

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: P580398

Luminaire Tested: **HVSL2-8-LD4-HI-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580398
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: HVSL2-8-LD4-HI-35-UNV-O-EDD
Description: 8 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

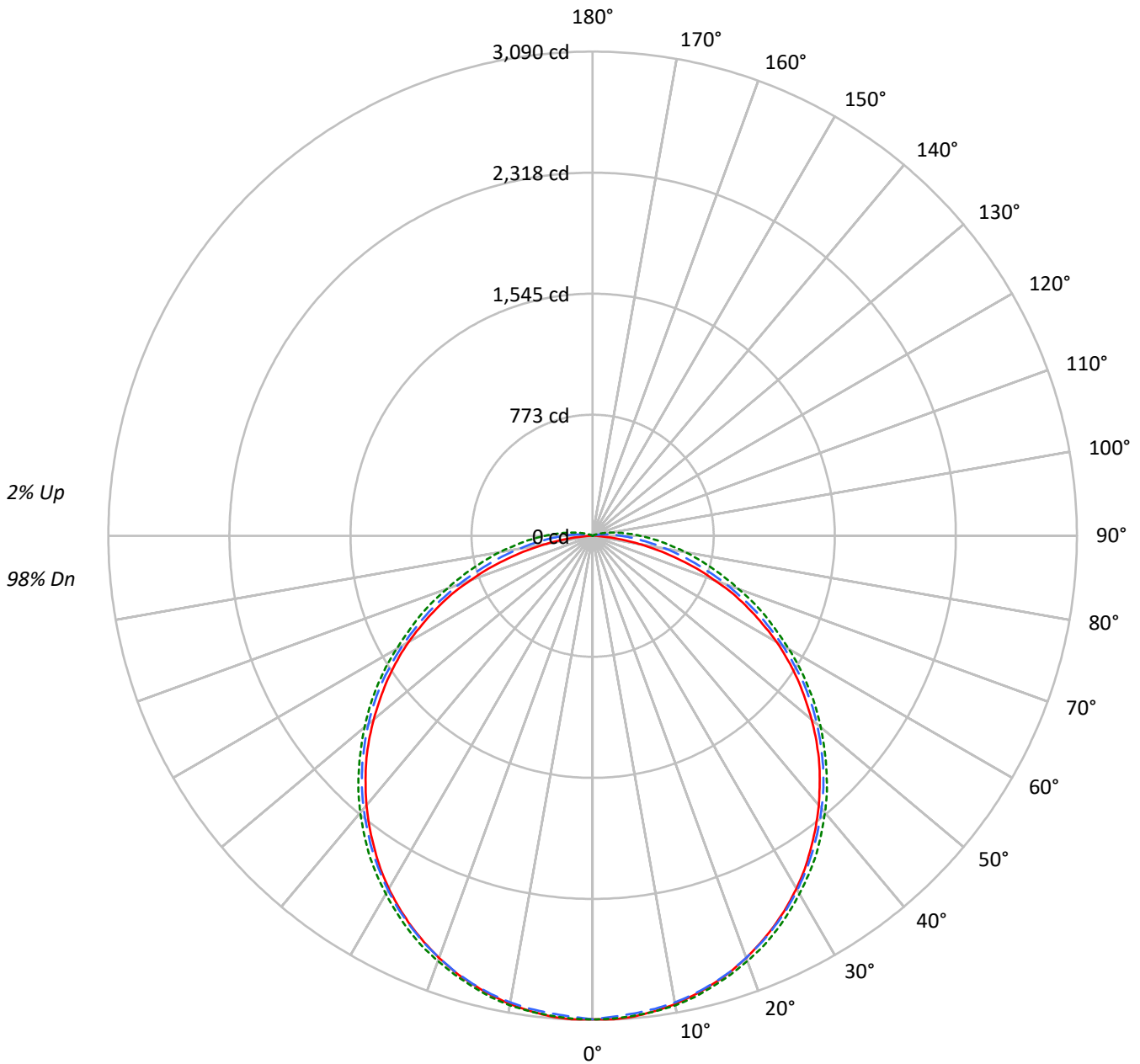
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9331.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 86.2
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°	24914	24914	24914
5°	24911	23324	22910
10°	24790	21992	21207
15°	24622	20725	19612
20°	24440	19496	18186
25°	24215	18326	16873
30°	23950	17184	15597
35°	23603	16044	14408
40°	23246	14920	13214
45°	22863	13785	12042
50°	22352	12602	10888
55°	21806	11394	9732
60°	21155	10042	8538
65°	20048	8649	7402
70°	18419	7177	6231
75°	16065	5700	5169
80°	12461	4328	4192
85°	7182	3051	3269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.0	3.1
10°-20°	837.7	9.0
20°-30°	1271.1	13.6
30°-40°	1536.9	16.5
40°-50°	1603.7	17.2
50°-60°	1466.3	15.7
60°-70°	1143.0	12.2
70°-80°	715.0	7.7
80°-90°	324.7	3.5
90°-100°	108.8	1.2
100°-110°	27.3	0.3
110°-120°	4.3	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°	2400.8	25.7
0°-40°	3937.8	42.2
0°-60°	7007.7	75.1
0°-90°	9190.5	98.5
90°-120°	140.5	1.5
90°-150°	140.5	1.5
90°-180°	140.0	1.5
0°-180°	9331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3086	3086	3086	3086	3086	
5°	3080	3074	3060	3074	3074	292
15°	2962	2968	2960	2976	2976	836
25°	2745	2747	2750	2773	2778	1265
35°	2430	2441	2451	2476	2486	1521
45°	2044	2062	2079	2100	2110	1575
55°	1595	1614	1644	1668	1679	1425
65°	1096	1115	1154	1200	1219	1085
75°	555	589	675	756	784	592
85°	96	178	305	403	439	121
90°	1	66	180	270	303	4
95°	1	18	93	169	195	1
105°	2	2	15	45	60	2
115°	2	2	3	8	12	1
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°	3086.1	3086.1	3086.1	3086.1	3086.1
2.5°	3089.8	3085.4	3071.6	3085.4	3084.7
5°	3079.6	3073.8	3059.9	3074.5	3074.5
7.5°	3059.2	3057.0	3044.7	3061.4	3061.4
10°	3035.2	3034.5	3024.3	3042.5	3043.2
12.5°	3001.7	3004.6	2995.2	3012.7	3014.8
15°	2962.5	2967.5	2959.5	2976.3	2975.5
17.5°	2919.5	2922.4	2916.6	2935.5	2934.8
20°	2866.4	2870.1	2865.7	2885.3	2887.5
22.5°	2807.5	2812.6	2811.9	2832.2	2838.0
25°	2744.9	2747.1	2750.0	2773.3	2777.7
27.5°	2675.8	2679.4	2684.5	2705.6	2710.0
30°	2600.1	2606.0	2611.8	2633.6	2639.4
32.5°	2520.1	2525.9	2533.2	2561.6	2564.5
35°	2429.9	2440.8	2451.0	2475.7	2485.9
37.5°	2339.7	2353.5	2363.0	2389.2	2397.2
40°	2244.4	2258.2	2273.5	2301.1	2306.2
42.5°	2144.7	2160.7	2178.9	2203.7	2212.4
45°	2044.3	2062.5	2079.2	2099.6	2109.8
47.5°	1935.9	1954.1	1974.5	1997.8	2004.3
50°	1823.9	1845.0	1866.8	1888.6	1900.3
52.5°	1708.9	1734.4	1759.1	1782.4	1793.3
55°	1595.4	1614.4	1644.2	1668.2	1679.1
57.5°	1477.6	1493.6	1520.5	1559.8	1565.6
60°	1357.5	1372.1	1399.7	1431.8	1444.9
62.5°	1225.1	1244.8	1273.9	1314.6	1326.3
65°	1096.4	1115.3	1153.8	1199.7	1218.6
67.5°	972.0	978.5	1028.0	1076.0	1106.6
70°	825.0	849.7	907.2	966.1	989.4
72.5°	698.4	723.2	786.4	855.6	884.7
75°	555.1	589.3	675.1	755.9	784.3
77.5°	429.2	467.1	573.3	654.8	687.5
80°	299.7	358.7	474.3	566.0	601.7
82.5°	188.4	261.2	384.9	480.9	512.2
85°	96.0	177.5	304.8	403.0	438.7
87.5°	25.5	114.9	237.2	331.0	367.4
90°	0.7	66.2	179.7	269.9	302.6
92.5°	0.7	37.1	133.9	214.6	248.1
95°	0.7	17.5	93.1	168.8	195.0
97.5°	0.7	7.3	64.0	127.3	153.5
100°	0.7	3.6	40.7	92.4	114.9
102.5°	1.5	2.2	25.5	66.2	84.4
105°	1.5	2.2	15.3	45.1	60.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	2.2	2.9	12.4	18.2
115°	2.2	2.2	2.9	8.0	11.6
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°	1.5	2.2	8.7	30.6	41.5
110°	2.2	2.2	5.1	18.9	27.6



(END OF REPORT)