

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: P580459

Luminaire Tested: **HVSL4-1-LD4-2STD-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580459
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-LD4-2STD-30-UNV-O-EDD-90
Description: 1 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

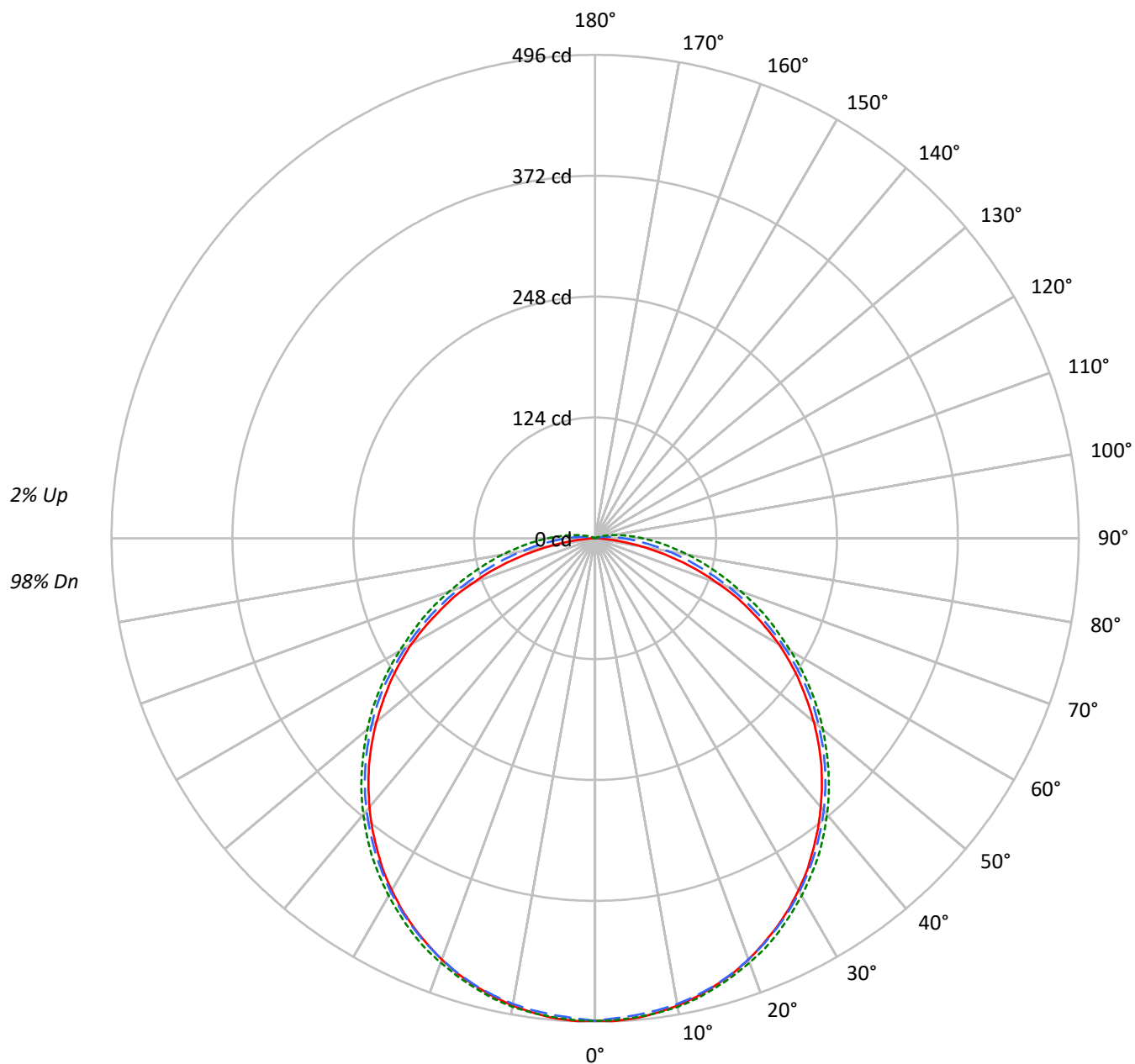
Lumens per Lamp: N/A
Luminaire Lumens: 1497.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.17')
CIE Type: Direct

Input Watts (W): 16.4
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

TEST NUMBER: P580459

CATALOG NUMBER: HVSL4-1-LD4-2STD-30-UNV-O-EDD-90

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°	15988	15988	15988
5°	15786	15282	15317
10°	15510	14688	14711
15°	15210	14093	14074
20°	14900	13486	13469
25°	14560	12887	12874
30°	14187	12280	12253
35°	13760	11653	11644
40°	13317	11015	10987
45°	12839	10353	10305
50°	12263	9633	9597
55°	11641	8875	8848
60°	10915	7985	8022
65°	9901	7032	7208
70°	8574	5985	6312
75°	6853	4896	5476
80°	4598	3852	4678
85°	1964	2836	3884



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	3.1
10°-20°	134.4	9.0
20°-30°	203.9	13.6
30°-40°	246.6	16.5
40°-50°	257.3	17.2
50°-60°	235.2	15.7
60°-70°	183.4	12.2
70°-80°	114.7	7.7
80°-90°	52.1	3.5
90°-100°	17.5	1.2
100°-110°	4.4	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°	385.2	25.7
0°-40°	631.8	42.2
0°-60°	1124.3	75.1
0°-90°	1474.5	98.5
90°-120°	22.6	1.5
90°-150°	22.6	1.5
90°-180°	23.0	1.5
0°-180°	1497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	495	495	495	495	495	
5°	494	493	491	493	493	47
15°	475	476	475	478	477	134
25°	440	441	441	445	446	203
35°	390	392	393	397	399	244
45°	328	331	334	337	338	253
55°	256	259	264	268	269	229
65°	176	179	185	192	196	174
75°	89	94	108	121	126	95
85°	15	28	49	65	70	19
90°	0	11	29	43	49	1
95°	0	3	15	27	31	0
105°	0	0	2	7	10	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°	495.1	495.1	495.1	495.1	495.1
2.5°	495.7	495.0	492.8	495.0	494.9
5°	494.1	493.1	490.9	493.2	493.2
7.5°	490.8	490.4	488.5	491.1	491.1
10°	486.9	486.8	485.2	488.1	488.2
12.5°	481.6	482.0	480.5	483.3	483.7
15°	475.3	476.1	474.8	477.5	477.4
17.5°	468.4	468.9	467.9	471.0	470.8
20°	459.9	460.5	459.8	462.9	463.3
22.5°	450.4	451.2	451.1	454.4	455.3
25°	440.4	440.7	441.2	444.9	445.6
27.5°	429.3	429.9	430.7	434.1	434.8
30°	417.1	418.1	419.0	422.5	423.5
32.5°	404.3	405.2	406.4	411.0	411.4
35°	389.8	391.6	393.2	397.2	398.8
37.5°	375.4	377.6	379.1	383.3	384.6
40°	360.1	362.3	364.7	369.2	370.0
42.5°	344.1	346.7	349.6	353.5	354.9
45°	328.0	330.9	333.6	336.8	338.5
47.5°	310.6	313.5	316.8	320.5	321.6
50°	292.6	296.0	299.5	303.0	304.9
52.5°	274.2	278.3	282.2	286.0	287.7
55°	256.0	259.0	263.8	267.6	269.4
57.5°	237.1	239.6	243.9	250.2	251.2
60°	217.8	220.1	224.6	229.7	231.8
62.5°	196.6	199.7	204.4	210.9	212.8
65°	175.9	178.9	185.1	192.5	195.5
67.5°	155.9	157.0	164.9	172.6	177.5
70°	132.4	136.3	145.5	155.0	158.7
72.5°	112.0	116.0	126.2	137.3	141.9
75°	89.1	94.5	108.3	121.3	125.8
77.5°	68.9	74.9	92.0	105.0	110.3
80°	48.1	57.5	76.1	90.8	96.5
82.5°	30.2	41.9	61.7	77.2	82.2
85°	15.4	28.5	48.9	64.7	70.4
87.5°	4.1	18.4	38.1	53.1	58.9
90°	0.1	10.6	28.8	43.3	48.6
92.5°	0.1	6.0	21.5	34.4	39.8
95°	0.1	2.8	14.9	27.1	31.3
97.5°	0.1	1.2	10.3	20.4	24.6
100°	0.1	0.6	6.5	14.8	18.4
102.5°	0.2	0.4	4.1	10.6	13.5
105°	0.2	0.4	2.5	7.2	9.7



TEST NUMBER: P580459

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	0.5	2.0	2.9
115°	0.4	0.4	0.5	1.3	1.9
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°	0.2	0.4	1.4	4.9	6.7
110°	0.4	0.4	0.8	3.0	4.4



(END OF REPORT)