

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: P580458

Luminaire Tested: **HVSL4-1-LD4-2LO-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580458
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-50-UNV-O-EDD
Description: 1 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

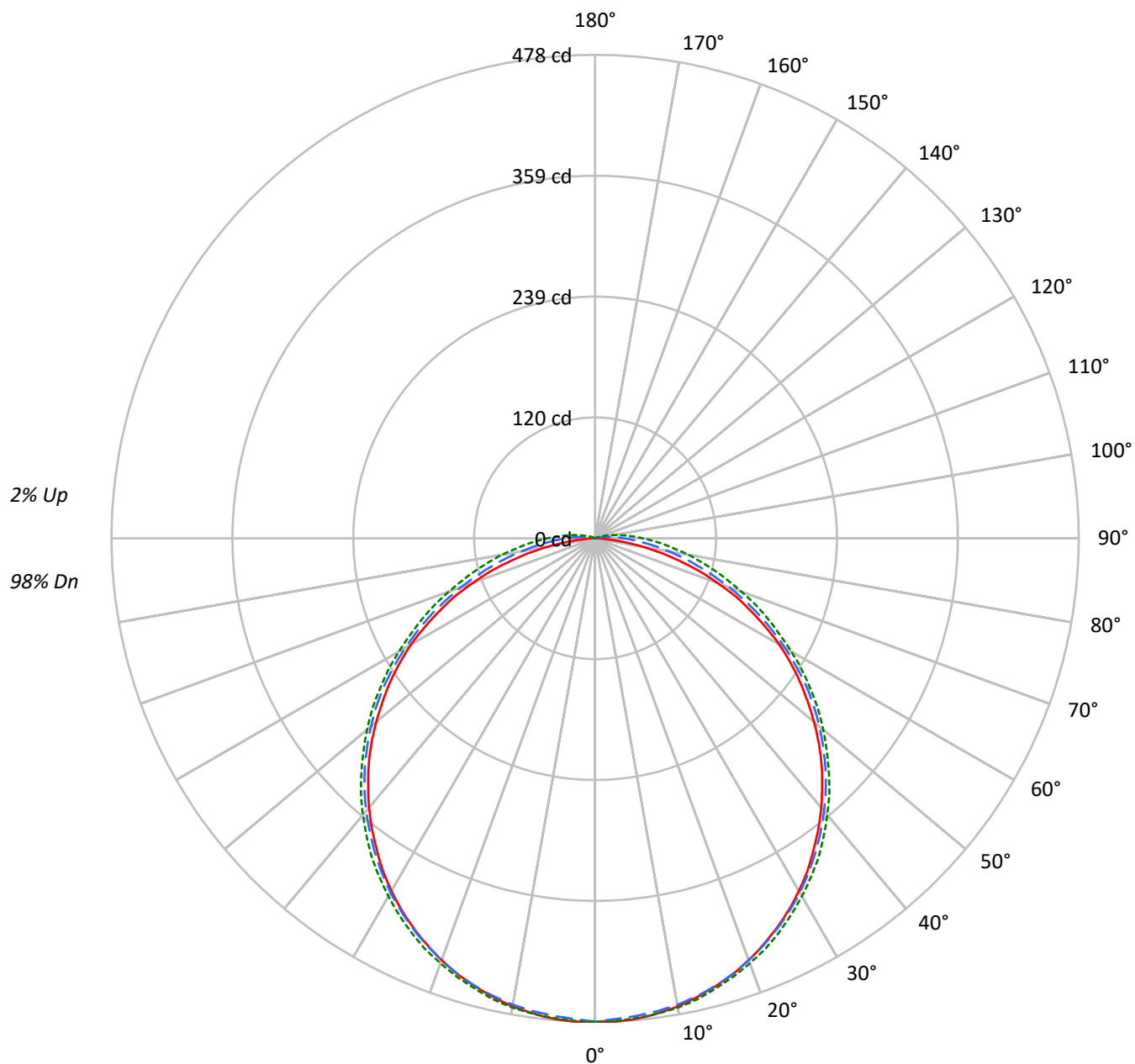
Lumens per Lamp: N/A
Luminaire Lumens: 1445.0 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.17')
CIE Type: Direct

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	50	30	10
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°	15432	15432	15432
5°	15237	14753	14786
10°	14971	14177	14202
15°	14682	13603	13585
20°	14382	13017	13001
25°	14054	12440	12427
30°	13697	11855	11825
35°	13284	11250	11241
40°	12855	10635	10604
45°	12392	9993	9946
50°	11836	9299	9264
55°	11236	8566	8539
60°	10534	7707	7742
65°	9558	6789	6957
70°	8276	5779	6093
75°	6615	4729	5289
80°	4435	3720	4518
85°	1900	2737	3746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	3.1
10°-20°	129.7	9.0
20°-30°	196.8	13.6
30°-40°	238.0	16.5
40°-50°	248.3	17.2
50°-60°	227.1	15.7
60°-70°	177.0	12.2
70°-80°	110.7	7.7
80°-90°	50.3	3.5
90°-100°	16.8	1.2
100°-110°	4.2	0.3
110°-120°	0.7	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°	371.8	25.7
0°-40°	609.8	42.2
0°-60°	1085.2	75.1
0°-90°	1423.3	98.5
90°-120°	21.7	1.5
90°-150°	21.7	1.5
90°-180°	22.0	1.5
0°-180°	1445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	477	476	474	476	476	45
15°	459	460	458	461	461	130
25°	425	425	426	430	430	196
35°	376	378	380	383	385	236
45°	317	319	322	325	327	244
55°	247	250	255	258	260	221
65°	170	173	179	186	189	168
75°	86	91	105	117	122	92
85°	15	28	47	62	68	19
90°	0	10	28	42	47	1
95°	0	3	14	26	30	0
105°	0	0	2	7	9	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°	477.9	477.9	477.9	477.9	477.9
2.5°	478.5	477.8	475.7	477.8	477.7
5°	476.9	476.0	473.9	476.1	476.1
7.5°	473.8	473.4	471.5	474.1	474.1
10°	470.0	469.9	468.3	471.2	471.3
12.5°	464.8	465.3	463.8	466.5	466.9
15°	458.8	459.6	458.3	460.9	460.8
17.5°	452.1	452.6	451.7	454.6	454.5
20°	443.9	444.5	443.8	446.8	447.2
22.5°	434.8	435.6	435.4	438.6	439.5
25°	425.1	425.4	425.9	429.5	430.1
27.5°	414.4	414.9	415.7	419.0	419.7
30°	402.7	403.6	404.5	407.8	408.7
32.5°	390.3	391.2	392.3	396.7	397.1
35°	376.3	378.0	379.6	383.4	385.0
37.5°	362.3	364.5	365.9	370.0	371.2
40°	347.6	349.7	352.1	356.4	357.1
42.5°	332.1	334.6	337.4	341.3	342.6
45°	316.6	319.4	322.0	325.1	326.7
47.5°	299.8	302.6	305.8	309.4	310.4
50°	282.4	285.7	289.1	292.5	294.3
52.5°	264.6	268.6	272.4	276.0	277.7
55°	247.1	250.0	254.6	258.3	260.0
57.5°	228.8	231.3	235.5	241.6	242.5
60°	210.2	212.5	216.8	221.7	223.7
62.5°	189.7	192.8	197.3	203.6	205.4
65°	169.8	172.7	178.7	185.8	188.7
67.5°	150.5	151.5	159.2	166.6	171.4
70°	127.8	131.6	140.5	149.6	153.2
72.5°	108.2	112.0	121.8	132.5	137.0
75°	86.0	91.3	104.6	117.1	121.5
77.5°	66.5	72.3	88.8	101.4	106.5
80°	46.4	55.5	73.5	87.7	93.2
82.5°	29.2	40.4	59.6	74.5	79.3
85°	14.9	27.5	47.2	62.4	67.9
87.5°	3.9	17.8	36.7	51.3	56.9
90°	0.1	10.3	27.8	41.8	46.9
92.5°	0.1	5.7	20.7	33.2	38.4
95°	0.1	2.7	14.4	26.1	30.2
97.5°	0.1	1.1	9.9	19.7	23.8
100°	0.1	0.6	6.3	14.3	17.8
102.5°	0.2	0.3	3.9	10.3	13.1
105°	0.2	0.3	2.4	7.0	9.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.5	1.9	2.8
115°	0.3	0.3	0.5	1.2	1.8
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	1.4	4.7	6.4
110°	0.3	0.3	0.8	2.9	4.3



(END OF REPORT)