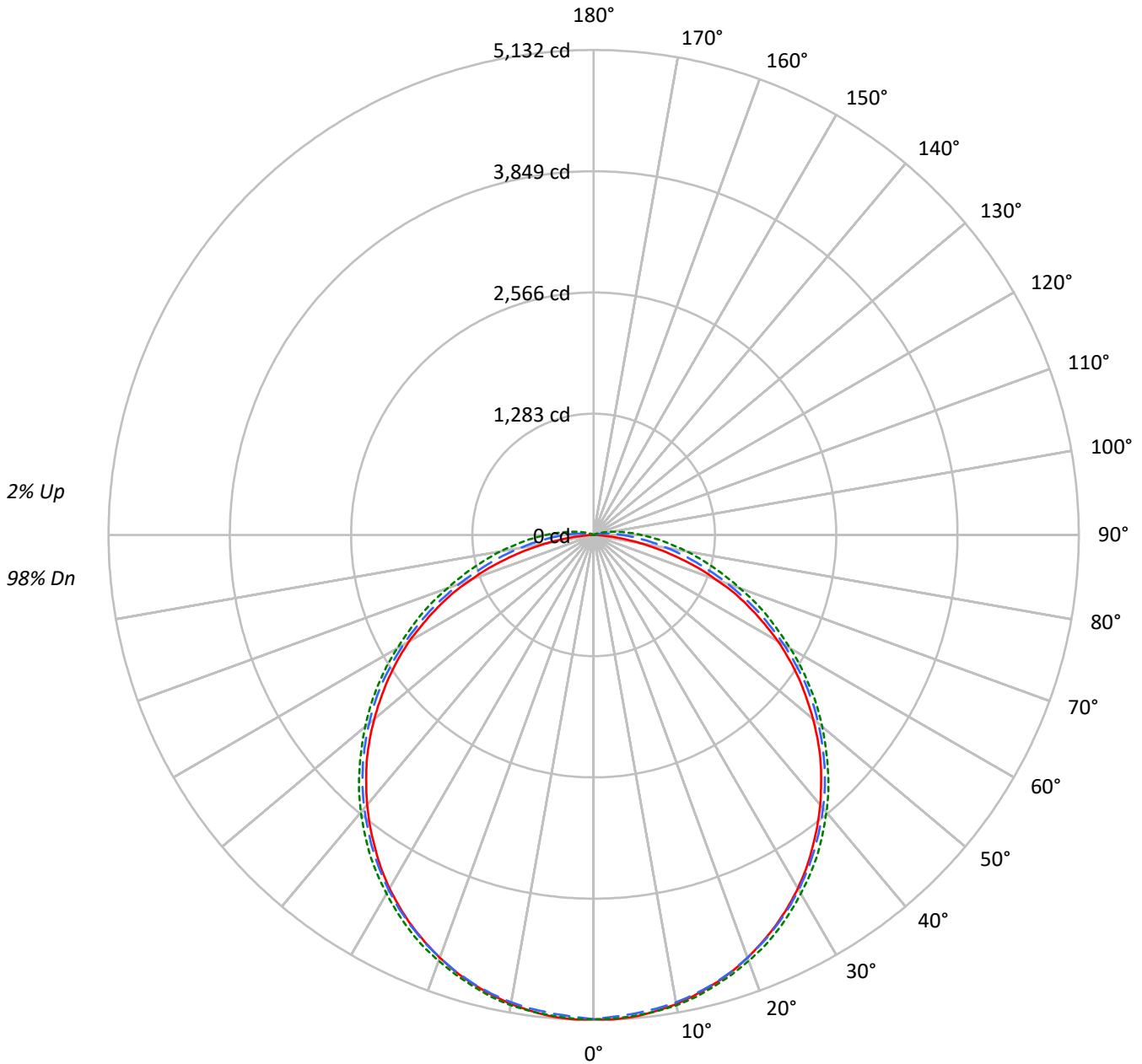
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15498.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 177.6
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°	10345	10345	10345
5°	10344	10127	10124
10°	10293	9958	9921
15°	10224	9769	9678
20°	10148	9556	9441
25°	10055	9337	9201
30°	9945	9103	8928
35°	9801	8844	8657
40°	9652	8571	8342
45°	9494	8272	8001
50°	9281	7926	7635
55°	9055	7545	7231
60°	8784	7047	6759
65°	8324	6487	6292
70°	7648	5826	5748
75°	6671	5099	5254
80°	5174	4389	4803
85°	2983	3676	4373



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.1	3.1
10°-20°	1391.4	9.0
20°-30°	2111.2	13.6
30°-40°	2552.8	16.5
40°-50°	2663.6	17.2
50°-60°	2435.3	15.7
60°-70°	1898.5	12.2
70°-80°	1187.6	7.7
80°-90°	539.4	3.5
90°-100°	180.8	1.2
100°-110°	45.4	0.3
110°-120°	7.1	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°	3987.6	25.7
0°-40°	6540.3	42.2
0°-60°	11639.3	75.1
0°-90°	15264.7	98.5
90°-120°	233.3	1.5
90°-150°	233.3	1.5
90°-180°	233.0	1.5
0°-180°	15498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5126	5126	5126	5126	5126	
5°	5115	5105	5082	5106	5106	486
15°	4920	4929	4916	4943	4942	1389
25°	4559	4563	4568	4606	4614	2101
35°	4036	4054	4071	4112	4129	2526
45°	3396	3426	3454	3487	3504	2616
55°	2650	2681	2731	2771	2789	2367
65°	1821	1852	1916	1993	2024	1802
75°	922	979	1121	1256	1303	983
85°	160	295	506	669	729	202
90°	1	110	298	448	503	6
95°	1	29	155	280	324	1
105°	2	4	25	75	100	3
115°	4	4	5	13	19	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	0



TEST NUMBER: P580828

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5125.8	5125.8	5125.8	5125.8	5125.8
2.5°	5131.8	5124.6	5101.6	5124.6	5123.4
5°	5114.9	5105.3	5082.3	5106.5	5106.5
7.5°	5081.1	5077.5	5056.9	5084.7	5084.7
10°	5041.2	5040.0	5023.1	5053.3	5054.5
12.5°	4985.6	4990.5	4974.8	5003.8	5007.4
15°	4920.4	4928.8	4915.6	4943.3	4942.1
17.5°	4849.1	4853.9	4844.3	4875.7	4874.5
20°	4760.9	4766.9	4759.7	4792.3	4795.9
22.5°	4663.0	4671.5	4670.3	4704.1	4713.8
25°	4559.1	4562.7	4567.5	4606.2	4613.5
27.5°	4444.3	4450.3	4458.8	4493.8	4501.1
30°	4318.6	4328.3	4338.0	4374.2	4383.9
32.5°	4185.7	4195.4	4207.5	4254.6	4259.4
35°	4035.9	4054.0	4070.9	4112.0	4128.9
37.5°	3886.0	3909.0	3924.7	3968.2	3981.5
40°	3727.7	3750.7	3776.1	3822.0	3830.5
42.5°	3562.2	3588.8	3619.0	3660.1	3674.6
45°	3395.5	3425.7	3453.5	3487.3	3504.2
47.5°	3215.4	3245.6	3279.5	3318.1	3329.0
50°	3029.3	3064.4	3100.6	3136.9	3156.2
52.5°	2838.4	2880.7	2921.8	2960.4	2978.6
55°	2649.9	2681.3	2730.9	2770.7	2788.9
57.5°	2454.2	2480.7	2525.4	2590.7	2600.4
60°	2254.8	2278.9	2324.9	2378.0	2399.8
62.5°	2034.9	2067.5	2115.8	2183.5	2202.8
65°	1821.0	1852.4	1916.4	1992.6	2024.0
67.5°	1614.3	1625.2	1707.4	1787.1	1837.9
70°	1370.3	1411.3	1506.8	1604.7	1643.4
72.5°	1160.0	1201.1	1306.2	1421.0	1469.3
75°	922.0	978.8	1121.3	1255.5	1302.6
77.5°	712.9	775.8	952.2	1087.5	1141.9
80°	497.8	595.7	787.8	940.1	999.3
82.5°	313.0	433.8	639.2	798.7	850.7
85°	159.5	294.8	506.3	669.4	728.6
87.5°	42.3	190.9	393.9	549.8	610.2
90°	1.2	110.0	298.5	448.3	502.7
92.5°	1.2	61.6	222.3	356.5	412.0
95°	1.2	29.0	154.7	280.3	323.8
97.5°	1.2	12.1	106.3	211.5	255.0
100°	1.2	6.0	67.7	153.5	190.9
102.5°	2.4	3.6	42.3	110.0	140.2
105°	2.4	3.6	25.4	74.9	100.3



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CATALOG NUMBER: HVSL8-8-LD4-2HI-30-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.6	3.6	4.8	20.5	30.2
115°	3.6	3.6	4.8	13.3	19.3
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°	2.4	3.6	14.5	50.8	68.9
110°	3.6	3.6	8.5	31.4	45.9



(END OF REPORT)