

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: P580832

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580832
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-LD4-2HI-40-UNV-O-EDD
Description: 8 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

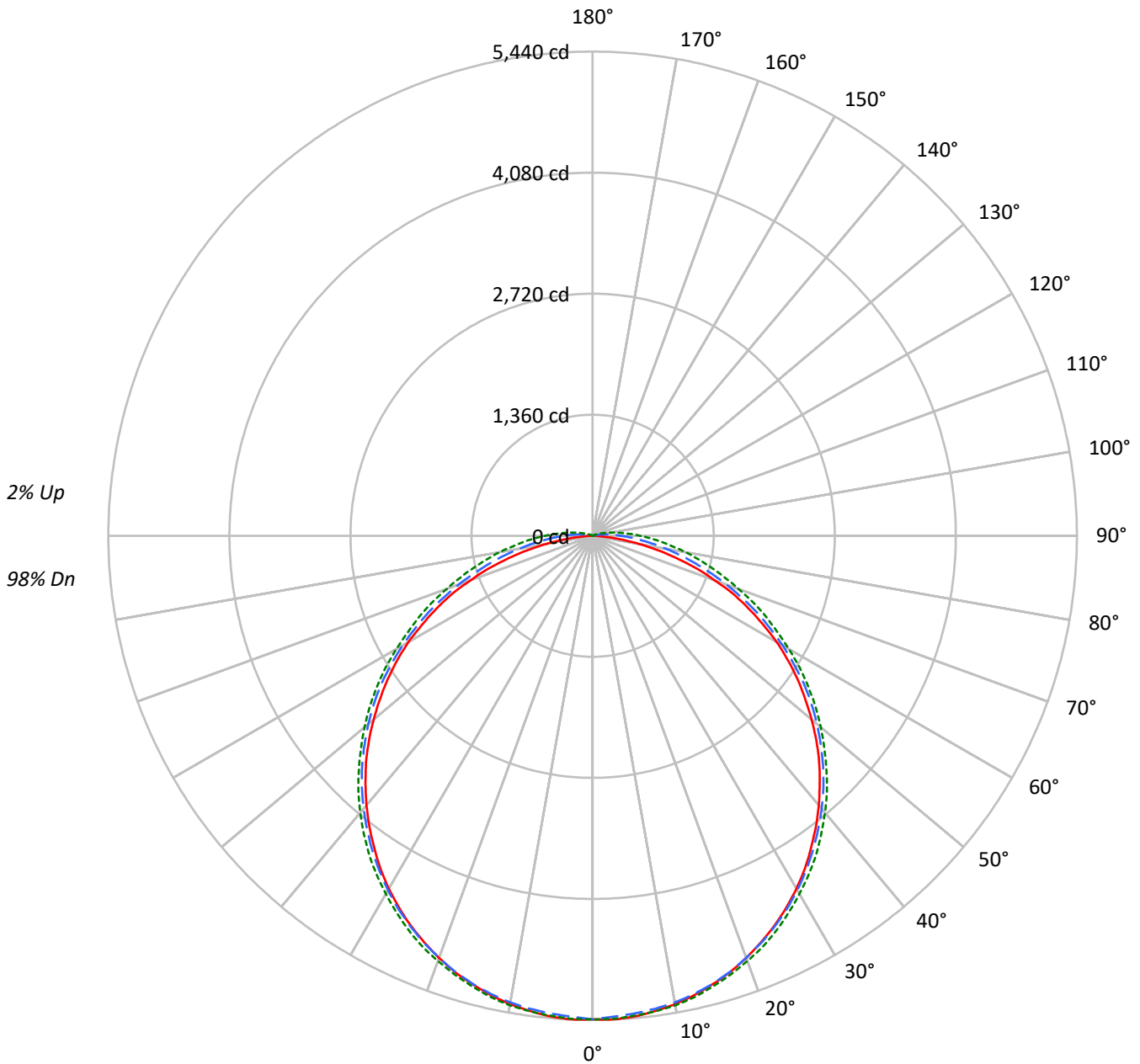
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16429.0 lumens
Efficiency: N/A
Efficacy: 92.5 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): 177.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	10966	10966	10966
5°	10965	10735	10732
10°	10912	10556	10517
15°	10838	10356	10259
20°	10758	10130	10008
25°	10659	9898	9753
30°	10542	9650	9464
35°	10389	9375	9177
40°	10232	9086	8843
45°	10064	8769	8482
50°	9839	8402	8093
55°	9599	7998	7665
60°	9312	7470	7165
65°	8824	6877	6670
70°	8108	6176	6094
75°	7072	5405	5570
80°	5485	4653	5091
85°	3163	3897	4636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.2	3.1
10°-20°	1474.9	9.0
20°-30°	2238.0	13.6
30°-40°	2706.1	16.5
40°-50°	2823.6	17.2
50°-60°	2581.6	15.7
60°-70°	2012.5	12.2
70°-80°	1258.9	7.7
80°-90°	571.8	3.5
90°-100°	191.7	1.2
100°-110°	48.1	0.3
110°-120°	7.6	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°	4227.1	25.7
0°-40°	6933.2	42.2
0°-60°	12338.5	75.1
0°-90°	16181.7	98.5
90°-120°	247.3	1.5
90°-150°	247.3	1.5
90°-180°	247.0	1.5
0°-180°	16429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5434	5434	5434	5434	5434	
5°	5422	5412	5388	5413	5413	515
15°	5216	5225	5211	5240	5239	1472
25°	4833	4837	4842	4883	4891	2227
35°	4278	4298	4316	4359	4377	2678
45°	3599	3631	3661	3697	3715	2774
55°	2809	2842	2895	2937	2956	2510
65°	1930	1964	2032	2112	2146	1910
75°	977	1038	1189	1331	1381	1042
85°	169	312	537	710	772	214
90°	1	117	316	475	533	7
95°	1	31	164	297	343	1
105°	3	4	27	79	106	3
115°	4	4	5	14	20	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



TEST NUMBER: P580832

CATALOG NUMBER: HVSL8-8-LD4-2HI-40-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5433.7	5433.7	5433.7	5433.7	5433.7
2.5°	5440.1	5432.4	5408.1	5432.4	5431.2
5°	5422.2	5411.9	5387.6	5413.2	5413.2
7.5°	5386.3	5382.5	5360.7	5390.2	5390.2
10°	5344.1	5342.8	5324.8	5356.9	5358.1
12.5°	5285.1	5290.3	5273.6	5304.3	5308.2
15°	5216.0	5224.9	5210.8	5240.3	5239.0
17.5°	5140.4	5145.5	5135.3	5168.6	5167.3
20°	5046.9	5053.3	5045.6	5080.2	5084.0
22.5°	4943.1	4952.1	4950.8	4986.7	4996.9
25°	4833.0	4836.8	4841.9	4882.9	4890.6
27.5°	4711.3	4717.7	4726.6	4763.8	4771.5
30°	4578.1	4588.3	4598.6	4637.0	4647.2
32.5°	4437.2	4447.4	4460.2	4510.2	4515.3
35°	4278.3	4297.5	4315.5	4359.0	4377.0
37.5°	4119.5	4143.8	4160.5	4206.6	4220.7
40°	3951.7	3976.0	4002.9	4051.6	4060.6
42.5°	3776.2	3804.4	3836.4	3879.9	3895.3
45°	3599.4	3631.4	3660.9	3696.8	3714.7
47.5°	3408.6	3440.6	3476.5	3517.4	3529.0
50°	3211.3	3248.4	3286.9	3325.3	3345.8
52.5°	3008.9	3053.7	3097.3	3138.3	3157.5
55°	2809.1	2842.4	2894.9	2937.2	2956.4
57.5°	2601.6	2629.8	2677.2	2746.3	2756.6
60°	2390.2	2415.8	2464.5	2520.9	2543.9
62.5°	2157.1	2191.7	2242.9	2314.6	2335.1
65°	1930.4	1963.7	2031.6	2112.3	2145.6
67.5°	1711.3	1722.9	1810.0	1894.5	1948.3
70°	1452.6	1496.1	1597.3	1701.1	1742.1
72.5°	1229.7	1273.2	1384.7	1506.4	1557.6
75°	977.4	1037.6	1188.7	1330.9	1380.8
77.5°	755.8	822.4	1009.4	1152.8	1210.5
80°	527.7	631.5	835.2	996.6	1059.3
82.5°	331.8	459.9	677.6	846.7	901.8
85°	169.1	312.5	536.7	709.6	772.4
87.5°	44.8	202.4	417.6	582.8	646.9
90°	1.3	116.6	316.4	475.2	532.9
92.5°	1.3	65.3	235.7	377.9	436.8
95°	1.3	30.7	164.0	297.2	343.3
97.5°	1.3	12.8	112.7	224.2	270.3
100°	1.3	6.4	71.7	162.7	202.4
102.5°	2.6	3.8	44.8	116.6	148.6
105°	2.6	3.8	26.9	79.4	106.3



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CATALOG NUMBER: HVSL8-8-LD4-2HI-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.8	3.8	5.1	21.8	32.0
115°	3.8	3.8	5.1	14.1	20.5
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°	2.6	3.8	15.4	53.8	73.0
110°	3.8	3.8	9.0	33.3	48.7



(END OF REPORT)