

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: P565486

Luminaire Tested: **VHB-9-W-UNV-L935-CD1-U**

Issue Date: 9/7/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P565486  
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-9-W-UNV-L935-CD1-U  
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 3500K, 90 CRI LEDS

Light Source: -  
Ballast/Driver: -

**Summary**

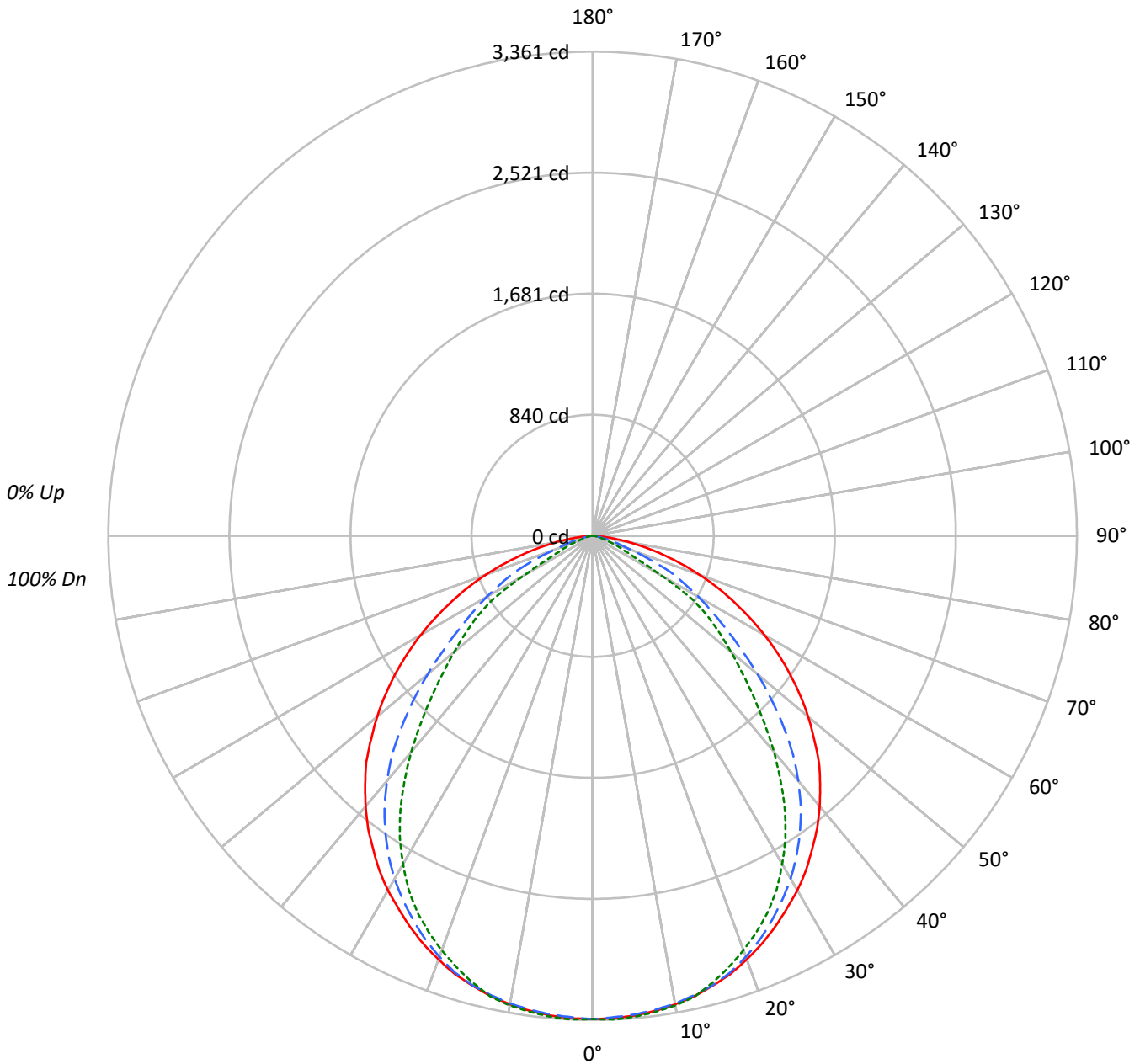
Lumens per Lamp: N/A  
Luminaire Lumens: 7546.0 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28  
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.6  
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			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°	20635	20635	20635
5°	20639	20597	20691
10°	20631	20586	20671
15°	20583	20561	20455
20°	20483	20356	20038
25°	20331	19985	19547
30°	20183	19524	18690
35°	19942	18840	17475
40°	19680	17827	15724
45°	19322	16305	13738
50°	18683	14275	12001
55°	17921	12159	10476
60°	16929	10429	6688
65°	15688	8699	3545
70°	14159	4944	2298
75°	11894	3028	1428
80°	9039	1530	1250
85°	5491	1390	1129



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.6	4.2
10°-20°	908.7	12.0
20°-30°	1354.6	18.0
30°-40°	1560.1	20.7
40°-50°	1451.9	19.2
50°-60°	1104.8	14.6
60°-70°	593.0	7.9
70°-80°	218.2	2.9
80°-90°	37.1	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°	2581.0	34.2
0°-40°	4141.0	54.9
0°-60°	6697.7	88.8
0°-90°	7546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7546.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3355	3355	3355	3355	3355	
5°	3343	3333	3336	3347	3351	318
15°	3232	3227	3229	3223	3212	912
25°	2996	2993	2945	2903	2880	1381
35°	2656	2624	2509	2383	2327	1663
45°	2221	2114	1874	1652	1579	1707
55°	1671	1482	1134	1010	977	1493
65°	1078	792	598	296	244	1069
75°	500	328	127	66	60	537
85°	78	25	20	17	16	104
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3354.9	3354.9	3354.9	3354.9	3354.9
2.5°	3352.5	3342.3	3345.7	3356.6	3361.0
5°	3342.7	3333.2	3335.9	3347.4	3351.2
7.5°	3326.4	3317.2	3319.2	3330.1	3333.9
10°	3303.3	3293.8	3296.1	3306.7	3309.7
12.5°	3272.0	3263.2	3265.2	3272.7	3276.1
15°	3232.3	3227.2	3228.9	3222.7	3212.2
17.5°	3187.7	3180.3	3178.2	3151.0	3139.8
20°	3129.3	3126.6	3109.9	3076.3	3061.3
22.5°	3067.8	3062.7	3033.8	2993.4	2975.4
25°	2995.7	2993.4	2944.8	2903.0	2880.2
27.5°	2918.3	2912.5	2850.0	2797.6	2766.7
30°	2841.8	2827.5	2749.0	2675.6	2631.5
32.5°	2755.2	2728.3	2634.5	2540.7	2489.8
35°	2655.9	2623.7	2509.1	2383.1	2327.3
37.5°	2559.8	2511.2	2373.2	2215.5	2144.2
40°	2451.0	2381.4	2220.3	2037.1	1958.3
42.5°	2336.5	2251.6	2057.5	1844.5	1763.6
45°	2221.3	2114.3	1874.4	1651.8	1579.4
47.5°	2084.4	1970.9	1684.1	1468.0	1405.8
50°	1952.5	1820.0	1491.8	1296.7	1254.2
52.5°	1814.6	1653.8	1304.9	1151.9	1110.8
55°	1671.2	1482.2	1133.9	1009.6	976.9
57.5°	1527.1	1305.9	982.4	880.1	821.7
60°	1376.2	1130.9	847.8	715.3	543.7
62.5°	1227.7	948.7	713.6	448.5	345.9
65°	1077.9	791.8	597.7	296.0	243.6
67.5°	934.8	639.9	426.5	214.4	182.5
70°	787.3	523.3	274.9	153.6	127.8
72.5°	639.5	421.0	188.6	100.9	81.9
75°	500.5	327.9	127.4	65.9	60.1
77.5°	375.1	226.3	71.0	48.9	45.9
80°	255.2	135.6	43.2	37.4	35.3
82.5°	152.9	64.9	31.3	27.5	26.5
85°	77.8	25.1	19.7	17.0	16.0
87.5°	23.1	12.6	8.8	6.8	6.5
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)