

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: P580571

Luminaire Tested: **HVSL4-4-LD4-1LO-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580571
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: HVSL4-4-LD4-1LO-30-UNV-O-EDD-90
Description: 4 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

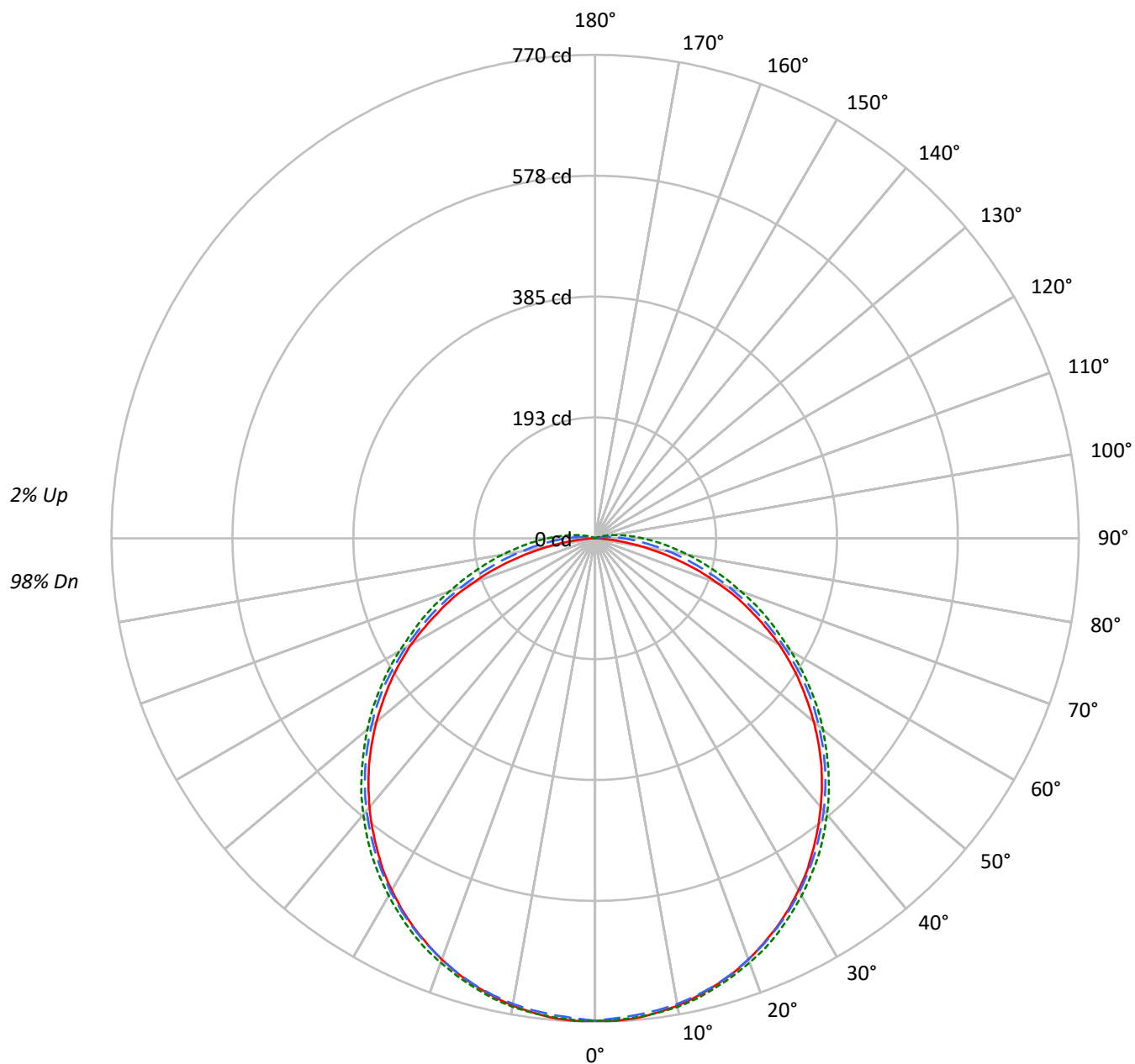
Lumens per Lamp: N/A
Luminaire Lumens: 2324.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 23.1
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°	6205	6205	6205
5°	6193	5976	5945
10°	6152	5784	5709
15°	6098	5587	5462
20°	6042	5381	5227
25°	5974	5176	4997
30°	5895	4966	4755
35°	5795	4744	4520
40°	5692	4515	4264
45°	5581	4275	3999
50°	5436	4010	3725
55°	5279	3725	3434
60°	5091	3383	3114
65°	4789	3014	2797
70°	4352	2599	2450
75°	3733	2159	2125
80°	2809	1731	1817
85°	1499	1307	1507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	3.1
10°-20°	208.6	9.0
20°-30°	316.6	13.6
30°-40°	382.8	16.5
40°-50°	399.4	17.2
50°-60°	365.2	15.7
60°-70°	284.7	12.2
70°-80°	178.1	7.7
80°-90°	80.9	3.5
90°-100°	27.1	1.2
100°-110°	6.8	0.3
110°-120°	1.1	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°	597.9	25.7
0°-40°	980.7	42.2
0°-60°	1745.4	75.1
0°-90°	2289.0	98.5
90°-120°	34.9	1.5
90°-150°	34.9	1.5
90°-180°	35.0	1.5
0°-180°	2324.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	767	766	762	766	766	73
15°	738	739	737	741	741	208
25°	684	684	685	691	692	315
35°	605	608	610	617	619	379
45°	509	514	518	523	526	392
55°	397	402	410	416	418	355
65°	273	278	287	299	304	270
75°	138	147	168	188	195	147
85°	24	44	76	100	109	30
90°	0	16	45	67	75	1
95°	0	4	23	42	49	0
105°	0	0	4	11	15	0
115°	0	0	1	2	3	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	768.6	768.6	768.6	768.6	768.6
2.5°	769.5	768.5	765.0	768.5	768.3
5°	767.0	765.6	762.1	765.7	765.7
7.5°	761.9	761.4	758.3	762.5	762.5
10°	756.0	755.8	753.2	757.8	757.9
12.5°	747.6	748.3	746.0	750.3	750.9
15°	737.8	739.1	737.1	741.3	741.1
17.5°	727.1	727.9	726.4	731.1	730.9
20°	713.9	714.8	713.7	718.6	719.2
22.5°	699.2	700.5	700.3	705.4	706.9
25°	683.7	684.2	684.9	690.7	691.8
27.5°	666.4	667.3	668.6	673.9	675.0
30°	647.6	649.0	650.5	655.9	657.4
32.5°	627.7	629.1	630.9	638.0	638.7
35°	605.2	607.9	610.5	616.6	619.2
37.5°	582.7	586.2	588.5	595.1	597.0
40°	559.0	562.4	566.2	573.1	574.4
42.5°	534.2	538.2	542.7	548.8	551.0
45°	509.2	513.7	517.9	522.9	525.5
47.5°	482.2	486.7	491.8	497.6	499.2
50°	454.3	459.5	465.0	470.4	473.3
52.5°	425.6	432.0	438.1	443.9	446.7
55°	397.4	402.1	409.5	415.5	418.2
57.5°	368.0	372.0	378.7	388.5	389.9
60°	338.1	341.7	348.6	356.6	359.9
62.5°	305.1	310.0	317.3	327.4	330.3
65°	273.1	277.8	287.4	298.8	303.5
67.5°	242.1	243.7	256.0	268.0	275.6
70°	205.5	211.6	226.0	240.6	246.4
72.5°	173.9	180.1	195.9	213.1	220.3
75°	138.3	146.8	168.2	188.3	195.3
77.5°	106.9	116.3	142.8	163.1	171.2
80°	74.7	89.3	118.1	141.0	149.9
82.5°	46.9	65.0	95.9	119.8	127.6
85°	23.9	44.2	75.9	100.4	109.3
87.5°	6.3	28.6	59.1	82.4	91.5
90°	0.2	16.5	44.8	67.2	75.4
92.5°	0.2	9.2	33.3	53.5	61.8
95°	0.2	4.3	23.2	42.0	48.6
97.5°	0.2	1.8	15.9	31.7	38.2
100°	0.2	0.9	10.1	23.0	28.6
102.5°	0.4	0.5	6.3	16.5	21.0
105°	0.4	0.5	3.8	11.2	15.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.7	3.1	4.5
115°	0.5	0.5	0.7	2.0	2.9
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°	0.4	0.5	2.2	7.6	10.3
110°	0.5	0.5	1.3	4.7	6.9



(END OF REPORT)