

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: P580322

Luminaire Tested: **HVSL12-8-LD4-3STD-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580322
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: HVSL12-8-LD4-3STD-50-UNV-O-EDD
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

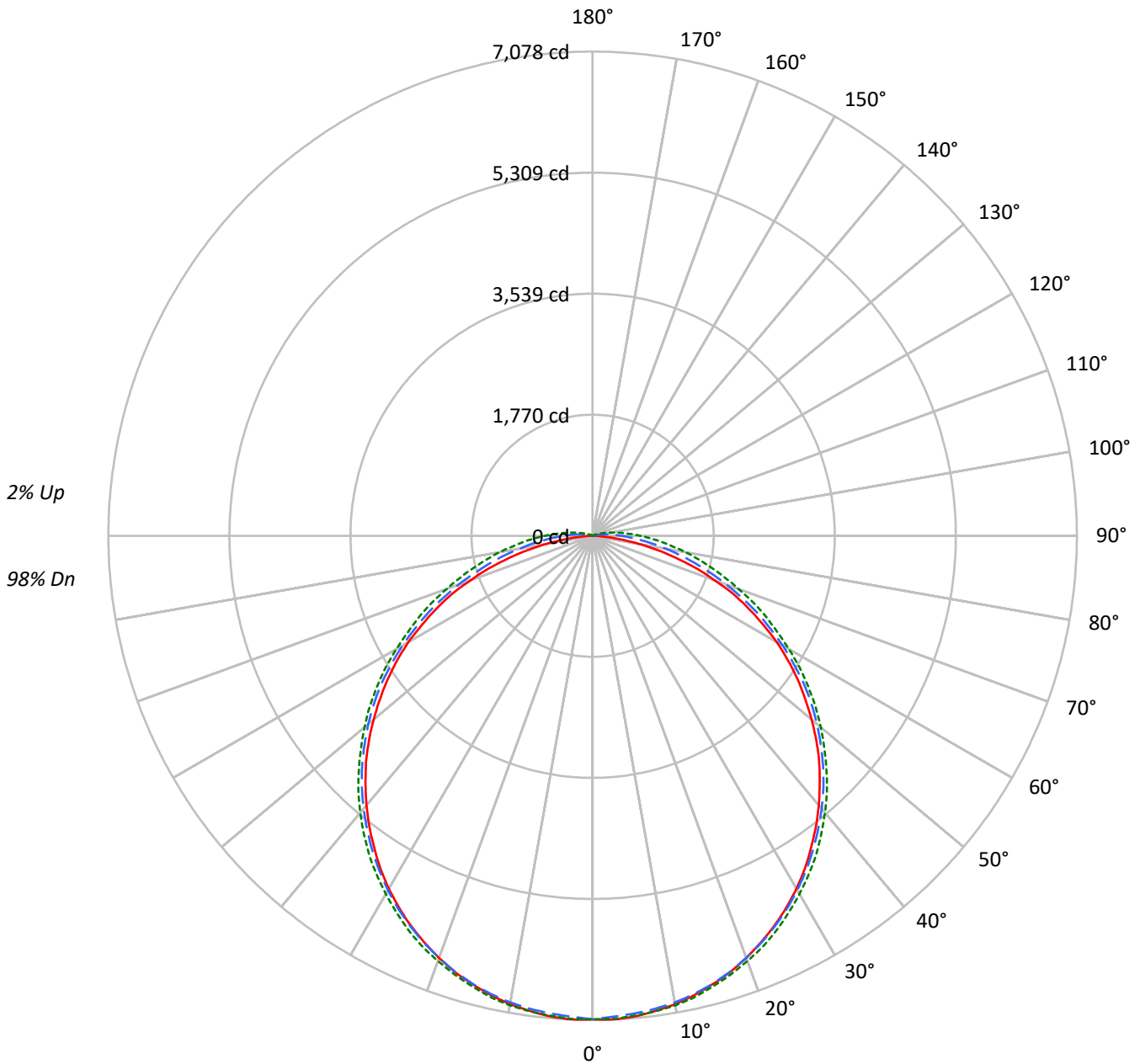
Lumens per Lamp: N/A
Luminaire Lumens: 21376.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 202.3
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°	9512	9512	9512
5°	9511	9359	9376
10°	9465	9249	9253
15°	9401	9120	9089
20°	9332	8967	8930
25°	9246	8808	8765
30°	9144	8635	8569
35°	9012	8439	8376
40°	8876	8232	8141
45°	8730	8002	7883
50°	8534	7730	7602
55°	8326	7429	7288
60°	8077	7017	6911
65°	7654	6552	6547
70°	7033	5993	6116
75°	6134	5378	5758
80°	4758	4805	5490
85°	2743	4285	5340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.0	3.1
10°-20°	1919.1	9.0
20°-30°	2911.9	13.6
30°-40°	3520.9	16.5
40°-50°	3673.8	17.2
50°-60°	3359.0	15.7
60°-70°	2618.5	12.2
70°-80°	1638.0	7.7
80°-90°	744.0	3.5
90°-100°	249.4	1.2
100°-110°	62.6	0.3
110°-120°	9.9	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°	5500.0	25.7
0°-40°	9020.9	42.2
0°-60°	16053.7	75.1
0°-90°	21054.2	98.5
90°-120°	321.8	1.5
90°-150°	321.8	1.5
90°-180°	322.0	1.5
0°-180°	21376.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7070	7070	7070	7070	7070	
5°	7055	7042	7010	7043	7043	670
15°	6787	6798	6780	6818	6817	1916
25°	6288	6293	6300	6353	6363	2898
35°	5567	5592	5615	5672	5695	3484
45°	4683	4725	4763	4810	4833	3609
55°	3655	3698	3767	3822	3847	3265
65°	2512	2555	2643	2748	2792	2485
75°	1272	1350	1547	1732	1797	1356
85°	220	407	698	923	1005	278
90°	2	152	412	618	693	9
95°	2	40	213	387	447	1
105°	3	5	35	103	138	3
115°	5	5	7	18	27	3
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°	7069.9	7069.9	7069.9	7069.9	7069.9
2.5°	7078.2	7068.2	7036.6	7068.2	7066.6
5°	7054.9	7041.6	7009.9	7043.2	7043.2
7.5°	7008.2	7003.2	6974.9	7013.2	7013.2
10°	6953.2	6951.6	6928.2	6969.9	6971.6
12.5°	6876.6	6883.2	6861.6	6901.6	6906.6
15°	6786.6	6798.2	6779.9	6818.2	6816.6
17.5°	6688.2	6694.9	6681.6	6724.9	6723.2
20°	6566.6	6574.9	6564.9	6609.9	6614.9
22.5°	6431.6	6443.2	6441.6	6488.2	6501.6
25°	6288.2	6293.2	6299.9	6353.2	6363.2
27.5°	6129.9	6138.2	6149.9	6198.2	6208.2
30°	5956.6	5969.9	5983.2	6033.2	6046.6
32.5°	5773.2	5786.6	5803.2	5868.2	5874.9
35°	5566.6	5591.6	5614.9	5671.6	5694.9
37.5°	5359.9	5391.6	5413.2	5473.2	5491.6
40°	5141.6	5173.3	5208.3	5271.6	5283.3
42.5°	4913.3	4949.9	4991.6	5048.3	5068.3
45°	4683.3	4724.9	4763.3	4809.9	4833.3
47.5°	4434.9	4476.6	4523.3	4576.6	4591.6
50°	4178.3	4226.6	4276.6	4326.6	4353.3
52.5°	3914.9	3973.3	4029.9	4083.3	4108.3
55°	3654.9	3698.3	3766.6	3821.6	3846.6
57.5°	3384.9	3421.6	3483.3	3573.3	3586.6
60°	3110.0	3143.3	3206.6	3279.9	3309.9
62.5°	2806.6	2851.6	2918.3	3011.6	3038.3
65°	2511.6	2555.0	2643.3	2748.3	2791.6
67.5°	2226.6	2241.6	2355.0	2465.0	2535.0
70°	1890.0	1946.6	2078.3	2213.3	2266.6
72.5°	1600.0	1656.6	1801.6	1960.0	2026.6
75°	1271.6	1350.0	1546.6	1731.6	1796.6
77.5°	983.3	1070.0	1313.3	1500.0	1575.0
80°	686.7	821.7	1086.6	1296.6	1378.3
82.5°	431.7	598.3	881.7	1101.6	1173.3
85°	220.0	406.7	698.3	923.3	1005.0
87.5°	58.3	263.3	543.3	758.3	841.7
90°	1.7	151.7	411.7	618.3	693.3
92.5°	1.7	85.0	306.7	491.7	568.3
95°	1.7	40.0	213.3	386.7	446.7
97.5°	1.7	16.7	146.7	291.7	351.7
100°	1.7	8.3	93.3	211.7	263.3
102.5°	3.3	5.0	58.3	151.7	193.3
105°	3.3	5.0	35.0	103.3	138.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.0	5.0	6.7	28.3	41.7
115°	5.0	5.0	6.7	18.3	26.7
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°	3.3	5.0	20.0	70.0	95.0
110°	5.0	5.0	11.7	43.3	63.3



(END OF REPORT)