

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: P580523

Luminaire Tested: **HVSL4-3-LD4-1LO-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580523
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: HVSL4-3-LD4-1LO-30-UNV-O-EDD-90
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

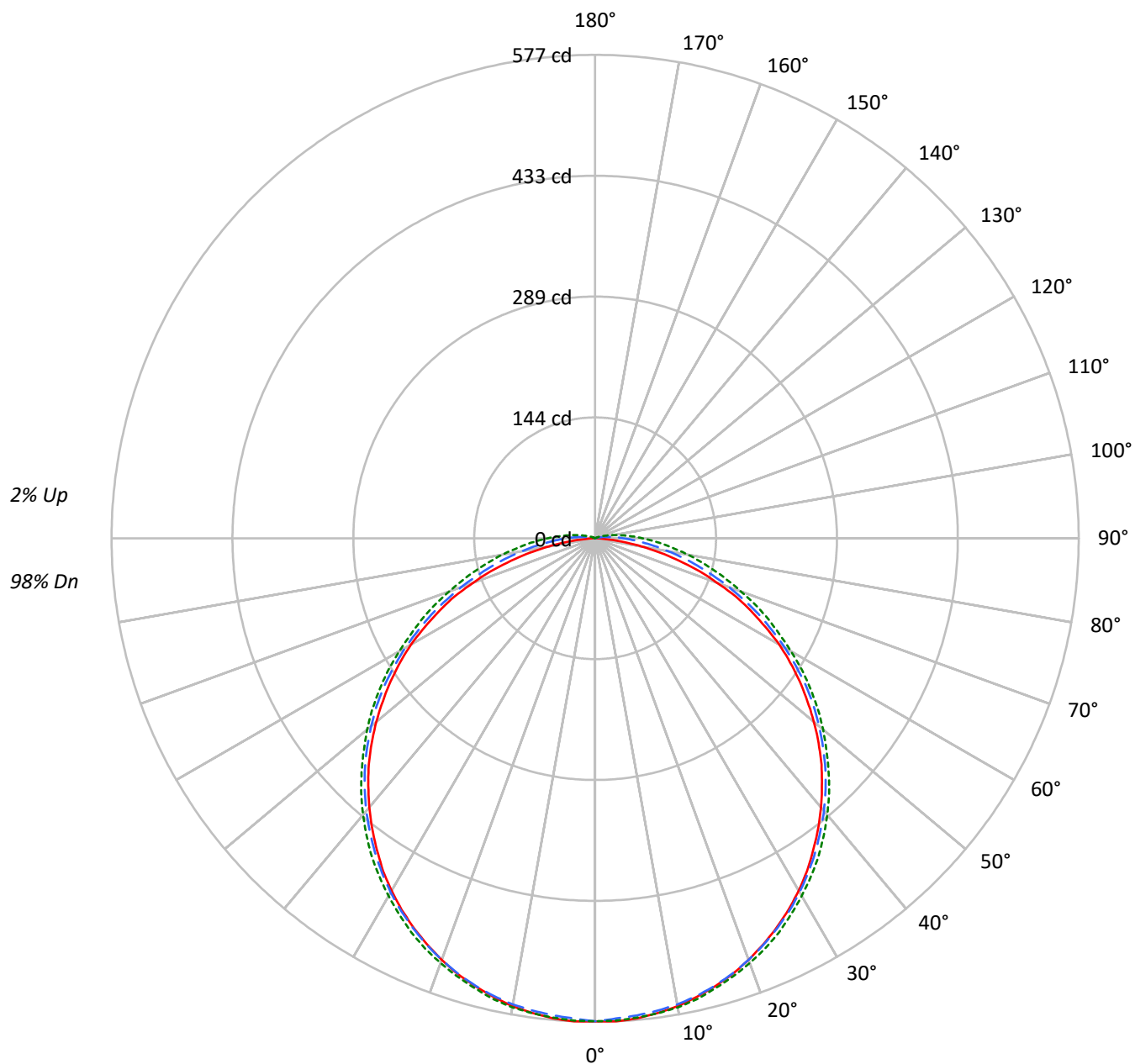
Lumens per Lamp: N/A
Luminaire Lumens: 1743.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 17.3
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°	6205	6205	6205
5°	6186	5971	5945
10°	6137	5774	5710
15°	6076	5573	5462
20°	6011	5365	5227
25°	5935	5156	4997
30°	5849	4943	4755
35°	5741	4718	4520
40°	5628	4488	4264
45°	5507	4245	3999
50°	5351	3977	3725
55°	5181	3692	3434
60°	4980	3350	3113
65°	4661	2979	2797
70°	4207	2565	2450
75°	3572	2126	2126
80°	2639	1701	1816
85°	1352	1280	1506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	3.1
10°-20°	156.5	9.0
20°-30°	237.4	13.6
30°-40°	287.1	16.5
40°-50°	299.6	17.2
50°-60°	273.9	15.7
60°-70°	213.5	12.2
70°-80°	133.6	7.7
80°-90°	60.7	3.5
90°-100°	20.3	1.2
100°-110°	5.1	0.3
110°-120°	0.8	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°	448.5	25.7
0°-40°	735.6	42.2
0°-60°	1309.0	75.1
0°-90°	1716.8	98.5
90°-120°	26.2	1.5
90°-150°	26.2	1.5
90°-180°	26.0	1.5
0°-180°	1743.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	575	574	572	574	574	55
15°	553	554	553	556	556	156
25°	513	513	514	518	519	236
35°	454	456	458	462	464	284
45°	382	385	388	392	394	294
55°	298	302	307	312	314	266
65°	205	208	216	224	228	203
75°	104	110	126	141	146	111
85°	18	33	57	75	82	23
90°	0	12	34	50	56	1
95°	0	3	17	32	36	0
105°	0	0	3	8	11	0
115°	0	0	0	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	576.5	576.5	576.5	576.5	576.5
2.5°	577.2	576.3	573.8	576.3	576.2
5°	575.3	574.2	571.6	574.3	574.3
7.5°	571.5	571.0	568.7	571.9	571.9
10°	567.0	566.8	564.9	568.3	568.5
12.5°	560.7	561.3	559.5	562.8	563.2
15°	553.4	554.3	552.8	556.0	555.8
17.5°	545.4	545.9	544.8	548.3	548.2
20°	535.4	536.1	535.3	539.0	539.4
22.5°	524.4	525.4	525.2	529.1	530.1
25°	512.7	513.2	513.7	518.0	518.9
27.5°	499.8	500.5	501.5	505.4	506.2
30°	485.7	486.8	487.9	492.0	493.0
32.5°	470.8	471.8	473.2	478.5	479.0
35°	453.9	455.9	457.8	462.5	464.4
37.5°	437.0	439.6	441.4	446.3	447.8
40°	419.2	421.8	424.7	429.8	430.8
42.5°	400.6	403.6	407.0	411.6	413.3
45°	381.9	385.3	388.4	392.2	394.1
47.5°	361.6	365.0	368.8	373.2	374.4
50°	340.7	344.6	348.7	352.8	355.0
52.5°	319.2	324.0	328.6	332.9	335.0
55°	298.0	301.6	307.1	311.6	313.7
57.5°	276.0	279.0	284.0	291.4	292.5
60°	253.6	256.3	261.5	267.4	269.9
62.5°	228.9	232.5	238.0	245.6	247.7
65°	204.8	208.3	215.5	224.1	227.6
67.5°	181.6	182.8	192.0	201.0	206.7
70°	154.1	158.7	169.5	180.5	184.8
72.5°	130.5	135.1	146.9	159.8	165.3
75°	103.7	110.1	126.1	141.2	146.5
77.5°	80.2	87.2	107.1	122.3	128.4
80°	56.0	67.0	88.6	105.7	112.4
82.5°	35.2	48.8	71.9	89.8	95.7
85°	17.9	33.2	56.9	75.3	81.9
87.5°	4.8	21.5	44.3	61.8	68.6
90°	0.1	12.4	33.6	50.4	56.5
92.5°	0.1	6.9	25.0	40.1	46.3
95°	0.1	3.3	17.4	31.5	36.4
97.5°	0.1	1.4	12.0	23.8	28.7
100°	0.1	0.7	7.6	17.3	21.5
102.5°	0.3	0.4	4.8	12.4	15.8
105°	0.3	0.4	2.9	8.4	11.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	0.5	2.3	3.4
115°	0.4	0.4	0.5	1.5	2.2
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	0.4	1.6	5.7	7.7
110°	0.4	0.4	1.0	3.5	5.2



(END OF REPORT)