

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: P580316

Luminaire Tested: **HVSL12-8-LD4-3STD-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580316
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-LD4-3STD-30-UNV-O-EDD
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

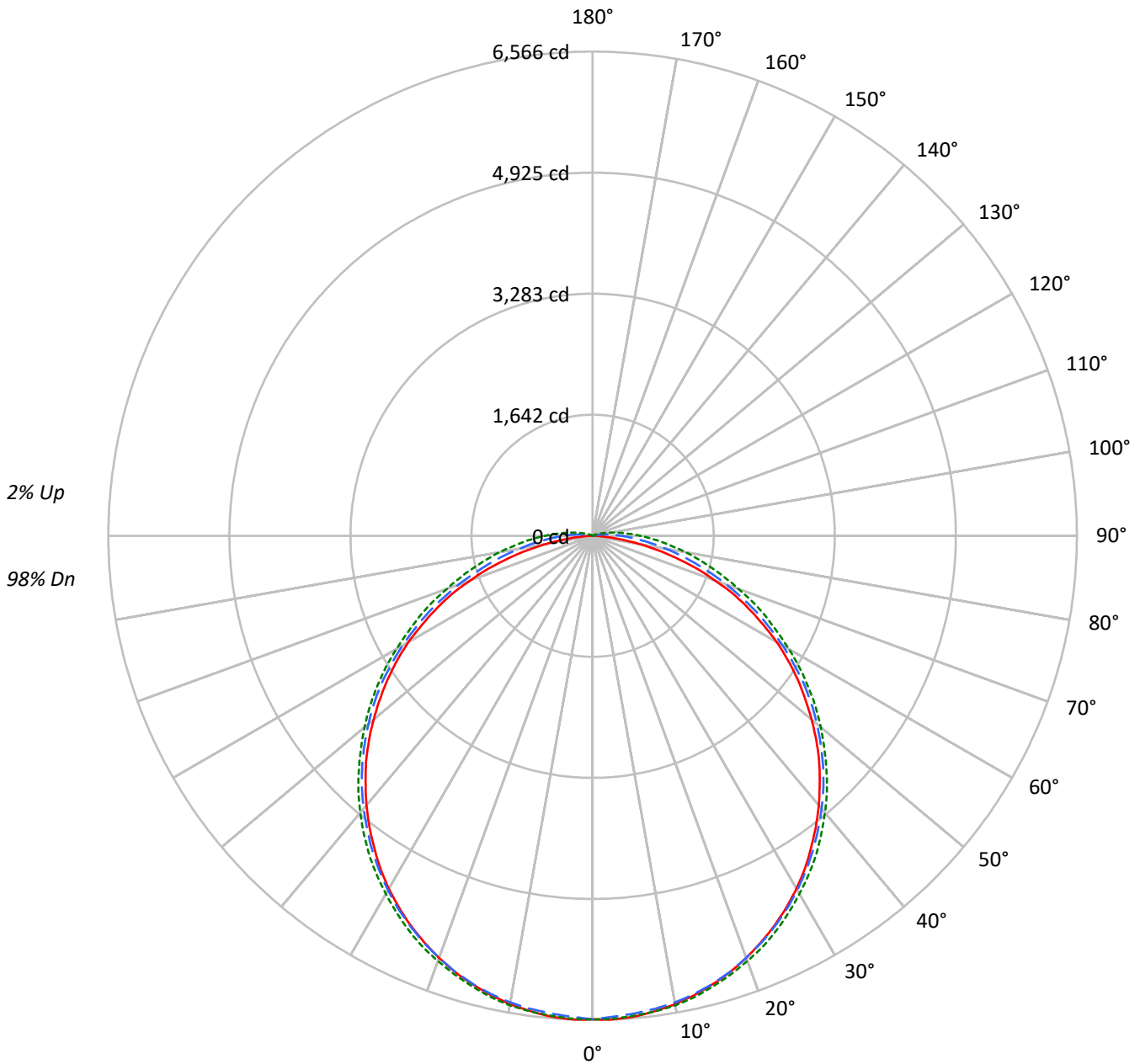
Lumens per Lamp: N/A
Luminaire Lumens: 19829.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 202.3
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°	8824	8824	8824
5°	8823	8682	8697
10°	8780	8580	8583
15°	8721	8460	8431
20°	8656	8318	8283
25°	8576	8171	8131
30°	8483	8010	7949
35°	8360	7828	7770
40°	8233	7636	7552
45°	8098	7423	7312
50°	7916	7171	7052
55°	7723	6891	6761
60°	7493	6509	6411
65°	7100	6078	6073
70°	6524	5559	5673
75°	5690	4989	5341
80°	4414	4458	5093
85°	2545	3975	4954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.6	3.1
10°-20°	1780.2	9.0
20°-30°	2701.1	13.6
30°-40°	3266.1	16.5
40°-50°	3408.0	17.2
50°-60°	3115.9	15.7
60°-70°	2429.0	12.2
70°-80°	1519.5	7.7
80°-90°	690.1	3.5
90°-100°	231.3	1.2
100°-110°	58.1	0.3
110°-120°	9.1	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°	5101.9	25.7
0°-40°	8368.1	42.2
0°-60°	14891.9	75.1
0°-90°	19530.5	98.5
90°-120°	298.5	1.5
90°-150°	298.5	1.5
90°-180°	299.0	1.5
0°-180°	19829.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6558	6558	6558	6558	6558	
5°	6544	6532	6503	6534	6534	621
15°	6295	6306	6289	6325	6323	1777
25°	5833	5838	5844	5893	5903	2688
35°	5164	5187	5209	5261	5283	3232
45°	4344	4383	4418	4462	4484	3348
55°	3390	3431	3494	3545	3568	3029
65°	2330	2370	2452	2549	2590	2305
75°	1180	1252	1435	1606	1667	1257
85°	204	377	648	856	932	258
90°	2	141	382	574	643	8
95°	2	37	198	359	414	1
105°	3	5	32	96	128	3
115°	5	5	6	17	25	3
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°	6558.2	6558.2	6558.2	6558.2	6558.2
2.5°	6566.0	6556.7	6527.3	6556.7	6555.1
5°	6544.3	6532.0	6502.6	6533.5	6533.5
7.5°	6501.0	6496.4	6470.1	6505.7	6505.7
10°	6450.0	6448.5	6426.8	6465.5	6467.0
12.5°	6378.9	6385.1	6365.0	6402.1	6406.7
15°	6295.4	6306.2	6289.2	6324.8	6323.2
17.5°	6204.2	6210.4	6198.0	6238.2	6236.7
20°	6091.3	6099.1	6089.8	6131.5	6136.2
22.5°	5966.1	5976.9	5975.4	6018.7	6031.0
25°	5833.1	5837.8	5844.0	5893.4	5902.7
27.5°	5686.3	5694.0	5704.8	5749.7	5758.9
30°	5525.5	5537.9	5550.2	5596.6	5609.0
32.5°	5355.4	5367.8	5383.3	5443.6	5449.7
35°	5163.7	5186.9	5208.6	5261.1	5282.8
37.5°	4972.0	5001.4	5021.5	5077.1	5094.2
40°	4769.5	4798.9	4831.3	4890.1	4900.9
42.5°	4557.7	4591.7	4630.3	4682.9	4701.5
45°	4344.3	4383.0	4418.5	4461.8	4483.5
47.5°	4114.0	4152.6	4195.9	4245.4	4259.3
50°	3875.9	3920.7	3967.1	4013.5	4038.2
52.5°	3631.6	3685.7	3738.3	3787.8	3811.0
55°	3390.4	3430.6	3494.0	3545.0	3568.2
57.5°	3140.0	3174.0	3231.2	3314.7	3327.0
60°	2884.9	2915.8	2974.6	3042.6	3070.4
62.5°	2603.5	2645.2	2707.1	2793.7	2818.4
65°	2329.9	2370.1	2452.0	2549.4	2589.6
67.5°	2065.5	2079.4	2184.5	2286.6	2351.5
70°	1753.2	1805.8	1927.9	2053.1	2102.6
72.5°	1484.2	1536.7	1671.3	1818.1	1880.0
75°	1179.6	1252.3	1434.7	1606.3	1666.6
77.5°	912.2	992.5	1218.3	1391.4	1461.0
80°	637.0	762.2	1008.0	1202.8	1278.6
82.5°	400.4	555.0	817.8	1021.9	1088.4
85°	204.1	377.2	647.8	856.5	932.3
87.5°	54.1	244.3	504.0	703.4	780.7
90°	1.5	140.7	381.9	573.6	643.1
92.5°	1.5	78.8	284.5	456.1	527.2
95°	1.5	37.1	197.9	358.7	414.3
97.5°	1.5	15.5	136.1	270.6	326.2
100°	1.5	7.7	86.6	196.3	244.3
102.5°	3.1	4.6	54.1	140.7	179.3
105°	3.1	4.6	32.5	95.9	128.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.6	4.6	6.2	26.3	38.7
115°	4.6	4.6	6.2	17.0	24.7
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°	3.1	4.6	18.6	64.9	88.1
110°	4.6	4.6	10.8	40.2	58.7



(END OF REPORT)