

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: P580657

Luminaire Tested: **HVSL4-8-LD4-2STD-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580657
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: HVSL4-8-LD4-2STD-50-UNV-O-EDD-90
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

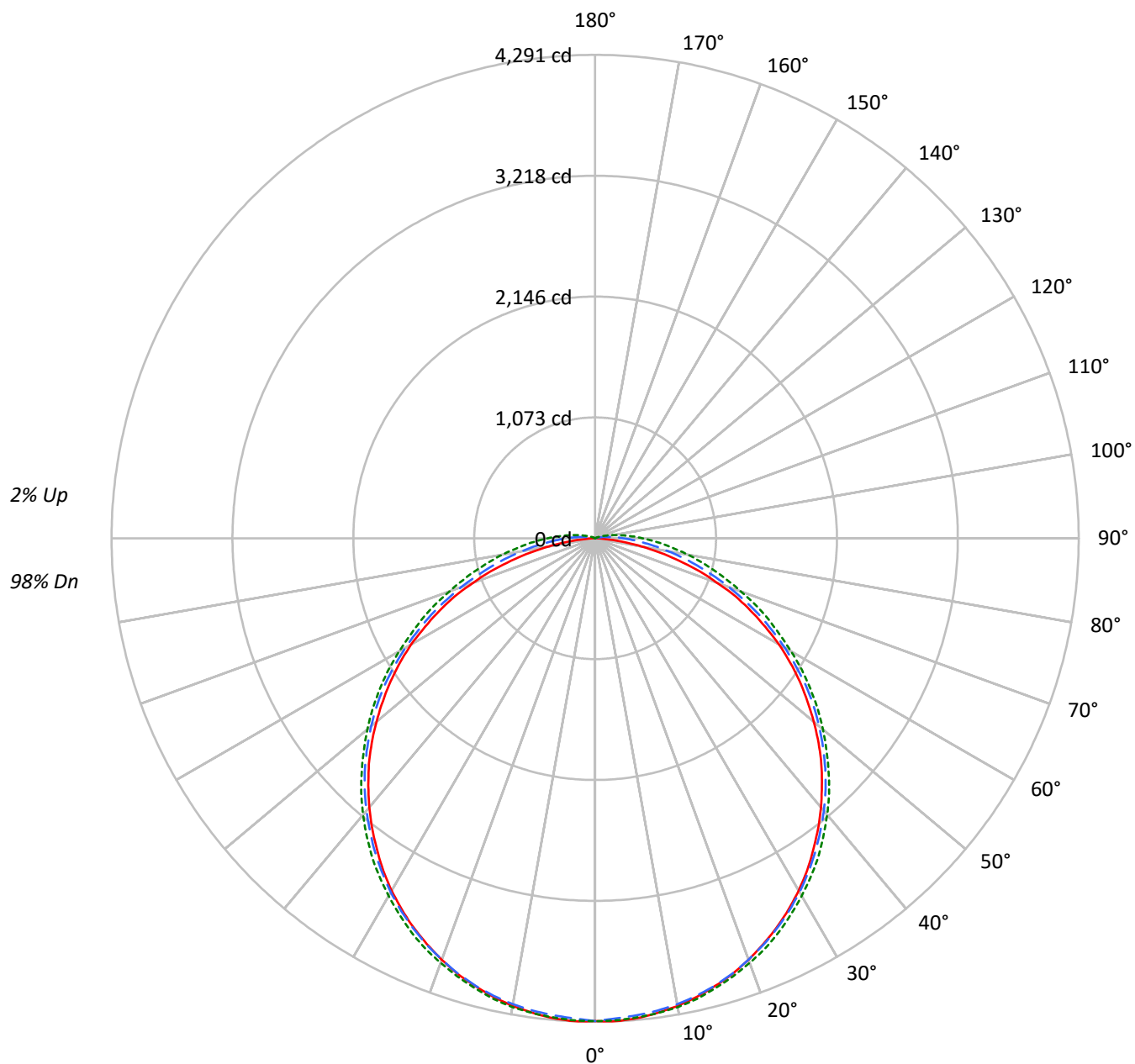
Lumens per Lamp: N/A
Luminaire Lumens: 12959.0 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 130.8
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°	17301	17301	17301
5°	17298	16682	16576
10°	17214	16166	15919
15°	17098	15633	15228
20°	16971	15075	14573
25°	16815	14517	13932
30°	16631	13942	13258
35°	16390	13334	12600
40°	16142	12709	11888
45°	15877	12047	11150
50°	15521	11314	10384
55°	15143	10530	9574
60°	14691	9581	8680
65°	13921	8551	7800
70°	12790	7391	6831
75°	11155	6158	5926
80°	8654	4957	5063
85°	4990	3763	4202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.6	3.1
10°-20°	1163.4	9.0
20°-30°	1765.3	13.6
30°-40°	2134.5	16.5
40°-50°	2227.2	17.2
50°-60°	2036.3	15.7
60°-70°	1587.5	12.2
70°-80°	993.0	7.7
80°-90°	451.0	3.5
90°-100°	151.2	1.2
100°-110°	37.9	0.3
110°-120°	6.0	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°	3334.3	25.7
0°-40°	5468.8	42.2
0°-60°	9732.4	75.1
0°-90°	12763.9	98.5
90°-120°	195.1	1.5
90°-150°	195.1	1.5
90°-180°	195.0	1.5
0°-180°	12959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4286	4286	4286	4286	4286	
5°	4277	4269	4250	4270	4270	406
15°	4114	4121	4110	4134	4132	1161
25°	3812	3815	3819	3852	3858	1757
35°	3375	3390	3404	3438	3452	2112
45°	2839	2864	2888	2916	2930	2188
55°	2216	2242	2284	2317	2332	1980
65°	1523	1549	1602	1666	1692	1507
75°	771	818	938	1050	1089	822
85°	133	246	423	560	609	169
90°	1	92	250	375	420	5
95°	1	24	129	234	271	1
105°	2	3	21	63	84	2
115°	3	3	4	11	16	2
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°	4286.1	4286.1	4286.1	4286.1	4286.1
2.5°	4291.1	4285.0	4265.8	4285.0	4284.0
5°	4277.0	4268.9	4249.7	4269.9	4269.9
7.5°	4248.7	4245.6	4228.5	4251.7	4251.7
10°	4215.3	4214.3	4200.2	4225.4	4226.4
12.5°	4168.8	4172.9	4159.8	4184.0	4187.0
15°	4114.3	4121.4	4110.2	4133.5	4132.5
17.5°	4054.7	4058.7	4050.6	4076.9	4075.9
20°	3980.9	3986.0	3979.9	4007.2	4010.2
22.5°	3899.1	3906.1	3905.1	3933.4	3941.5
25°	3812.2	3815.2	3819.3	3851.6	3857.7
27.5°	3716.2	3721.2	3728.3	3757.6	3763.7
30°	3611.1	3619.2	3627.3	3657.6	3665.7
32.5°	3500.0	3508.1	3518.2	3557.6	3561.6
35°	3374.7	3389.8	3404.0	3438.3	3452.5
37.5°	3249.4	3268.6	3281.7	3318.1	3329.2
40°	3117.0	3136.2	3157.5	3195.8	3202.9
42.5°	2978.6	3000.8	3026.1	3060.5	3072.6
45°	2839.2	2864.4	2887.7	2916.0	2930.1
47.5°	2688.6	2713.9	2742.2	2774.5	2783.6
50°	2533.0	2562.3	2592.6	2623.0	2639.1
52.5°	2373.4	2408.8	2443.1	2475.4	2490.6
55°	2215.8	2242.0	2283.5	2316.8	2332.0
57.5°	2052.1	2074.3	2111.7	2166.3	2174.3
60°	1885.4	1905.6	1944.0	1988.4	2006.6
62.5°	1701.5	1728.8	1769.2	1825.8	1841.9
65°	1522.7	1548.9	1602.5	1666.1	1692.4
67.5°	1349.9	1359.0	1427.7	1494.4	1536.8
70°	1145.8	1180.1	1260.0	1341.8	1374.1
72.5°	970.0	1004.3	1092.2	1188.2	1228.6
75°	770.9	818.4	937.6	1049.8	1089.2
77.5°	596.1	648.7	796.2	909.3	954.8
80°	416.3	498.1	658.8	786.1	835.6
82.5°	261.7	362.7	534.5	667.9	711.3
85°	133.4	246.5	423.4	559.8	609.3
87.5°	35.4	159.6	329.4	459.7	510.2
90°	1.0	91.9	249.6	374.9	420.3
92.5°	1.0	51.5	185.9	298.1	344.5
95°	1.0	24.2	129.3	234.4	270.8
97.5°	1.0	10.1	88.9	176.8	213.2
100°	1.0	5.1	56.6	128.3	159.6
102.5°	2.0	3.0	35.4	91.9	117.2
105°	2.0	3.0	21.2	62.6	83.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	3.0	4.0	17.2	25.3
115°	3.0	3.0	4.0	11.1	16.2
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°	2.0	3.0	12.1	42.4	57.6
110°	3.0	3.0	7.1	26.3	38.4



(END OF REPORT)