

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: P580466

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580466
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-50-UNV-O-EDD
Description: 1 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

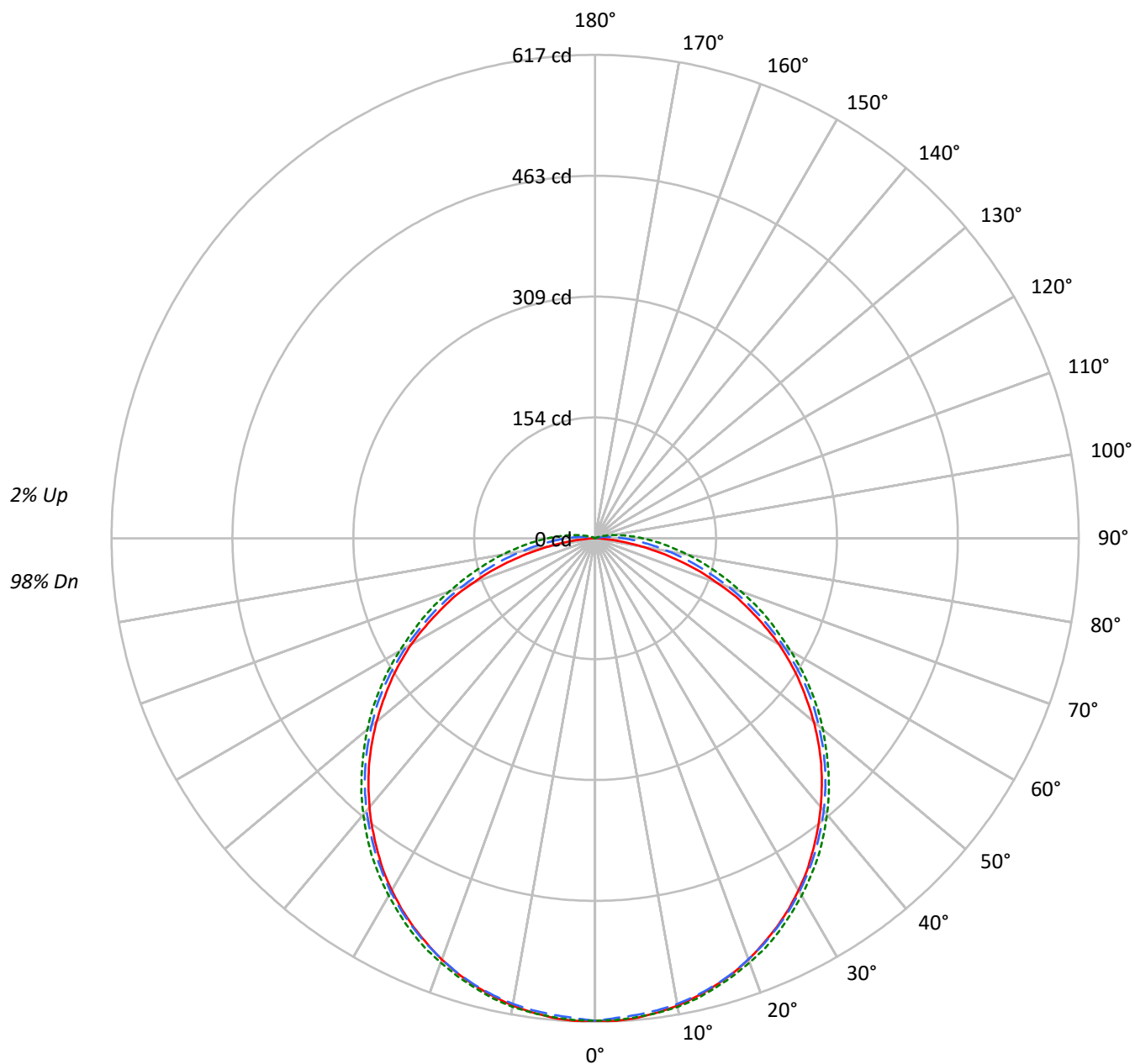
Lumens per Lamp: N/A
Luminaire Lumens: 1862.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.17')
CIE Type: Direct

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

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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°	19885	19885	19885
5°	19633	19009	19053
10°	19294	18270	18300
15°	18919	17530	17505
20°	18532	16771	16751
25°	18107	16029	16015
30°	17650	15276	15239
35°	17117	14495	14485
40°	16564	13704	13665
45°	15966	12876	12816
50°	15256	11981	11936
55°	14479	11039	11005
60°	13576	9929	9977
65°	12316	8746	8966
70°	10659	7445	7851
75°	8522	6090	6812
80°	5716	4793	5822
85°	2448	3526	4827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	3.1
10°-20°	167.2	9.0
20°-30°	253.6	13.6
30°-40°	306.7	16.5
40°-50°	320.0	17.2
50°-60°	292.6	15.7
60°-70°	228.1	12.2
70°-80°	142.7	7.7
80°-90°	64.8	3.5
90°-100°	21.7	1.2
100°-110°	5.4	0.3
110°-120°	0.9	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°	479.1	25.7
0°-40°	785.8	42.2
0°-60°	1398.4	75.1
0°-90°	1834.0	98.5
90°-120°	28.0	1.5
90°-150°	28.0	1.5
90°-180°	28.0	1.5
0°-180°	1862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	616	616	616	616	616	
5°	614	613	611	614	614	58
15°	591	592	591	594	594	167
25°	548	548	549	553	554	252
35°	485	487	489	494	496	304
45°	408	412	415	419	421	314
55°	318	322	328	333	335	284
65°	219	223	230	239	243	216
75°	111	118	135	151	156	118
85°	19	35	61	80	88	24
90°	0	13	36	54	60	1
95°	0	4	19	34	39	0
105°	0	0	3	9	12	0
115°	0	0	1	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°	615.8	615.8	615.8	615.8	615.8
2.5°	616.6	615.7	612.9	615.7	615.5
5°	614.5	613.4	610.6	613.5	613.5
7.5°	610.5	610.0	607.6	610.9	610.9
10°	605.7	605.5	603.5	607.1	607.3
12.5°	599.0	599.6	597.7	601.2	601.6
15°	591.2	592.2	590.6	593.9	593.8
17.5°	582.6	583.2	582.0	585.8	585.6
20°	572.0	572.7	571.8	575.8	576.2
22.5°	560.2	561.3	561.1	565.2	566.3
25°	547.7	548.2	548.8	553.4	554.3
27.5°	534.0	534.7	535.7	539.9	540.8
30°	518.9	520.0	521.2	525.5	526.7
32.5°	502.9	504.1	505.5	511.2	511.7
35°	484.9	487.1	489.1	494.0	496.1
37.5°	466.9	469.6	471.5	476.8	478.4
40°	447.9	450.6	453.7	459.2	460.2
42.5°	428.0	431.2	434.8	439.7	441.5
45°	407.9	411.6	414.9	419.0	421.0
47.5°	386.3	389.9	394.0	398.7	400.0
50°	364.0	368.2	372.5	376.9	379.2
52.5°	341.0	346.1	351.0	355.7	357.9
55°	318.4	322.1	328.1	332.9	335.1
57.5°	294.9	298.0	303.4	311.3	312.4
60°	270.9	273.8	279.3	285.7	288.3
62.5°	244.5	248.4	254.2	262.3	264.7
65°	218.8	222.6	230.2	239.4	243.2
67.5°	194.0	195.3	205.1	214.7	220.8
70°	164.6	169.6	181.0	192.8	197.4
72.5°	139.4	144.3	156.9	170.7	176.5
75°	110.8	117.6	134.7	150.8	156.5
77.5°	85.7	93.2	114.4	130.7	137.2
80°	59.8	71.6	94.7	112.9	120.1
82.5°	37.6	52.1	76.8	96.0	102.2
85°	19.2	35.4	60.8	80.4	87.5
87.5°	5.1	22.9	47.3	66.1	73.3
90°	0.1	13.2	35.9	53.9	60.4
92.5°	0.1	7.4	26.7	42.8	49.5
95°	0.1	3.5	18.6	33.7	38.9
97.5°	0.1	1.5	12.8	25.4	30.6
100°	0.1	0.7	8.1	18.4	22.9
102.5°	0.3	0.4	5.1	13.2	16.8
105°	0.3	0.4	3.0	9.0	12.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	0.6	2.5	3.6
115°	0.4	0.4	0.6	1.6	2.3
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	1.7	6.1	8.3
110°	0.4	0.4	1.0	3.8	5.5



(END OF REPORT)