

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: P565487

Luminaire Tested: **VHB-9-W-UNV-L940-CD1-U**

Issue Date: 9/7/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P565487  
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-L940-CD1-U  
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 4000K, 90 CRI LEDS

Light Source: -  
Ballast/Driver: -

**Summary**

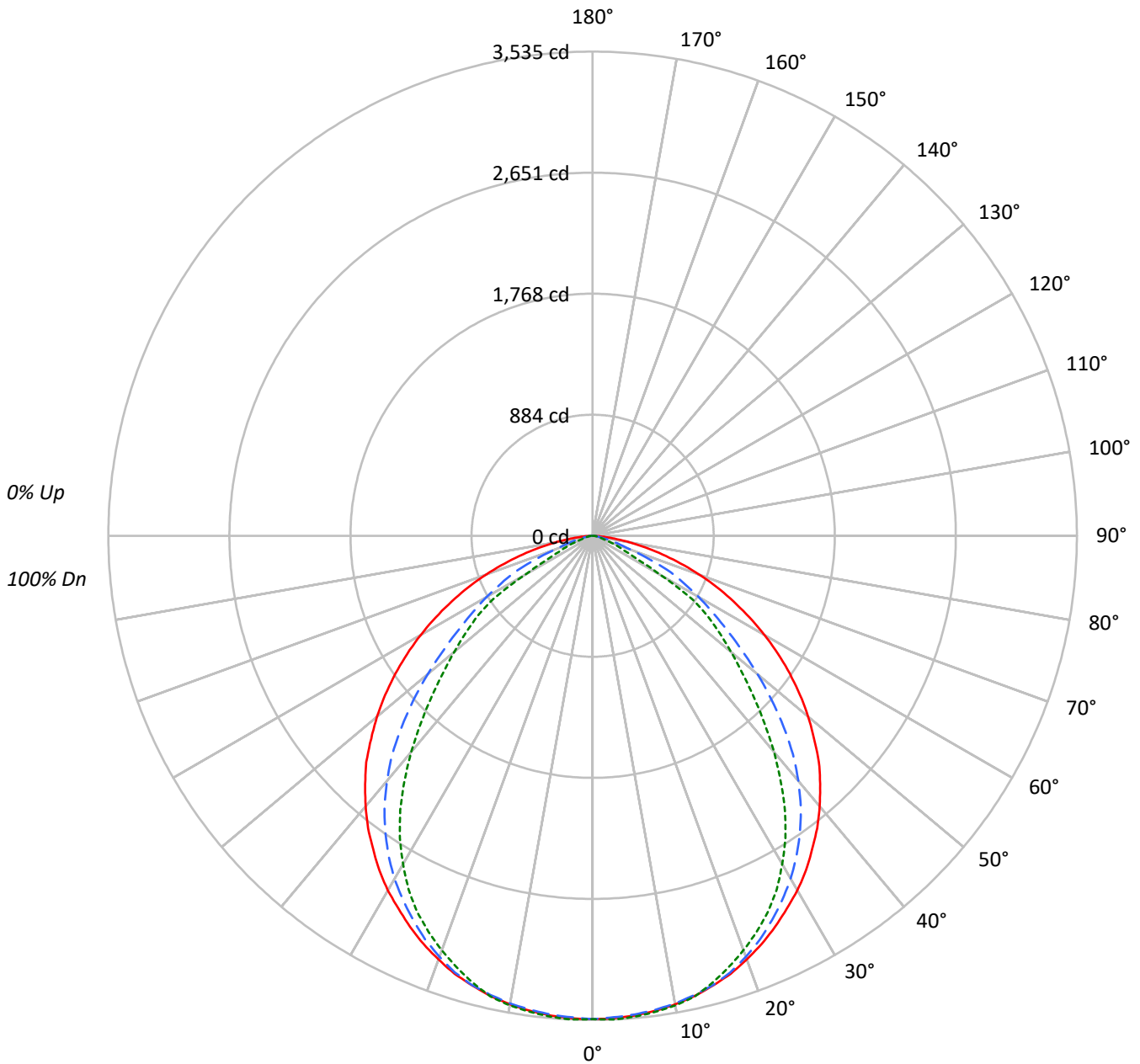
Lumens per Lamp: N/A  
Luminaire Lumens: 7937.0 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28  
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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					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°	21705	21705	21705
5°	21708	21664	21763
10°	21700	21653	21742
15°	21648	21626	21514
20°	21544	21411	21077
25°	21385	21021	20559
30°	21230	20536	19658
35°	20976	19817	18381
40°	20700	18751	16539
45°	20323	17149	14451
50°	19652	15015	12623
55°	18850	12790	11020
60°	17807	10971	7035
65°	16500	9150	3730
70°	14892	5199	2417
75°	12512	3184	1504
80°	9507	1608	1318
85°	5773	1461	1186



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.1	4.2
10°-20°	955.8	12.0
20°-30°	1424.8	18.0
30°-40°	1640.9	20.7
40°-50°	1527.1	19.2
50°-60°	1162.0	14.6
60°-70°	623.8	7.9
70°-80°	229.5	2.9
80°-90°	39.0	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°	2714.7	34.2
0°-40°	4355.6	54.9
0°-60°	7044.7	88.8
0°-90°	7937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7937.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3529	3529	3529	3529	3529	
5°	3516	3506	3509	3521	3525	334
15°	3400	3394	3396	3390	3379	960
25°	3151	3148	3097	3053	3029	1452
35°	2794	2760	2639	2507	2448	1749
45°	2336	2224	1972	1737	1661	1795
55°	1758	1559	1193	1062	1028	1570
65°	1134	833	629	311	256	1124
75°	526	345	134	69	63	564
85°	82	26	21	18	17	109
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3528.8	3528.8	3528.8	3528.8	3528.8
2.5°	3526.3	3515.5	3519.1	3530.5	3535.2
5°	3515.9	3505.9	3508.7	3520.9	3524.8
7.5°	3498.7	3489.1	3491.2	3502.7	3506.6
10°	3474.4	3464.4	3466.9	3478.0	3481.2
12.5°	3441.5	3432.3	3434.4	3442.3	3445.8
15°	3399.7	3394.4	3396.2	3389.7	3378.6
17.5°	3352.9	3345.0	3342.9	3314.3	3302.5
20°	3291.4	3288.6	3271.1	3235.7	3220.0
22.5°	3226.7	3221.4	3191.0	3148.5	3129.5
25°	3151.0	3148.5	3097.4	3053.4	3029.4
27.5°	3069.5	3063.4	2997.6	2942.6	2910.1
30°	2989.1	2974.1	2891.5	2814.3	2767.8
32.5°	2897.9	2869.7	2771.0	2672.4	2618.8
35°	2793.6	2759.6	2639.2	2506.6	2447.9
37.5°	2692.4	2641.3	2496.2	2330.3	2255.3
40°	2578.0	2504.8	2335.3	2142.7	2059.8
42.5°	2457.6	2368.2	2164.1	1940.0	1855.0
45°	2336.4	2223.8	1971.5	1737.4	1661.3
47.5°	2192.4	2073.0	1771.3	1544.0	1478.6
50°	2053.7	1914.3	1569.1	1363.9	1319.2
52.5°	1908.6	1739.5	1372.5	1211.6	1168.4
55°	1757.8	1559.0	1192.7	1061.9	1027.6
57.5°	1606.2	1373.5	1033.3	925.7	864.2
60°	1447.5	1189.5	891.8	752.4	571.9
62.5°	1291.3	997.9	750.6	471.8	363.8
65°	1133.7	832.8	628.7	311.3	256.3
67.5°	983.2	673.0	448.6	225.5	191.9
70°	828.1	550.4	289.1	161.6	134.4
72.5°	672.7	442.8	198.4	106.2	86.1
75°	526.5	344.9	134.0	69.3	63.3
77.5°	394.6	238.0	74.7	51.5	48.3
80°	268.4	142.6	45.4	39.3	37.2
82.5°	160.8	68.3	32.9	29.0	27.9
85°	81.8	26.4	20.7	17.9	16.8
87.5°	24.3	13.2	9.3	7.1	6.8
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)