

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: P580275

Luminaire Tested: **HVSL12-8-LD4-2HI-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580275
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-90
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

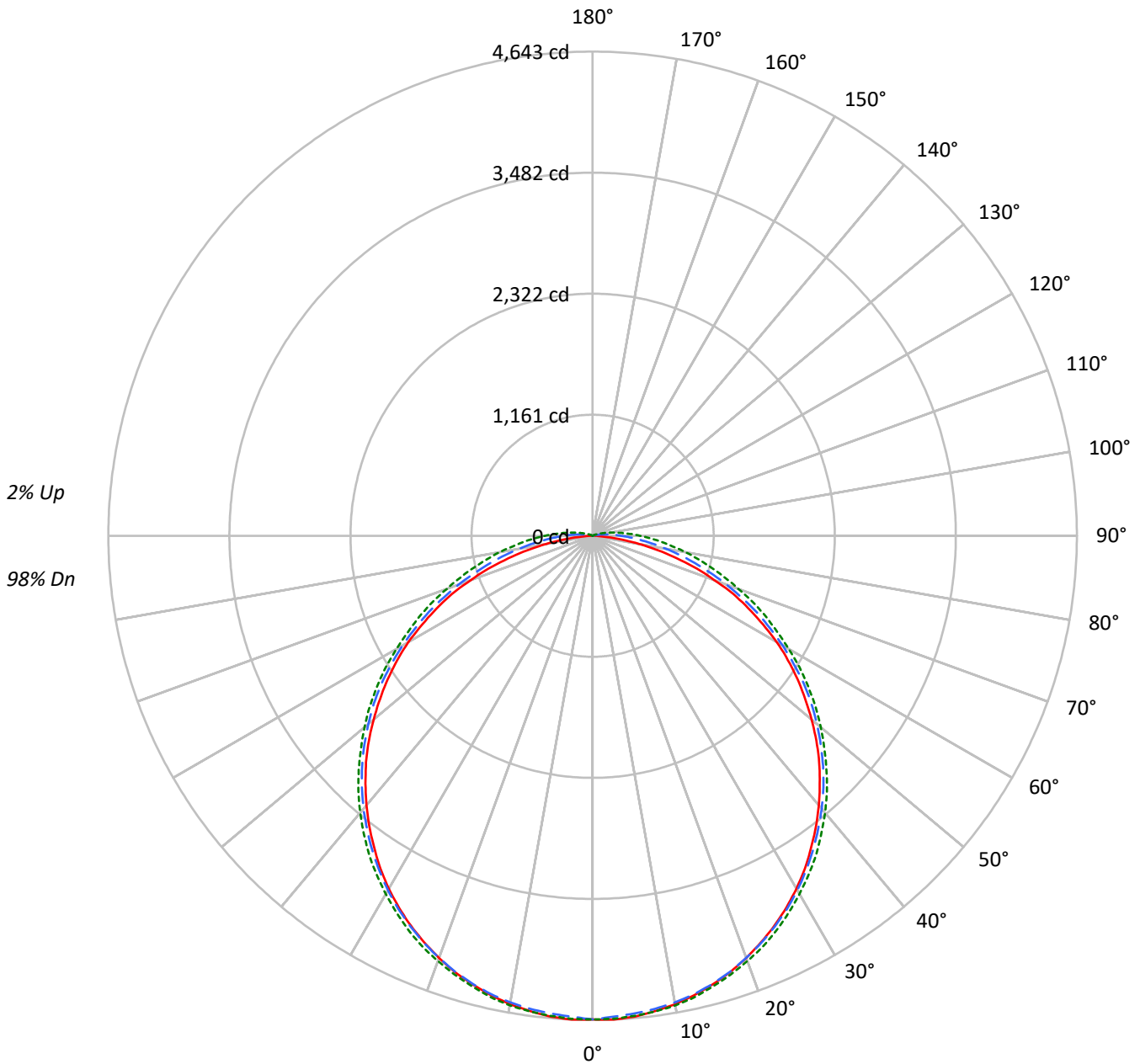
Lumens per Lamp: N/A
Luminaire Lumens: 14023.0 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

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				20				20
RC	80				70				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°	6240	6240	6240
5°	6239	6140	6151
10°	6209	6068	6070
15°	6167	5983	5963
20°	6122	5883	5858
25°	6065	5778	5750
30°	5999	5664	5622
35°	5912	5536	5495
40°	5823	5400	5341
45°	5727	5250	5171
50°	5598	5071	4987
55°	5462	4873	4781
60°	5299	4603	4534
65°	5021	4298	4295
70°	4614	3931	4012
75°	4024	3528	3777
80°	3122	3153	3601
85°	1799	2811	3503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.9	3.1
10°-20°	1258.9	9.0
20°-30°	1910.2	13.6
30°-40°	2309.8	16.5
40°-50°	2410.1	17.2
50°-60°	2203.5	15.7
60°-70°	1717.8	12.2
70°-80°	1074.6	7.7
80°-90°	488.1	3.5
90°-100°	163.6	1.2
100°-110°	41.1	0.3
110°-120°	6.5	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°	3608.1	25.7
0°-40°	5917.9	42.2
0°-60°	10531.5	75.1
0°-90°	13811.9	98.5
90°-120°	211.1	1.5
90°-150°	211.1	1.5
90°-180°	211.0	1.5
0°-180°	14023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4638	4638	4638	4638	4638	
5°	4628	4619	4599	4620	4620	440
15°	4452	4460	4448	4473	4472	1257
25°	4125	4128	4133	4168	4174	1901
35°	3652	3668	3684	3721	3736	2286
45°	3072	3100	3125	3155	3171	2367
55°	2398	2426	2471	2507	2523	2142
65°	1648	1676	1734	1803	1831	1630
75°	834	886	1015	1136	1179	889
85°	144	267	458	606	659	183
90°	1	100	270	406	455	6
95°	1	26	140	254	293	1
105°	2	3	23	68	91	2
115°	3	3	4	12	18	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4638.0	4638.0	4638.0	4638.0	4638.0
2.5°	4643.4	4636.9	4616.1	4636.9	4635.8
5°	4628.1	4619.4	4598.6	4620.5	4620.5
7.5°	4597.5	4594.2	4575.6	4600.8	4600.8
10°	4561.4	4560.3	4545.0	4572.4	4573.5
12.5°	4511.1	4515.5	4501.3	4527.5	4530.8
15°	4452.1	4459.7	4447.7	4472.9	4471.8
17.5°	4387.6	4392.0	4383.2	4411.6	4410.5
20°	4307.8	4313.2	4306.7	4336.2	4339.5
22.5°	4219.2	4226.9	4225.8	4256.4	4265.1
25°	4125.2	4128.5	4132.8	4167.8	4174.4
27.5°	4021.3	4026.8	4034.4	4066.1	4072.7
30°	3907.6	3916.4	3925.1	3957.9	3966.6
32.5°	3787.3	3796.1	3807.0	3849.7	3854.0
35°	3651.8	3668.2	3683.5	3720.6	3736.0
37.5°	3516.2	3537.0	3551.2	3590.5	3602.6
40°	3373.0	3393.7	3416.7	3458.2	3465.9
42.5°	3223.2	3247.2	3274.6	3311.7	3324.9
45°	3072.3	3099.6	3124.8	3155.4	3170.7
47.5°	2909.4	2936.7	2967.3	3002.3	3012.2
50°	2741.0	2772.7	2805.5	2838.3	2855.8
52.5°	2568.3	2606.5	2643.7	2678.7	2695.1
55°	2397.7	2426.1	2471.0	2507.0	2523.4
57.5°	2220.6	2244.6	2285.1	2344.1	2352.9
60°	2040.2	2062.0	2103.6	2151.7	2171.4
62.5°	1841.2	1870.7	1914.4	1975.7	1993.2
65°	1647.7	1676.1	1734.0	1802.9	1831.3
67.5°	1460.7	1470.5	1544.9	1617.1	1663.0
70°	1239.9	1277.0	1363.4	1452.0	1486.9
72.5°	1049.6	1086.8	1181.9	1285.8	1329.5
75°	834.2	885.6	1014.6	1136.0	1178.6
77.5°	645.1	701.9	861.6	984.0	1033.2
80°	450.5	539.0	712.9	850.6	904.2
82.5°	283.2	392.5	578.4	722.7	769.7
85°	144.3	266.8	458.1	605.7	659.3
87.5°	38.3	172.7	356.4	497.5	552.1
90°	1.1	99.5	270.1	405.6	454.8
92.5°	1.1	55.8	201.2	322.5	372.8
95°	1.1	26.2	139.9	253.7	293.0
97.5°	1.1	10.9	96.2	191.3	230.7
100°	1.1	5.5	61.2	138.9	172.7
102.5°	2.2	3.3	38.3	99.5	126.8
105°	2.2	3.3	23.0	67.8	90.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.3	3.3	4.4	18.6	27.3
115°	3.3	3.3	4.4	12.0	17.5
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	3.3	13.1	45.9	62.3
110°	3.3	3.3	7.7	28.4	41.5



(END OF REPORT)