

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: METALUX

Report Number: P565434

Luminaire Tested: **VHB-12-N-UNV-L950-CD1-U**

Issue Date: 9/7/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P565434  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-491-2)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 9/7/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VHB-12-N-UNV-L950-CD1-U  
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 5000K, 90 CRI LEDS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

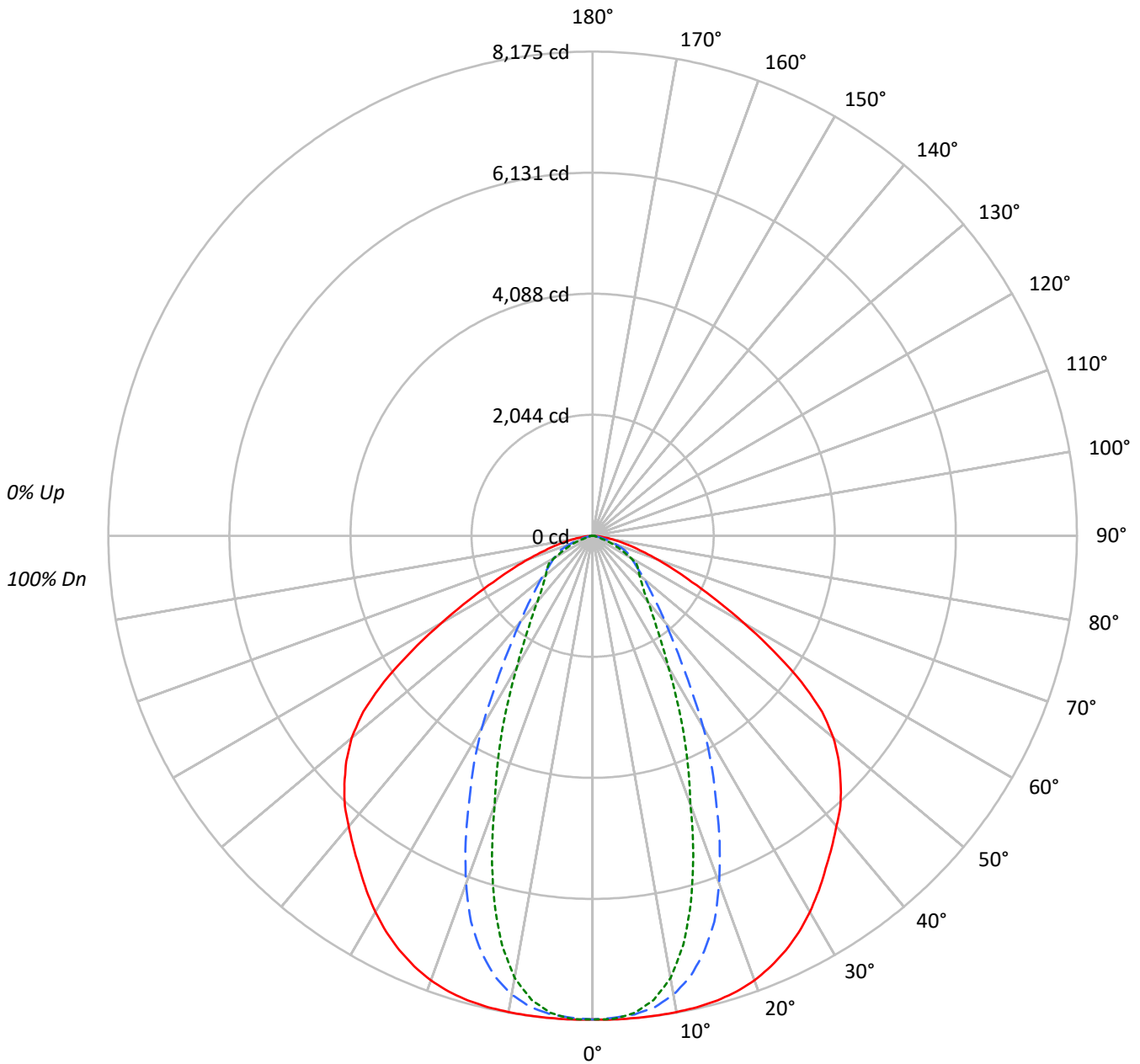
Lumens per Lamp: N/A  
Luminaire Lumens: 11518.0 lumens  
Efficiency: N/A  
Efficacy: 132.4 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86  
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 87  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69								
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62								
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55								
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50								
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46								
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42								
9	65	53	46	41	63	52	45	41	51	45	41	50	44	40	49	44	40	39								
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	50235	50235	50235
5°	50470	50087	49943
10°	51000	49127	47333
15°	51728	46286	40812
20°	52285	40891	31598
25°	52390	33391	24484
30°	52096	26520	18121
35°	51502	19651	14092
40°	51420	15260	11630
45°	51528	12559	10330
50°	50798	10863	9853
55°	46115	9682	9956
60°	36255	9253	9071
65°	26928	8968	6826
70°	20652	7181	4167
75°	15720	5119	2300
80°	11544	2380	1860
85°	7227	2047	1651



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	767.3	6.7
10°-20°	2019.9	17.5
20°-30°	2439.3	21.2
30°-40°	2181.0	18.9
40°-50°	1707.9	14.8
50°-60°	1290.4	11.2
60°-70°	766.4	6.7
70°-80°	294.5	2.6
80°-90°	51.2	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	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°	5226.5	45.4
0°-40°	7407.5	64.3
0°-60°	10405.9	90.3
0°-90°	11518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11518.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8167	8167	8167	8167	8167	
5°	8174	8139	8112	8102	8089	780
15°	8123	7856	7269	6661	6409	2295
25°	7720	6812	4920	3879	3608	3554
35°	6859	4881	2617	2041	1877	4301
45°	5924	2524	1444	1220	1188	4560
55°	4300	1369	903	899	928	3776
65°	1850	769	616	514	469	1906
75°	662	370	215	106	97	724
85°	102	36	29	26	23	136
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8167.2	8167.2	8167.2	8167.2	8167.2
2.5°	8174.8	8147.8	8145.8	8163.1	8165.7
5°	8174.3	8138.7	8112.2	8101.5	8088.8
7.5°	8171.8	8117.8	8028.7	7943.1	7903.4
10°	8165.7	8069.9	7865.7	7671.2	7578.5
12.5°	8152.4	7984.4	7623.8	7266.3	7071.7
15°	8123.4	7855.5	7268.8	6661.3	6409.2
17.5°	8070.9	7677.8	6833.9	5976.3	5651.9
20°	7987.9	7451.7	6247.2	5195.1	4827.4
22.5°	7868.8	7156.3	5601.0	4491.8	4197.9
25°	7719.5	6811.5	4920.1	3879.1	3607.7
27.5°	7542.3	6409.2	4333.4	3308.7	3041.4
30°	7335.0	5939.1	3734.0	2769.9	2551.4
32.5°	7103.3	5444.1	3108.1	2358.9	2179.2
35°	6858.9	4880.9	2617.1	2040.7	1876.7
37.5°	6628.7	4277.9	2216.3	1759.0	1643.9
40°	6404.1	3644.3	1900.6	1536.5	1448.4
42.5°	6192.2	3038.3	1659.2	1350.1	1292.5
45°	5923.8	2523.9	1443.8	1219.7	1187.6
47.5°	5639.2	2130.3	1272.7	1113.8	1102.6
50°	5308.6	1814.5	1135.2	1021.6	1029.7
52.5°	4879.8	1565.0	1004.8	956.4	980.3
55°	4300.3	1369.4	902.9	899.4	928.4
57.5°	3621.4	1182.5	822.5	844.9	877.5
60°	2947.2	1032.3	752.2	784.8	737.4
62.5°	2354.4	894.3	685.5	625.9	585.2
65°	1850.2	769.0	616.2	513.9	469.0
67.5°	1475.4	652.4	518.4	408.9	371.8
70°	1148.4	548.5	399.3	307.1	231.7
72.5°	880.0	458.3	311.7	174.7	131.9
75°	661.5	369.7	215.4	106.4	96.8
77.5°	471.6	274.5	115.1	76.9	71.3
80°	325.9	176.2	67.2	55.5	52.5
82.5°	202.2	85.0	45.8	39.7	37.2
85°	102.4	35.6	29.0	25.5	23.4
87.5°	34.1	17.3	13.2	12.2	11.2
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)