

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: P580318

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580318
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-35-UNV-O-EDD
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

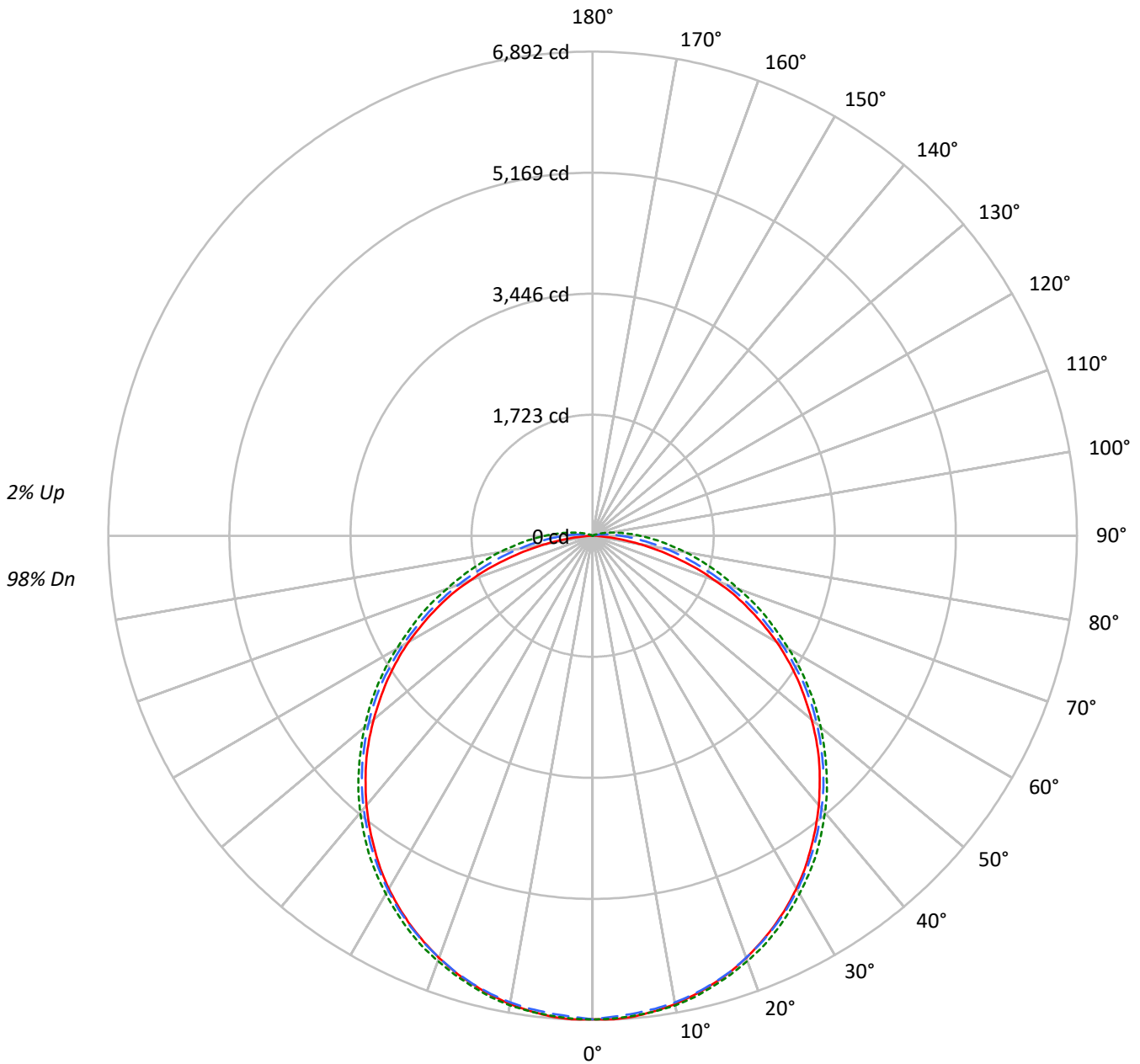
Lumens per Lamp: N/A
Luminaire Lumens: 20812.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P580318

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

Luminous Intensity Polar Plot





TEST NUMBER: P580318

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

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°	9262	9262	9262
5°	9260	9112	9129
10°	9215	9005	9009
15°	9153	8879	8849
20°	9085	8731	8694
25°	9002	8576	8534
30°	8903	8407	8343
35°	8774	8216	8155
40°	8641	8015	7926
45°	8499	7791	7675
50°	8309	7526	7401
55°	8106	7233	7096
60°	7864	6832	6729
65°	7452	6379	6374
70°	6847	5835	5954
75°	5972	5236	5606
80°	4632	4679	5345
85°	2671	4172	5199



TEST NUMBER: P580318

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.4	3.1
10°-20°	1868.4	9.0
20°-30°	2835.0	13.6
30°-40°	3428.0	16.5
40°-50°	3576.9	17.2
50°-60°	3270.3	15.7
60°-70°	2549.4	12.2
70°-80°	1594.8	7.7
80°-90°	724.3	3.5
90°-100°	242.8	1.2
100°-110°	61.0	0.3
110°-120°	9.6	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°	5354.9	25.7
0°-40°	8782.9	42.2
0°-60°	15630.1	75.1
0°-90°	20498.7	98.5
90°-120°	313.3	1.5
90°-150°	313.3	1.5
90°-180°	313.0	1.5
0°-180°	20812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6883	6883	6883	6883	6883	
5°	6869	6856	6825	6857	6857	652
15°	6608	6619	6601	6638	6637	1865
25°	6122	6127	6134	6186	6195	2821
35°	5420	5444	5467	5522	5545	3392
45°	4560	4600	4638	4683	4706	3513
55°	3558	3601	3667	3721	3745	3179
65°	2445	2488	2574	2676	2718	2420
75°	1238	1314	1506	1686	1749	1320
85°	214	396	680	899	978	271
90°	2	148	401	602	675	8
95°	2	39	208	376	435	1
105°	3	5	34	101	135	3
115°	5	5	6	18	26	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



TEST NUMBER: P580318

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6883.4	6883.4	6883.4	6883.4	6883.4
2.5°	6891.5	6881.7	6850.9	6881.7	6880.1
5°	6868.7	6855.8	6824.9	6857.4	6857.4
7.5°	6823.3	6818.4	6790.9	6828.2	6828.2
10°	6769.8	6768.1	6745.4	6786.0	6787.6
12.5°	6695.1	6701.6	6680.5	6719.5	6724.3
15°	6607.5	6618.9	6601.0	6638.3	6636.7
17.5°	6511.8	6518.3	6505.3	6547.5	6545.8
20°	6393.3	6401.4	6391.7	6435.5	6440.4
22.5°	6261.9	6273.2	6271.6	6317.0	6330.0
25°	6122.3	6127.2	6133.7	6185.6	6195.3
27.5°	5968.2	5976.3	5987.6	6034.7	6044.4
30°	5799.4	5812.4	5825.4	5874.1	5887.0
32.5°	5620.9	5633.9	5650.1	5713.4	5719.9
35°	5419.7	5444.0	5466.8	5521.9	5544.7
37.5°	5218.5	5249.3	5270.4	5328.8	5346.7
40°	5005.9	5036.8	5070.8	5132.5	5143.9
42.5°	4783.6	4819.3	4859.9	4915.1	4934.5
45°	4559.7	4600.3	4637.6	4683.0	4705.7
47.5°	4317.9	4358.5	4403.9	4455.8	4470.4
50°	4068.0	4115.1	4163.8	4212.4	4238.4
52.5°	3811.6	3868.4	3923.6	3975.5	3999.9
55°	3558.5	3600.7	3667.2	3720.8	3745.1
57.5°	3295.6	3331.3	3391.4	3479.0	3492.0
60°	3027.9	3060.3	3122.0	3193.4	3222.6
62.5°	2732.6	2776.4	2841.3	2932.2	2958.1
65°	2445.4	2487.5	2573.5	2675.8	2718.0
67.5°	2167.9	2182.5	2292.8	2399.9	2468.1
70°	1840.1	1895.3	2023.5	2154.9	2206.8
72.5°	1557.8	1612.9	1754.1	1908.3	1973.2
75°	1238.1	1314.4	1505.8	1686.0	1749.2
77.5°	957.4	1041.8	1278.7	1460.4	1533.4
80°	668.5	800.0	1058.0	1262.4	1341.9
82.5°	420.3	582.5	858.4	1072.6	1142.4
85°	214.2	395.9	679.9	899.0	978.5
87.5°	56.8	256.4	529.0	738.3	819.4
90°	1.6	147.7	400.8	602.0	675.0
92.5°	1.6	82.8	298.6	478.7	553.3
95°	1.6	38.9	207.7	376.5	434.9
97.5°	1.6	16.2	142.8	284.0	342.4
100°	1.6	8.1	90.9	206.1	256.4
102.5°	3.2	4.9	56.8	147.7	188.2
105°	3.2	4.9	34.1	100.6	134.7



TEST NUMBER: P580318

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.9	4.9	6.5	27.6	40.6
115°	4.9	4.9	6.5	17.8	26.0
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°	3.2	4.9	19.5	68.2	92.5
110°	4.9	4.9	11.4	42.2	61.7



(END OF REPORT)