

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: P580462

Luminaire Tested: **HVSL4-1-LD4-2STD-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580462
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-35-UNV-O-EDD
Description: 1 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

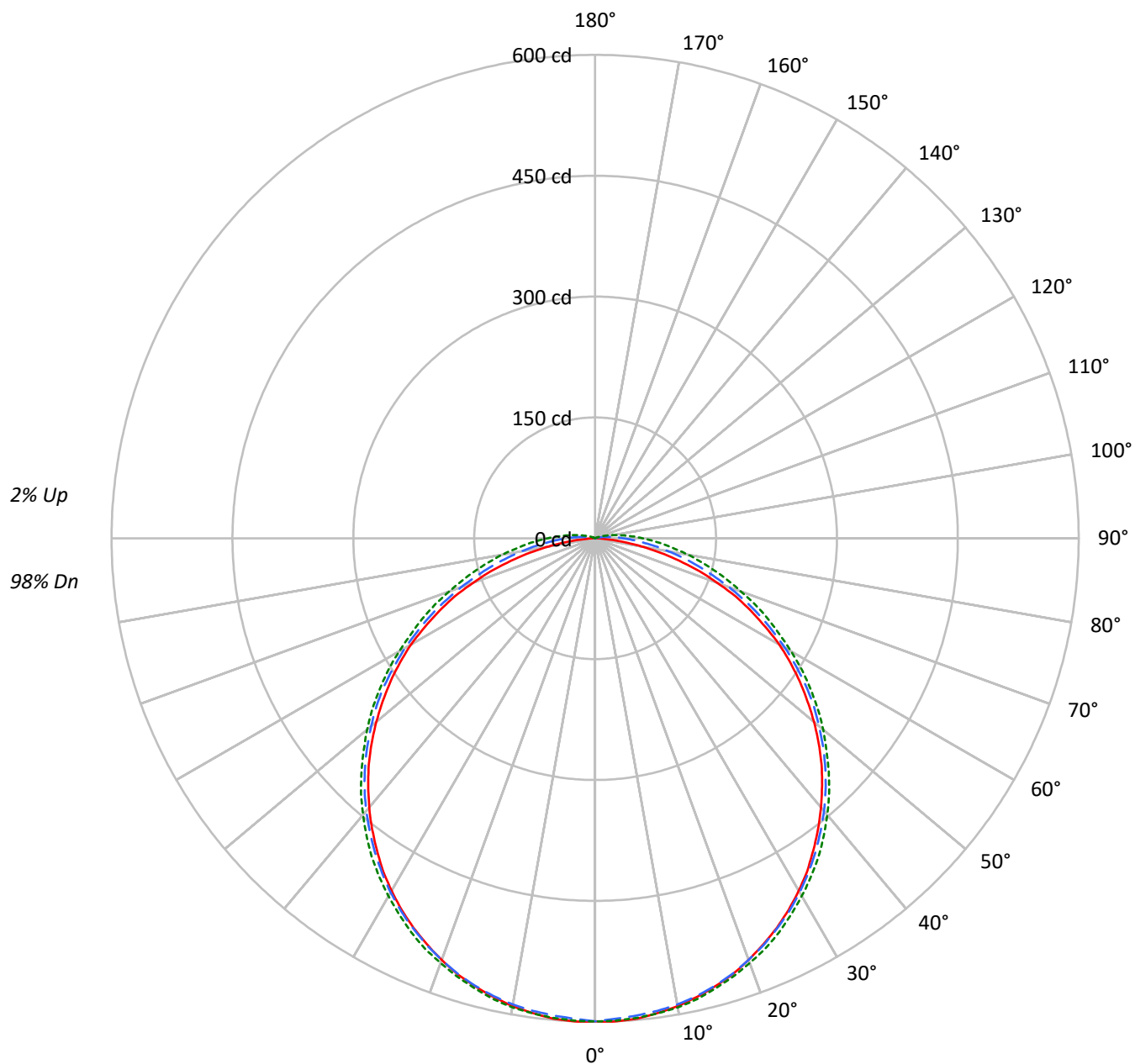
Lumens per Lamp: N/A
Luminaire Lumens: 1813.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.17')
CIE Type: Direct

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°	19362	19362	19362
5°	19118	18507	18553
10°	18784	17788	17817
15°	18420	17067	17043
20°	18043	16331	16310
25°	17631	15606	15593
30°	17184	14874	14837
35°	16665	14113	14102
40°	16127	13341	13306
45°	15547	12538	12479
50°	14853	11666	11621
55°	14097	10749	10713
60°	13220	9670	9714
65°	11989	8518	8730
70°	10380	7251	7644
75°	8299	5932	6634
80°	5563	4667	5667
85°	2385	3433	4700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	3.1
10°-20°	162.8	9.0
20°-30°	247.0	13.6
30°-40°	298.6	16.5
40°-50°	311.6	17.2
50°-60°	284.9	15.7
60°-70°	222.1	12.2
70°-80°	138.9	7.7
80°-90°	63.1	3.5
90°-100°	21.1	1.2
100°-110°	5.3	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°	466.5	25.7
0°-40°	765.1	42.2
0°-60°	1361.6	75.1
0°-90°	1785.7	98.5
90°-120°	27.3	1.5
90°-150°	27.3	1.5
90°-180°	27.0	1.5
0°-180°	1813.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	600	600	600	600	600	
5°	598	597	594	597	597	57
15°	576	577	575	578	578	162
25°	533	534	534	539	540	246
35°	472	474	476	481	483	296
45°	397	401	404	408	410	306
55°	310	314	320	324	326	277
65°	213	217	224	233	237	211
75°	108	114	131	147	152	115
85°	19	34	59	78	85	24
90°	0	13	35	52	59	1
95°	0	3	18	33	38	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°	599.6	599.6	599.6	599.6	599.6
2.5°	600.3	599.5	596.8	599.5	599.3
5°	598.4	597.2	594.5	597.4	597.4
7.5°	594.4	594.0	591.6	594.8	594.8
10°	589.7	589.6	587.6	591.1	591.3
12.5°	583.2	583.8	582.0	585.4	585.8
15°	575.6	576.6	575.0	578.3	578.1
17.5°	567.3	567.8	566.7	570.4	570.2
20°	556.9	557.6	556.8	560.6	561.0
22.5°	545.5	546.5	546.3	550.3	551.4
25°	533.3	533.8	534.3	538.8	539.7
27.5°	519.9	520.6	521.6	525.7	526.5
30°	505.2	506.3	507.5	511.7	512.8
32.5°	489.7	490.8	492.2	497.7	498.3
35°	472.1	474.2	476.2	481.0	483.0
37.5°	454.6	457.3	459.1	464.2	465.8
40°	436.1	438.8	441.7	447.1	448.1
42.5°	416.7	419.8	423.4	428.2	429.9
45°	397.2	400.7	404.0	408.0	409.9
47.5°	376.1	379.7	383.6	388.2	389.4
50°	354.4	358.5	362.7	367.0	369.2
52.5°	332.0	337.0	341.8	346.3	348.4
55°	310.0	313.7	319.5	324.1	326.2
57.5°	287.1	290.2	295.4	303.1	304.2
60°	263.8	266.6	272.0	278.2	280.7
62.5°	238.0	241.9	247.5	255.4	257.7
65°	213.0	216.7	224.2	233.1	236.8
67.5°	188.9	190.1	199.7	209.1	215.0
70°	160.3	165.1	176.3	187.7	192.2
72.5°	135.7	140.5	152.8	166.2	171.9
75°	107.9	114.5	131.2	146.9	152.4
77.5°	83.4	90.8	111.4	127.2	133.6
80°	58.2	69.7	92.2	110.0	116.9
82.5°	36.6	50.7	74.8	93.4	99.5
85°	18.7	34.5	59.2	78.3	85.2
87.5°	4.9	22.3	46.1	64.3	71.4
90°	0.1	12.9	34.9	52.4	58.8
92.5°	0.1	7.2	26.0	41.7	48.2
95°	0.1	3.4	18.1	32.8	37.9
97.5°	0.1	1.4	12.4	24.7	29.8
100°	0.1	0.7	7.9	18.0	22.3
102.5°	0.3	0.4	4.9	12.9	16.4
105°	0.3	0.4	3.0	8.8	11.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	0.6	2.4	3.5
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	5.9	8.1
110°	0.4	0.4	1.0	3.7	5.4



(END OF REPORT)