

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: P580276

Luminaire Tested: **HVSL12-8-LD4-2HI-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580276
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: HVSL12-8-LD4-2HI-30-UNV-O-EDD
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

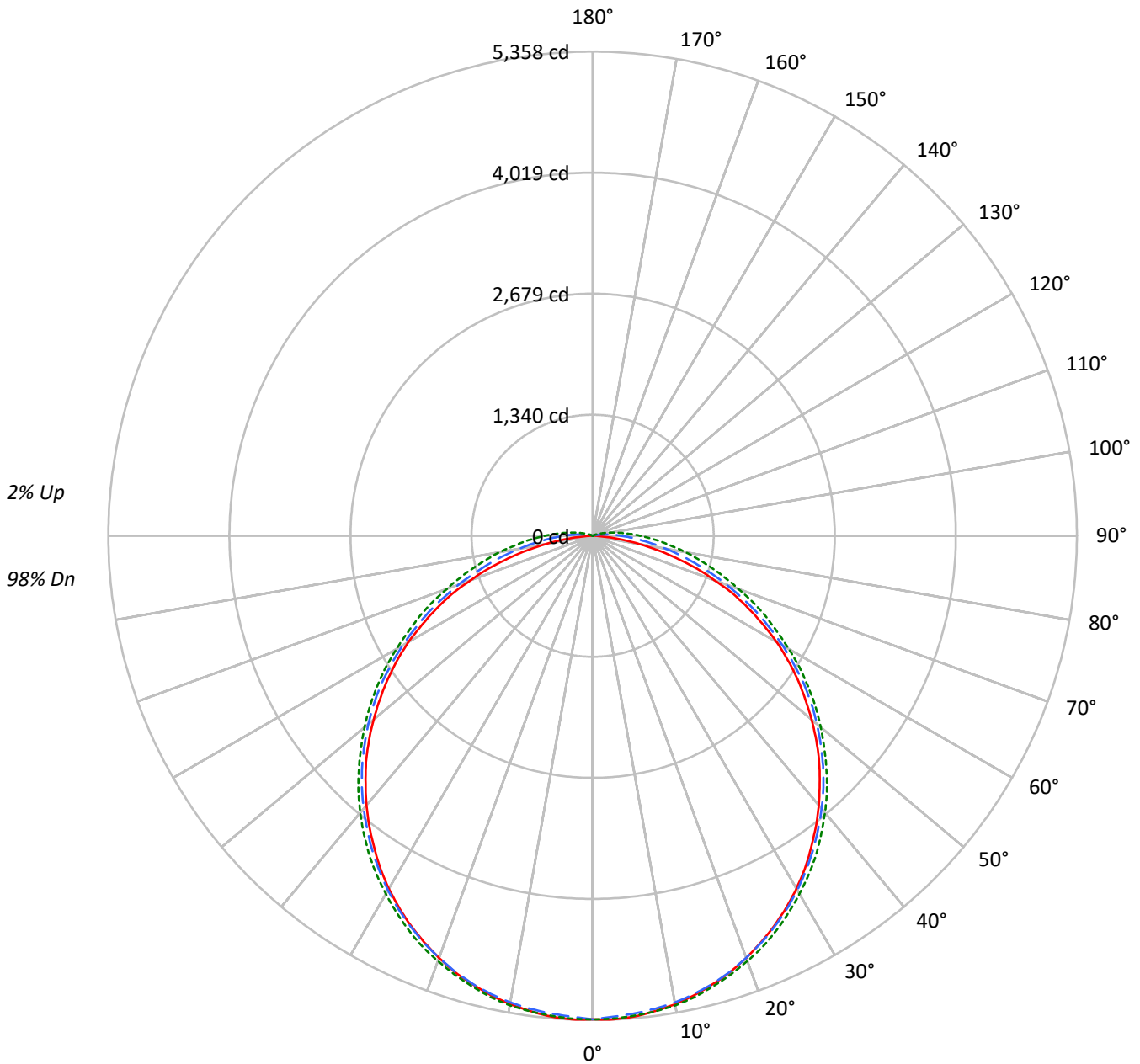
Lumens per Lamp: N/A
Luminaire Lumens: 16181.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 182.4
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

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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°	7201	7201	7201
5°	7200	7085	7097
10°	7165	7002	7004
15°	7116	6904	6880
20°	7064	6788	6760
25°	6999	6667	6635
30°	6922	6536	6487
35°	6822	6388	6341
40°	6718	6231	6162
45°	6608	6057	5967
50°	6460	5852	5755
55°	6303	5623	5517
60°	6114	5312	5232
65°	5794	4960	4956
70°	5324	4536	4630
75°	4643	4071	4358
80°	3602	3638	4155
85°	2076	3244	4042



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.4	3.1
10°-20°	1452.7	9.0
20°-30°	2204.2	13.6
30°-40°	2665.3	16.5
40°-50°	2781.0	17.2
50°-60°	2542.6	15.7
60°-70°	1982.1	12.2
70°-80°	1239.9	7.7
80°-90°	563.2	3.5
90°-100°	188.8	1.2
100°-110°	47.4	0.3
110°-120°	7.5	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°	4163.3	25.7
0°-40°	6828.6	42.2
0°-60°	12152.2	75.1
0°-90°	15937.4	98.5
90°-120°	243.6	1.5
90°-150°	243.6	1.5
90°-180°	244.0	1.5
0°-180°	16181.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5352	5352	5352	5352	5352	
5°	5340	5330	5306	5332	5332	507
15°	5137	5146	5132	5161	5160	1450
25°	4760	4764	4769	4809	4817	2193
35°	4214	4233	4250	4293	4311	2637
45°	3545	3577	3606	3641	3659	2732
55°	2767	2800	2851	2893	2912	2472
65°	1901	1934	2001	2080	2113	1881
75°	963	1022	1171	1311	1360	1026
85°	166	308	529	699	761	211
90°	1	115	312	468	525	7
95°	1	30	162	293	338	1
105°	2	4	26	78	105	3
115°	4	4	5	14	20	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



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CATALOG NUMBER: HVSL12-8-LD4-2HI-30-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5351.7	5351.7	5351.7	5351.7	5351.7
2.5°	5358.0	5350.4	5326.5	5350.4	5349.2
5°	5340.3	5330.3	5306.3	5331.5	5331.5
7.5°	5305.0	5301.2	5279.8	5308.8	5308.8
10°	5263.4	5262.1	5244.5	5276.0	5277.3
12.5°	5205.4	5210.4	5194.0	5224.3	5228.1
15°	5137.2	5146.1	5132.2	5161.2	5159.9
17.5°	5062.8	5067.8	5057.7	5090.5	5089.3
20°	4970.7	4977.0	4969.4	5003.5	5007.3
22.5°	4868.5	4877.3	4876.1	4911.4	4921.5
25°	4760.0	4763.8	4768.8	4809.2	4816.8
27.5°	4640.2	4646.5	4655.3	4691.9	4699.5
30°	4509.0	4519.0	4529.1	4567.0	4577.1
32.5°	4370.2	4380.3	4392.9	4442.1	4447.1
35°	4213.7	4232.7	4250.3	4293.2	4310.9
37.5°	4057.3	4081.3	4097.7	4143.1	4157.0
40°	3892.0	3916.0	3942.5	3990.4	3999.3
42.5°	3719.2	3746.9	3778.5	3821.4	3836.5
45°	3545.1	3576.6	3605.6	3641.0	3658.6
47.5°	3357.1	3388.7	3424.0	3464.3	3475.7
50°	3162.8	3199.4	3237.3	3275.1	3295.3
52.5°	2963.5	3007.6	3050.5	3090.9	3109.8
55°	2766.7	2799.5	2851.2	2892.8	2911.8
57.5°	2562.3	2590.1	2636.7	2704.9	2715.0
60°	2354.1	2379.4	2427.3	2482.8	2505.5
62.5°	2124.5	2158.6	2209.1	2279.7	2299.9
65°	1901.2	1934.0	2000.9	2080.4	2113.2
67.5°	1685.5	1696.8	1782.6	1865.9	1918.9
70°	1430.7	1473.5	1573.2	1675.4	1715.8
72.5°	1211.1	1254.0	1363.8	1483.6	1534.1
75°	962.6	1021.9	1170.8	1310.8	1360.0
77.5°	744.3	809.9	994.1	1135.4	1192.2
80°	519.8	622.0	822.6	981.5	1043.3
82.5°	326.8	452.9	667.4	833.9	888.2
85°	166.5	307.8	528.6	698.9	760.7
87.5°	44.2	199.3	411.3	574.0	637.1
90°	1.3	114.8	311.6	468.1	524.8
92.5°	1.3	64.3	232.1	372.2	430.2
95°	1.3	30.3	161.5	292.7	338.1
97.5°	1.3	12.6	111.0	220.8	266.2
100°	1.3	6.3	70.6	160.2	199.3
102.5°	2.5	3.8	44.2	114.8	146.3
105°	2.5	3.8	26.5	78.2	104.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.8	3.8	5.0	21.4	31.5
115°	3.8	3.8	5.0	13.9	20.2
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°	2.5	3.8	15.1	53.0	71.9
110°	3.8	3.8	8.8	32.8	47.9



(END OF REPORT)