

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: P580474

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580474
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-LD4-1HI-50-UNV-O-EDD
Description: 2 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

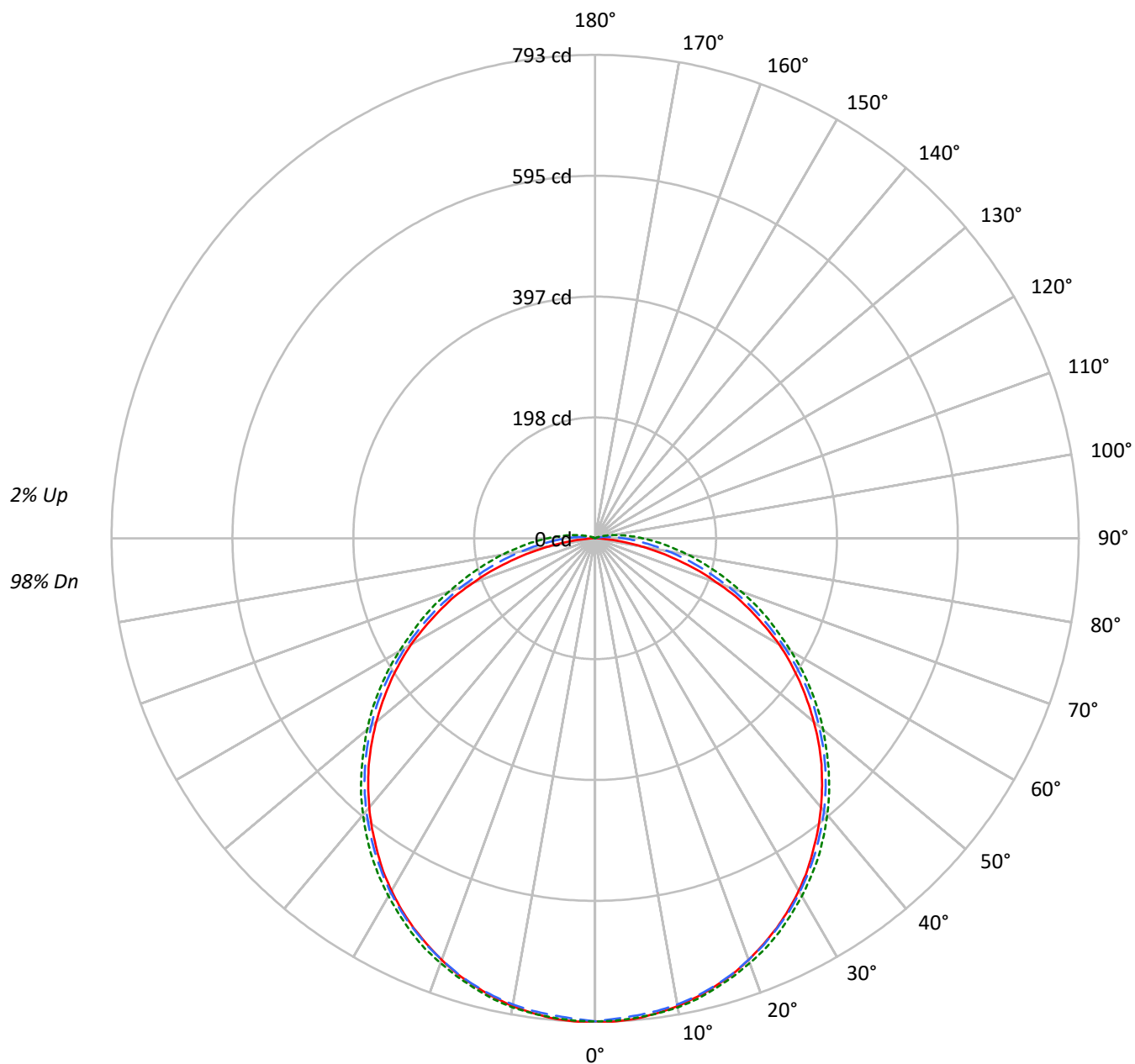
Lumens per Lamp: N/A
Luminaire Lumens: 2396.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 21.6
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°	12796	12796	12796
5°	12724	12291	12259
10°	12593	11869	11773
15°	12438	11438	11263
20°	12274	10992	10779
25°	12086	10550	10303
30°	11877	10099	9805
35°	11619	9625	9318
40°	11353	9140	8792
45°	11063	8630	8247
50°	10700	8073	7680
55°	10306	7478	7081
60°	9837	6769	6420
65°	9124	6006	5768
70°	8135	5156	5053
75°	6780	4259	4383
80°	4861	3391	3745
85°	2343	2538	3106



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	3.1
10°-20°	215.1	9.0
20°-30°	326.4	13.6
30°-40°	394.7	16.5
40°-50°	411.8	17.2
50°-60°	376.5	15.7
60°-70°	293.5	12.2
70°-80°	183.6	7.7
80°-90°	83.4	3.5
90°-100°	27.9	1.2
100°-110°	7.0	0.3
110°-120°	1.1	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°	616.5	25.7
0°-40°	1011.1	42.2
0°-60°	1799.4	75.1
0°-90°	2359.9	98.5
90°-120°	36.1	1.5
90°-150°	36.1	1.5
90°-180°	36.0	1.5
0°-180°	2396.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	792	792	792	792	792	
5°	791	789	786	790	790	75
15°	761	762	760	764	764	215
25°	705	705	706	712	713	325
35°	624	627	629	636	638	391
45°	525	530	534	539	542	404
55°	410	414	422	428	431	366
65°	282	286	296	308	313	279
75°	142	151	173	194	201	152
85°	25	46	78	104	113	31
90°	0	17	46	69	78	1
95°	0	4	24	43	50	0
105°	0	1	4	12	16	0
115°	1	1	1	2	3	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°	792.5	792.5	792.5	792.5	792.5
2.5°	793.4	792.3	788.7	792.3	792.1
5°	790.8	789.3	785.7	789.5	789.5
7.5°	785.5	785.0	781.8	786.1	786.1
10°	779.4	779.2	776.6	781.2	781.4
12.5°	770.8	771.5	769.1	773.6	774.1
15°	760.7	762.0	759.9	764.2	764.1
17.5°	749.7	750.4	748.9	753.8	753.6
20°	736.0	737.0	735.8	740.9	741.5
22.5°	720.9	722.2	722.0	727.3	728.7
25°	704.8	705.4	706.1	712.1	713.2
27.5°	687.1	688.0	689.3	694.7	695.9
30°	667.7	669.2	670.7	676.3	677.8
32.5°	647.1	648.6	650.5	657.8	658.5
35°	623.9	626.8	629.4	635.7	638.3
37.5°	600.8	604.3	606.8	613.5	615.5
40°	576.3	579.9	583.8	590.9	592.2
42.5°	550.7	554.8	559.5	565.9	568.1
45°	524.9	529.6	533.9	539.1	541.8
47.5°	497.1	501.8	507.0	513.0	514.7
50°	468.3	473.8	479.4	485.0	488.0
52.5°	438.8	445.4	451.7	457.7	460.5
55°	409.7	414.5	422.2	428.4	431.2
57.5°	379.4	383.5	390.4	400.5	402.0
60°	348.6	352.3	359.4	367.6	371.0
62.5°	314.6	319.6	327.1	337.6	340.6
65°	281.5	286.4	296.3	308.1	312.9
67.5°	249.6	251.3	264.0	276.3	284.1
70°	211.8	218.2	233.0	248.1	254.1
72.5°	179.3	185.7	201.9	219.7	227.2
75°	142.5	151.3	173.4	194.1	201.4
77.5°	110.2	119.9	147.2	168.1	176.5
80°	77.0	92.1	121.8	145.3	154.5
82.5°	48.4	67.1	98.8	123.5	131.5
85°	24.7	45.6	78.3	103.5	112.6
87.5°	6.5	29.5	60.9	85.0	94.3
90°	0.2	17.0	46.1	69.3	77.7
92.5°	0.2	9.5	34.4	55.1	63.7
95°	0.2	4.5	23.9	43.3	50.1
97.5°	0.2	1.9	16.4	32.7	39.4
100°	0.2	0.9	10.5	23.7	29.5
102.5°	0.4	0.6	6.5	17.0	21.7
105°	0.4	0.6	3.9	11.6	15.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.7	3.2	4.7
115°	0.6	0.6	0.7	2.1	3.0
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°	0.4	0.6	2.2	7.8	10.6
110°	0.6	0.6	1.3	4.9	7.1



(END OF REPORT)