

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: P580704

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580704
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-40-UNV-O-EDD
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

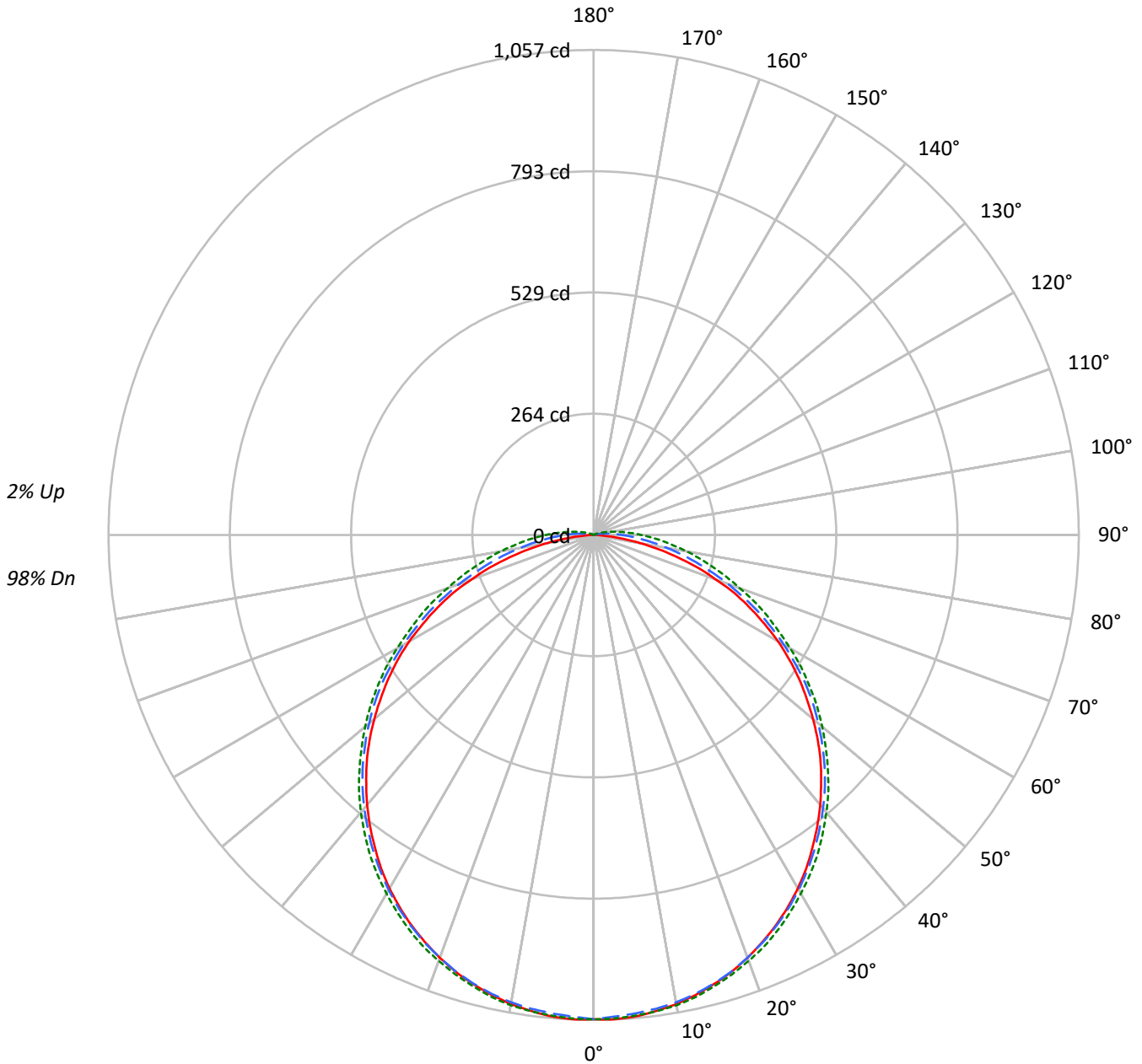
Lumens per Lamp: N/A
Luminaire Lumens: 3192.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 2' x H: 0.17')
CIE Type: Direct

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°	8523	8523	8523
5°	8476	8312	8340
10°	8388	8143	8173
15°	8285	7959	7973
20°	8176	7756	7778
25°	8051	7549	7580
30°	7911	7331	7355
35°	7740	7093	7132
40°	7563	6842	6872
45°	7370	6572	6591
50°	7128	6261	6290
55°	6865	5923	5957
60°	6552	5489	5569
65°	6079	5008	5184
70°	5420	4445	4736
75°	4518	3833	4329
80°	3236	3229	3957
85°	1561	2615	3604



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	3.1
10°-20°	286.6	9.0
20°-30°	434.8	13.6
30°-40°	525.8	16.5
40°-50°	548.6	17.2
50°-60°	501.6	15.7
60°-70°	391.0	12.2
70°-80°	244.6	7.7
80°-90°	111.1	3.5
90°-100°	37.2	1.2
100°-110°	9.3	0.3
110°-120°	1.5	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°	821.3	25.7
0°-40°	1347.1	42.2
0°-60°	2397.2	75.1
0°-90°	3143.9	98.5
90°-120°	48.0	1.5
90°-150°	48.0	1.5
90°-180°	48.0	1.5
0°-180°	3192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1054	1052	1047	1052	1052	100
15°	1013	1015	1012	1018	1018	286
25°	939	940	941	949	950	433
35°	831	835	838	847	850	520
45°	699	706	711	718	722	539
55°	546	552	562	571	574	488
65°	375	382	395	410	417	371
75°	190	202	231	259	268	202
85°	33	61	104	138	150	42
90°	0	23	62	92	104	1
95°	0	6	32	58	67	0
105°	0	1	5	15	21	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.7	1055.7	1055.7	1055.7	1055.7
2.5°	1057.0	1055.5	1050.7	1055.5	1055.2
5°	1053.5	1051.5	1046.8	1051.7	1051.7
7.5°	1046.5	1045.8	1041.5	1047.3	1047.3
10°	1038.3	1038.1	1034.6	1040.8	1041.0
12.5°	1026.9	1027.8	1024.6	1030.6	1031.3
15°	1013.4	1015.2	1012.4	1018.1	1017.9
17.5°	998.7	999.7	997.7	1004.2	1004.0
20°	980.6	981.8	980.3	987.0	987.8
22.5°	960.4	962.1	961.9	968.9	970.9
25°	939.0	939.7	940.7	948.7	950.2
27.5°	915.4	916.6	918.3	925.6	927.1
30°	889.5	891.5	893.5	900.9	902.9
32.5°	862.1	864.1	866.6	876.3	877.3
35°	831.2	835.0	838.5	846.9	850.4
37.5°	800.4	805.1	808.3	817.3	820.0
40°	767.8	772.5	777.7	787.2	788.9
42.5°	733.7	739.2	745.4	753.8	756.8
45°	699.3	705.6	711.3	718.2	721.7
47.5°	662.3	668.5	675.4	683.4	685.6
50°	623.9	631.1	638.6	646.1	650.1
52.5°	584.6	593.3	601.8	609.7	613.5
55°	545.8	552.2	562.5	570.7	574.4
57.5°	505.5	510.9	520.1	533.6	535.6
60°	464.4	469.4	478.8	489.8	494.3
62.5°	419.1	425.8	435.8	449.7	453.7
65°	375.1	381.5	394.7	410.4	416.9
67.5°	332.5	334.7	351.7	368.1	378.5
70°	282.2	290.7	310.3	330.5	338.5
72.5°	238.9	247.4	269.0	292.7	302.6
75°	189.9	201.6	231.0	258.6	268.3
77.5°	146.8	159.8	196.1	224.0	235.2
80°	102.5	122.7	162.3	193.6	205.8
82.5°	64.5	89.3	131.7	164.5	175.2
85°	32.9	60.7	104.3	137.9	150.1
87.5°	8.7	39.3	81.1	113.2	125.7
90°	0.2	22.6	61.5	92.3	103.5
92.5°	0.2	12.7	45.8	73.4	84.9
95°	0.2	6.0	31.9	57.7	66.7
97.5°	0.2	2.5	21.9	43.6	52.5
100°	0.2	1.2	13.9	31.6	39.3
102.5°	0.5	0.7	8.7	22.6	28.9
105°	0.5	0.7	5.2	15.4	20.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.7	1.0	4.2	6.2
115°	0.7	0.7	1.0	2.7	4.0
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	3.0	10.5	14.2
110°	0.7	0.7	1.7	6.5	9.5



(END OF REPORT)