

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: P580142

Luminaire Tested: **HVSL12-2-LD4-2LO-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580142
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: HVSL12-2-LD4-2LO-35-UNV-O-EDD
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

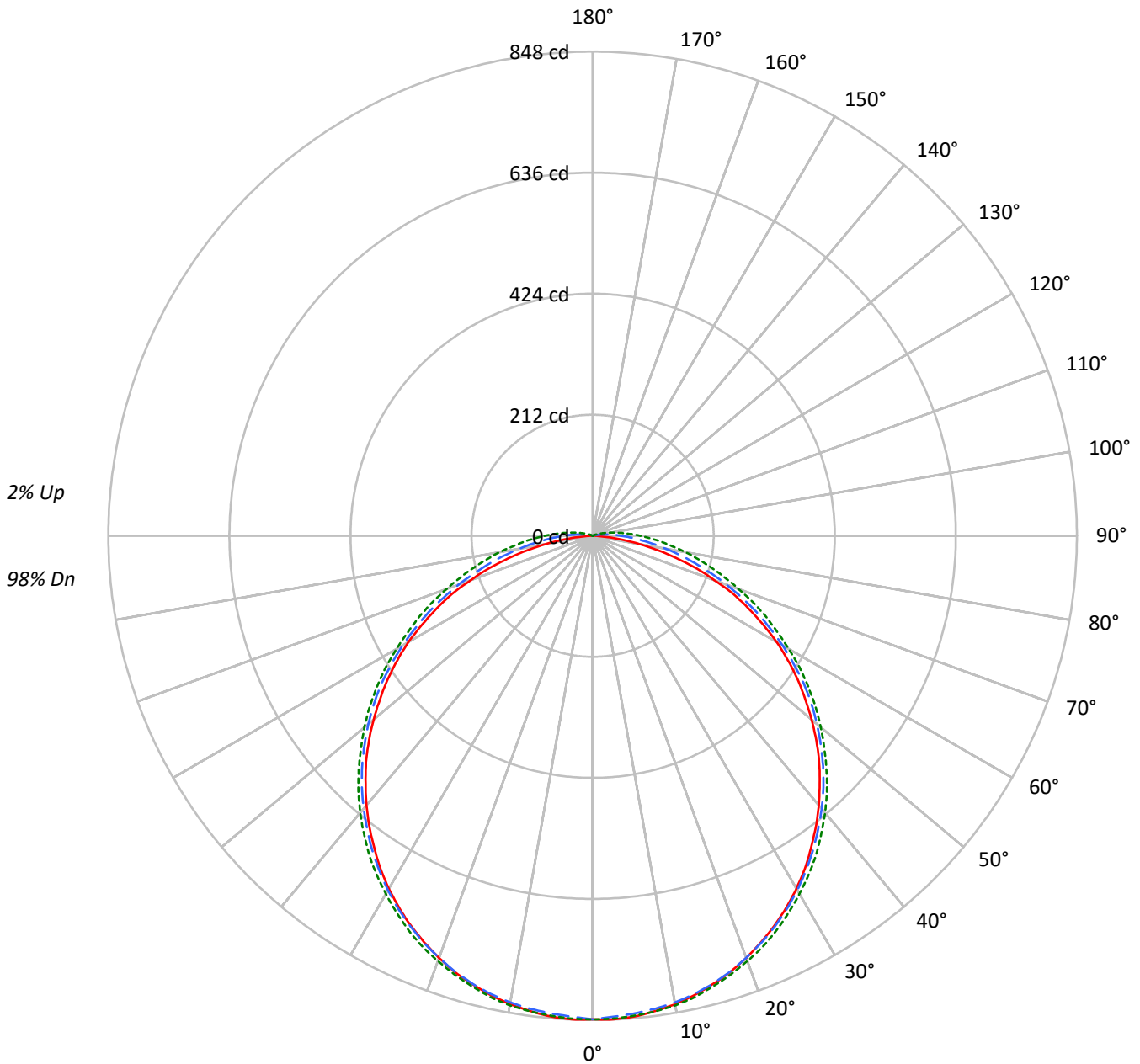
Lumens per Lamp: N/A
Luminaire Lumens: 2561.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 24.4
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°	4559	4559	4559
5°	4533	4468	4493
10°	4486	4399	4434
15°	4431	4321	4356
20°	4373	4232	4279
25°	4307	4141	4201
30°	4231	4042	4107
35°	4140	3933	4014
40°	4045	3818	3902
45°	3942	3691	3778
50°	3813	3544	3643
55°	3672	3381	3493
60°	3505	3166	3313
65°	3251	2924	3138
70°	2899	2637	2931
75°	2417	2321	2760
80°	1732	2015	2630
85°	835	1711	2559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	3.1
10°-20°	229.9	9.0
20°-30°	348.9	13.6
30°-40°	421.8	16.5
40°-50°	440.2	17.2
50°-60°	402.4	15.7
60°-70°	313.7	12.2
70°-80°	196.2	7.7
80°-90°	89.1	3.5
90°-100°	29.9	1.2
100°-110°	7.5	0.3
110°-120°	1.2	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°	658.9	25.7
0°-40°	1080.8	42.2
0°-60°	1923.4	75.1
0°-90°	2522.4	98.5
90°-120°	38.6	1.5
90°-150°	38.6	1.5
90°-180°	39.0	1.5
0°-180°	2561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	847	847	847	847	847	
5°	845	844	840	844	844	80
15°	813	814	812	817	817	230
25°	753	754	755	761	762	347
35°	667	670	673	680	682	417
45°	561	566	571	576	579	432
55°	438	443	451	458	461	391
65°	301	306	317	329	334	298
75°	152	162	185	208	215	162
85°	26	49	84	111	120	33
90°	0	18	49	74	83	1
95°	0	5	26	46	54	0
105°	0	1	4	12	17	0
115°	1	1	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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CATALOG NUMBER: HVSL12-2-LD4-2LO-35-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	847.0	847.0	847.0	847.0	847.0
2.5°	848.0	846.8	843.0	846.8	846.6
5°	845.2	843.6	839.8	843.8	843.8
7.5°	839.6	839.0	835.6	840.2	840.2
10°	833.0	832.8	830.1	835.0	835.2
12.5°	823.9	824.7	822.1	826.9	827.5
15°	813.1	814.5	812.3	816.9	816.7
17.5°	801.3	802.1	800.5	805.7	805.5
20°	786.7	787.7	786.5	791.9	792.5
22.5°	770.5	771.9	771.7	777.3	778.9
25°	753.4	754.0	754.8	761.2	762.4
27.5°	734.4	735.4	736.8	742.6	743.8
30°	713.6	715.2	716.8	722.8	724.4
32.5°	691.7	693.3	695.3	703.1	703.9
35°	666.9	669.9	672.7	679.5	682.3
37.5°	642.2	646.0	648.5	655.7	657.9
40°	616.0	619.8	624.0	631.6	633.0
42.5°	588.6	593.0	598.0	604.8	607.2
45°	561.1	566.1	570.7	576.3	579.1
47.5°	531.3	536.3	541.9	548.3	550.1
50°	500.6	506.4	512.4	518.4	521.6
52.5°	469.0	476.0	482.8	489.2	492.2
55°	437.9	443.1	451.3	457.9	460.9
57.5°	405.5	409.9	417.3	428.1	429.7
60°	372.6	376.6	384.2	393.0	396.6
62.5°	336.3	341.6	349.6	360.8	364.0
65°	300.9	306.1	316.7	329.3	334.5
67.5°	266.8	268.6	282.1	295.3	303.7
70°	226.4	233.2	249.0	265.2	271.6
72.5°	191.7	198.5	215.8	234.8	242.8
75°	152.4	161.7	185.3	207.5	215.3
77.5°	117.8	128.2	157.3	179.7	188.7
80°	82.3	98.4	130.2	155.3	165.1
82.5°	51.7	71.7	105.6	132.0	140.6
85°	26.4	48.7	83.7	110.6	120.4
87.5°	7.0	31.5	65.1	90.9	100.8
90°	0.2	18.2	49.3	74.1	83.1
92.5°	0.2	10.2	36.7	58.9	68.1
95°	0.2	4.8	25.6	46.3	53.5
97.5°	0.2	2.0	17.6	34.9	42.1
100°	0.2	1.0	11.2	25.4	31.5
102.5°	0.4	0.6	7.0	18.2	23.2
105°	0.4	0.6	4.2	12.4	16.6



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CATALOG NUMBER: HVSL12-2-LD4-2LO-35-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.8	3.4	5.0
115°	0.6	0.6	0.8	2.2	3.2
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	0.6	2.4	8.4	11.4
110°	0.6	0.6	1.4	5.2	7.6



(END OF REPORT)