

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: P580362

Luminaire Tested: **HVSL2-3-LD4-LO-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580362
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: HVSL2-3-LD4-LO-50-UNV-O-EDD
Description: 3 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

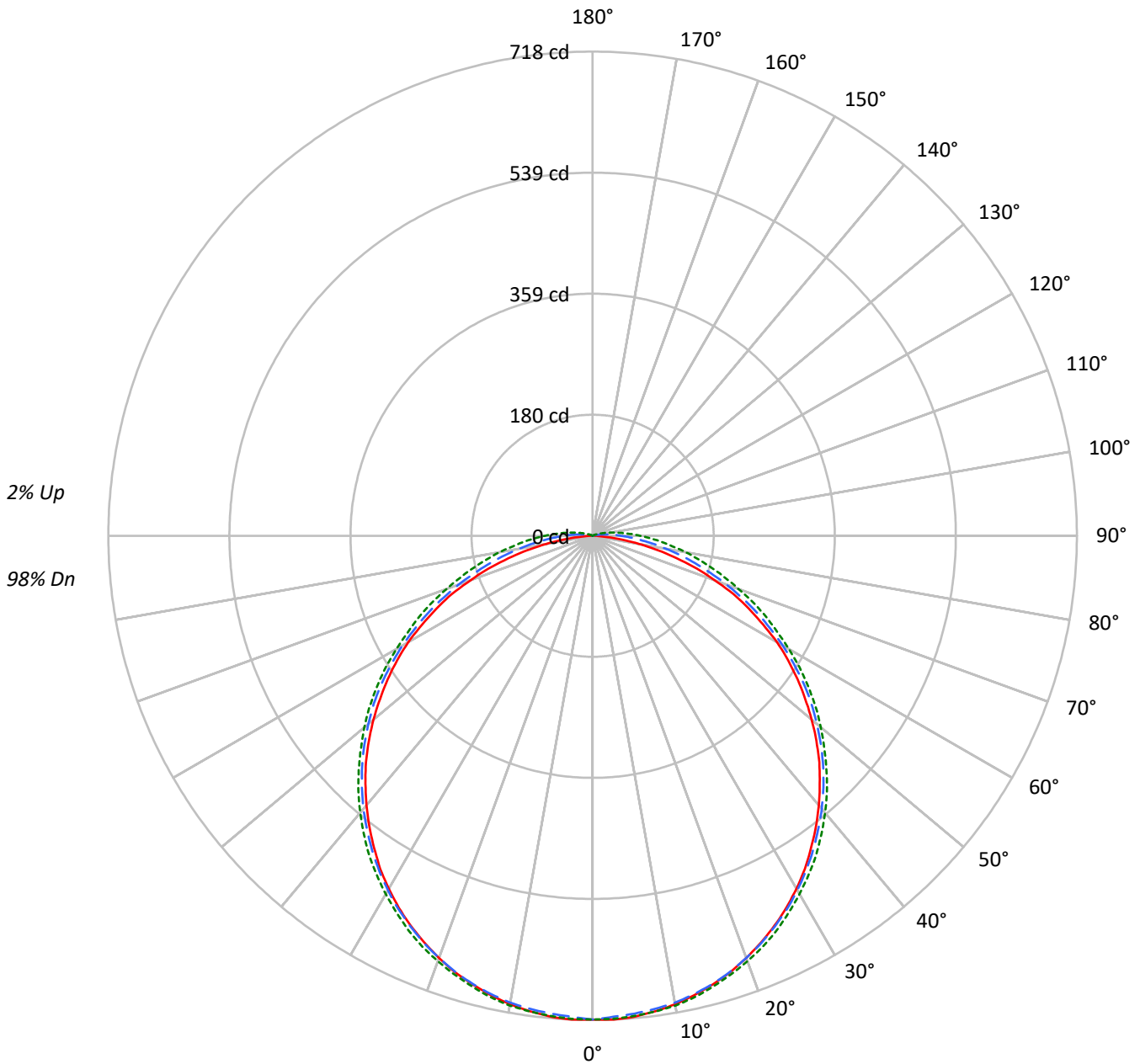
Lumens per Lamp: N/A
Luminaire Lumens: 2169.0 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 17.3
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°	15444	15444	15444
5°	15396	14429	14202
10°	15273	13580	13145
15°	15122	12776	12158
20°	14962	11999	11273
25°	14774	11262	10459
30°	14557	10546	9668
35°	14287	9832	8932
40°	14008	9132	8191
45°	13706	8425	7464
50°	13318	7690	6749
55°	12897	6943	6032
60°	12395	6110	5293
65°	11602	5253	4589
70°	10474	4351	3863
75°	8887	3447	3204
80°	6570	2613	2599
85°	3369	1837	2027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	3.1
10°-20°	194.7	9.0
20°-30°	295.5	13.6
30°-40°	357.3	16.5
40°-50°	372.8	17.2
50°-60°	340.8	15.7
60°-70°	265.7	12.2
70°-80°	166.2	7.7
80°-90°	75.5	3.5
90°-100°	25.3	1.2
100°-110°	6.3	0.3
110°-120°	1.0	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°	558.1	25.7
0°-40°	915.3	42.2
0°-60°	1629.0	75.1
0°-90°	2136.4	98.5
90°-120°	32.7	1.5
90°-150°	32.7	1.5
90°-180°	33.0	1.5
0°-180°	2169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	717	717	717	717	717	
5°	716	714	711	715	715	68
15°	689	690	688	692	692	194
25°	638	639	639	645	646	294
35°	565	567	570	576	578	354
45°	475	479	483	488	490	366
55°	371	375	382	388	390	331
65°	255	259	268	279	283	252
75°	129	137	157	176	182	138
85°	22	41	71	94	102	28
90°	0	15	42	63	70	1
95°	0	4	22	39	45	0
105°	0	0	4	10	14	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	717.4	717.4	717.4	717.4	717.4
2.5°	718.2	717.2	714.0	717.2	717.0
5°	715.9	714.5	711.3	714.7	714.7
7.5°	711.1	710.6	707.7	711.6	711.6
10°	705.5	705.4	703.0	707.2	707.4
12.5°	697.8	698.4	696.2	700.3	700.8
15°	688.6	689.8	687.9	691.8	691.7
17.5°	678.6	679.3	678.0	682.4	682.2
20°	666.3	667.1	666.1	670.7	671.2
22.5°	652.6	653.8	653.6	658.4	659.7
25°	638.1	638.6	639.2	644.7	645.7
27.5°	622.0	622.8	624.0	628.9	629.9
30°	604.4	605.8	607.1	612.2	613.5
32.5°	585.8	587.2	588.8	595.4	596.1
35°	564.8	567.4	569.7	575.5	577.9
37.5°	543.9	547.1	549.3	555.4	557.2
40°	521.7	524.9	528.5	534.9	536.1
42.5°	498.5	502.3	506.5	512.2	514.3
45°	475.2	479.4	483.3	488.1	490.4
47.5°	450.0	454.2	459.0	464.4	465.9
50°	424.0	428.9	433.9	439.0	441.7
52.5°	397.2	403.2	408.9	414.3	416.9
55°	370.9	375.3	382.2	387.8	390.3
57.5°	343.5	347.2	353.4	362.6	363.9
60°	315.6	318.9	325.4	332.8	335.9
62.5°	284.8	289.4	296.1	305.6	308.3
65°	254.9	259.2	268.2	278.9	283.3
67.5°	225.9	227.5	239.0	250.1	257.2
70°	191.8	197.5	210.9	224.6	230.0
72.5°	162.3	168.1	182.8	198.9	205.6
75°	129.0	137.0	156.9	175.7	182.3
77.5°	99.8	108.6	133.3	152.2	159.8
80°	69.7	83.4	110.3	131.6	139.9
82.5°	43.8	60.7	89.5	111.8	119.1
85°	22.3	41.3	70.9	93.7	102.0
87.5°	5.9	26.7	55.1	76.9	85.4
90°	0.2	15.4	41.8	62.7	70.4
92.5°	0.2	8.6	31.1	49.9	57.7
95°	0.2	4.1	21.6	39.2	45.3
97.5°	0.2	1.7	14.9	29.6	35.7
100°	0.2	0.8	9.5	21.5	26.7
102.5°	0.3	0.5	5.9	15.4	19.6
105°	0.3	0.5	3.6	10.5	14.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.7	2.9	4.2
115°	0.5	0.5	0.7	1.9	2.7
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°	0.3	0.5	2.0	7.1	9.6
110°	0.5	0.5	1.2	4.4	6.4



(END OF REPORT)