

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: P565435

Luminaire Tested: **VHB-12-W-UNV-L735-CD1-U**

Issue Date: 9/7/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P565435  
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-L735-CD1-U  
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 3500K, 70 CRI LEDS

Light Source: -  
Ballast/Driver: -

**Summary**

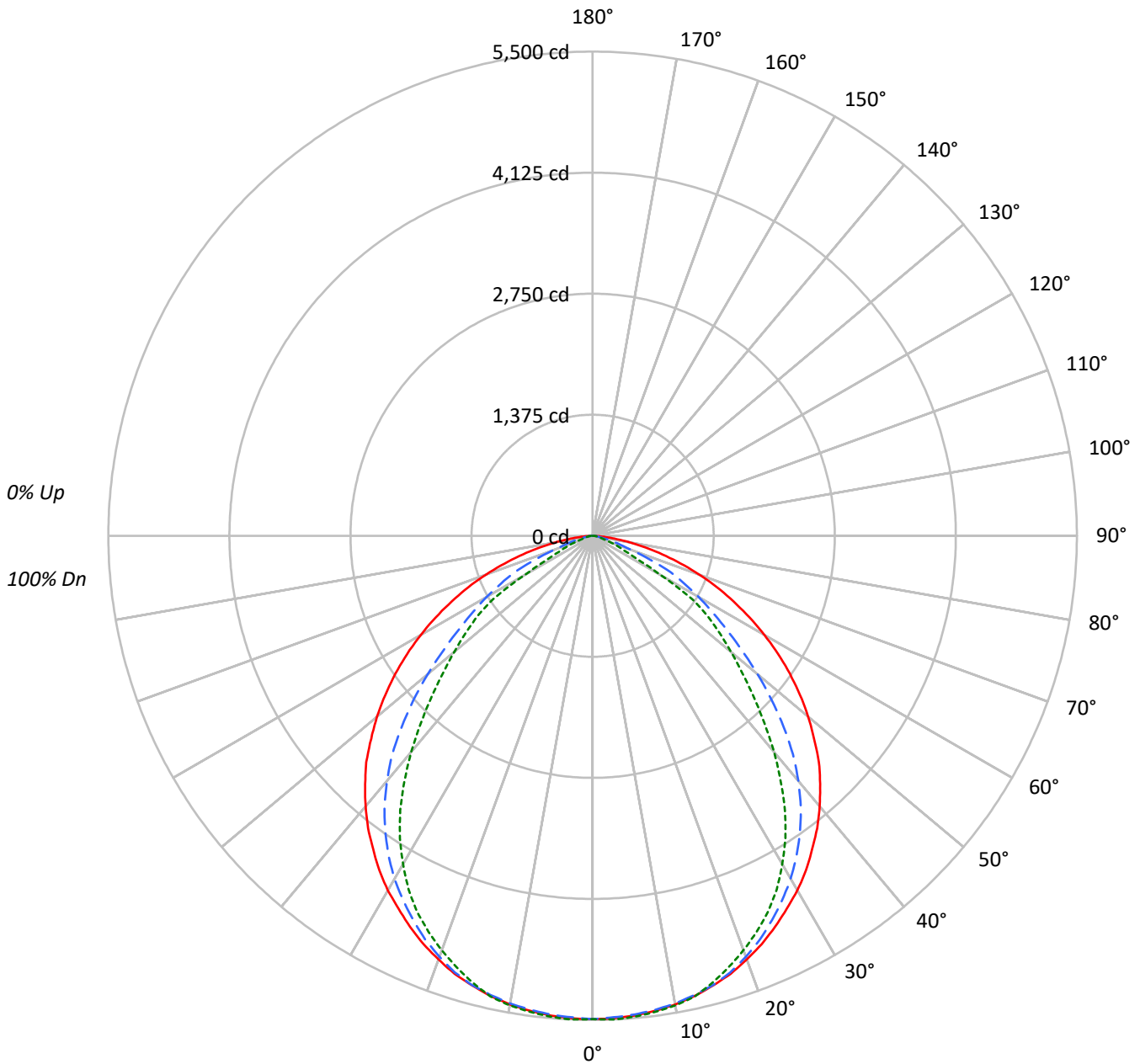
Lumens per Lamp: N/A  
Luminaire Lumens: 12349.0 lumens  
Efficiency: N/A  
Efficacy: 141.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28  
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	33770	33770	33770
5°	33775	33707	33861
10°	33763	33690	33829
15°	33683	33647	33474
20°	33520	33313	32792
25°	33272	32706	31989
30°	33030	31952	30585
35°	32636	30832	28598
40°	32206	29174	25732
45°	31621	26682	22483
50°	30576	23361	19640
55°	29328	19900	17145
60°	27706	17068	10946
65°	25672	14237	5803
70°	23172	8091	3760
75°	19466	4955	2338
80°	14792	2501	2047
85°	8984	2279	1842



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.8	4.2
10°-20°	1487.1	12.0
20°-30°	2216.8	18.0
30°-40°	2553.1	20.7
40°-50°	2376.0	19.2
50°-60°	1808.0	14.6
60°-70°	970.5	7.9
70°-80°	357.0	2.9
80°-90°	60.7	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°	4223.8	34.2
0°-40°	6776.8	54.9
0°-60°	10960.8	88.8
0°-90°	12349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12349.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5490	5490	5490	5490	5490	
5°	5470	5455	5459	5478	5484	520
15°	5290	5281	5284	5274	5257	1493
25°	4902	4899	4819	4751	4714	2260
35°	4346	4294	4106	3900	3809	2721
45°	3635	3460	3067	2703	2585	2794
55°	2735	2426	1856	1652	1599	2443
65°	1764	1296	978	484	399	1749
75°	819	537	208	108	98	878
85°	127	41	32	28	26	170
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5490.3	5490.3	5490.3	5490.3	5490.3
2.5°	5486.4	5469.7	5475.3	5493.1	5500.3
5°	5470.3	5454.7	5459.2	5478.1	5484.2
7.5°	5443.6	5428.6	5431.9	5449.7	5455.8
10°	5405.8	5390.2	5394.1	5411.4	5416.4
12.5°	5354.6	5340.2	5343.5	5355.7	5361.3
15°	5289.6	5281.2	5284.0	5274.0	5256.8
17.5°	5216.7	5204.5	5201.1	5156.7	5138.3
20°	5121.1	5116.6	5089.4	5034.3	5009.9
22.5°	5020.4	5012.1	4964.8	4898.6	4869.2
25°	4902.5	4898.6	4819.1	4750.7	4713.5
27.5°	4775.7	4766.3	4664.0	4578.3	4527.7
30°	4650.6	4627.3	4498.8	4378.7	4306.4
32.5°	4508.8	4464.9	4311.4	4157.9	4074.5
35°	4346.4	4293.6	4106.2	3899.9	3808.7
37.5°	4189.1	4109.5	3883.8	3625.7	3509.0
40°	4011.1	3897.1	3633.5	3333.8	3204.8
42.5°	3823.7	3684.7	3367.1	3018.5	2886.1
45°	3635.2	3460.0	3067.4	2703.2	2584.7
47.5°	3411.1	3225.3	2756.0	2402.3	2300.6
50°	3195.3	2978.4	2441.3	2122.1	2052.5
52.5°	2969.5	2706.5	2135.4	1885.2	1817.9
55°	2734.9	2425.7	1855.7	1652.2	1598.8
57.5°	2499.1	2137.1	1607.7	1440.3	1344.6
60°	2252.2	1850.7	1387.5	1170.6	889.8
62.5°	2009.2	1552.6	1167.8	734.0	566.1
65°	1763.9	1295.7	978.2	484.4	398.7
67.5°	1529.8	1047.1	697.9	350.9	298.6
70°	1288.5	856.4	449.9	251.4	209.1
72.5°	1046.6	689.0	308.6	165.2	134.0
75°	819.1	536.6	208.5	107.9	98.4
77.5°	613.9	370.4	116.2	80.1	75.1
80°	417.6	221.9	70.6	61.2	57.8
82.5°	250.2	106.2	51.2	45.0	43.4
85°	127.3	41.2	32.3	27.8	26.1
87.5°	37.8	20.6	14.5	11.1	10.6
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)