

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: P580323

Luminaire Tested: **HVSL2-2-LD4-HI-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580323
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: HVSL2-2-LD4-HI-30-UNV-O-EDD-90
Description: 2 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

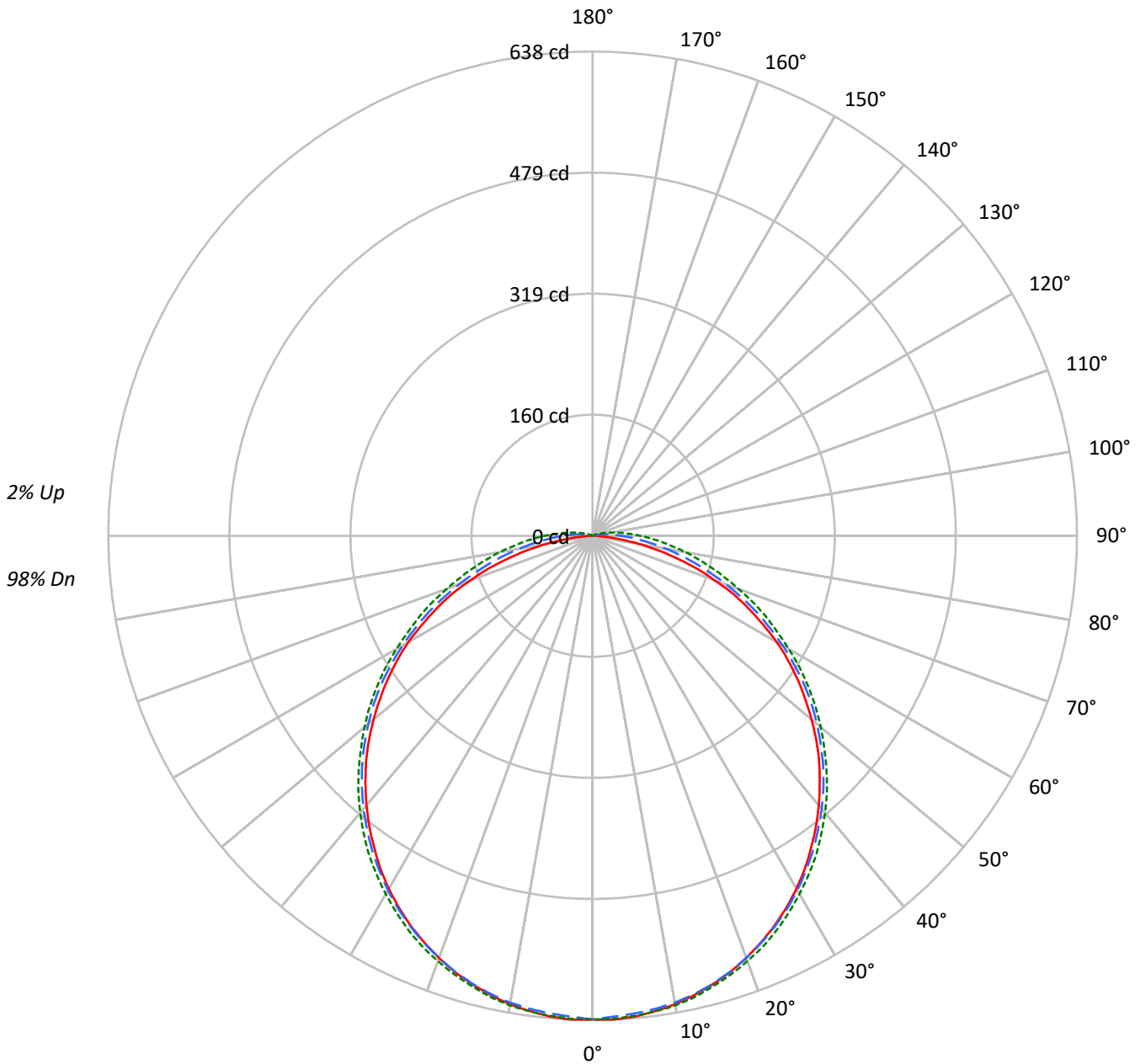
Lumens per Lamp: N/A
Luminaire Lumens: 1927.1 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 21.6
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°	20580	20580	20580
5°	20467	19196	18924
10°	20255	18043	17519
15°	20006	16953	16201
20°	19745	15902	15023
25°	19443	14908	13937
30°	19104	13944	12885
35°	18691	12987	11903
40°	18261	12046	10916
45°	17797	11103	9948
50°	17214	10123	8993
55°	16577	9129	8040
60°	15825	8023	7053
65°	14676	6889	6115
70°	13091	5698	5146
75°	10906	4506	4271
80°	7816	3409	3464
85°	3757	2392	2700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	3.1
10°-20°	173.0	9.0
20°-30°	262.5	13.6
30°-40°	317.4	16.5
40°-50°	331.2	17.2
50°-60°	302.8	15.7
60°-70°	236.1	12.2
70°-80°	147.7	7.7
80°-90°	67.1	3.5
90°-100°	22.5	1.2
100°-110°	5.7	0.3
110°-120°	0.9	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°	495.8	25.7
0°-40°	813.2	42.2
0°-60°	1447.2	75.1
0°-90°	1898.0	98.5
90°-120°	29.1	1.5
90°-150°	29.1	1.5
90°-180°	29.0	1.5
0°-180°	1927.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	636	635	632	635	635	60
15°	612	613	611	615	614	173
25°	567	567	568	573	574	261
35°	502	504	506	511	513	314
45°	422	426	429	434	436	325
55°	330	333	340	344	347	294
65°	226	230	238	248	252	224
75°	115	122	139	156	162	122
85°	20	37	63	83	91	25
90°	0	14	37	56	62	1
95°	0	4	19	35	40	0
105°	0	0	3	9	12	0
115°	0	0	1	2	2	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°	637.3	637.3	637.3	637.3	637.3
2.5°	638.1	637.2	634.3	637.2	637.0
5°	636.0	634.8	631.9	634.9	634.9
7.5°	631.8	631.3	628.8	632.2	632.2
10°	626.8	626.7	624.6	628.3	628.5
12.5°	619.9	620.5	618.6	622.2	622.6
15°	611.8	612.8	611.2	614.6	614.5
17.5°	602.9	603.5	602.3	606.2	606.1
20°	592.0	592.7	591.8	595.9	596.3
22.5°	579.8	580.8	580.7	584.9	586.1
25°	566.9	567.3	567.9	572.7	573.6
27.5°	552.6	553.3	554.4	558.8	559.7
30°	537.0	538.2	539.4	543.9	545.1
32.5°	520.4	521.6	523.1	529.0	529.6
35°	501.8	504.1	506.2	511.3	513.4
37.5°	483.2	486.0	488.0	493.4	495.1
40°	463.5	466.4	469.5	475.2	476.3
42.5°	442.9	446.2	450.0	455.1	456.9
45°	422.2	425.9	429.4	433.6	435.7
47.5°	399.8	403.6	407.8	412.6	413.9
50°	376.7	381.0	385.5	390.0	392.4
52.5°	352.9	358.2	363.3	368.1	370.4
55°	329.5	333.4	339.6	344.5	346.8
57.5°	305.1	308.5	314.0	322.1	323.3
60°	280.4	283.4	289.1	295.7	298.4
62.5°	253.0	257.1	263.1	271.5	273.9
65°	226.4	230.3	238.3	247.8	251.7
67.5°	200.7	202.1	212.3	222.2	228.5
70°	170.4	175.5	187.4	199.5	204.3
72.5°	144.2	149.3	162.4	176.7	182.7
75°	114.6	121.7	139.4	156.1	162.0
77.5°	88.6	96.5	118.4	135.2	142.0
80°	61.9	74.1	98.0	116.9	124.3
82.5°	38.9	53.9	79.5	99.3	105.8
85°	19.8	36.7	63.0	83.2	90.6
87.5°	5.3	23.7	49.0	68.4	75.9
90°	0.2	13.7	37.1	55.7	62.5
92.5°	0.2	7.7	27.6	44.3	51.2
95°	0.2	3.6	19.2	34.9	40.3
97.5°	0.2	1.5	13.2	26.3	31.7
100°	0.2	0.8	8.4	19.1	23.7
102.5°	0.3	0.5	5.3	13.7	17.4
105°	0.3	0.5	3.2	9.3	12.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.6	2.6	3.8
115°	0.5	0.5	0.6	1.7	2.4
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°	0.3	0.5	1.8	6.3	8.6
110°	0.5	0.5	1.1	3.9	5.7



(END OF REPORT)