

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: P580754

Luminaire Tested: **HVSL8-4-LD4-1STD-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580754
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: HVSL8-4-LD4-1STD-50-UNV-O-EDD
Description: 4 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

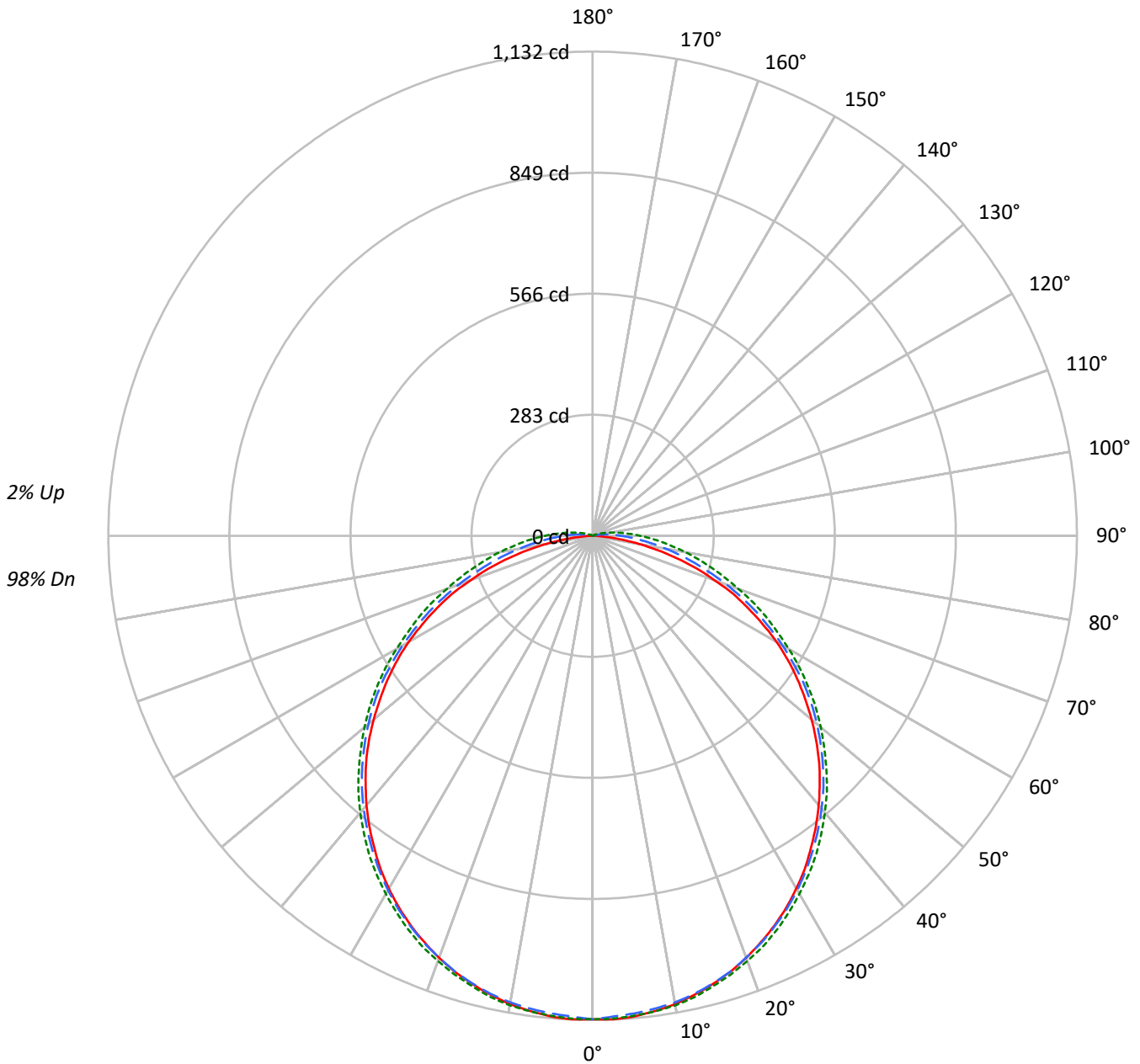
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3418.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 33.6
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°	4563	4563	4563
5°	4554	4461	4466
10°	4524	4381	4376
15°	4485	4293	4269
20°	4443	4194	4164
25°	4393	4093	4058
30°	4335	3985	3938
35°	4262	3866	3819
40°	4185	3741	3679
45°	4103	3604	3529
50°	3997	3447	3368
55°	3882	3274	3190
60°	3744	3049	2982
65°	3521	2799	2775
70°	3200	2503	2535
75°	2744	2179	2318
80°	2064	1862	2119
85°	1104	1541	1929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.1
10°-20°	306.9	9.0
20°-30°	465.6	13.6
30°-40°	563.0	16.5
40°-50°	587.4	17.2
50°-60°	537.1	15.7
60°-70°	418.7	12.2
70°-80°	261.9	7.7
80°-90°	119.0	3.5
90°-100°	39.9	1.2
100°-110°	10.0	0.3
110°-120°	1.6	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°	879.4	25.7
0°-40°	1442.4	42.2
0°-60°	2567.0	75.1
0°-90°	3366.6	98.5
90°-120°	51.5	1.5
90°-150°	51.5	1.5
90°-180°	51.0	1.5
0°-180°	3418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1128	1126	1121	1126	1126	107
15°	1085	1087	1084	1090	1090	306
25°	1006	1006	1007	1016	1018	463
35°	890	894	898	907	911	557
45°	749	756	762	769	773	577
55°	584	591	602	611	615	522
65°	402	408	423	439	446	397
75°	203	216	247	277	287	217
85°	35	65	112	148	161	45
90°	0	24	66	99	111	1
95°	0	6	34	62	71	0
105°	0	1	6	16	22	1
115°	1	1	1	3	4	1
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°	1130.5	1130.5	1130.5	1130.5	1130.5
2.5°	1131.8	1130.2	1125.1	1130.2	1129.9
5°	1128.1	1125.9	1120.9	1126.2	1126.2
7.5°	1120.6	1119.8	1115.3	1121.4	1121.4
10°	1111.8	1111.5	1107.8	1114.5	1114.7
12.5°	1099.6	1100.6	1097.2	1103.6	1104.4
15°	1085.2	1087.0	1084.1	1090.2	1090.0
17.5°	1069.4	1070.5	1068.4	1075.3	1075.0
20°	1050.0	1051.3	1049.7	1056.9	1057.7
22.5°	1028.4	1030.3	1030.0	1037.5	1039.6
25°	1005.5	1006.3	1007.3	1015.9	1017.5
27.5°	980.2	981.5	983.4	991.1	992.7
30°	952.4	954.6	956.7	964.7	966.8
32.5°	923.1	925.3	927.9	938.3	939.4
35°	890.1	894.1	897.8	906.9	910.6
37.5°	857.0	862.1	865.6	875.2	878.1
40°	822.1	827.2	832.8	842.9	844.8
42.5°	785.6	791.5	798.1	807.2	810.4
45°	748.8	755.5	761.6	769.1	772.8
47.5°	709.1	715.8	723.3	731.8	734.2
50°	668.1	675.8	683.8	691.8	696.1
52.5°	626.0	635.3	644.4	652.9	656.9
55°	584.4	591.4	602.3	611.1	615.1
57.5°	541.2	547.1	557.0	571.4	573.5
60°	497.3	502.6	512.7	524.5	529.3
62.5°	448.8	456.0	466.6	481.6	485.8
65°	401.6	408.5	422.7	439.4	446.4
67.5°	356.0	358.4	376.6	394.1	405.3
70°	302.2	311.3	332.3	353.9	362.4
72.5°	255.8	264.9	288.1	313.4	324.1
75°	203.3	215.9	247.3	276.9	287.3
77.5°	157.2	171.1	210.0	239.8	251.8
80°	109.8	131.4	173.8	207.3	220.4
82.5°	69.0	95.7	141.0	176.2	187.6
85°	35.2	65.0	111.7	147.6	160.7
87.5°	9.3	42.1	86.9	121.3	134.6
90°	0.3	24.3	65.8	98.9	110.9
92.5°	0.3	13.6	49.0	78.6	90.9
95°	0.3	6.4	34.1	61.8	71.4
97.5°	0.3	2.7	23.5	46.6	56.2
100°	0.3	1.3	14.9	33.8	42.1
102.5°	0.5	0.8	9.3	24.3	30.9
105°	0.5	0.8	5.6	16.5	22.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.1	4.5	6.7
115°	0.8	0.8	1.1	2.9	4.3
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°	0.5	0.8	3.2	11.2	15.2
110°	0.8	0.8	1.9	6.9	10.1



(END OF REPORT)