

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: P580281

Luminaire Tested: **HVSL12-8-LD4-2HI-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580281
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-50-UNV-O-EDD-90
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

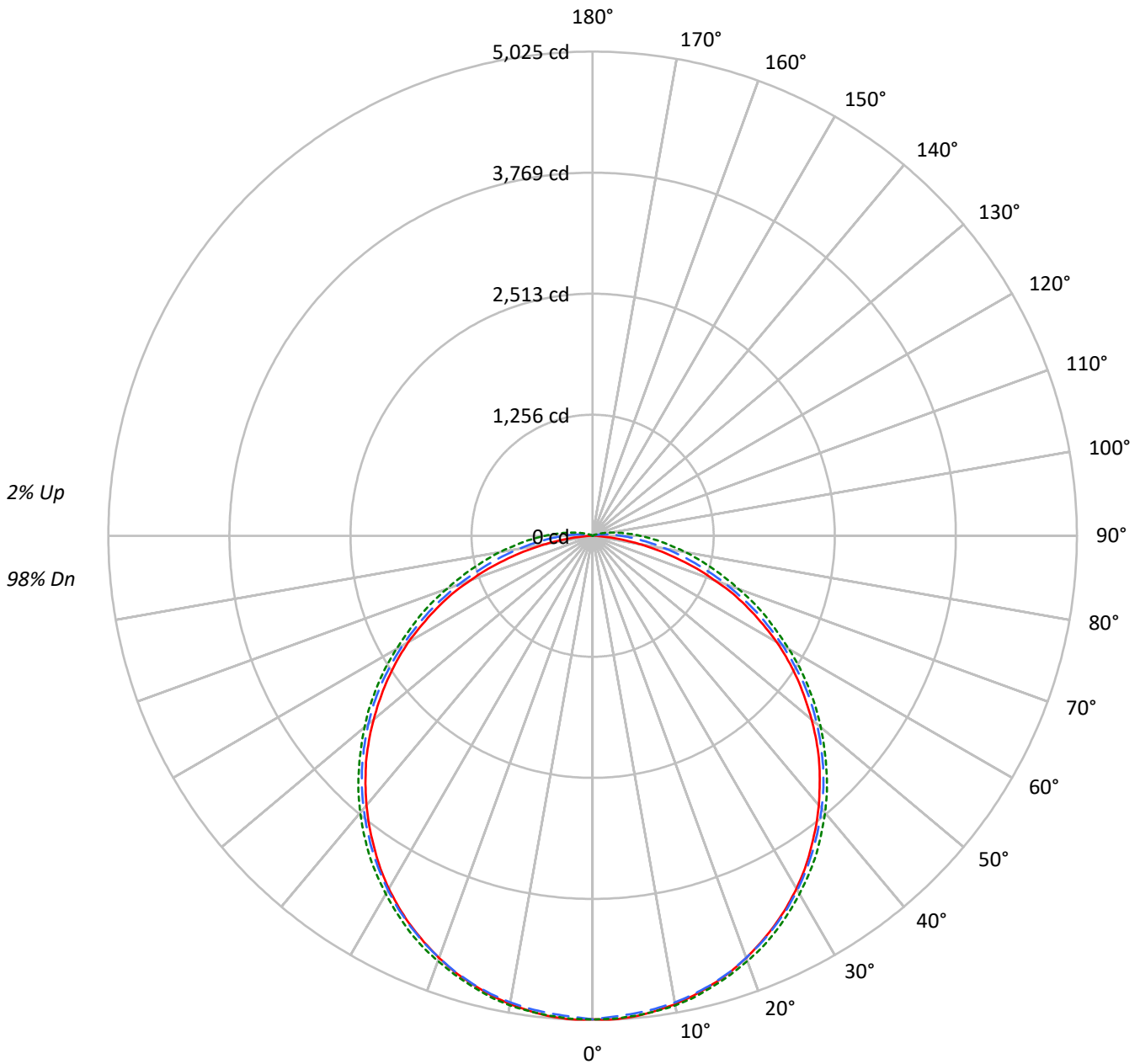
Lumens per Lamp: N/A
Luminaire Lumens: 15176.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

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°	6753	6753	6753
5°	6753	6645	6657
10°	6720	6567	6569
15°	6674	6475	6453
20°	6625	6366	6340
25°	6564	6253	6223
30°	6492	6130	6084
35°	6398	5991	5947
40°	6301	5844	5780
45°	6198	5681	5596
50°	6059	5488	5397
55°	5911	5274	5174
60°	5734	4982	4907
65°	5434	4652	4648
70°	4993	4254	4342
75°	4355	3818	4088
80°	3378	3412	3897
85°	1948	3042	3791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.0	3.1
10°-20°	1362.5	9.0
20°-30°	2067.3	13.6
30°-40°	2499.7	16.5
40°-50°	2608.3	17.2
50°-60°	2384.7	15.7
60°-70°	1859.0	12.2
70°-80°	1162.9	7.7
80°-90°	528.2	3.5
90°-100°	177.0	1.2
100°-110°	44.4	0.3
110°-120°	7.0	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°	3904.7	25.7
0°-40°	6404.4	42.2
0°-60°	11397.4	75.1
0°-90°	14947.5	98.5
90°-120°	228.5	1.5
90°-150°	228.5	1.5
90°-180°	228.0	1.5
0°-180°	15176.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5019	5019	5019	5019	5019	
5°	5009	4999	4977	5000	5000	476
15°	4818	4826	4813	4841	4840	1360
25°	4464	4468	4473	4510	4518	2057
35°	3952	3970	3986	4027	4043	2474
45°	3325	3354	3382	3415	3431	2562
55°	2595	2626	2674	2713	2731	2318
65°	1783	1814	1877	1951	1982	1764
75°	903	958	1098	1229	1276	962
85°	156	289	496	656	714	198
90°	1	108	292	439	492	6
95°	1	28	152	274	317	1
105°	2	4	25	73	98	3
115°	4	4	5	13	19	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°	5019.3	5019.3	5019.3	5019.3	5019.3
2.5°	5025.2	5018.1	4995.6	5018.1	5016.9
5°	5008.7	4999.2	4976.7	5000.4	5000.4
7.5°	4975.5	4972.0	4951.9	4979.1	4979.1
10°	4936.5	4935.3	4918.7	4948.3	4949.5
12.5°	4882.0	4886.8	4871.4	4899.8	4903.3
15°	4818.2	4826.4	4813.4	4840.6	4839.5
17.5°	4748.3	4753.1	4743.6	4774.4	4773.2
20°	4662.0	4667.9	4660.8	4692.7	4696.3
22.5°	4566.1	4574.4	4573.2	4606.4	4615.8
25°	4464.4	4467.9	4472.6	4510.5	4517.6
27.5°	4352.0	4357.9	4366.2	4400.5	4407.6
30°	4228.9	4238.4	4247.8	4283.3	4292.8
32.5°	4098.7	4108.2	4120.0	4166.2	4170.9
35°	3952.0	3969.8	3986.3	4026.6	4043.1
37.5°	3805.3	3827.8	3843.2	3885.8	3898.8
40°	3650.3	3672.8	3697.6	3742.6	3750.9
42.5°	3488.2	3514.2	3543.8	3584.0	3598.2
45°	3324.9	3354.5	3381.7	3414.8	3431.4
47.5°	3148.6	3178.2	3211.3	3249.2	3259.8
50°	2966.4	3000.7	3036.2	3071.7	3090.6
52.5°	2779.4	2820.8	2861.1	2898.9	2916.7
55°	2594.8	2625.6	2674.1	2713.2	2730.9
57.5°	2403.2	2429.2	2473.0	2536.9	2546.3
60°	2207.9	2231.6	2276.6	2328.6	2349.9
62.5°	1992.6	2024.5	2071.9	2138.1	2157.0
65°	1783.1	1813.9	1876.6	1951.2	1981.9
67.5°	1580.8	1591.5	1671.9	1750.0	1799.7
70°	1341.8	1382.0	1475.5	1571.3	1609.2
72.5°	1135.9	1176.1	1279.1	1391.5	1438.8
75°	902.8	958.4	1098.0	1229.4	1275.5
77.5°	698.1	759.6	932.4	1064.9	1118.2
80°	487.5	583.3	771.5	920.6	978.5
82.5°	306.5	424.8	625.9	782.1	833.0
85°	156.2	288.7	495.8	655.5	713.5
87.5°	41.4	187.0	385.7	538.4	597.5
90°	1.2	107.7	292.3	439.0	492.2
92.5°	1.2	60.3	217.7	349.1	403.5
95°	1.2	28.4	151.5	274.5	317.1
97.5°	1.2	11.8	104.1	207.1	249.7
100°	1.2	5.9	66.3	150.3	187.0
102.5°	2.4	3.5	41.4	107.7	137.3
105°	2.4	3.5	24.8	73.4	98.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.5	3.5	4.7	20.1	29.6
115°	3.5	3.5	4.7	13.0	18.9
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°	2.4	3.5	14.2	49.7	67.4
110°	3.5	3.5	8.3	30.8	45.0



(END OF REPORT)