

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: P565475

Luminaire Tested: **VHB-24-W-UNV-L940-CD1-U**

Issue Date: 9/7/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P565475  
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-24-W-UNV-L940-CD1-U  
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 4000K, 90 CRI LEDS  
  
Light Source: -  
Ballast/Driver: -

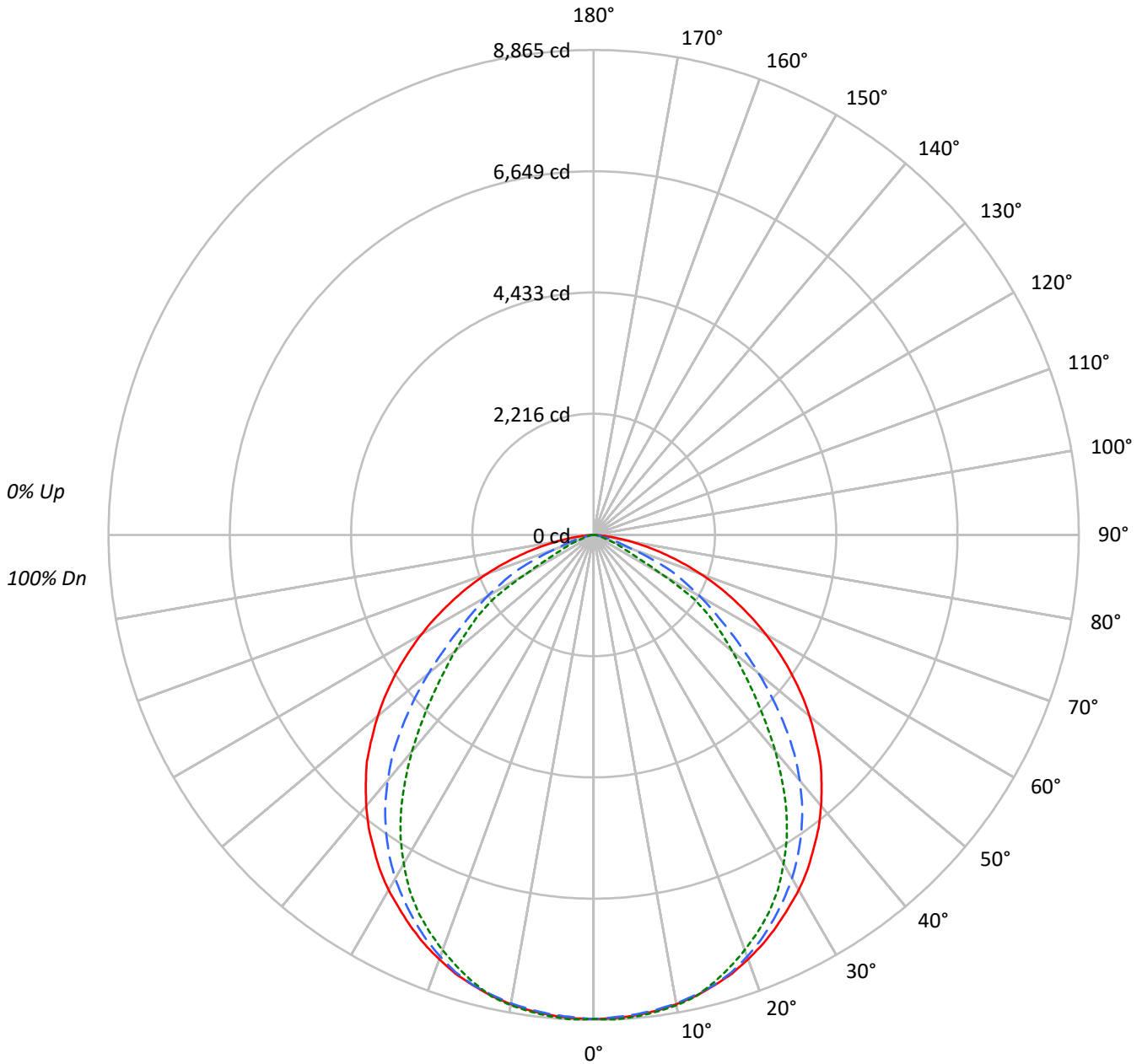
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19903.0 lumens  
Efficiency: N/A  
Efficacy: 114.3 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): 174.1  
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°	54427	54427	54427
5°	54436	54325	54574
10°	54416	54298	54522
15°	54286	54230	53950
20°	54025	53690	52851
25°	53624	52712	51556
30°	53235	51498	49295
35°	52600	49693	46092
40°	51907	47021	41473
45°	50964	43004	36236
50°	49279	37650	31655
55°	47267	32072	27633
60°	44654	27509	17640
65°	41376	22944	9352
70°	37345	13040	6061
75°	31374	7987	3769
80°	23842	4031	3301
85°	14481	3670	2971



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	837.8	4.2
10°-20°	2396.8	12.0
20°-30°	3572.9	18.0
30°-40°	4114.8	20.7
40°-50°	3829.4	19.2
50°-60°	2913.9	14.6
60°-70°	1564.1	7.9
70°-80°	575.5	2.9
80°-90°	97.9	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°	6807.5	34.2
0°-40°	10922.3	54.9
0°-60°	17665.6	88.8
0°-90°	19903.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19903.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8849	8849	8849	8849	8849	
5°	8816	8791	8799	8829	8839	838
15°	8525	8512	8516	8500	8472	2406
25°	7901	7895	7767	7657	7597	3642
35°	7005	6920	6618	6286	6138	4385
45°	5859	5576	4944	4357	4166	4502
55°	4408	3910	2991	2663	2577	3937
65°	2843	2088	1576	781	643	2819
75°	1320	865	336	174	159	1415
85°	205	66	52	45	42	273
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8848.8	8848.8	8848.8	8848.8	8848.8
2.5°	8842.5	8815.6	8824.6	8853.3	8864.9
5°	8816.5	8791.4	8798.6	8829.1	8838.9
7.5°	8773.5	8749.3	8754.7	8783.4	8793.2
10°	8712.6	8687.5	8693.7	8721.5	8729.6
12.5°	8630.1	8606.8	8612.2	8631.9	8640.9
15°	8525.2	8511.8	8516.3	8500.1	8472.4
17.5°	8407.8	8388.1	8382.7	8311.0	8281.5
20°	8253.7	8246.5	8202.6	8113.9	8074.4
22.5°	8091.5	8078.0	8001.8	7895.2	7847.7
25°	7901.4	7895.2	7767.0	7656.8	7596.7
27.5°	7697.1	7681.9	7516.9	7378.9	7297.4
30°	7495.4	7457.8	7250.8	7057.2	6940.7
32.5°	7266.9	7196.1	6948.7	6701.3	6566.9
35°	7005.2	6920.0	6618.0	6285.5	6138.5
37.5°	6751.5	6623.4	6259.5	5843.6	5655.4
40°	6464.7	6281.0	5856.2	5373.1	5165.2
42.5°	6162.7	5938.6	5426.9	4864.9	4651.6
45°	5858.9	5576.5	4943.8	4356.7	4165.8
47.5°	5497.7	5198.3	4441.9	3871.9	3707.8
50°	5149.9	4800.4	3934.6	3420.1	3308.1
52.5°	4786.0	4362.1	3441.6	3038.3	2929.9
55°	4407.8	3909.5	2990.8	2662.8	2576.8
57.5°	4027.8	3444.3	2591.1	2321.3	2167.2
60°	3629.9	2982.8	2236.2	1886.6	1434.0
62.5°	3238.2	2502.4	1882.1	1183.1	912.4
65°	2842.9	2088.3	1576.5	780.6	642.6
67.5°	2465.6	1687.7	1124.8	565.5	481.3
70°	2076.6	1380.2	725.1	405.1	337.0
72.5°	1686.8	1110.5	497.4	266.2	216.0
75°	1320.2	864.9	336.1	173.9	158.6
77.5°	989.5	596.9	187.3	129.1	121.0
80°	673.1	357.6	113.8	98.6	93.2
82.5°	403.3	171.2	82.5	72.6	69.9
85°	205.2	66.3	52.0	44.8	42.1
87.5°	60.9	33.2	23.3	17.9	17.0
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)