

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: P565488

Luminaire Tested: **VHB-9-W-UNV-L950-CD1-U**

Issue Date: 9/7/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P565488  
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-L950-CD1-U  
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 5000K, 90 CRI LEDS

Light Source: -  
Ballast/Driver: -

**Summary**

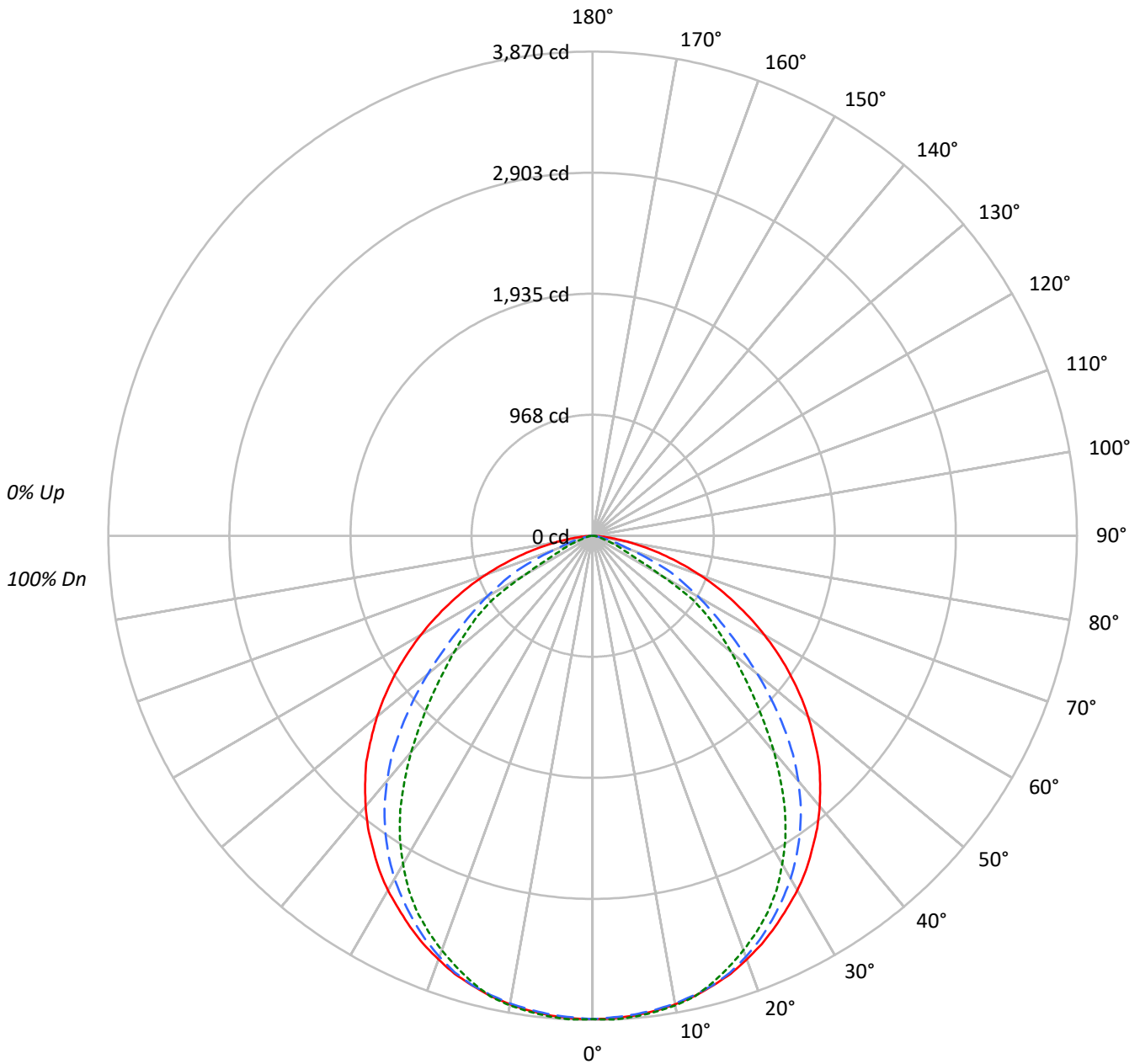
Lumens per Lamp: N/A  
Luminaire Lumens: 8689.0 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28  
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 64.6  
Input Voltage (V): NR  
Input Current (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									
RC	80									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	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°	23761	23761	23761
5°	23765	23717	23825
10°	23756	23705	23803
15°	23700	23675	23553
20°	23586	23440	23073
25°	23411	23012	22508
30°	23241	22482	21521
35°	22963	21694	20123
40°	22661	20528	18105
45°	22249	18774	15820
50°	21514	16437	13819
55°	20635	14002	12063
60°	19494	12009	7701
65°	18063	10018	4082
70°	16304	5692	2645
75°	13698	3486	1647
80°	10410	1760	1442
85°	6323	1602	1299



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.7	4.2
10°-20°	1046.4	12.0
20°-30°	1559.8	18.0
30°-40°	1796.4	20.7
40°-50°	1671.8	19.2
50°-60°	1272.1	14.6
60°-70°	682.9	7.9
70°-80°	251.2	2.9
80°-90°	42.7	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°	2971.9	34.2
0°-40°	4768.3	54.9
0°-60°	7712.2	88.8
0°-90°	8689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8689.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3863	3863	3863	3863	3863	
5°	3849	3838	3841	3854	3859	366
15°	3722	3716	3718	3711	3699	1050
25°	3450	3447	3391	3343	3316	1590
35°	3058	3021	2889	2744	2680	1915
45°	2558	2434	2158	1902	1819	1966
55°	1924	1707	1306	1162	1125	1719
65°	1241	912	688	341	280	1231
75°	576	378	147	76	69	618
85°	90	29	23	20	18	119
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3863.1	3863.1	3863.1	3863.1	<i>3863.1</i>
2.5°	<i>3860.4</i>	<i>3848.6</i>	<i>3852.5</i>	<i>3865.1</i>	<i>3870.1</i>
5°	3849.0	3838.1	3841.2	3854.5	<i>3858.8</i>
7.5°	3830.2	3819.7	3822.0	3834.5	<i>3838.8</i>
10°	3803.6	3792.7	3795.4	3807.5	<i>3811.1</i>
12.5°	3767.6	3757.4	3759.8	3768.4	<i>3772.3</i>
15°	3721.8	3716.0	3717.9	3710.9	<i>3698.8</i>
17.5°	3670.6	3662.0	3659.6	3628.3	<i>3615.4</i>
20°	3603.3	3600.2	3581.0	3542.2	<i>3525.0</i>
22.5°	3532.5	3526.6	3493.3	3446.8	<i>3426.0</i>
25°	3449.5	3446.8	3390.8	3342.7	<i>3316.5</i>
27.5°	3360.3	3353.6	3281.7	3221.4	<i>3185.8</i>
30°	3272.3	3255.8	3165.4	3080.9	<i>3030.1</i>
32.5°	3172.5	3141.6	3033.6	2925.6	<i>2866.9</i>
35°	3058.2	3021.1	2889.2	2744.0	<i>2679.9</i>
37.5°	2947.5	2891.5	2732.7	2551.1	<i>2469.0</i>
40°	2822.3	2742.1	2556.6	2345.7	<i>2254.9</i>
42.5°	2690.4	2592.6	2369.2	2123.9	<i>2030.7</i>
45°	2557.8	2434.5	2158.3	1902.0	<i>1818.7</i>
47.5°	2400.1	2269.4	1939.2	1690.3	<i>1618.7</i>
50°	2248.3	2095.7	1717.7	1493.1	<i>1444.2</i>
52.5°	2089.4	1904.4	1502.5	1326.4	<i>1279.1</i>
55°	1924.3	1706.8	1305.7	1162.5	<i>1124.9</i>
57.5°	1758.4	1503.7	1131.2	1013.4	<i>946.1</i>
60°	1584.7	1302.2	976.2	823.6	<i>626.0</i>
62.5°	1413.7	1092.5	821.7	516.5	<i>398.3</i>
65°	1241.1	911.7	688.3	340.8	<i>280.5</i>
67.5°	1076.4	736.8	491.1	246.9	<i>210.1</i>
70°	906.6	602.6	316.5	176.9	<i>147.1</i>
72.5°	736.4	484.8	217.2	116.2	<i>94.3</i>
75°	576.4	377.6	146.7	75.9	<i>69.3</i>
77.5°	432.0	260.6	81.8	56.3	<i>52.8</i>
80°	293.9	156.1	49.7	43.0	<i>40.7</i>
82.5°	176.1	74.7	36.0	31.7	<i>30.5</i>
85°	89.6	29.0	22.7	19.6	<i>18.4</i>
87.5°	26.6	14.5	10.2	7.8	<i>7.4</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







(END OF REPORT)