

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: P580848

Luminaire Tested: **HVSL8-8-LD4-2STD-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580848
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-40-UNV-O-EDD
Description: 8 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

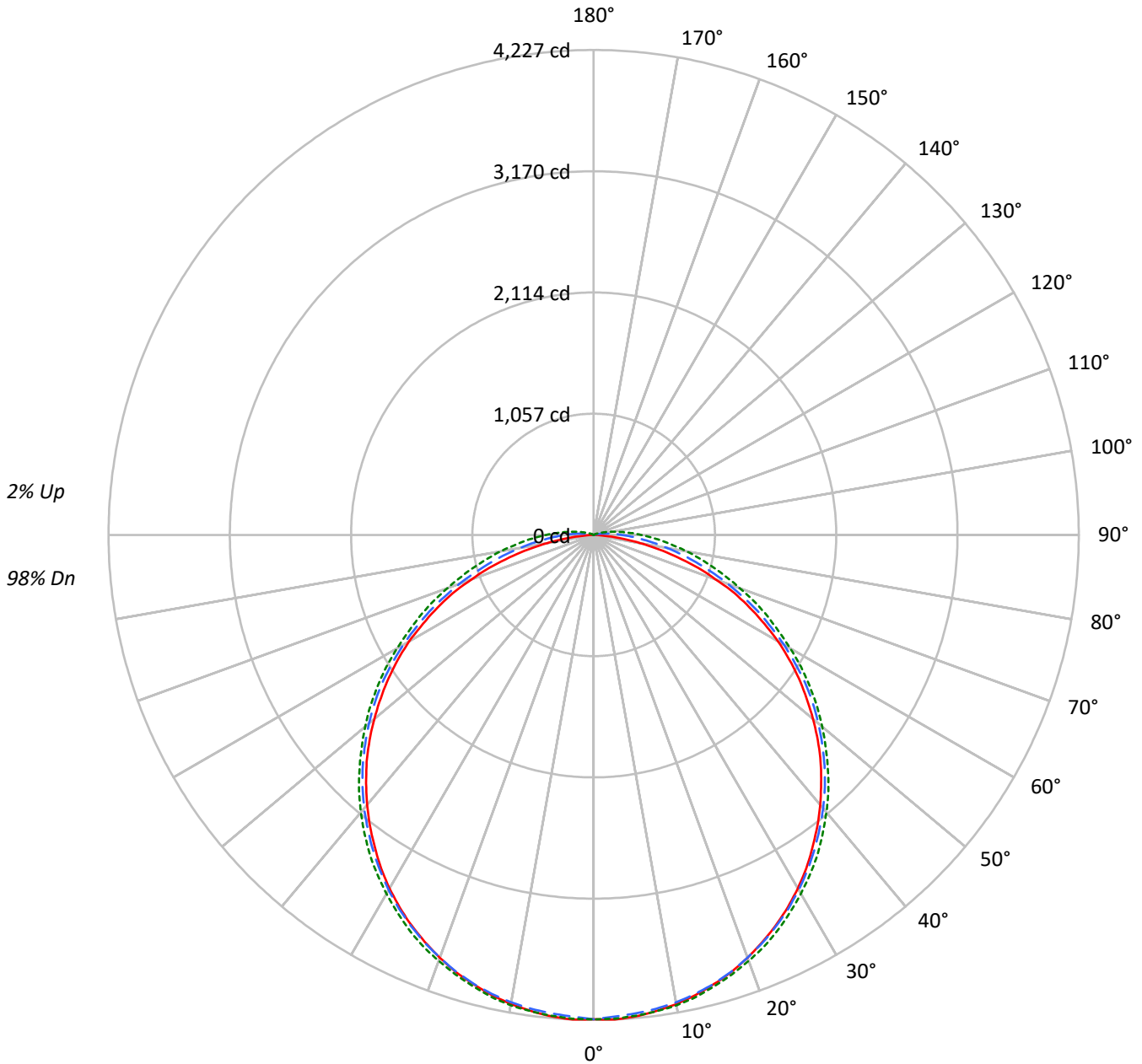
Lumens per Lamp: N/A
Luminaire Lumens: 12766.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 8' x H: 0.17')
CIE Type: Direct

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°	8521	8521	8521
5°	8520	8342	8339
10°	8479	8202	8172
15°	8421	8047	7972
20°	8359	7872	7777
25°	8282	7691	7579
30°	8192	7498	7354
35°	8073	7285	7131
40°	7951	7060	6871
45°	7820	6814	6591
50°	7645	6529	6289
55°	7459	6215	5956
60°	7236	5804	5568
65°	6857	5344	5183
70°	6300	4799	4735
75°	5494	4200	4328
80°	4263	3615	3956
85°	2457	3028	3602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.6	3.1
10°-20°	1146.1	9.0
20°-30°	1739.0	13.6
30°-40°	2102.8	16.5
40°-50°	2194.1	17.2
50°-60°	2006.0	15.7
60°-70°	1563.8	12.2
70°-80°	978.2	7.7
80°-90°	444.3	3.5
90°-100°	148.9	1.2
100°-110°	37.4	0.3
110°-120°	5.9	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°	3284.6	25.7
0°-40°	5387.4	42.2
0°-60°	9587.5	75.1
0°-90°	12573.8	98.5
90°-120°	192.2	1.5
90°-150°	192.2	1.5
90°-180°	192.0	1.5
0°-180°	12766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4222	4222	4222	4222	4222	
5°	4213	4205	4186	4206	4206	400
15°	4053	4060	4049	4072	4071	1144
25°	3755	3758	3762	3794	3800	1730
35°	3324	3339	3353	3387	3401	2081
45°	2797	2822	2845	2872	2886	2155
55°	2183	2209	2250	2282	2297	1950
65°	1500	1526	1579	1641	1667	1484
75°	759	806	924	1034	1073	810
85°	131	243	417	551	600	166
90°	1	91	246	369	414	5
95°	1	24	127	231	267	1
105°	2	3	21	62	83	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°	4222.2	4222.2	4222.2	4222.2	4222.2
2.5°	4227.2	4221.2	4202.3	4221.2	4220.2
5°	4213.3	4205.3	4186.4	4206.3	4206.3
7.5°	4185.4	4182.4	4165.5	4188.4	4188.4
10°	4152.5	4151.6	4137.6	4162.5	4163.5
12.5°	4106.8	4110.7	4097.8	4121.7	4124.7
15°	4053.0	4060.0	4049.0	4071.9	4070.9
17.5°	3994.3	3998.3	3990.3	4016.2	4015.2
20°	3921.6	3926.6	3920.6	3947.5	3950.5
22.5°	3841.0	3848.0	3847.0	3874.8	3882.8
25°	3755.4	3758.4	3762.4	3794.2	3800.2
27.5°	3660.9	3665.8	3672.8	3701.7	3707.6
30°	3557.3	3565.3	3573.3	3603.1	3611.1
32.5°	3447.8	3455.8	3465.8	3504.6	3508.6
35°	3324.4	3339.4	3353.3	3387.1	3401.1
37.5°	3201.0	3219.9	3232.9	3268.7	3279.6
40°	3070.6	3089.5	3110.4	3148.3	3155.2
42.5°	2934.3	2956.2	2981.0	3014.9	3026.8
45°	2796.9	2821.8	2844.7	2872.5	2886.5
47.5°	2648.6	2673.5	2701.3	2733.2	2742.2
50°	2495.3	2524.2	2554.0	2583.9	2599.8
52.5°	2338.0	2372.9	2406.7	2438.6	2453.5
55°	2182.8	2208.7	2249.5	2282.3	2297.2
57.5°	2021.5	2043.4	2080.3	2134.0	2142.0
60°	1857.3	1877.2	1915.0	1958.8	1976.7
62.5°	1676.1	1703.0	1742.8	1798.6	1814.5
65°	1500.0	1525.9	1578.6	1641.3	1667.2
67.5°	1329.8	1338.7	1406.4	1472.1	1513.9
70°	1128.7	1162.6	1241.2	1321.8	1353.7
72.5°	955.5	989.4	1076.0	1170.5	1210.3
75°	759.4	806.2	923.7	1034.2	1073.0
77.5°	587.2	639.0	784.3	895.8	940.6
80°	410.1	490.7	649.0	774.4	823.1
82.5°	257.8	357.3	526.5	657.9	700.7
85°	131.4	242.9	417.0	551.4	600.2
87.5°	34.8	157.3	324.5	452.9	502.6
90°	1.0	90.6	245.8	369.3	414.1
92.5°	1.0	50.8	183.1	293.6	339.4
95°	1.0	23.9	127.4	230.9	266.8
97.5°	1.0	10.0	87.6	174.2	210.0
100°	1.0	5.0	55.7	126.4	157.3
102.5°	2.0	3.0	34.8	90.6	115.5
105°	2.0	3.0	20.9	61.7	82.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	3.0	4.0	16.9	24.9
115°	3.0	3.0	4.0	10.9	15.9
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°	2.0	3.0	11.9	41.8	56.7
110°	3.0	3.0	7.0	25.9	37.8



(END OF REPORT)