

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: P565474

Luminaire Tested: **VHB-24-W-UNV-L935-CD1-U**

Issue Date: 9/7/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P565474  
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-L935-CD1-U  
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 3500K, 90 CRI LEDS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

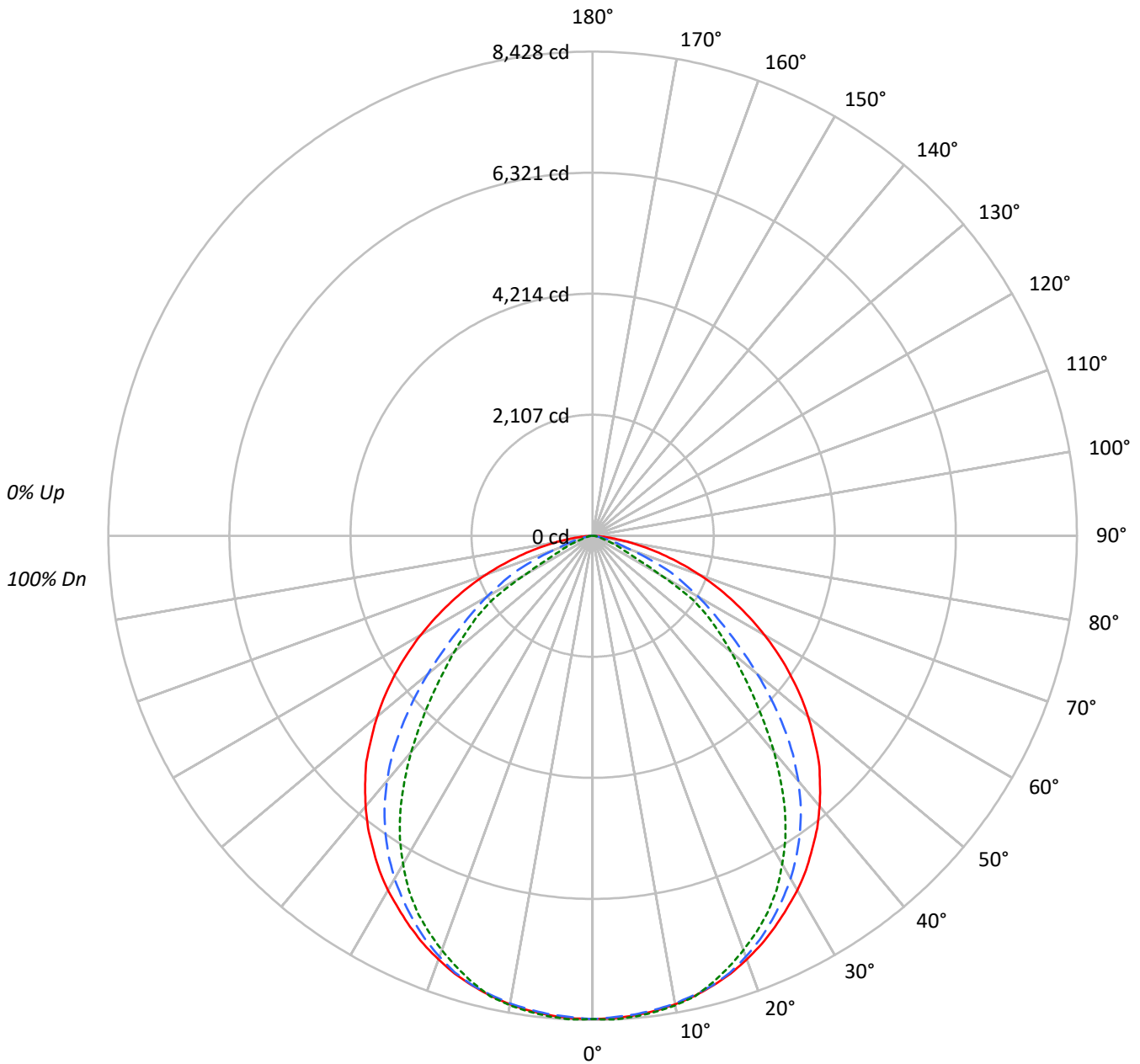
Lumens per Lamp: N/A  
Luminaire Lumens: 18921.0 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28  
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 174.1  
Input Voltage (V): NR  
Input Current (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

TEST NUMBER: P565474

CATALOG NUMBER: VHB-24-W-UNV-L935-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P565474

CATALOG NUMBER: VHB-24-W-UNV-L935-CD1-U

**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								
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°	51742	51742	51742
5°	51750	51645	51881
10°	51731	51619	51832
15°	51608	51554	51288
20°	51359	51041	50244
25°	50979	50111	49012
30°	50608	48956	46863
35°	50005	47241	43818
40°	49346	44701	39426
45°	48449	40882	34449
50°	46848	35793	30093
55°	44935	30490	26268
60°	42450	26151	16771
65°	39335	21812	8891
70°	35503	12396	5762
75°	29827	7593	3584
80°	22666	3833	3138
85°	13769	3486	2823



TEST NUMBER: P565474

CATALOG NUMBER: VHB-24-W-UNV-L935-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	796.4	4.2
10°-20°	2278.6	12.0
20°-30°	3396.6	18.0
30°-40°	3911.8	20.7
40°-50°	3640.5	19.2
50°-60°	2770.1	14.6
60°-70°	1487.0	7.9
70°-80°	547.1	2.9
80°-90°	93.0	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°	6471.6	34.2
0°-40°	10383.4	54.9
0°-60°	16794.0	88.8
0°-90°	18921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18921.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8412	8412	8412	8412	8412	
5°	8382	8358	8364	8394	8403	797
15°	8105	8092	8096	8081	8054	2287
25°	7512	7506	7384	7279	7222	3462
35°	6660	6579	6292	5975	5836	4169
45°	5570	5301	4700	4142	3960	4280
55°	4190	3717	2843	2531	2450	3743
65°	2703	1985	1499	742	611	2680
75°	1255	822	320	165	151	1345
85°	195	63	49	43	40	260
90°	0	0	0	0	0	



TEST NUMBER: P565474

CATALOG NUMBER: VHB-24-W-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8412.2	8412.2	8412.2	8412.2	8412.2
2.5°	8406.2	8380.7	8389.2	8416.5	8427.5
5°	8381.5	8357.7	8364.5	8393.5	8402.8
7.5°	8340.6	8317.6	8322.7	8350.0	8359.4
10°	8282.7	8258.8	8264.8	8291.2	8298.9
12.5°	8204.3	8182.1	8187.3	8206.0	8214.5
15°	8104.6	8091.8	8096.1	8080.8	8054.3
17.5°	7993.0	7974.3	7969.1	7901.0	7872.9
20°	7846.4	7839.6	7797.9	7713.5	7676.0
22.5°	7692.2	7679.4	7607.0	7505.6	7460.5
25°	7511.6	7505.6	7383.8	7279.0	7221.9
27.5°	7317.3	7302.8	7146.1	7014.9	6937.3
30°	7125.6	7089.8	6893.0	6709.0	6598.2
32.5°	6908.3	6841.0	6605.9	6370.7	6242.9
35°	6659.6	6578.6	6291.5	5975.4	5835.6
37.5°	6418.4	6296.6	5950.7	5555.3	5376.4
40°	6145.8	5971.1	5567.2	5108.0	4910.3
42.5°	5858.6	5645.6	5159.1	4624.9	4422.1
45°	5569.8	5301.4	4699.9	4141.8	3960.3
47.5°	5226.4	4941.8	4222.7	3680.8	3524.9
50°	4895.8	4563.5	3740.5	3251.4	3144.9
52.5°	4549.9	4146.9	3271.8	2888.4	2785.3
55°	4190.3	3716.6	2843.3	2531.4	2449.6
57.5°	3829.1	3274.4	2463.3	2206.8	2060.2
60°	3450.8	2835.6	2125.8	1793.5	1363.3
62.5°	3078.4	2378.9	1789.3	1124.7	867.4
65°	2702.7	1985.3	1498.7	742.1	610.9
67.5°	2344.0	1604.4	1069.3	537.6	457.5
70°	1974.2	1312.1	689.3	385.1	320.4
72.5°	1603.5	1055.7	472.9	253.1	205.3
75°	1255.1	822.2	319.5	165.3	150.8
77.5°	940.7	567.5	178.1	122.7	115.0
80°	639.9	340.0	108.2	93.7	88.6
82.5°	383.4	162.7	78.4	69.0	66.5
85°	195.1	63.1	49.4	42.6	40.0
87.5°	57.9	31.5	22.2	17.0	16.2
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)