

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: P563355

Luminaire Tested: **VHB-24-W-UNV-L935-CD**

Issue Date: 6/3/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364417)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/3/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VHB-24-W-UNV-L935-CD  
Description: 24000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 90CRI, 3500K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

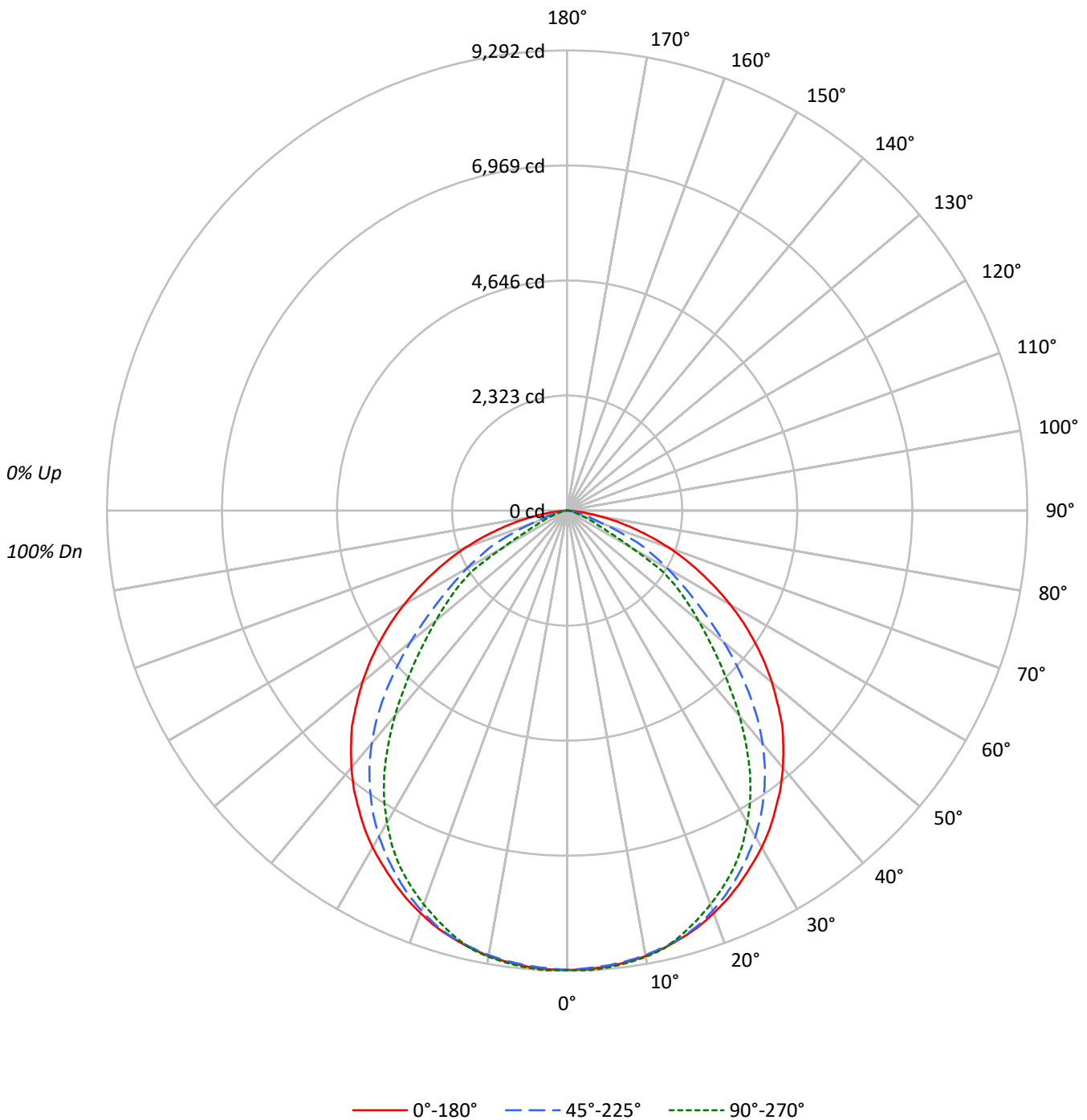
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20863.0 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28  
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 165  
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	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°	54051	54051	54051
5°	54059	53949	54197
10°	54040	53923	54145
15°	53912	53855	53577
20°	53651	53319	52486
25°	53254	52348	51199
30°	52866	51141	48954
35°	52236	49349	45773
40°	51549	46696	41186
45°	50611	42706	35985
50°	48939	37390	31436
55°	46941	31851	27442
60°	44345	27318	17519
65°	41091	22787	9288
70°	37087	12949	6018
75°	31158	7934	3744
80°	23678	4003	3279
85°	14388	3637	2955



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	878.2	4.2
10°-20°	2512.4	12.0
20°-30°	3745.2	18.0
30°-40°	4313.2	20.7
40°-50°	4014.1	19.2
50°-60°	3054.5	14.6
60°-70°	1639.6	7.9
70°-80°	603.2	2.9
80°-90°	102.6	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°	7135.8	34.2
0°-40°	11449.1	54.9
0°-60°	18517.6	88.8
0°-90°	20863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20863.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9276	9276	9276	9276	9276	
5°	9242	9215	9223	9255	9265	879
15°	8936	8922	8927	8910	8881	2522
25°	8283	8276	8142	8026	7963	3818
35°	7343	7254	6937	6589	6434	4597
45°	6141	5846	5182	4567	4367	4719
55°	4620	4098	3135	2791	2701	4127
65°	2980	2189	1653	818	674	2955
75°	1384	907	352	182	166	1483
85°	215	70	54	47	44	287
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9275.6	9275.6	9275.6	9275.6	9275.6
2.5°	9269.0	9240.8	9250.3	9280.3	9292.5
5°	9241.8	9215.4	9222.9	9255.0	9265.3
7.5°	9196.7	9171.3	9177.0	9207.0	9217.4
10°	9132.8	9106.5	9113.1	9142.1	9150.6
12.5°	9046.3	9021.9	9027.6	9048.3	9057.7
15°	8936.5	8922.3	8927.1	8910.1	8881.0
17.5°	8813.4	8792.7	8787.1	8711.9	8680.9
20°	8651.8	8644.3	8598.3	8505.3	8463.9
22.5°	8481.7	8467.6	8387.8	8275.9	8226.2
25°	8282.6	8275.9	8141.7	8026.0	7963.1
27.5°	8068.4	8052.4	7879.5	7734.9	7649.3
30°	7856.9	7817.5	7600.5	7397.5	7275.5
32.5°	7617.4	7543.1	7283.9	7024.6	6883.7
35°	7343.1	7253.8	6937.2	6588.6	6434.5
37.5°	7077.2	6942.8	6561.4	6125.5	5928.2
40°	6776.6	6583.9	6138.7	5632.2	5414.3
42.5°	6459.9	6225.0	5688.6	5099.6	4875.9
45°	6141.4	5845.6	5182.2	4566.9	4366.7
47.5°	5762.8	5449.1	4656.2	4058.6	3886.7
50°	5398.4	5031.9	4124.4	3585.1	3467.7
52.5°	5016.9	4572.5	3607.7	3184.9	3071.2
55°	4620.5	4098.0	3135.1	2791.2	2701.1
57.5°	4222.0	3610.5	2716.1	2433.3	2271.7
60°	3805.0	3126.6	2344.0	1977.6	1503.2
62.5°	3394.4	2623.0	1972.9	1240.1	956.4
65°	2980.1	2189.0	1652.6	818.3	673.6
67.5°	2584.6	1769.1	1179.0	592.8	504.5
70°	2176.8	1446.8	760.0	424.7	353.2
72.5°	1768.1	1164.0	521.5	279.1	226.4
75°	1383.9	906.6	352.4	182.3	166.3
77.5°	1037.2	625.7	196.3	135.2	126.9
80°	705.6	374.9	119.3	103.3	97.7
82.5°	422.8	179.4	86.5	76.1	73.3
85°	215.2	69.5	54.4	46.9	44.2
87.5°	63.9	34.7	24.4	18.8	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)