

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: P580338

Luminaire Tested: **HVSL2-2-LD4-LO-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580338
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: HVSL2-2-LD4-LO-50-UNV-O-EDD
Description: 2 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

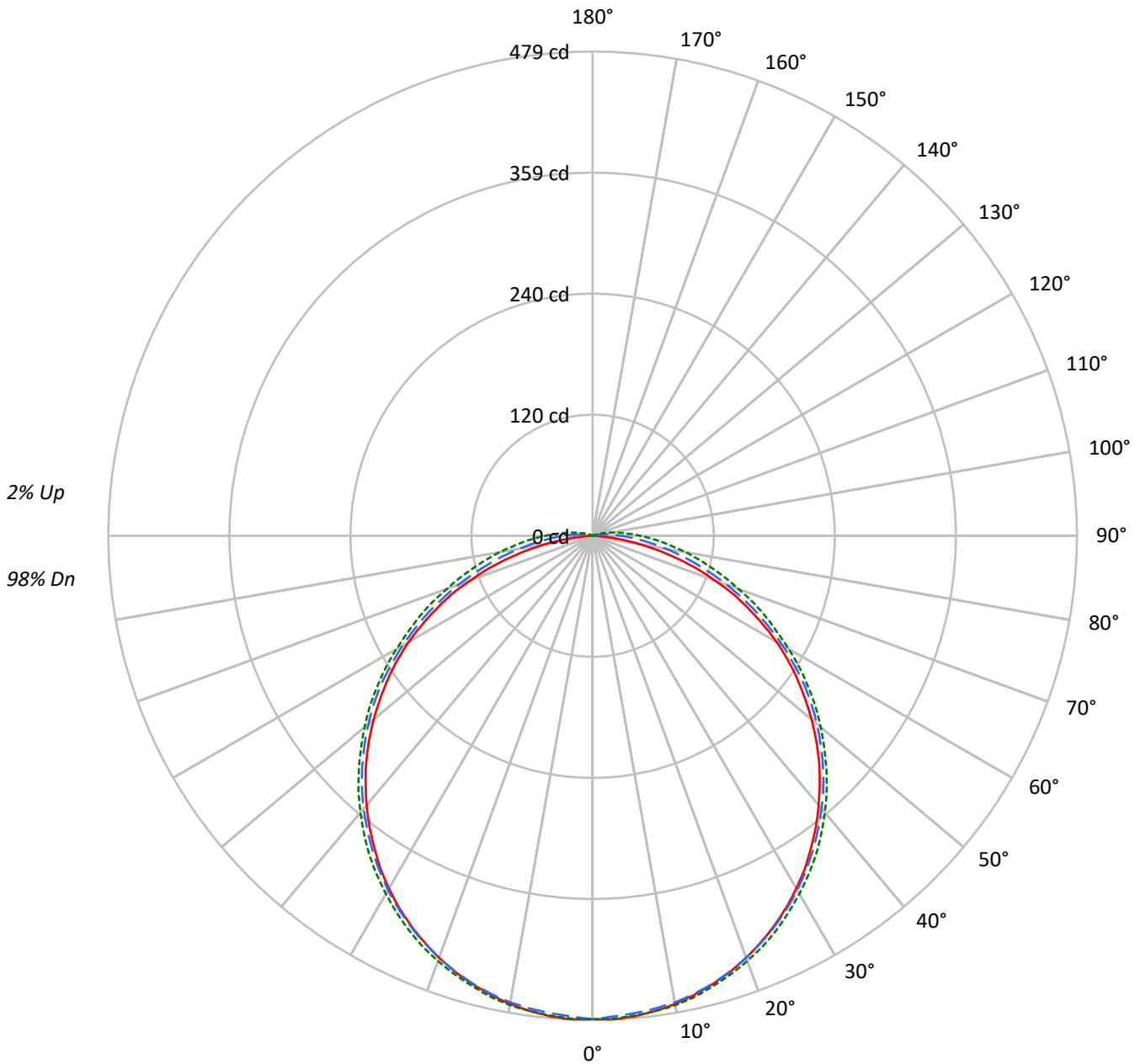
Lumens per Lamp: N/A
Luminaire Lumens: 1445.9 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 11.6
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°	15442	15442	15442
5°	15357	14406	14200
10°	15201	13539	13145
15°	15013	12720	12157
20°	14815	11933	11274
25°	14590	11188	10458
30°	14333	10462	9668
35°	14027	9744	8930
40°	13703	9039	8191
45°	13354	8331	7466
50°	12914	7597	6749
55°	12437	6850	6032
60°	11874	6020	5292
65°	11013	5169	4587
70°	9818	4275	3862
75°	8184	3381	3203
80°	5859	2557	2597
85°	2827	1792	2027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	3.1
10°-20°	129.8	9.0
20°-30°	197.0	13.6
30°-40°	238.2	16.5
40°-50°	248.5	17.2
50°-60°	227.2	15.7
60°-70°	177.1	12.2
70°-80°	110.8	7.7
80°-90°	50.3	3.5
90°-100°	16.9	1.2
100°-110°	4.2	0.3
110°-120°	0.7	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°	372.1	25.7
0°-40°	610.2	42.2
0°-60°	1086.0	75.1
0°-90°	1424.2	98.5
90°-120°	21.7	1.5
90°-150°	21.7	1.5
90°-180°	22.0	1.5
0°-180°	1445.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	477	476	474	476	476	45
15°	459	460	459	461	461	130
25°	425	426	426	430	430	196
35°	377	378	380	384	385	236
45°	317	320	322	325	327	244
55°	247	250	255	258	260	221
65°	170	173	179	186	189	168
75°	86	91	105	117	122	92
85°	15	28	47	62	68	19
90°	0	10	28	42	47	1
95°	0	3	14	26	30	0
105°	0	0	2	7	9	0
115°	0	0	0	1	2	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°	478.2	478.2	478.2	478.2	478.2
2.5°	478.8	478.1	476.0	478.1	478.0
5°	477.2	476.3	474.2	476.4	476.4
7.5°	474.1	473.7	471.8	474.4	474.4
10°	470.4	470.2	468.7	471.5	471.6
12.5°	465.2	465.6	464.2	466.9	467.2
15°	459.1	459.9	458.6	461.2	461.1
17.5°	452.4	452.9	452.0	454.9	454.8
20°	444.2	444.8	444.1	447.1	447.5
22.5°	435.1	435.9	435.7	438.9	439.8
25°	425.4	425.7	426.2	429.8	430.4
27.5°	414.7	415.2	416.0	419.3	420.0
30°	402.9	403.8	404.7	408.1	409.0
32.5°	390.5	391.4	392.6	397.0	397.4
35°	376.6	378.2	379.8	383.7	385.2
37.5°	362.6	364.7	366.2	370.2	371.5
40°	347.8	349.9	352.3	356.6	357.4
42.5°	332.4	334.8	337.7	341.5	342.8
45°	316.8	319.6	322.2	325.4	327.0
47.5°	300.0	302.8	306.0	309.6	310.6
50°	282.6	285.9	289.3	292.7	294.5
52.5°	264.8	268.8	272.6	276.2	277.9
55°	247.2	250.2	254.8	258.5	260.2
57.5°	229.0	231.5	235.6	241.7	242.6
60°	210.4	212.6	216.9	221.9	223.9
62.5°	189.9	192.9	197.4	203.7	205.5
65°	169.9	172.8	178.8	185.9	188.8
67.5°	150.6	151.6	159.3	166.7	171.5
70°	127.8	131.7	140.6	149.7	153.3
72.5°	108.2	112.1	121.9	132.6	137.1
75°	86.0	91.3	104.6	117.1	121.5
77.5°	66.5	72.4	88.8	101.5	106.5
80°	46.4	55.6	73.5	87.7	93.2
82.5°	29.2	40.5	59.6	74.5	79.4
85°	14.9	27.5	47.2	62.5	68.0
87.5°	3.9	17.8	36.8	51.3	56.9
90°	0.1	10.3	27.8	41.8	46.9
92.5°	0.1	5.7	20.7	33.3	38.4
95°	0.1	2.7	14.4	26.2	30.2
97.5°	0.1	1.1	9.9	19.7	23.8
100°	0.1	0.6	6.3	14.3	17.8
102.5°	0.2	0.3	3.9	10.3	13.1
105°	0.2	0.3	2.4	7.0	9.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.5	1.9	2.8
115°	0.3	0.3	0.5	1.2	1.8
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°	0.2	0.3	1.4	4.7	6.4
110°	0.3	0.3	0.8	2.9	4.3



(END OF REPORT)