

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: P580658

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580658
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
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

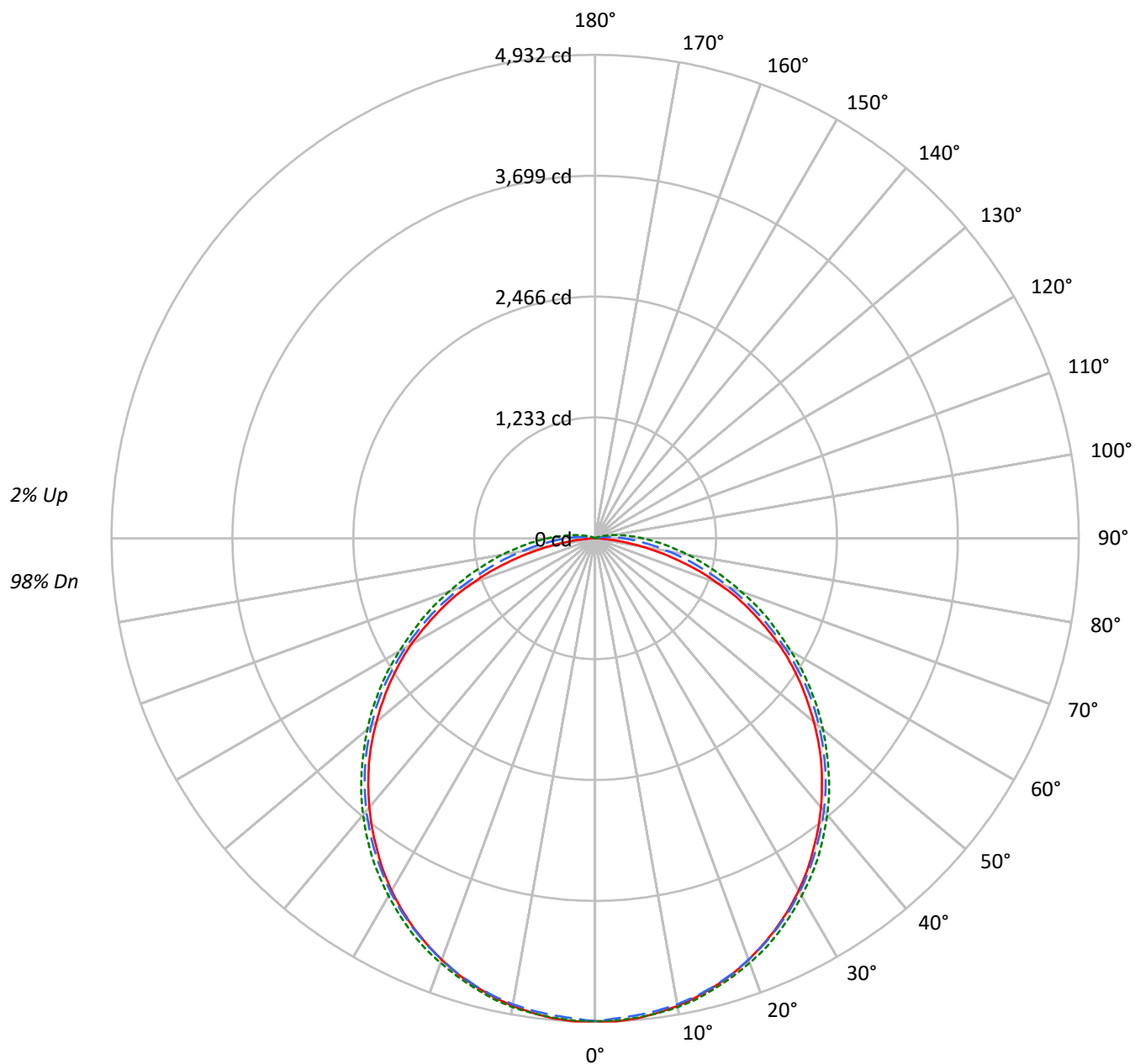
Lumens per Lamp: N/A
Luminaire Lumens: 14896.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

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			0
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°	19886	19886	19886
5°	19884	19175	19053
10°	19787	18582	18299
15°	19653	17970	17505
20°	19508	17328	16751
25°	19329	16686	16015
30°	19117	16025	15239
35°	18840	15327	14484
40°	18555	14609	13665
45°	18250	13847	12817
50°	17841	13005	11936
55°	17406	12104	11004
60°	16886	11013	9978
65°	16001	9829	8965
70°	14701	8495	7852
75°	12824	7078	6812
80°	9947	5698	5820
85°	5734	4325	4829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.2	3.1
10°-20°	1337.3	9.0
20°-30°	2029.2	13.6
30°-40°	2453.6	16.5
40°-50°	2560.1	17.2
50°-60°	2340.7	15.7
60°-70°	1824.7	12.2
70°-80°	1141.4	7.7
80°-90°	518.4	3.5
90°-100°	173.8	1.2
100°-110°	43.6	0.3
110°-120°	6.9	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°	3832.7	25.7
0°-40°	6286.3	42.2
0°-60°	11187.2	75.1
0°-90°	14671.7	98.5
90°-120°	224.2	1.5
90°-150°	224.2	1.5
90°-180°	224.0	1.5
0°-180°	14896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4927	4927	4927	4927	4927	
5°	4916	4907	4885	4908	4908	467
15°	4729	4737	4725	4751	4750	1335
25°	4382	4386	4390	4427	4434	2019
35°	3879	3896	3913	3952	3968	2428
45°	3264	3293	3319	3352	3368	2515
55°	2547	2577	2625	2663	2680	2275
65°	1750	1780	1842	1915	1945	1732
75°	886	941	1078	1207	1252	945
85°	153	283	487	643	700	194
90°	1	106	287	431	483	6
95°	1	28	149	269	311	1
105°	2	4	24	72	96	2
115°	4	4	5	13	19	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°	4926.7	4926.7	4926.7	4926.7	4926.7
2.5°	4932.5	4925.5	4903.5	4925.5	4924.4
5°	4916.2	4907.0	4884.9	4908.1	4908.1
7.5°	4883.7	4880.2	4860.5	4887.2	4887.2
10°	4845.4	4844.2	4828.0	4857.0	4858.2
12.5°	4792.0	4796.6	4781.5	4809.4	4812.9
15°	4729.3	4737.4	4724.6	4751.3	4750.2
17.5°	4660.7	4665.4	4656.1	4686.3	4685.1
20°	4576.0	4581.8	4574.8	4606.1	4609.6
22.5°	4481.9	4490.0	4488.8	4521.4	4530.7
25°	4382.0	4385.5	4390.1	4427.3	4434.3
27.5°	4271.7	4277.5	4285.6	4319.3	4326.2
30°	4150.9	4160.2	4169.5	4204.3	4213.6
32.5°	4023.1	4032.4	4044.0	4089.3	4094.0
35°	3879.1	3896.5	3912.8	3952.3	3968.5
37.5°	3735.1	3757.2	3772.3	3814.1	3826.8
40°	3582.9	3605.0	3629.4	3673.5	3681.7
42.5°	3423.8	3449.4	3478.4	3517.9	3531.8
45°	3263.6	3292.6	3319.3	3351.8	3368.1
47.5°	3090.5	3119.5	3152.1	3189.2	3199.7
50°	2911.7	2945.3	2980.2	3015.0	3033.6
52.5°	2728.1	2768.8	2808.3	2845.5	2862.9
55°	2547.0	2577.2	2624.8	2663.1	2680.5
57.5°	2358.8	2384.4	2427.3	2490.1	2499.4
60°	2167.2	2190.4	2234.6	2285.7	2306.6
62.5°	1955.8	1987.2	2033.6	2098.7	2117.2
65°	1750.2	1780.4	1842.0	1915.2	1945.4
67.5°	1551.6	1562.1	1641.1	1717.7	1766.5
70°	1317.0	1356.5	1448.3	1542.4	1579.5
72.5°	1115.0	1154.4	1255.5	1365.8	1412.3
75°	886.2	940.7	1077.8	1206.7	1252.0
77.5°	685.2	745.6	915.2	1045.3	1097.5
80°	478.5	572.6	757.2	903.6	960.5
82.5°	300.8	416.9	614.4	767.7	817.6
85°	153.3	283.4	486.6	643.4	700.3
87.5°	40.6	183.5	378.6	528.4	586.5
90°	1.2	105.7	286.9	430.9	483.1
92.5°	1.2	59.2	213.7	342.6	396.0
95°	1.2	27.9	148.7	269.4	311.3
97.5°	1.2	11.6	102.2	203.2	245.1
100°	1.2	5.8	65.0	147.5	183.5
102.5°	2.3	3.5	40.6	105.7	134.7
105°	2.3	3.5	24.4	72.0	96.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.5	3.5	4.6	19.7	29.0
115°	3.5	3.5	4.6	12.8	18.6
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°	2.3	3.5	13.9	48.8	66.2
110°	3.5	3.5	8.1	30.2	44.1



(END OF REPORT)