

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: P580700

Luminaire Tested: **HVSL8-2-LD4-2STD-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580700
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: HVSL8-2-LD4-2STD-30-UNV-O-EDD
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

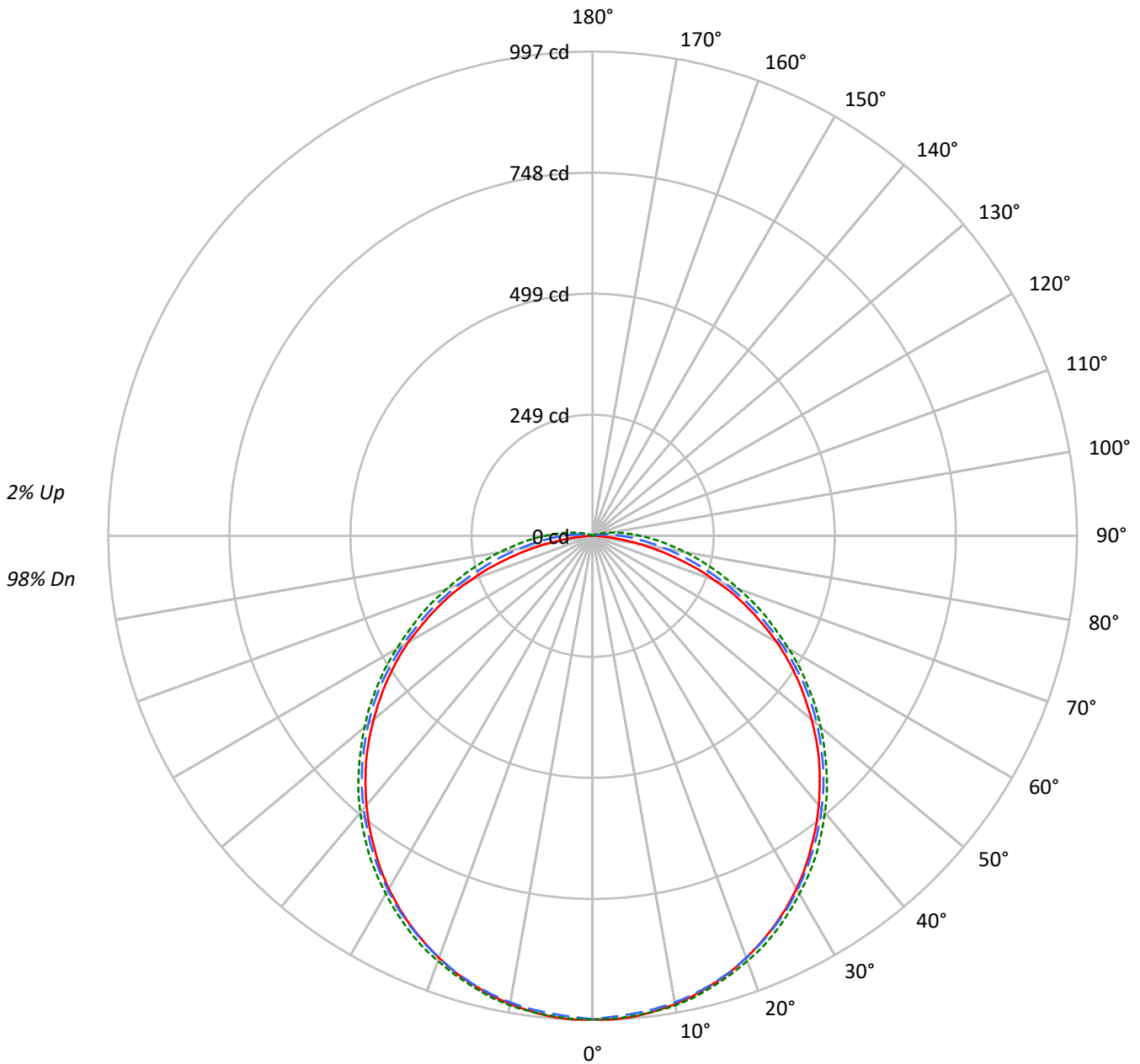
Lumens per Lamp: N/A
Luminaire Lumens: 3011.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 33.7
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			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°	8040	8040	8040
5°	7994	7840	7868
10°	7912	7681	7710
15°	7815	7507	7521
20°	7713	7316	7337
25°	7595	7122	7150
30°	7462	6915	6938
35°	7301	6690	6728
40°	7133	6454	6483
45°	6952	6198	6218
50°	6723	5906	5933
55°	6475	5587	5619
60°	6181	5179	5252
65°	5734	4724	4889
70°	5113	4193	4467
75°	4261	3616	4084
80°	3053	3046	3732
85°	1470	2467	3400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	3.1
10°-20°	270.3	9.0
20°-30°	410.2	13.6
30°-40°	496.0	16.5
40°-50°	517.5	17.2
50°-60°	473.2	15.7
60°-70°	368.8	12.2
70°-80°	230.7	7.7
80°-90°	104.8	3.5
90°-100°	35.1	1.2
100°-110°	8.8	0.3
110°-120°	1.4	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°	774.7	25.7
0°-40°	1270.7	42.2
0°-60°	2261.3	75.1
0°-90°	2965.7	98.5
90°-120°	45.3	1.5
90°-150°	45.3	1.5
90°-180°	45.0	1.5
0°-180°	3011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	994	992	987	992	992	94
15°	956	958	955	960	960	270
25°	886	886	887	895	896	408
35°	784	788	791	799	802	491
45°	660	666	671	678	681	508
55°	515	521	531	538	542	460
65°	354	360	372	387	393	350
75°	179	190	218	244	253	191
85°	31	57	98	130	142	39
90°	0	21	58	87	98	1
95°	0	6	30	54	63	0
105°	0	1	5	15	20	1
115°	1	1	1	3	4	0
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



TEST NUMBER: P580700

CATALOG NUMBER: HVSL8-2-LD4-2STD-30-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.9	995.9	995.9	995.9	995.9
2.5°	997.0	995.6	991.2	995.6	995.4
5°	993.7	991.9	987.4	992.1	992.1
7.5°	987.2	986.5	982.5	987.9	987.9
10°	979.4	979.2	975.9	981.8	982.0
12.5°	968.6	969.6	966.5	972.1	972.9
15°	955.9	957.6	955.0	960.4	960.2
17.5°	942.1	943.0	941.2	947.3	947.0
20°	925.0	926.1	924.7	931.1	931.8
22.5°	905.9	907.6	907.4	913.9	915.8
25°	885.8	886.5	887.4	894.9	896.3
27.5°	863.5	864.6	866.3	873.1	874.5
30°	839.0	840.9	842.8	849.8	851.7
32.5°	813.2	815.1	817.4	826.6	827.5
35°	784.1	787.6	790.9	798.9	802.2
37.5°	755.0	759.5	762.5	771.0	773.5
40°	724.2	728.7	733.6	742.5	744.2
42.5°	692.1	697.2	703.1	711.1	713.9
45°	659.7	665.5	670.9	677.5	680.8
47.5°	624.7	630.6	637.1	644.7	646.8
50°	588.5	595.4	602.4	609.4	613.2
52.5°	551.5	559.7	567.7	575.2	578.7
55°	514.8	520.9	530.6	538.3	541.8
57.5°	476.8	482.0	490.7	503.3	505.2
60°	438.1	442.8	451.7	462.0	466.2
62.5°	395.3	401.7	411.1	424.2	428.0
65°	353.8	359.9	372.3	387.1	393.2
67.5°	313.6	315.8	331.7	347.2	357.1
70°	266.2	274.2	292.7	311.8	319.3
72.5°	225.4	233.4	253.8	276.1	285.5
75°	179.1	190.2	217.9	243.9	253.1
77.5°	138.5	150.7	185.0	211.3	221.8
80°	96.7	115.7	153.1	182.6	194.1
82.5°	60.8	84.3	124.2	155.2	165.3
85°	31.0	57.3	98.4	130.1	141.6
87.5°	8.2	37.1	76.5	106.8	118.6
90°	0.2	21.4	58.0	87.1	97.7
92.5°	0.2	12.0	43.2	69.3	80.1
95°	0.2	5.6	30.0	54.5	62.9
97.5°	0.2	2.3	20.7	41.1	49.5
100°	0.2	1.2	13.1	29.8	37.1
102.5°	0.5	0.7	8.2	21.4	27.2
105°	0.5	0.7	4.9	14.6	19.5



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CATALOG NUMBER: HVSL8-2-LD4-2STD-30-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.7	0.9	4.0	5.9
115°	0.7	0.7	0.9	2.6	3.8
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°	0.5	0.7	2.8	9.9	13.4
110°	0.7	0.7	1.6	6.1	8.9



(END OF REPORT)