

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: P580302

Luminaire Tested: **HVSL12-8-LD4-3HI-35-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

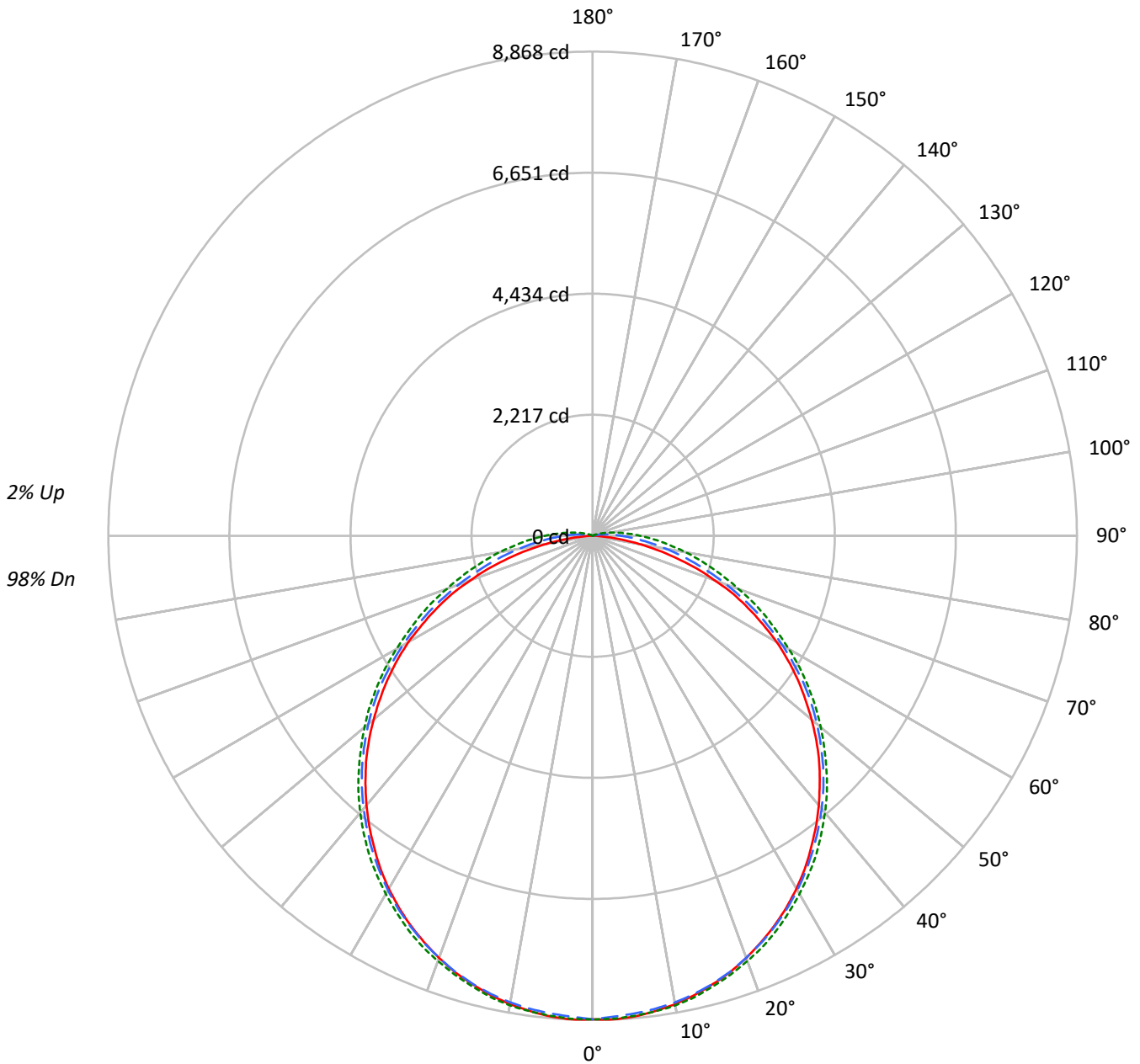
Test Method: LM-79-08  
Report Number: P580302  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/16/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: HVSL12-8-LD4-3HI-35-UNV-O-EDD  
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26782.0 lumens  
Efficiency: N/A  
Efficacy: 100.5 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): 266.6  
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				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°	11918	11918	11918
5°	11917	11726	11747
10°	11859	11589	11593
15°	11778	11426	11388
20°	11692	11235	11188
25°	11584	11036	10982
30°	11457	10818	10737
35°	11291	10573	10495
40°	11120	10314	10200
45°	10937	10026	9876
50°	10692	9685	9525
55°	10432	9308	9131
60°	10120	8792	8659
65°	9590	8209	8203
70°	8811	7508	7663
75°	7685	6739	7214
80°	5961	6021	6878
85°	3436	5369	6690



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	838.2	3.1
10°-20°	2404.4	9.0
20°-30°	3648.3	13.6
30°-40°	4411.4	16.5
40°-50°	4603.0	17.2
50°-60°	4208.5	15.7
60°-70°	3280.7	12.2
70°-80°	2052.3	7.7
80°-90°	932.1	3.5
90°-100°	312.4	1.2
100°-110°	78.4	0.3
110°-120°	12.4	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°	6890.9	25.7
0°-40°	11302.3	42.2
0°-60°	20113.7	75.1
0°-90°	26378.8	98.5
90°-120°	403.2	1.5
90°-150°	403.2	1.5
90°-180°	403.0	1.5
0°-180°	26782.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8858	8858	8858	8858	8858	
5°	8839	8822	8783	8824	8824	839
15°	8503	8518	8494	8543	8540	2400
25°	7878	7885	7893	7960	7972	3630
35°	6974	7006	7035	7106	7135	4365
45°	5868	5920	5968	6026	6056	4521
55°	4579	4634	4719	4788	4819	4091
65°	3147	3201	3312	3443	3498	3114
75°	1593	1691	1938	2170	2251	1698
85°	276	510	875	1157	1259	349
90°	2	190	516	775	869	11
95°	2	50	267	484	560	2
105°	4	6	44	130	173	4
115°	6	6	8	23	33	4
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: P580302

CATALOG NUMBER: HVSL12-8-LD4-3HI-35-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8857.9	8857.9	8857.9	8857.9	8857.9
2.5°	8868.3	8855.8	8816.1	8855.8	8853.7
5°	8839.1	8822.4	8782.7	8824.5	8824.5
7.5°	8780.6	8774.3	8738.8	8786.9	8786.9
10°	8711.7	8709.6	8680.4	8732.6	8734.7
12.5°	8615.6	8624.0	8596.9	8647.0	8653.2
15°	8502.9	8517.5	8494.5	8542.6	8540.5
17.5°	8379.7	8388.0	8371.3	8425.6	8423.5
20°	8227.3	8237.7	8225.2	8281.5	8287.8
22.5°	8058.1	8072.7	8070.6	8129.1	8145.8
25°	7878.5	7884.8	7893.1	7960.0	7972.5
27.5°	7680.2	7690.6	7705.2	7765.8	7778.3
30°	7463.0	7479.7	7496.4	7559.0	7575.8
32.5°	7233.3	7250.0	7270.9	7352.3	7360.7
35°	6974.4	7005.7	7034.9	7105.9	7135.2
37.5°	6715.4	6755.1	6782.3	6857.4	6880.4
40°	6441.9	6481.6	6525.4	6604.8	6619.4
42.5°	6155.8	6201.8	6254.0	6325.0	6350.0
45°	5867.7	5919.9	5967.9	6026.4	6055.6
47.5°	5556.5	5608.7	5667.2	5734.0	5752.8
50°	5235.0	5295.5	5358.2	5420.8	5454.2
52.5°	4905.0	4978.1	5049.1	5115.9	5147.3
55°	4579.3	4633.6	4719.2	4788.1	4819.4
57.5°	4241.0	4286.9	4364.2	4477.0	4493.7
60°	3896.5	3938.2	4017.6	4109.4	4147.0
62.5°	3516.4	3572.8	3656.3	3773.3	3806.7
65°	3146.8	3201.1	3311.8	3443.3	3497.6
67.5°	2789.7	2808.5	2950.5	3088.4	3176.1
70°	2367.9	2438.9	2603.9	2773.0	2839.9
72.5°	2004.6	2075.6	2257.3	2455.6	2539.2
75°	1593.2	1691.4	1937.8	2169.6	2251.0
77.5°	1232.0	1340.6	1645.5	1879.3	1973.3
80°	860.3	1029.5	1361.5	1624.6	1726.9
82.5°	540.8	749.6	1104.6	1380.3	1470.0
85°	275.6	509.5	874.9	1156.8	1259.1
87.5°	73.1	329.9	680.7	950.1	1054.5
90°	2.1	190.0	515.8	774.7	868.7
92.5°	2.1	106.5	384.2	616.0	712.1
95°	2.1	50.1	267.3	484.4	559.6
97.5°	2.1	20.9	183.8	365.4	440.6
100°	2.1	10.4	116.9	265.2	329.9
102.5°	4.2	6.3	73.1	190.0	242.2
105°	4.2	6.3	43.9	129.5	173.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.3	6.3	8.4	35.5	52.2
115°	6.3	6.3	8.4	23.0	33.4
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°	4.2	6.3	25.1	87.7	119.0
110°	6.3	6.3	14.6	54.3	79.3



(END OF REPORT)