

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: P565440

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

Issue Date: 9/7/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P565440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-491-3)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 9/7/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VHB-12-W-UNV-L950-CD1-U  
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 5000K, 90 CRI LEDS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

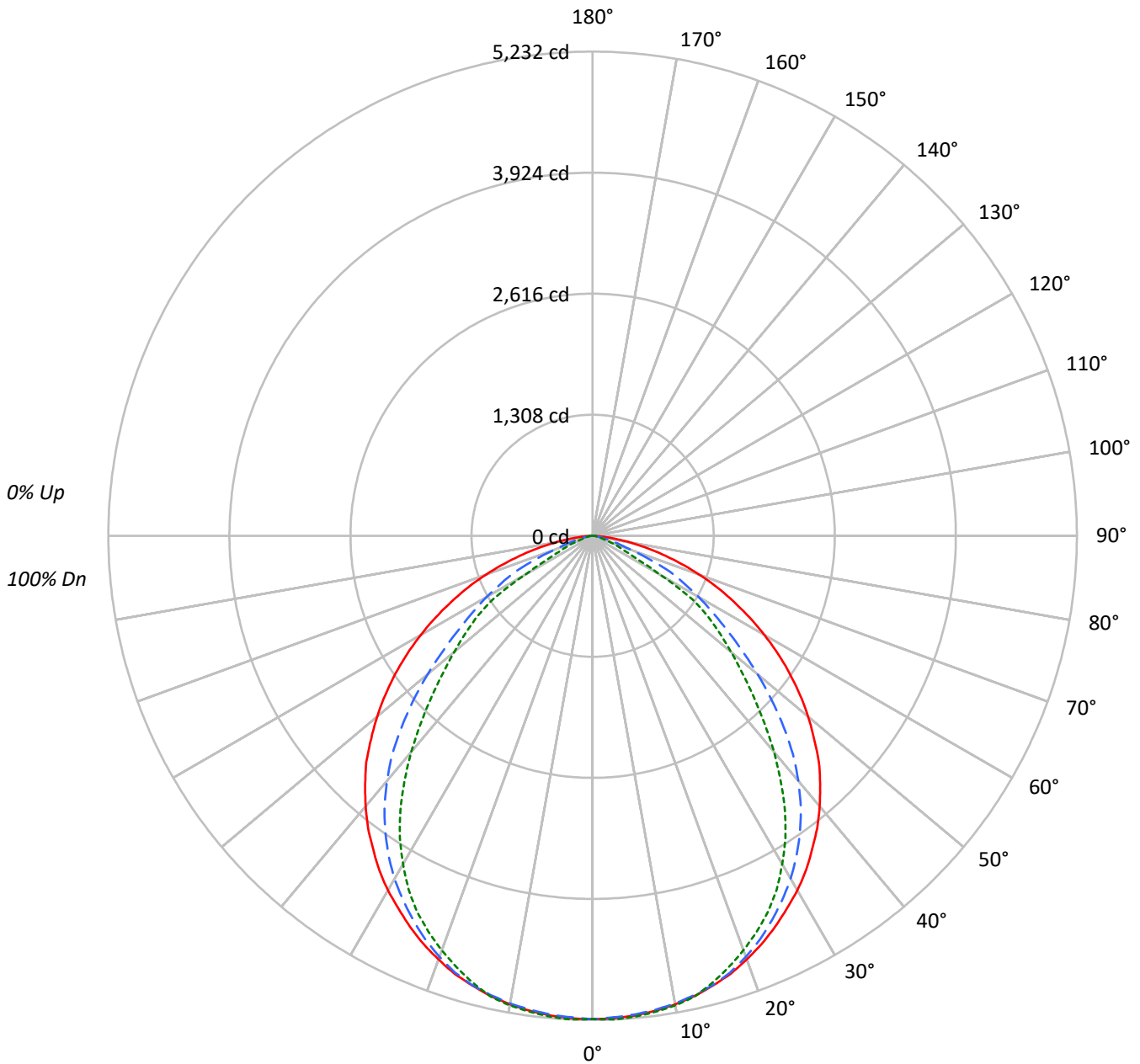
Lumens per Lamp: N/A  
Luminaire Lumens: 11747.0 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28  
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 87  
Input Voltage (V): NR  
Input Current (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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89				87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77				75
3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67				65
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59				57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52				50
6	74	62	53	48	72	61	53	47	59	52	47	57	51	47	56	50	46				44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41				39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37				36
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34				32
10	57	44	36	31	55	43	36	31	42	36	31	42	35	31	41	35	31				29

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

	0°	45°	90°
0°	32124	32124	32124
5°	32129	32063	32210
10°	32117	32048	32180
15°	32041	32007	31842
20°	31886	31689	31193
25°	31650	31111	30429
30°	31420	30394	29095
35°	31045	29329	27204
40°	30637	27752	24477
45°	30080	25381	21387
50°	29085	22221	18683
55°	27897	18929	16308
60°	26355	16236	10412
65°	24420	13543	5520
70°	22043	7695	3577
75°	18518	4715	2224
80°	14073	2380	1948
85°	8546	2167	1757



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.5	4.2
10°-20°	1414.6	12.0
20°-30°	2108.8	18.0
30°-40°	2428.6	20.7
40°-50°	2260.2	19.2
50°-60°	1719.8	14.6
60°-70°	923.2	7.9
70°-80°	339.6	2.9
80°-90°	57.8	0.5
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°	4017.9	34.2
0°-40°	6446.4	54.9
0°-60°	10426.4	88.8
0°-90°	11747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11747.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5223	5223	5223	5223	5223	
5°	5204	5189	5193	5211	5217	495
15°	5032	5024	5026	5017	5000	1420
25°	4664	4660	4584	4519	4484	2150
35°	4134	4084	3906	3710	3623	2588
45°	3458	3291	2918	2571	2459	2657
55°	2602	2307	1765	1572	1521	2324
65°	1678	1232	930	461	379	1664
75°	779	510	198	103	94	835
85°	121	39	31	26	25	161
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5222.7	5222.7	5222.7	5222.7	5222.7
2.5°	5219.0	5203.1	5208.4	5225.3	5232.2
5°	5203.6	5188.8	5193.0	5211.0	5216.8
7.5°	5178.2	5164.0	5167.1	5184.1	5189.9
10°	5142.3	5127.5	5131.2	5147.6	5152.3
12.5°	5093.6	5079.8	5083.0	5094.7	5099.9
15°	5031.7	5023.8	5026.4	5016.9	5000.5
17.5°	4962.4	4950.8	4947.6	4905.3	4887.8
20°	4871.4	4867.2	4841.3	4788.9	4765.6
22.5°	4775.7	4767.7	4722.8	4659.8	4631.8
25°	4663.5	4659.8	4584.2	4519.1	4483.7
27.5°	4542.9	4533.9	4436.6	4355.1	4307.0
30°	4423.9	4401.7	4279.5	4165.2	4096.5
32.5°	4289.0	4247.2	4101.2	3955.2	3875.9
35°	4134.5	4084.3	3906.0	3709.8	3623.0
37.5°	3984.8	3909.2	3694.4	3449.0	3337.9
40°	3815.6	3707.1	3456.4	3171.3	3048.5
42.5°	3637.3	3505.1	3203.0	2871.3	2745.4
45°	3458.0	3291.3	2917.9	2571.4	2458.7
47.5°	3244.8	3068.1	2621.6	2285.2	2188.4
50°	3039.5	2833.2	2322.2	2018.6	1952.5
52.5°	2824.8	2574.6	2031.3	1793.3	1729.3
55°	2601.5	2307.4	1765.2	1571.6	1520.8
57.5°	2377.3	2032.9	1529.3	1370.1	1279.1
60°	2142.4	1760.5	1319.8	1113.5	846.4
62.5°	1911.2	1476.9	1110.9	698.3	538.5
65°	1677.9	1232.5	930.5	460.7	379.3
67.5°	1455.2	996.1	663.9	333.8	284.1
70°	1225.7	814.6	427.9	239.1	198.9
72.5°	995.5	655.4	293.6	157.1	127.5
75°	779.2	510.5	198.4	102.6	93.6
77.5°	584.0	352.3	110.6	76.2	71.4
80°	397.3	211.1	67.2	58.2	55.0
82.5°	238.0	101.0	48.7	42.8	41.3
85°	121.1	39.1	30.7	26.4	24.9
87.5°	36.0	19.6	13.8	10.6	10.1
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)