

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: P563345

Luminaire Tested: **VHB-18-W-UNV-L850-CD**

Issue Date: 6/3/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563345  
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-18-W-UNV-L850-CD  
Description: 18000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 80CRI, 5000K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

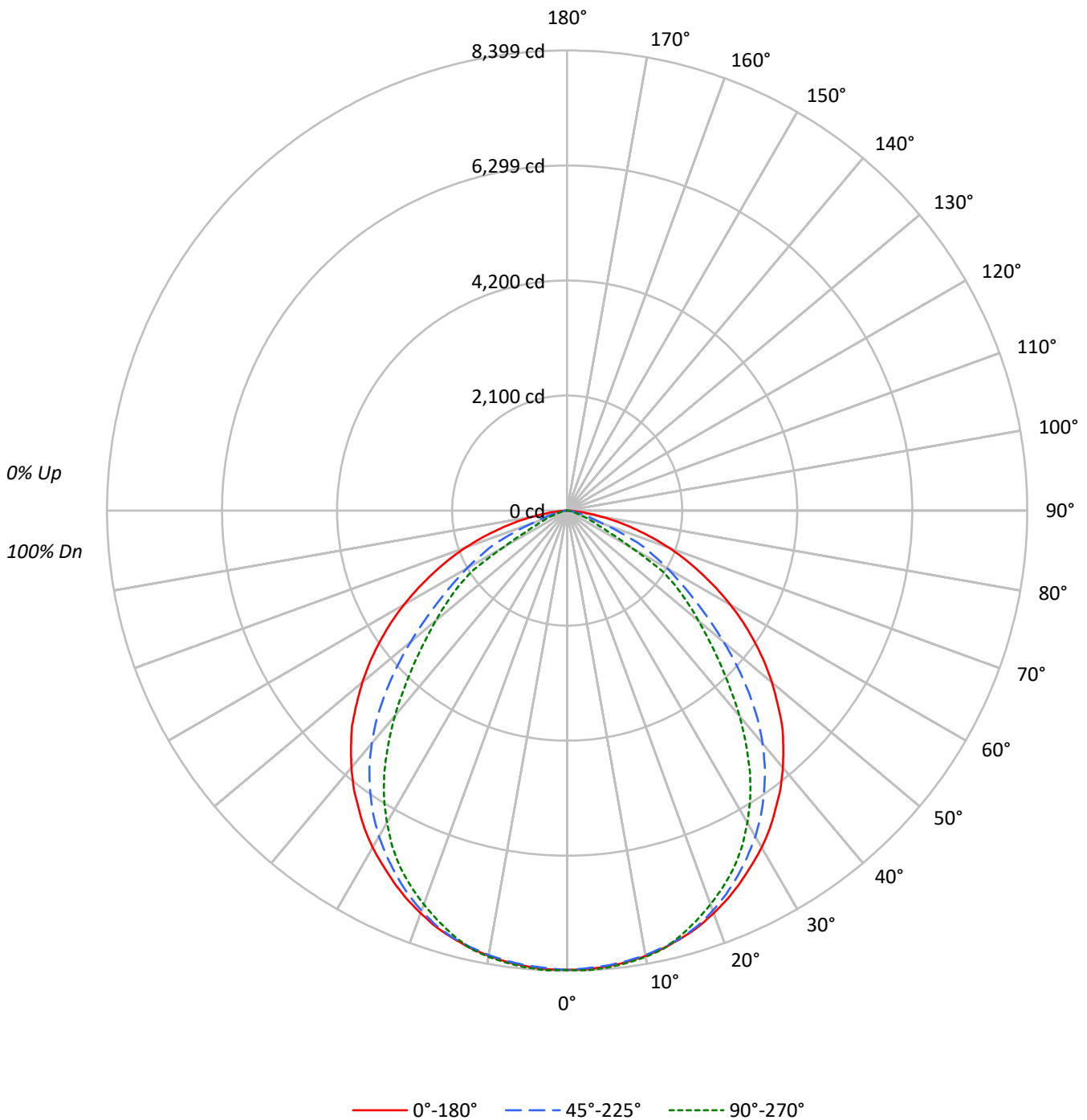
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18857.0 lumens  
Efficiency: N/A  
Efficacy: 150.9 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): 125  
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°	48854	48854	48854
5°	48862	48762	48986
10°	48844	48738	48939
15°	48728	48676	48425
20°	48492	48192	47440
25°	48133	47315	46276
30°	47784	46224	44247
35°	47214	44604	41372
40°	46592	42206	37226
45°	45744	38599	32526
50°	44233	33794	28413
55°	42428	28789	24803
60°	40081	24692	15835
65°	37139	20596	8394
70°	33521	11705	5440
75°	28161	7171	3384
80°	21403	3621	2963
85°	13004	3289	2674



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	793.7	4.2
10°-20°	2270.9	12.0
20°-30°	3385.1	18.0
30°-40°	3898.5	20.7
40°-50°	3628.2	19.2
50°-60°	2760.8	14.6
60°-70°	1481.9	7.9
70°-80°	545.2	2.9
80°-90°	92.7	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°	6449.7	34.2
0°-40°	10348.2	54.9
0°-60°	16737.2	88.8
0°-90°	18857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18857.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8384	8384	8384	8384	8384	
5°	8353	8329	8336	8365	8374	794
15°	8077	8064	8069	8053	8027	2280
25°	7486	7480	7359	7254	7197	3451
35°	6637	6556	6270	5955	5816	4155
45°	5551	5284	4684	4128	3947	4266
55°	4176	3704	2834	2523	2441	3730
65°	2694	1978	1494	740	609	2671
75°	1251	819	318	165	150	1341
85°	194	63	49	42	40	259
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8383.8	8383.8	8383.8	8383.8	8383.8
2.5°	8377.8	8352.3	8360.9	8388.0	8399.0
5°	8353.2	8329.4	8336.1	8365.1	8374.4
7.5°	8312.4	8289.5	8294.6	8321.8	8331.1
10°	8254.7	8230.9	8236.8	8263.1	8270.8
12.5°	8176.5	8154.5	8159.6	8178.3	8186.7
15°	8077.2	8064.4	8068.7	8053.4	8027.1
17.5°	7966.0	7947.3	7942.2	7874.3	7846.2
20°	7819.9	7813.2	7771.5	7687.5	7650.1
22.5°	7666.2	7653.4	7581.3	7480.2	7435.2
25°	7486.2	7480.2	7358.9	7254.3	7197.4
27.5°	7292.6	7278.1	7121.9	6991.2	6913.8
30°	7101.5	7065.9	6869.7	6686.3	6575.9
32.5°	6885.0	6817.8	6583.5	6349.2	6221.8
35°	6637.0	6556.3	6270.1	5955.1	5815.8
37.5°	6396.7	6275.3	5930.5	5536.5	5358.2
40°	6125.0	5950.9	5548.4	5090.7	4893.7
42.5°	5838.8	5626.5	5141.7	4609.2	4407.1
45°	5550.9	5283.5	4683.9	4127.8	3946.9
47.5°	5208.7	4925.2	4208.5	3668.4	3513.0
50°	4879.3	4548.1	3727.8	3240.4	3134.2
52.5°	4534.5	4132.9	3260.8	2878.6	2775.9
55°	4176.2	3704.0	2833.7	2522.9	2441.4
57.5°	3816.1	3263.4	2455.0	2199.4	2053.3
60°	3439.1	2826.0	2118.7	1787.5	1358.7
62.5°	3068.0	2370.8	1783.2	1120.9	864.4
65°	2693.5	1978.5	1493.7	739.6	608.8
67.5°	2336.1	1599.0	1065.7	535.8	456.0
70°	1967.5	1307.7	687.0	383.8	319.3
72.5°	1598.1	1052.1	471.3	252.2	204.6
75°	1250.8	819.4	318.5	164.8	150.3
77.5°	937.4	565.5	177.4	122.2	114.7
80°	637.8	338.9	107.9	93.4	88.3
82.5°	382.2	162.2	78.1	68.8	66.2
85°	194.5	62.8	49.2	42.4	40.0
87.5°	57.8	31.4	22.0	17.0	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)