

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: P580455

Luminaire Tested: **HVSL4-1-LD4-2LO-40-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580455
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: HVSL4-1-LD4-2LO-40-UNV-O-EDD-90
Description: 1 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

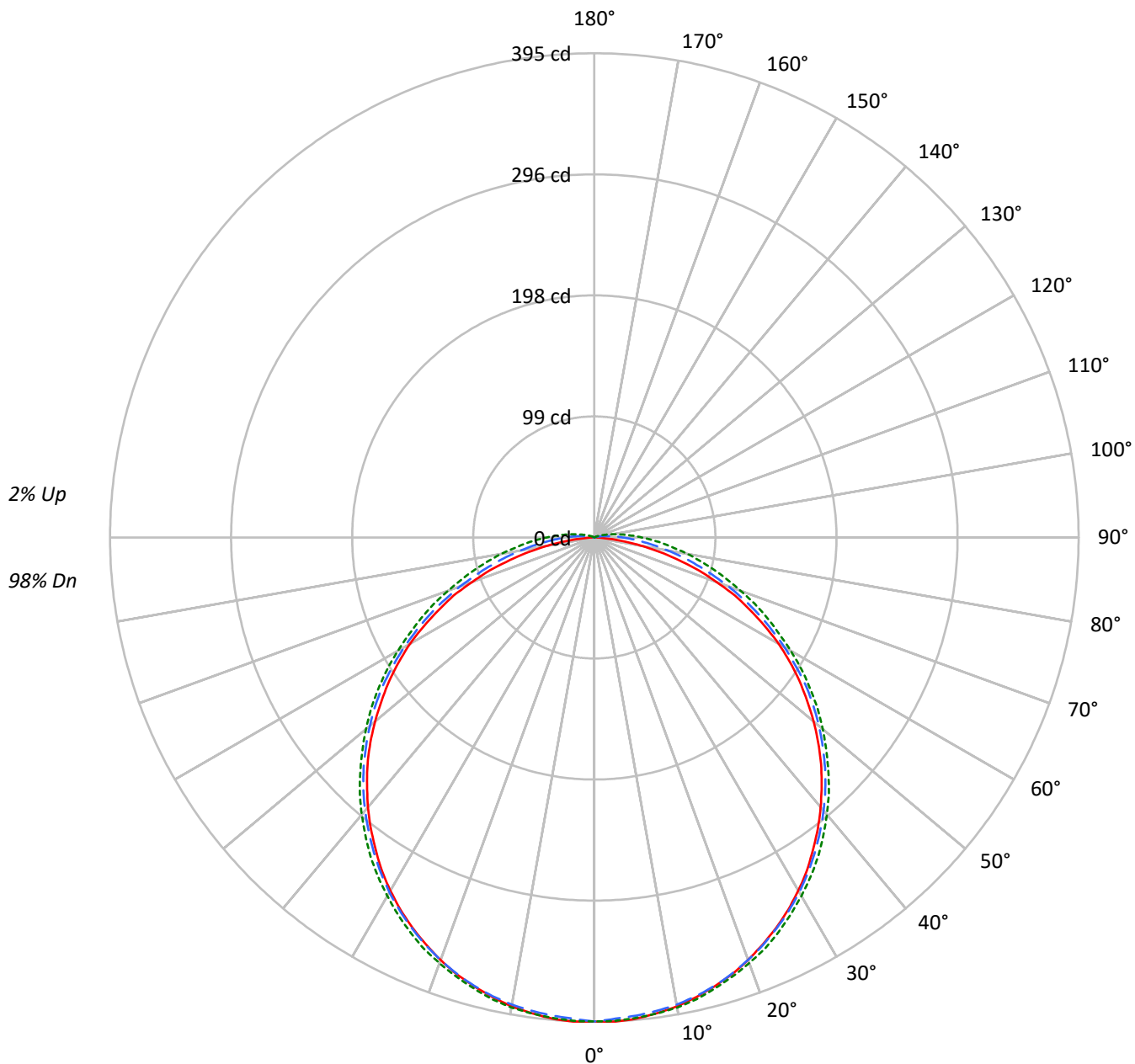
Lumens per Lamp: N/A
Luminaire Lumens: 1194.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.17')
CIE Type: Direct

Input Watts (W): 11.6
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					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		110	110	110		105	105	105		101	101	101
1	108	102	98	94	105	100	96	92		95	92	89		91	88	86		87	85	83
2	98	89	82	76	95	87	80	75		83	77	73		79	75	71		76	72	69
3	89	78	69	63	86	76	68	62		73	66	61		70	64	59		67	62	58
4	81	69	60	53	79	67	59	52		65	57	52		62	56	51		60	54	50
5	75	61	52	45	72	60	52	45		58	50	44		56	49	44		54	48	43
6	69	55	46	40	67	54	46	39		52	45	39		50	44	38		49	43	38
7	64	50	41	35	62	49	41	35		47	40	34		46	39	34		44	38	34
8	59	46	37	31	58	45	37	31		43	36	31		42	35	30		41	35	30
9	55	42	34	28	54	41	33	28		40	33	28		39	32	27		38	32	27
10	52	39	31	25	51	38	30	25		37	30	25		36	29	25		35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12752	12752	12752
5°	12591	12191	12218
10°	12372	11716	11734
15°	12132	11240	11226
20°	11884	10756	10742
25°	11611	10278	10268
30°	11316	9795	9771
35°	10975	9294	9288
40°	10621	8786	8763
45°	10240	8258	8220
50°	9782	7684	7655
55°	9286	7079	7058
60°	8705	6367	6399
65°	7897	5608	5748
70°	6838	4775	5035
75°	5461	3906	4370
80°	3671	3072	3733
85°	1569	2262	3095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.4	3.1
10°-20°	107.2	9.0
20°-30°	162.6	13.6
30°-40°	196.7	16.5
40°-50°	205.2	17.2
50°-60°	187.6	15.7
60°-70°	146.3	12.2
70°-80°	91.5	7.7
80°-90°	41.5	3.5
90°-100°	13.9	1.2
100°-110°	3.5	0.3
110°-120°	0.6	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°	307.2	25.7
0°-40°	503.9	42.2
0°-60°	896.7	75.1
0°-90°	1176.0	98.5
90°-120°	18.0	1.5
90°-150°	18.0	1.5
90°-180°	18.0	1.5
0°-180°	1194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	395	395	395	395	395	
5°	394	393	392	393	393	37
15°	379	380	379	381	381	107
25°	351	352	352	355	355	162
35°	311	312	314	317	318	195
45°	262	264	266	269	270	202
55°	204	207	210	214	215	182
65°	140	143	148	154	156	139
75°	71	75	86	97	100	76
85°	12	23	39	52	56	16
90°	0	8	23	34	39	0
95°	0	2	12	22	25	0
105°	0	0	2	6	8	0
115°	0	0	0	1	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	394.9	394.9	394.9	394.9	394.9
2.5°	395.4	394.8	393.0	394.8	394.7
5°	394.1	393.3	391.6	393.4	393.4
7.5°	391.5	391.2	389.6	391.7	391.7
10°	388.4	388.3	387.0	389.3	389.4
12.5°	384.1	384.5	383.3	385.5	385.8
15°	379.1	379.7	378.7	380.8	380.8
17.5°	373.6	374.0	373.2	375.6	375.5
20°	366.8	367.3	366.7	369.2	369.5
22.5°	359.2	359.9	359.8	362.4	363.2
25°	351.2	351.5	351.9	354.9	355.4
27.5°	342.4	342.9	343.5	346.2	346.8
30°	332.7	333.5	334.2	337.0	337.7
32.5°	322.5	323.2	324.2	327.8	328.2
35°	310.9	312.3	313.6	316.8	318.1
37.5°	299.4	301.2	302.4	305.7	306.7
40°	287.2	289.0	290.9	294.5	295.1
42.5°	274.4	276.5	278.8	282.0	283.1
45°	261.6	263.9	266.1	268.7	270.0
47.5°	247.7	250.0	252.7	255.6	256.5
50°	233.4	236.1	238.9	241.7	243.2
52.5°	218.7	221.9	225.1	228.1	229.5
55°	204.2	206.6	210.4	213.5	214.9
57.5°	189.1	191.1	194.6	199.6	200.3
60°	173.7	175.6	179.1	183.2	184.9
62.5°	156.8	159.3	163.0	168.2	169.7
65°	140.3	142.7	147.6	153.5	155.9
67.5°	124.4	125.2	131.5	137.7	141.6
70°	105.6	108.7	116.1	123.6	126.6
72.5°	89.4	92.5	100.6	109.5	113.2
75°	71.0	75.4	86.4	96.7	100.4
77.5°	54.9	59.8	73.4	83.8	88.0
80°	38.4	45.9	60.7	72.4	77.0
82.5°	24.1	33.4	49.2	61.5	65.5
85°	12.3	22.7	39.0	51.6	56.1
87.5°	3.3	14.7	30.3	42.4	47.0
90°	0.1	8.5	23.0	34.5	38.7
92.5°	0.1	4.7	17.1	27.5	31.7
95°	0.1	2.2	11.9	21.6	24.9
97.5°	0.1	0.9	8.2	16.3	19.6
100°	0.1	0.5	5.2	11.8	14.7
102.5°	0.2	0.3	3.3	8.5	10.8
105°	0.2	0.3	2.0	5.8	7.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.4	1.6	2.3
115°	0.3	0.3	0.4	1.0	1.5
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°	0.2	0.3	1.1	3.9	5.3
110°	0.3	0.3	0.7	2.4	3.5



(END OF REPORT)