

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: P580846

Luminaire Tested: **HVSL8-8-LD4-2STD-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580846
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: HVSL8-8-LD4-2STD-35-UNV-O-EDD
Description: 8 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

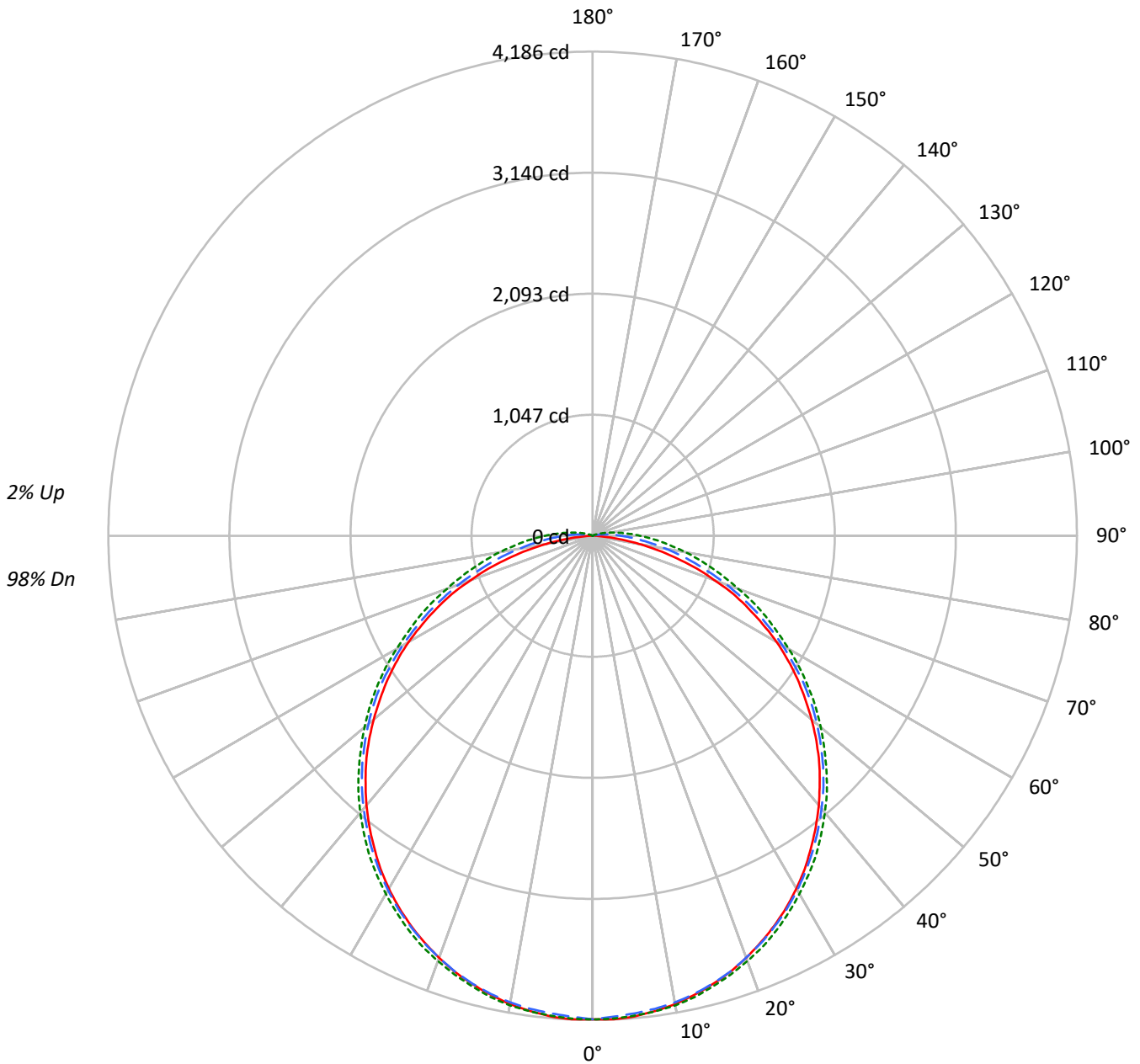
Lumens per Lamp: N/A
Luminaire Lumens: 12640.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 134.8
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°	8437	8437	8437
5°	8436	8259	8257
10°	8395	8122	8092
15°	8338	7968	7893
20°	8277	7794	7700
25°	8201	7615	7504
30°	8111	7424	7281
35°	7993	7213	7061
40°	7872	6990	6803
45°	7743	6747	6526
50°	7570	6464	6227
55°	7385	6154	5898
60°	7164	5747	5513
65°	6789	5291	5131
70°	6238	4751	4688
75°	5440	4159	4285
80°	4220	3580	3917
85°	2433	2998	3567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.6	3.1
10°-20°	1134.8	9.0
20°-30°	1721.8	13.6
30°-40°	2082.0	16.5
40°-50°	2172.4	17.2
50°-60°	1986.2	15.7
60°-70°	1548.4	12.2
70°-80°	968.6	7.7
80°-90°	439.9	3.5
90°-100°	147.4	1.2
100°-110°	37.0	0.3
110°-120°	5.8	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°	3252.2	25.7
0°-40°	5334.2	42.2
0°-60°	9492.9	75.1
0°-90°	12449.7	98.5
90°-120°	190.3	1.5
90°-150°	190.3	1.5
90°-180°	190.0	1.5
0°-180°	12640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4180	4180	4180	4180	4180	
5°	4172	4164	4145	4165	4165	396
15°	4013	4020	4009	4032	4031	1133
25°	3718	3721	3725	3757	3763	1713
35°	3292	3306	3320	3354	3368	2060
45°	2769	2794	2817	2844	2858	2134
55°	2161	2187	2227	2260	2275	1931
65°	1485	1511	1563	1625	1651	1469
75°	752	798	915	1024	1062	802
85°	130	240	413	546	594	165
90°	1	90	243	366	410	5
95°	1	24	126	229	264	1
105°	2	3	21	61	82	2
115°	3	3	4	11	16	2
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°	4180.5	4180.5	4180.5	4180.5	4180.5
2.5°	4185.5	4179.6	4160.8	4179.6	4178.6
5°	4171.7	4163.8	4145.1	4164.8	4164.8
7.5°	4144.1	4141.1	4124.4	4147.0	4147.0
10°	4111.6	4110.6	4096.8	4121.4	4122.4
12.5°	4066.2	4070.2	4057.4	4081.0	4084.0
15°	4013.0	4019.9	4009.1	4031.7	4030.8
17.5°	3954.9	3958.8	3950.9	3976.5	3975.6
20°	3882.9	3887.9	3881.9	3908.5	3911.5
22.5°	3803.1	3810.0	3809.0	3836.6	3844.5
25°	3718.3	3721.3	3725.2	3756.8	3762.7
27.5°	3624.7	3629.6	3636.5	3665.1	3671.0
30°	3522.2	3530.1	3538.0	3567.6	3575.4
32.5°	3413.8	3421.7	3431.6	3470.0	3473.9
35°	3291.6	3306.4	3320.2	3353.7	3367.5
37.5°	3169.4	3188.1	3200.9	3236.4	3247.3
40°	3040.3	3059.0	3079.7	3117.2	3124.1
42.5°	2905.3	2927.0	2951.6	2985.1	2996.9
45°	2769.3	2793.9	2816.6	2844.2	2858.0
47.5°	2622.5	2647.1	2674.7	2706.2	2715.1
50°	2470.7	2499.3	2528.8	2558.4	2574.2
52.5°	2315.0	2349.5	2383.0	2414.5	2429.3
55°	2161.2	2186.9	2227.3	2259.8	2274.6
57.5°	2001.6	2023.3	2059.7	2112.9	2120.8
60°	1839.0	1858.7	1896.1	1939.5	1957.2
62.5°	1659.6	1686.2	1725.6	1780.8	1796.6
65°	1485.2	1510.8	1563.0	1625.1	1650.7
67.5°	1316.6	1325.5	1392.5	1457.6	1499.0
70°	1117.6	1151.1	1228.9	1308.8	1340.3
72.5°	946.1	979.6	1065.3	1159.0	1198.4
75°	751.9	798.3	914.6	1023.9	1062.4
77.5°	581.5	632.7	776.6	887.0	931.3
80°	406.0	485.9	642.6	766.7	815.0
82.5°	255.2	353.8	521.3	651.4	693.8
85°	130.1	240.5	412.9	546.0	594.3
87.5°	34.5	155.7	321.3	448.4	497.7
90°	1.0	89.7	243.4	365.6	410.0
92.5°	1.0	50.3	181.3	290.7	336.1
95°	1.0	23.7	126.1	228.6	264.1
97.5°	1.0	9.9	86.7	172.5	207.9
100°	1.0	4.9	55.2	125.2	155.7
102.5°	2.0	3.0	34.5	89.7	114.3
105°	2.0	3.0	20.7	61.1	81.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	3.0	3.9	16.8	24.6
115°	3.0	3.0	3.9	10.8	15.8
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°	2.0	3.0	11.8	41.4	56.2
110°	3.0	3.0	6.9	25.6	37.4



(END OF REPORT)