

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: P580279

Luminaire Tested: **HVSL12-8-LD4-2HI-40-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580279
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-40-UNV-O-EDD-90
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

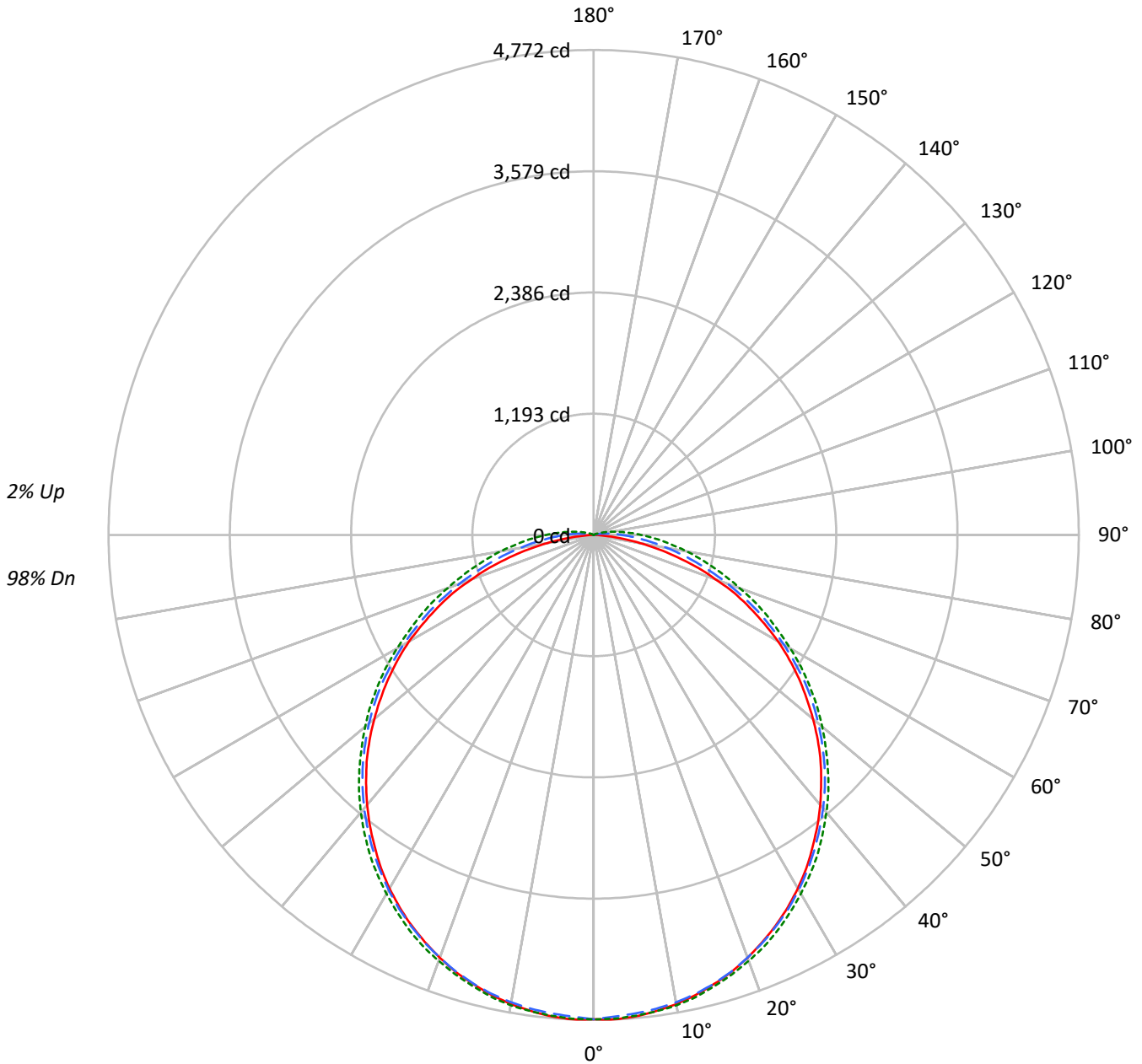
Lumens per Lamp: N/A
Luminaire Lumens: 14412.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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°	6413	6413	6413
5°	6413	6310	6321
10°	6382	6236	6238
15°	6338	6149	6128
20°	6291	6046	6021
25°	6233	5939	5910
30°	6165	5822	5778
35°	6076	5690	5647
40°	5984	5550	5489
45°	5885	5395	5315
50°	5754	5212	5125
55°	5613	5009	4914
60°	5446	4731	4660
65°	5161	4417	4414
70°	4741	4040	4123
75°	4136	3626	3882
80°	3208	3240	3701
85°	1849	2889	3600



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.1	3.1
10°-20°	1293.9	9.0
20°-30°	1963.2	13.6
30°-40°	2373.9	16.5
40°-50°	2476.9	17.2
50°-60°	2264.7	15.7
60°-70°	1765.4	12.2
70°-80°	1104.4	7.7
80°-90°	501.6	3.5
90°-100°	168.1	1.2
100°-110°	42.2	0.3
110°-120°	6.7	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°	3708.2	25.7
0°-40°	6082.0	42.2
0°-60°	10823.7	75.1
0°-90°	14195.0	98.5
90°-120°	217.0	1.5
90°-150°	217.0	1.5
90°-180°	217.0	1.5
0°-180°	14412.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4767	4767	4767	4767	4767	
5°	4756	4748	4726	4749	4749	452
15°	4576	4584	4571	4597	4596	1292
25°	4240	4243	4248	4283	4290	1954
35°	3753	3770	3786	3824	3840	2349
45°	3158	3186	3212	3243	3259	2433
55°	2464	2493	2540	2577	2593	2201
65°	1693	1723	1782	1853	1882	1676
75°	857	910	1043	1168	1211	914
85°	148	274	471	622	678	188
90°	1	102	278	417	467	6
95°	1	27	144	261	301	1
105°	2	3	24	70	93	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°	4766.6	4766.6	4766.6	4766.6	4766.6
2.5°	4772.2	4765.5	4744.1	4765.5	4764.4
5°	4756.5	4747.5	4726.2	4748.6	4748.6
7.5°	4725.0	4721.7	4702.6	4728.4	4728.4
10°	4688.0	4686.8	4671.1	4699.2	4700.3
12.5°	4636.3	4640.8	4626.2	4653.1	4656.5
15°	4575.6	4583.5	4571.1	4596.9	4595.8
17.5°	4509.3	4513.8	4504.8	4534.0	4532.9
20°	4427.3	4432.9	4426.1	4456.5	4459.9
22.5°	4336.3	4344.1	4343.0	4374.5	4383.4
25°	4239.6	4243.0	4247.5	4283.4	4290.2
27.5°	4132.9	4138.5	4146.4	4178.9	4185.7
30°	4016.0	4025.0	4034.0	4067.7	4076.7
32.5°	3892.4	3901.4	3912.6	3956.5	3960.9
35°	3753.1	3769.9	3785.7	3823.9	3839.6
37.5°	3613.7	3635.1	3649.7	3690.1	3702.5
40°	3466.5	3487.9	3511.5	3554.2	3562.0
42.5°	3312.6	3337.3	3365.4	3403.6	3417.1
45°	3157.5	3185.6	3211.5	3242.9	3258.7
47.5°	2990.1	3018.2	3049.6	3085.6	3095.7
50°	2817.0	2849.6	2883.3	2917.1	2935.0
52.5°	2639.5	2678.8	2717.0	2753.0	2769.9
55°	2464.2	2493.4	2539.5	2576.6	2593.4
57.5°	2282.2	2306.9	2348.5	2409.2	2418.1
60°	2096.8	2119.2	2161.9	2211.4	2231.6
62.5°	1892.3	1922.6	1967.6	2030.5	2048.5
65°	1693.4	1722.6	1782.1	1852.9	1882.2
67.5°	1501.2	1511.3	1587.7	1661.9	1709.1
70°	1274.2	1312.4	1401.2	1492.2	1528.2
72.5°	1078.7	1116.9	1214.7	1321.4	1366.4
75°	857.4	910.2	1042.8	1167.5	1211.3
77.5°	663.0	721.4	885.5	1011.3	1061.9
80°	463.0	554.0	732.6	874.2	929.3
82.5°	291.0	403.4	594.4	742.7	791.1
85°	148.3	274.2	470.8	622.5	677.6
87.5°	39.3	177.5	366.3	511.3	567.5
90°	1.1	102.3	277.5	416.9	467.4
92.5°	1.1	57.3	206.8	331.5	383.2
95°	1.1	27.0	143.8	260.7	301.1
97.5°	1.1	11.2	98.9	196.6	237.1
100°	1.1	5.6	62.9	142.7	177.5
102.5°	2.2	3.4	39.3	102.3	130.3
105°	2.2	3.4	23.6	69.7	93.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.4	3.4	4.5	19.1	28.1
115°	3.4	3.4	4.5	12.4	18.0
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°	2.2	3.4	13.5	47.2	64.0
110°	3.4	3.4	7.9	29.2	42.7



(END OF REPORT)