

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: P580692

Luminaire Tested: **HVSL8-2-LD4-2LO-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580692
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: HVSL8-2-LD4-2LO-30-UNV-O-EDD
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

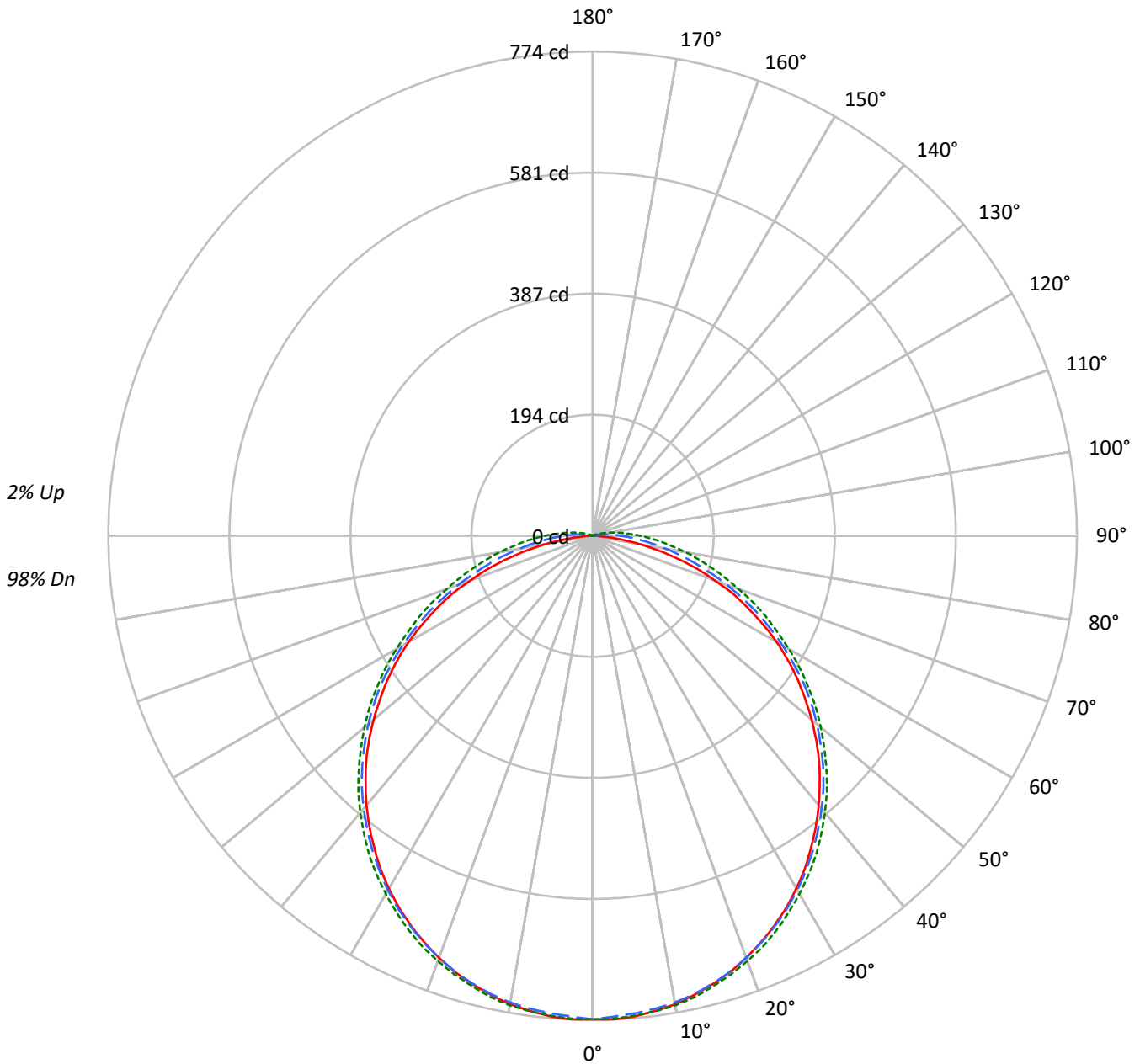
Lumens per Lamp: N/A
Luminaire Lumens: 2337.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 23.8
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°	6240	6240	6240
5°	6205	6085	6106
10°	6141	5962	5984
15°	6066	5827	5837
20°	5986	5679	5695
25°	5895	5528	5550
30°	5792	5367	5385
35°	5667	5193	5222
40°	5536	5010	5031
45°	5396	4812	4826
50°	5219	4585	4605
55°	5026	4336	4361
60°	4797	4019	4077
65°	4450	3667	3795
70°	3968	3255	3467
75°	3307	2806	3169
80°	2371	2363	2897
85°	1143	1913	2639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	3.1
10°-20°	209.8	9.0
20°-30°	318.3	13.6
30°-40°	384.9	16.5
40°-50°	401.7	17.2
50°-60°	367.2	15.7
60°-70°	286.3	12.3
70°-80°	179.1	7.7
80°-90°	81.3	3.5
90°-100°	27.3	1.2
100°-110°	6.8	0.3
110°-120°	1.1	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°	601.3	25.7
0°-40°	986.2	42.2
0°-60°	1755.1	75.1
0°-90°	2301.8	98.5
90°-120°	35.2	1.5
90°-150°	35.2	1.5
90°-180°	35.0	1.5
0°-180°	2337.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	771	770	766	770	770	73
15°	742	743	741	745	745	209
25°	688	688	689	695	696	317
35°	609	611	614	620	623	381
45°	512	517	521	526	528	395
55°	400	404	412	418	420	357
65°	275	279	289	300	305	272
75°	139	148	169	189	196	148
85°	24	44	76	101	110	30
90°	0	17	45	68	76	1
95°	0	4	23	42	49	0
105°	0	0	4	11	15	0
115°	0	0	1	2	3	0
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°	772.9	772.9	772.9	772.9	772.9
2.5°	773.8	772.8	769.3	772.8	772.6
5°	771.3	769.8	766.4	770.0	770.0
7.5°	766.2	765.6	762.6	766.7	766.7
10°	760.2	760.0	757.5	762.0	762.2
12.5°	751.8	752.5	750.2	754.5	755.1
15°	742.0	743.2	741.2	745.4	745.2
17.5°	731.2	731.9	730.5	735.2	735.0
20°	717.9	718.8	717.7	722.6	723.2
22.5°	703.2	704.4	704.2	709.3	710.8
25°	687.5	688.0	688.8	694.6	695.7
27.5°	670.2	671.1	672.4	677.6	678.7
30°	651.2	652.7	654.1	659.6	661.1
32.5°	631.2	632.6	634.5	641.6	642.3
35°	608.6	611.3	613.9	620.1	622.6
37.5°	586.0	589.5	591.8	598.4	600.4
40°	562.1	565.6	569.4	576.3	577.6
42.5°	537.2	541.2	545.7	551.9	554.1
45°	512.0	516.6	520.8	525.9	528.4
47.5°	484.9	489.4	494.5	500.4	502.0
50°	456.8	462.1	467.6	473.0	475.9
52.5°	428.0	434.4	440.6	446.4	449.1
55°	399.6	404.3	411.8	417.8	420.5
57.5°	370.1	374.1	380.8	390.7	392.1
60°	340.0	343.6	350.6	358.6	361.9
62.5°	306.8	311.8	319.1	329.3	332.2
65°	274.6	279.3	289.0	300.5	305.2
67.5°	243.4	245.1	257.5	269.5	277.1
70°	206.6	212.8	227.2	242.0	247.8
72.5°	174.9	181.1	197.0	214.3	221.6
75°	139.0	147.6	169.1	189.3	196.4
77.5°	107.5	117.0	143.6	164.0	172.2
80°	75.1	89.8	118.8	141.8	150.7
82.5°	47.2	65.4	96.4	120.4	128.3
85°	24.1	44.5	76.3	100.9	109.9
87.5°	6.4	28.8	59.4	82.9	92.0
90°	0.2	16.6	45.0	67.6	75.8
92.5°	0.2	9.3	33.5	53.8	62.1
95°	0.2	4.4	23.3	42.3	48.8
97.5°	0.2	1.8	16.0	31.9	38.4
100°	0.2	0.9	10.2	23.1	28.8
102.5°	0.4	0.5	6.4	16.6	21.1
105°	0.4	0.5	3.8	11.3	15.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.7	3.1	4.6
115°	0.5	0.5	0.7	2.0	2.9
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°	0.4	0.5	2.2	7.7	10.4
110°	0.5	0.5	1.3	4.7	6.9



(END OF REPORT)