

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: P580427

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580427
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: HVSL4-1-LD4-1LO-30-UNV-O-EDD-90
Description: 1 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

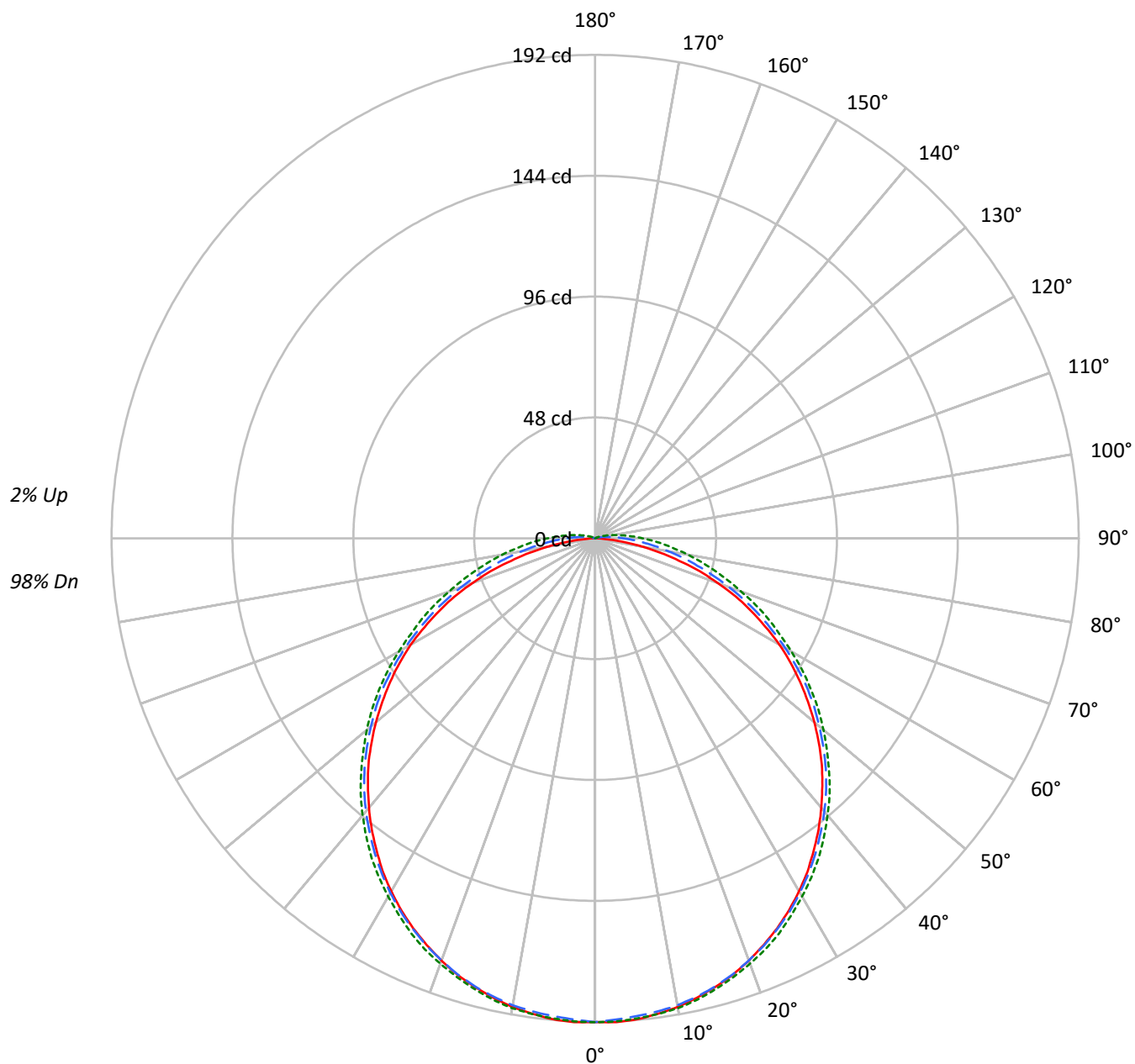
Lumens per Lamp: N/A
Luminaire Lumens: 581.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.17')
CIE Type: Direct

Input Watts (W): 5.8
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°	6206	6206	6206
5°	6128	5930	5944
10°	6020	5700	5710
15°	5904	5470	5463
20°	5783	5233	5227
25°	5650	5000	4998
30°	5507	4766	4754
35°	5341	4523	4520
40°	5166	4277	4264
45°	4983	4019	4000
50°	4761	3737	3724
55°	4515	3445	3435
60°	4235	3100	3115
65°	3844	2728	2798
70°	3328	2324	2450
75°	2661	1899	2124
80°	1788	1493	1818
85°	765	1102	1506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.2	3.1
10°-20°	52.2	9.0
20°-30°	79.1	13.6
30°-40°	95.7	16.5
40°-50°	99.9	17.2
50°-60°	91.3	15.7
60°-70°	71.2	12.2
70°-80°	44.5	7.7
80°-90°	20.2	3.5
90°-100°	6.8	1.2
100°-110°	1.7	0.3
110°-120°	0.3	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°	149.5	25.7
0°-40°	245.2	42.2
0°-60°	436.3	75.1
0°-90°	572.3	98.5
90°-120°	8.7	1.5
90°-150°	8.7	1.5
90°-180°	9.0	1.5
0°-180°	581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	192	192	192	192	192	
5°	192	191	190	191	191	18
15°	184	185	184	185	185	52
25°	171	171	171	173	173	79
35°	151	152	153	154	155	95
45°	127	128	130	131	131	98
55°	99	100	102	104	105	89
65°	68	69	72	75	76	68
75°	35	37	42	47	49	37
85°	6	11	19	25	27	8
90°	0	4	11	17	19	0
95°	0	1	6	10	12	0
105°	0	0	1	3	4	0
115°	0	0	0	0	1	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°	192.2	192.2	192.2	192.2	192.2
2.5°	192.4	192.1	191.3	192.1	192.1
5°	191.8	191.4	190.5	191.4	191.4
7.5°	190.5	190.3	189.6	190.6	190.6
10°	189.0	188.9	188.3	189.4	189.5
12.5°	186.9	187.1	186.5	187.6	187.7
15°	184.5	184.8	184.3	185.3	185.3
17.5°	181.8	182.0	181.6	182.8	182.7
20°	178.5	178.7	178.4	179.7	179.8
22.5°	174.8	175.1	175.1	176.4	176.7
25°	170.9	171.1	171.2	172.7	173.0
27.5°	166.6	166.8	167.2	168.5	168.7
30°	161.9	162.3	162.6	164.0	164.3
32.5°	156.9	157.3	157.7	159.5	159.7
35°	151.3	152.0	152.6	154.2	154.8
37.5°	145.7	146.5	147.1	148.8	149.3
40°	139.7	140.6	141.6	143.3	143.6
42.5°	133.5	134.5	135.7	137.2	137.8
45°	127.3	128.4	129.5	130.7	131.4
47.5°	120.5	121.7	122.9	124.4	124.8
50°	113.6	114.9	116.2	117.6	118.3
52.5°	106.4	108.0	109.5	111.0	111.7
55°	99.3	100.5	102.4	103.9	104.6
57.5°	92.0	93.0	94.7	97.1	97.5
60°	84.5	85.4	87.2	89.1	90.0
62.5°	76.3	77.5	79.3	81.9	82.6
65°	68.3	69.4	71.8	74.7	75.9
67.5°	60.5	60.9	64.0	67.0	68.9
70°	51.4	52.9	56.5	60.2	61.6
72.5°	43.5	45.0	49.0	53.3	55.1
75°	34.6	36.7	42.0	47.1	48.8
77.5°	26.7	29.1	35.7	40.8	42.8
80°	18.7	22.3	29.5	35.2	37.5
82.5°	11.7	16.3	24.0	29.9	31.9
85°	6.0	11.1	19.0	25.1	27.3
87.5°	1.6	7.2	14.8	20.6	22.9
90°	0.0	4.1	11.2	16.8	18.8
92.5°	0.0	2.3	8.3	13.4	15.4
95°	0.0	1.1	5.8	10.5	12.1
97.5°	0.0	0.5	4.0	7.9	9.6
100°	0.0	0.2	2.5	5.8	7.2
102.5°	0.1	0.1	1.6	4.1	5.3
105°	0.1	0.1	1.0	2.8	3.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.1	0.1	0.2	0.8	1.1
115°	0.1	0.1	0.2	0.5	0.7
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°	0.1	0.1	0.5	1.9	2.6
110°	0.1	0.1	0.3	1.2	1.7



(END OF REPORT)