

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: P580656

Luminaire Tested: **HVSL4-8-LD4-2STD-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580656
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: HVSL4-8-LD4-2STD-40-UNV-O-EDD
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

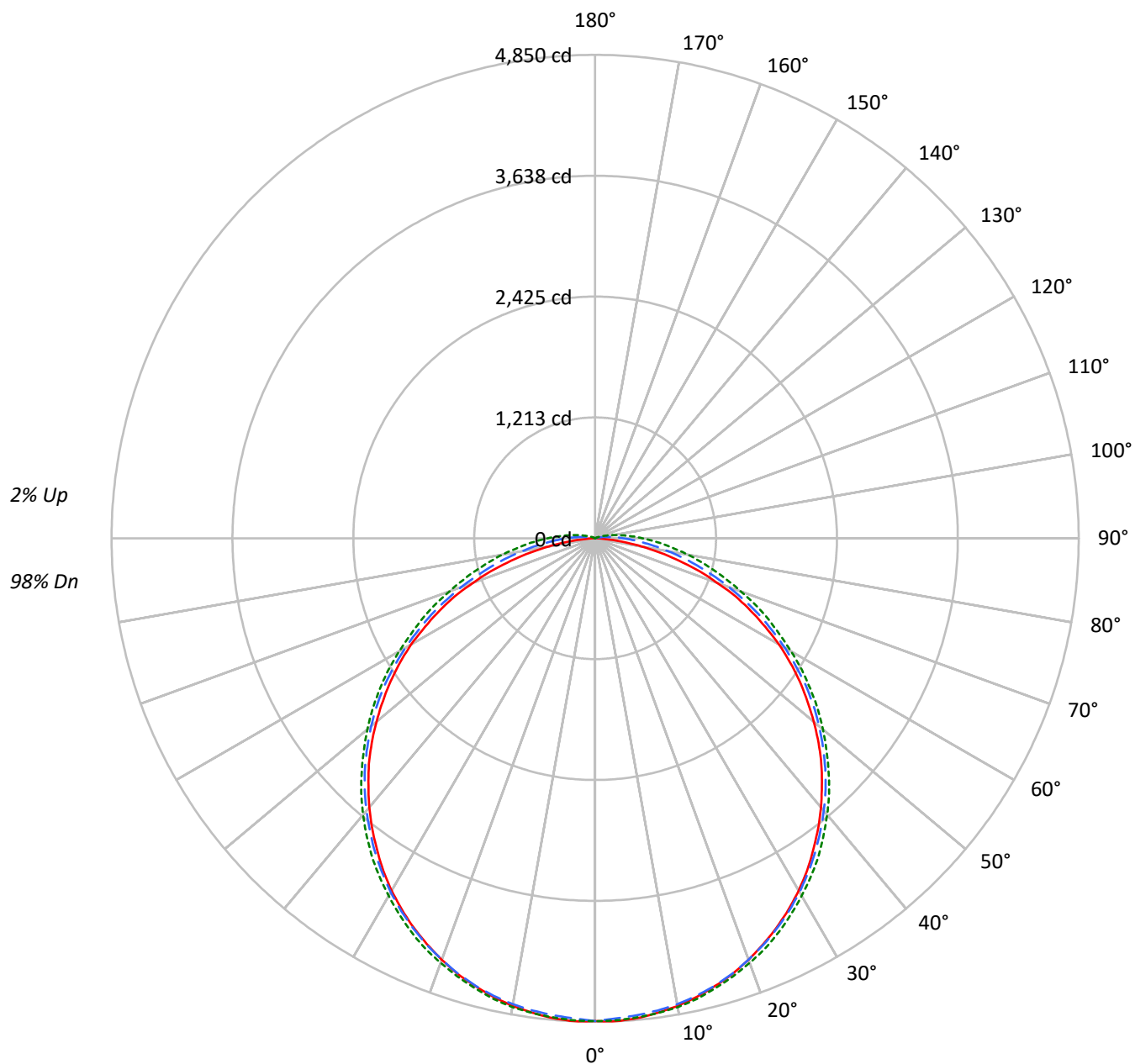
Lumens per Lamp: N/A
Luminaire Lumens: 14647.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 130.8
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					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	19554	19554	19554
5°	19552	18854	18735
10°	19457	18271	17993
15°	19325	17669	17212
20°	19182	17038	16472
25°	19005	16407	15747
30°	18797	15758	14985
35°	18525	15071	14242
40°	18245	14364	13437
45°	17944	13616	12603
50°	17543	12788	11737
55°	17115	11902	10820
60°	16604	10829	9811
65°	15734	9665	8815
70°	14456	8353	7721
75°	12608	6960	6698
80°	9781	5603	5722
85°	5637	4253	4748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.4	3.1
10°-20°	1315.0	9.0
20°-30°	1995.2	13.6
30°-40°	2412.6	16.5
40°-50°	2517.3	17.2
50°-60°	2301.6	15.7
60°-70°	1794.2	12.2
70°-80°	1122.4	7.7
80°-90°	509.8	3.5
90°-100°	170.8	1.2
100°-110°	42.9	0.3
110°-120°	6.8	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°	3768.6	25.7
0°-40°	6181.2	42.2
0°-60°	11000.1	75.1
0°-90°	14426.5	98.5
90°-120°	220.5	1.5
90°-150°	220.5	1.5
90°-180°	220.0	1.5
0°-180°	14647.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4844	4844	4844	4844	4844	
5°	4834	4825	4803	4826	4826	459
15°	4650	4658	4646	4672	4671	1313
25°	4309	4312	4317	4353	4360	1985
35°	3814	3831	3847	3886	3902	2387
45°	3209	3238	3264	3296	3312	2473
55°	2504	2534	2581	2619	2636	2237
65°	1721	1751	1811	1883	1913	1703
75°	871	925	1060	1186	1231	929
85°	151	279	478	633	689	191
90°	1	104	282	424	475	6
95°	1	27	146	265	306	1
105°	2	3	24	71	95	2
115°	3	3	5	13	18	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4844.3	4844.3	4844.3	4844.3	4844.3
2.5°	4850.1	4843.2	4821.5	4843.2	4842.1
5°	4834.1	4824.9	4803.2	4826.1	4826.1
7.5°	4802.1	4798.7	4779.2	4805.5	4805.5
10°	4764.4	4763.3	4747.3	4775.8	4777.0
12.5°	4711.9	4716.4	4701.6	4729.0	4732.4
15°	4650.2	4658.2	4645.6	4671.9	4670.8
17.5°	4582.8	4587.4	4578.3	4607.9	4606.8
20°	4499.5	4505.2	4498.3	4529.2	4532.6
22.5°	4407.0	4415.0	4413.8	4445.8	4454.9
25°	4308.7	4312.2	4316.7	4353.3	4360.1
27.5°	4200.3	4206.0	4214.0	4247.1	4253.9
30°	4081.5	4090.6	4099.8	4134.0	4143.2
32.5°	3955.9	3965.0	3976.4	4021.0	4025.5
35°	3814.3	3831.4	3847.4	3886.2	3902.2
37.5°	3672.7	3694.4	3709.2	3750.3	3762.9
40°	3523.1	3544.8	3568.7	3612.1	3620.1
42.5°	3366.6	3391.7	3420.3	3459.1	3472.8
45°	3209.0	3237.6	3263.8	3295.8	3311.8
47.5°	3038.8	3067.4	3099.4	3135.9	3146.2
50°	2863.0	2896.1	2930.4	2964.6	2982.9
52.5°	2682.5	2722.5	2761.3	2797.9	2815.0
55°	2504.4	2534.1	2580.9	2618.6	2635.7
57.5°	2319.4	2344.5	2386.8	2448.4	2457.6
60°	2131.0	2153.8	2197.2	2247.4	2268.0
62.5°	1923.1	1954.0	1999.6	2063.6	2081.9
65°	1721.0	1750.7	1811.2	1883.1	1912.8
67.5°	1525.7	1536.0	1613.6	1689.0	1737.0
70°	1295.0	1333.9	1424.1	1516.6	1553.1
72.5°	1096.3	1135.1	1234.5	1343.0	1388.7
75°	871.3	925.0	1059.8	1186.5	1231.1
77.5°	673.8	733.2	899.9	1027.8	1079.2
80°	470.5	563.0	744.6	888.5	944.4
82.5°	295.8	410.0	604.1	754.9	804.0
85°	150.7	278.6	478.5	632.7	688.6
87.5°	40.0	180.4	372.3	519.6	576.7
90°	1.1	103.9	282.1	423.7	475.1
92.5°	1.1	58.2	210.1	336.9	389.4
95°	1.1	27.4	146.2	264.9	306.1
97.5°	1.1	11.4	100.5	199.8	241.0
100°	1.1	5.7	64.0	145.0	180.4
102.5°	2.3	3.4	40.0	103.9	132.5
105°	2.3	3.4	24.0	70.8	94.8



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CATALOG NUMBER: HVSL4-8-LD4-2STD-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.4	3.4	4.6	19.4	28.5
115°	3.4	3.4	4.6	12.6	18.3
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°	2.3	3.4	13.7	48.0	65.1
110°	3.4	3.4	8.0	29.7	43.4



(END OF REPORT)