

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: P580534

Luminaire Tested: **HVSL4-3-LD4-1STD-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580534
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: HVSL4-3-LD4-1STD-35-UNV-O-EDD
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

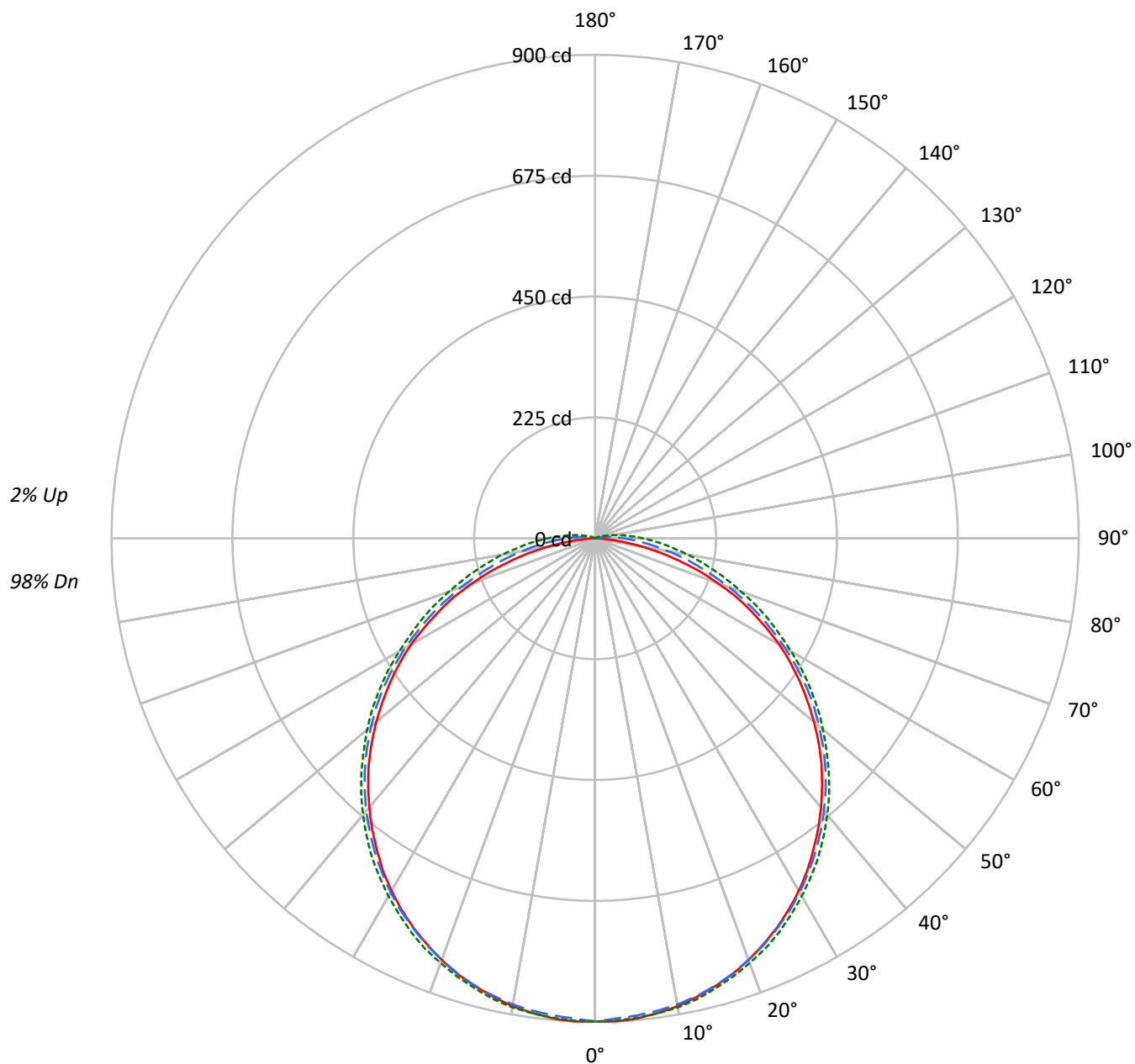
Lumens per Lamp: N/A
Luminaire Lumens: 2718.9 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 24.5
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°	9680	9680	9680
5°	9650	9314	9274
10°	9573	9008	8907
15°	9478	8695	8521
20°	9378	8368	8154
25°	9260	8043	7795
30°	9125	7711	7418
35°	8956	7360	7050
40°	8780	7001	6651
45°	8591	6622	6239
50°	8348	6204	5810
55°	8083	5759	5357
60°	7769	5225	4857
65°	7271	4647	4364
70°	6564	4001	3822
75°	5573	3317	3315
80°	4115	2654	2833
85°	2115	1997	2350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	3.1
10°-20°	244.1	9.0
20°-30°	370.4	13.6
30°-40°	447.9	16.5
40°-50°	467.3	17.2
50°-60°	427.3	15.7
60°-70°	333.1	12.2
70°-80°	208.4	7.7
80°-90°	94.6	3.5
90°-100°	31.7	1.2
100°-110°	8.0	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°	699.6	25.7
0°-40°	1147.5	42.2
0°-60°	2042.0	75.1
0°-90°	2678.0	98.5
90°-120°	40.9	1.5
90°-150°	40.9	1.5
90°-180°	41.0	1.5
0°-180°	2718.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	897	896	892	896	896	85
15°	863	865	862	867	867	244
25°	800	800	801	808	809	369
35°	708	711	714	721	724	443
45°	596	601	606	612	615	459
55°	465	470	479	486	489	415
65°	320	325	336	350	355	316
75°	162	172	197	220	228	172
85°	28	52	89	117	128	35
90°	0	19	52	79	88	1
95°	0	5	27	49	57	0
105°	0	1	4	13	18	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	899.3	899.3	899.3	899.3	899.3
2.5°	900.3	899.1	895.0	899.1	898.9
5°	897.4	895.7	891.6	895.9	895.9
7.5°	891.4	890.8	887.2	892.1	892.1
10°	884.4	884.2	881.3	886.6	886.8
12.5°	874.7	875.5	872.8	877.9	878.5
15°	863.2	864.7	862.4	867.3	867.1
17.5°	850.7	851.6	849.9	855.4	855.2
20°	835.3	836.3	835.0	840.8	841.4
22.5°	818.1	819.6	819.4	825.3	827.0
25°	799.9	800.5	801.3	808.1	809.4
27.5°	779.7	780.8	782.3	788.4	789.7
30°	757.7	759.4	761.1	767.4	769.1
32.5°	734.3	736.0	738.2	746.4	747.3
35°	708.1	711.2	714.2	721.4	724.4
37.5°	681.8	685.8	688.6	696.2	698.5
40°	654.0	658.0	662.5	670.5	672.0
42.5°	625.0	629.6	634.9	642.1	644.7
45°	595.7	601.0	605.9	611.8	614.8
47.5°	564.1	569.4	575.4	582.1	584.0
50°	531.5	537.6	544.0	550.3	553.7
52.5°	498.0	505.4	512.6	519.4	522.6
55°	464.9	470.4	479.1	486.1	489.3
57.5°	430.6	435.2	443.1	454.5	456.2
60°	395.6	399.8	407.9	417.2	421.0
62.5°	357.0	362.7	371.2	383.1	386.5
65°	319.5	325.0	336.2	349.6	355.1
67.5°	283.2	285.1	299.5	313.5	322.4
70°	240.4	247.6	264.4	281.5	288.3
72.5°	203.5	210.7	229.2	249.3	257.8
75°	161.8	171.7	196.7	220.3	228.5
77.5°	125.1	136.1	167.1	190.8	200.3
80°	87.3	104.5	138.2	164.9	175.3
82.5°	54.9	76.1	112.1	140.1	149.2
85°	28.0	51.7	88.8	117.4	127.8
87.5°	7.4	33.5	69.1	96.5	107.1
90°	0.2	19.3	52.4	78.6	88.2
92.5°	0.2	10.8	39.0	62.5	72.3
95°	0.2	5.1	27.1	49.2	56.8
97.5°	0.2	2.1	18.7	37.1	44.7
100°	0.2	1.1	11.9	26.9	33.5
102.5°	0.4	0.6	7.4	19.3	24.6
105°	0.4	0.6	4.5	13.1	17.6



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CATALOG NUMBER: HVSL4-3-LD4-1STD-35-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.8	3.6	5.3
115°	0.6	0.6	0.8	2.3	3.4
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	2.5	8.9	12.1
110°	0.6	0.6	1.5	5.5	8.1



(END OF REPORT)