

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: P580335

Luminaire Tested: **HVSL2-2-LD4-LO-40-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580335
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-LO-40-UNV-O-EDD-90
Description: 2 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

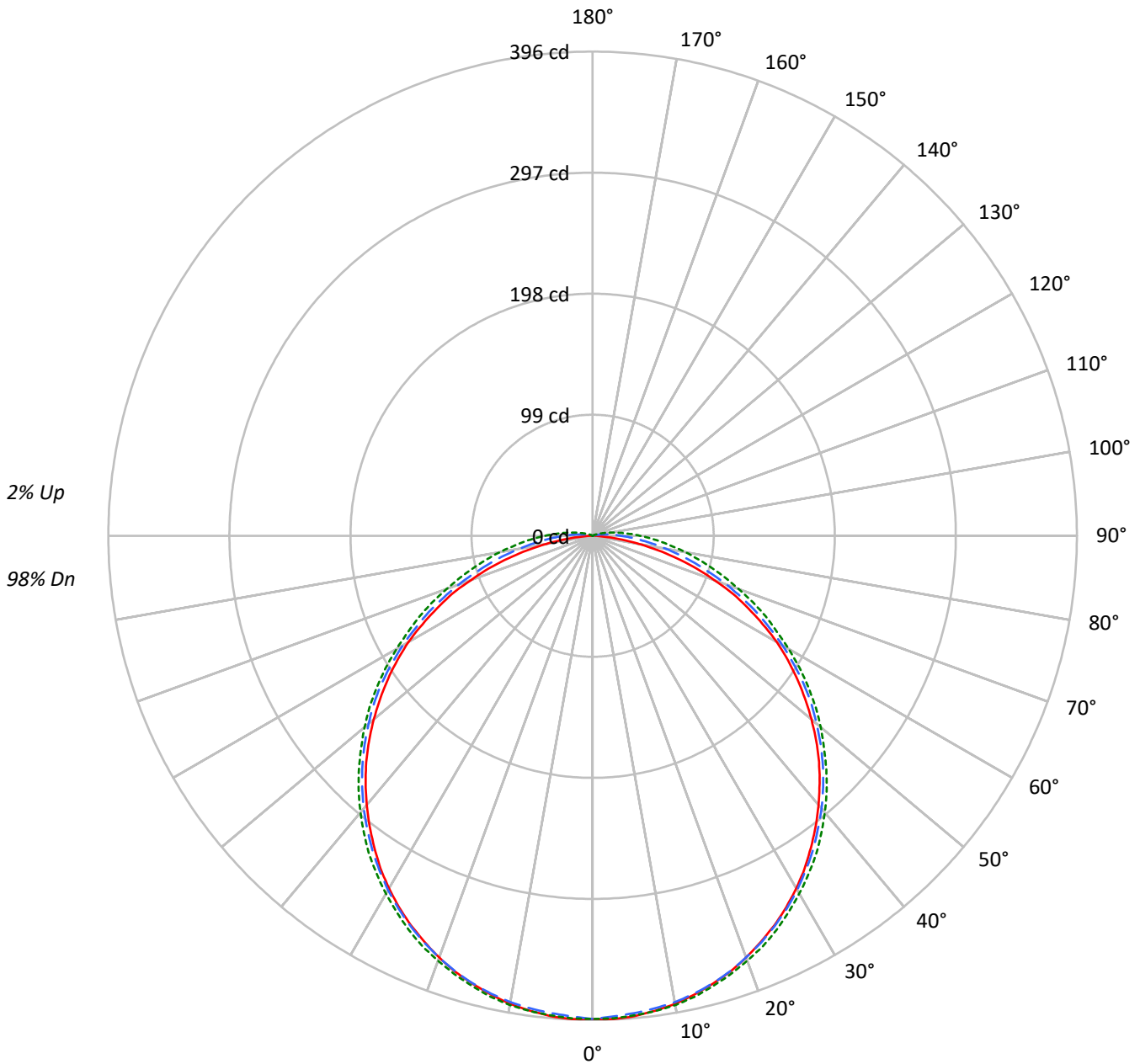
Lumens per Lamp: N/A
Luminaire Lumens: 1195.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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				20
RC	80				70				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°	12762	12762	12762
5°	12692	11905	11735
10°	12561	11188	10862
15°	12407	10512	10048
20°	12244	9862	9316
25°	12055	9246	8643
30°	11847	8647	7989
35°	11591	8054	7382
40°	11323	7472	6770
45°	11036	6886	6169
50°	10675	6279	5578
55°	10278	5662	4984
60°	9814	4976	4373
65°	9101	4273	3793
70°	8120	3533	3192
75°	6766	2796	2647
80°	4849	2112	2149
85°	2334	1481	1675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.4	3.1
10°-20°	107.3	9.0
20°-30°	162.8	13.6
30°-40°	196.8	16.5
40°-50°	205.4	17.2
50°-60°	187.8	15.7
60°-70°	146.4	12.2
70°-80°	91.6	7.7
80°-90°	41.6	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°	307.5	25.7
0°-40°	504.3	42.2
0°-60°	897.5	75.1
0°-90°	1177.0	98.5
90°-120°	18.0	1.5
90°-150°	18.0	1.5
90°-180°	18.0	1.5
0°-180°	1195.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	395	395	395	395	395	
5°	394	394	392	394	394	37
15°	379	380	379	381	381	107
25°	352	352	352	355	356	162
35°	311	313	314	317	318	195
45°	262	264	266	269	270	202
55°	204	207	211	214	215	183
65°	140	143	148	154	156	139
75°	71	76	86	97	100	76
85°	12	23	39	52	56	16
90°	0	8	23	35	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°	395.2	395.2	395.2	395.2	395.2
2.5°	395.7	395.1	393.4	395.1	395.0
5°	394.4	393.6	391.9	393.7	393.7
7.5°	391.8	391.5	389.9	392.1	392.1
10°	388.7	388.6	387.3	389.6	389.7
12.5°	384.4	384.8	383.6	385.8	386.1
15°	379.4	380.0	379.0	381.2	381.1
17.5°	373.9	374.3	373.5	375.9	375.9
20°	367.1	367.6	367.0	369.5	369.8
22.5°	359.5	360.2	360.1	362.7	363.5
25°	351.5	351.8	352.2	355.2	355.7
27.5°	342.7	343.2	343.8	346.5	347.1
30°	333.0	333.7	334.5	337.3	338.0
32.5°	322.7	323.5	324.4	328.1	328.4
35°	311.2	312.6	313.9	317.1	318.4
37.5°	299.6	301.4	302.6	306.0	307.0
40°	287.4	289.2	291.2	294.7	295.4
42.5°	274.7	276.7	279.0	282.2	283.3
45°	261.8	264.1	266.3	268.9	270.2
47.5°	247.9	250.3	252.9	255.8	256.7
50°	233.6	236.3	239.1	241.9	243.4
52.5°	218.9	222.1	225.3	228.3	229.7
55°	204.3	206.7	210.6	213.6	215.0
57.5°	189.2	191.3	194.7	199.8	200.5
60°	173.9	175.7	179.3	183.4	185.0
62.5°	156.9	159.4	163.1	168.4	169.9
65°	140.4	142.8	147.8	153.6	156.1
67.5°	124.5	125.3	131.7	137.8	141.7
70°	105.7	108.8	116.2	123.7	126.7
72.5°	89.4	92.6	100.7	109.6	113.3
75°	71.1	75.5	86.5	96.8	100.4
77.5°	55.0	59.8	73.4	83.9	88.0
80°	38.4	45.9	60.7	72.5	77.1
82.5°	24.1	33.4	49.3	61.6	65.6
85°	12.3	22.7	39.0	51.6	56.2
87.5°	3.3	14.7	30.4	42.4	47.1
90°	0.1	8.5	23.0	34.6	38.8
92.5°	0.1	4.8	17.1	27.5	31.8
95°	0.1	2.2	11.9	21.6	25.0
97.5°	0.1	0.9	8.2	16.3	19.7
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)