

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: P580484

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580484
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: HVSL4-2-LD4-1STD-30-UNV-O-EDD
Description: 2 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

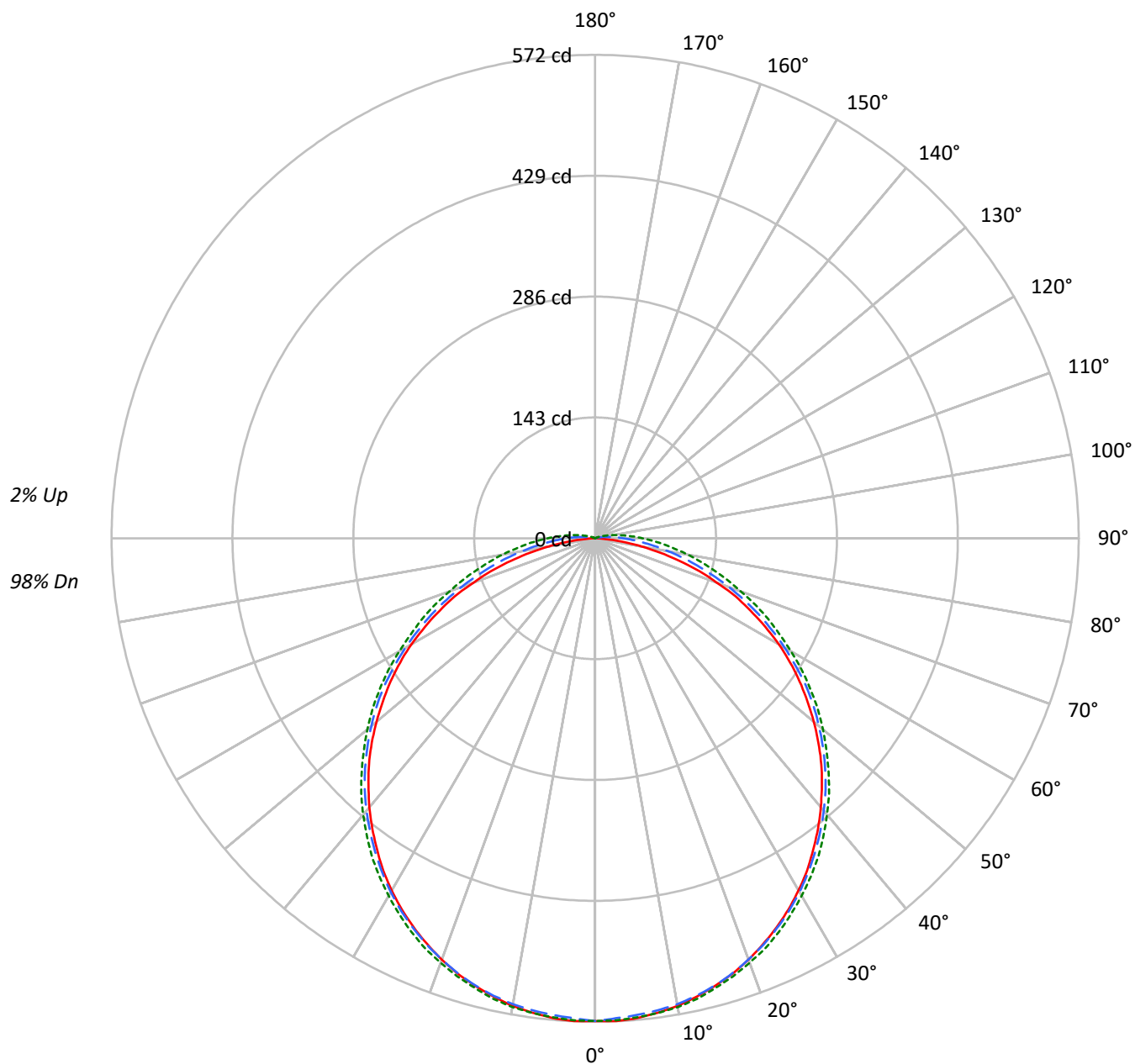
Lumens per Lamp: N/A
Luminaire Lumens: 1727.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.17')
CIE Type: Direct

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

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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°	9223	9223	9223
5°	9171	8859	8836
10°	9077	8554	8485
15°	8965	8245	8117
20°	8847	7924	7768
25°	8711	7605	7427
30°	8559	7279	7067
35°	8375	6937	6717
40°	8183	6588	6337
45°	7976	6220	5944
50°	7714	5818	5535
55°	7428	5390	5104
60°	7091	4880	4627
65°	6576	4330	4157
70°	5865	3715	3641
75°	4887	3070	3160
80°	3504	2444	2700
85°	1689	1828	2240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	3.1
10°-20°	155.0	9.0
20°-30°	235.3	13.6
30°-40°	284.5	16.5
40°-50°	296.8	17.2
50°-60°	271.4	15.7
60°-70°	211.6	12.2
70°-80°	132.3	7.7
80°-90°	60.1	3.5
90°-100°	20.1	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°	444.4	25.7
0°-40°	728.8	42.2
0°-60°	1297.0	75.1
0°-90°	1701.0	98.5
90°-120°	26.0	1.5
90°-150°	26.0	1.5
90°-180°	26.0	1.5
0°-180°	1727.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	571	571	571	571	571	
5°	570	569	566	569	569	54
15°	548	549	548	551	551	155
25°	508	508	509	513	514	234
35°	450	452	454	458	460	281
45°	378	382	385	389	390	292
55°	295	299	304	309	311	264
65°	203	206	214	222	226	201
75°	103	109	125	140	145	110
85°	18	33	56	75	81	23
90°	0	12	33	50	56	1
95°	0	3	17	31	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°	571.2	571.2	571.2	571.2	571.2
2.5°	571.9	571.1	568.5	571.1	570.9
5°	570.0	568.9	566.3	569.0	569.0
7.5°	566.2	565.8	563.5	566.6	566.6
10°	561.8	561.6	559.7	563.1	563.2
12.5°	555.6	556.1	554.4	557.6	558.0
15°	548.3	549.2	547.8	550.9	550.7
17.5°	540.4	540.9	539.8	543.3	543.2
20°	530.5	531.2	530.4	534.0	534.4
22.5°	519.6	520.6	520.4	524.2	525.3
25°	508.0	508.4	509.0	513.3	514.1
27.5°	495.2	495.9	496.9	500.8	501.6
30°	481.2	482.3	483.4	487.4	488.5
32.5°	466.4	467.5	468.9	474.1	474.6
35°	449.7	451.8	453.6	458.2	460.1
37.5°	433.0	435.6	437.3	442.2	443.7
40°	415.4	418.0	420.8	425.9	426.8
42.5°	396.9	399.9	403.3	407.9	409.5
45°	378.4	381.7	384.8	388.6	390.5
47.5°	358.3	361.7	365.4	369.8	371.0
50°	337.6	341.5	345.5	349.6	351.7
52.5°	316.3	321.0	325.6	329.9	331.9
55°	295.3	298.8	304.3	308.8	310.8
57.5°	273.5	276.4	281.4	288.7	289.8
60°	251.3	254.0	259.1	265.0	267.4
62.5°	226.8	230.4	235.8	243.3	245.5
65°	202.9	206.4	213.6	222.0	225.5
67.5°	179.9	181.1	190.3	199.1	204.8
70°	152.7	157.3	167.9	178.8	183.1
72.5°	129.3	133.8	145.6	158.3	163.7
75°	102.7	109.1	125.0	139.9	145.2
77.5°	79.4	86.4	106.1	121.2	127.2
80°	55.5	66.4	87.8	104.8	111.4
82.5°	34.9	48.3	71.2	89.0	94.8
85°	17.8	32.9	56.4	74.6	81.2
87.5°	4.7	21.3	43.9	61.3	68.0
90°	0.1	12.3	33.3	50.0	56.0
92.5°	0.1	6.9	24.8	39.7	45.9
95°	0.1	3.2	17.2	31.2	36.1
97.5°	0.1	1.3	11.8	23.6	28.4
100°	0.1	0.7	7.5	17.1	21.3
102.5°	0.3	0.4	4.7	12.3	15.6
105°	0.3	0.4	2.8	8.3	11.2



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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	0.9	3.5	5.1



(END OF REPORT)