

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: P580148

Luminaire Tested: **HVSL12-2-LD4-2STD-30-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580148  
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: HVSL12-2-LD4-2STD-30-UNV-O-EDD  
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

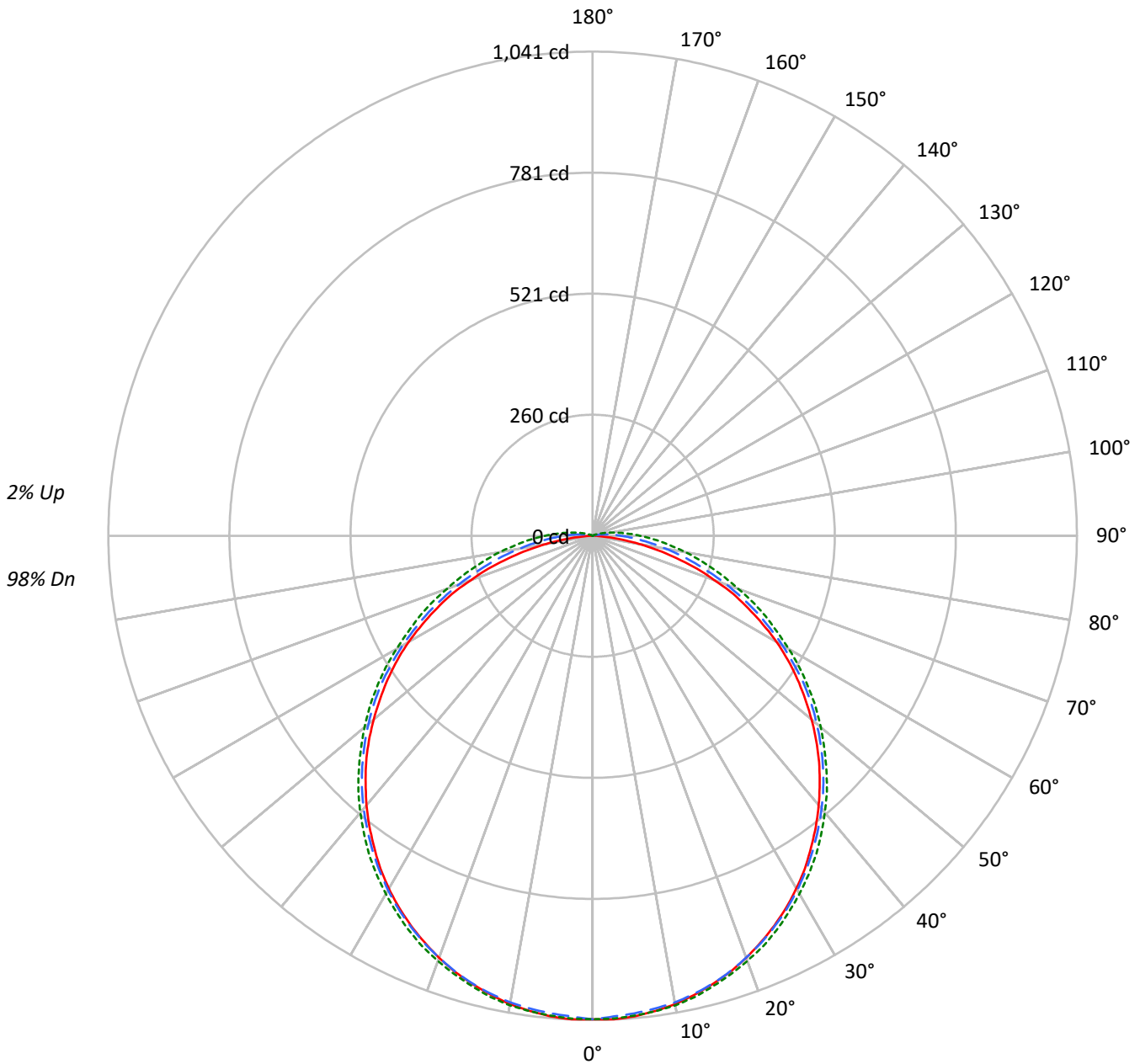
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3143.0 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 34.6  
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
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°	5595	5595	5595
5°	5563	5484	5514
10°	5506	5399	5442
15°	5439	5303	5346
20°	5367	5194	5252
25°	5285	5082	5155
30°	5193	4961	5040
35°	5081	4827	4926
40°	4964	4685	4788
45°	4838	4530	4636
50°	4679	4349	4471
55°	4506	4149	4287
60°	4301	3885	4065
65°	3990	3589	3851
70°	3558	3237	3597
75°	2966	2849	3387
80°	2126	2473	3229
85°	1021	2099	3141



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.4	3.1
10°-20°	282.2	9.0
20°-30°	428.1	13.6
30°-40°	517.7	16.5
40°-50°	540.2	17.2
50°-60°	493.9	15.7
60°-70°	385.0	12.2
70°-80°	240.8	7.7
80°-90°	109.4	3.5
90°-100°	36.7	1.2
100°-110°	9.2	0.3
110°-120°	1.4	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°	808.7	25.7
0°-40°	1326.4	42.2
0°-60°	2360.5	75.1
0°-90°	3095.7	98.5
90°-120°	47.3	1.5
90°-150°	47.3	1.5
90°-180°	47.0	1.5
0°-180°	3143.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1037	1035	1031	1036	1036	99
15°	998	1000	997	1002	1002	282
25°	925	925	926	934	936	426
35°	818	822	826	834	837	512
45°	689	695	700	707	711	531
55°	537	544	554	562	566	480
65°	369	376	389	404	410	365
75°	187	198	227	255	264	199
85°	32	60	103	136	148	41
90°	0	22	60	91	102	1
95°	0	6	31	57	66	0
105°	0	1	5	15	20	1
115°	1	1	1	3	4	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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1039.5	1039.5	1039.5	1039.5	1039.5
2.5°	1040.7	1039.3	1034.6	1039.3	1039.0
5°	1037.3	1035.3	1030.7	1035.6	1035.6
7.5°	1030.4	1029.7	1025.5	1031.2	1031.2
10°	1022.4	1022.1	1018.7	1024.8	1025.1
12.5°	1011.1	1012.1	1008.9	1014.8	1015.5
15°	997.9	999.6	996.9	1002.5	1002.3
17.5°	983.4	984.4	982.4	988.8	988.5
20°	965.5	966.7	965.3	971.9	972.6
22.5°	945.7	947.4	947.1	954.0	956.0
25°	924.6	925.3	926.3	934.1	935.6
27.5°	901.3	902.5	904.2	911.4	912.8
30°	875.8	877.8	879.7	887.1	889.1
32.5°	848.9	850.8	853.3	862.8	863.8
35°	818.5	822.2	825.6	833.9	837.3
37.5°	788.1	792.7	795.9	804.8	807.4
40°	756.0	760.6	765.8	775.1	776.8
42.5°	722.4	727.8	733.9	742.3	745.2
45°	688.6	694.7	700.4	707.2	710.7
47.5°	652.1	658.2	665.1	672.9	675.1
50°	614.3	621.5	628.8	636.2	640.1
52.5°	575.6	584.2	592.5	600.4	604.1
55°	537.4	543.8	553.8	561.9	565.6
57.5°	497.7	503.1	512.2	525.4	527.4
60°	457.3	462.2	471.5	482.3	486.7
62.5°	412.7	419.3	429.1	442.8	446.7
65°	369.3	375.7	388.7	404.1	410.5
67.5°	327.4	329.6	346.3	362.4	372.7
70°	277.9	286.2	305.6	325.4	333.3
72.5°	235.3	243.6	264.9	288.2	298.0
75°	187.0	198.5	227.4	254.6	264.2
77.5°	144.6	157.3	193.1	220.5	231.6
80°	101.0	120.8	159.8	190.7	202.7
82.5°	63.5	88.0	129.6	162.0	172.5
85°	32.3	59.8	102.7	135.8	147.8
87.5°	8.6	38.7	79.9	111.5	123.8
90°	0.2	22.3	60.5	90.9	101.9
92.5°	0.2	12.5	45.1	72.3	83.6
95°	0.2	5.9	31.4	56.9	65.7
97.5°	0.2	2.5	21.6	42.9	51.7
100°	0.2	1.2	13.7	31.1	38.7
102.5°	0.5	0.7	8.6	22.3	28.4
105°	0.5	0.7	5.1	15.2	20.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.7	1.0	4.2	6.1
115°	0.7	0.7	1.0	2.7	3.9
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°	0.5	0.7	2.9	10.3	14.0
110°	0.7	0.7	1.7	6.4	9.3



(END OF REPORT)