

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: P563276

Luminaire Tested: **VHB-18-N-UNV-L950-CD**

Issue Date: 6/3/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563276  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364424)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/3/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VHB-18-N-UNV-L950-CD  
Description: 18000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 90CRI, 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

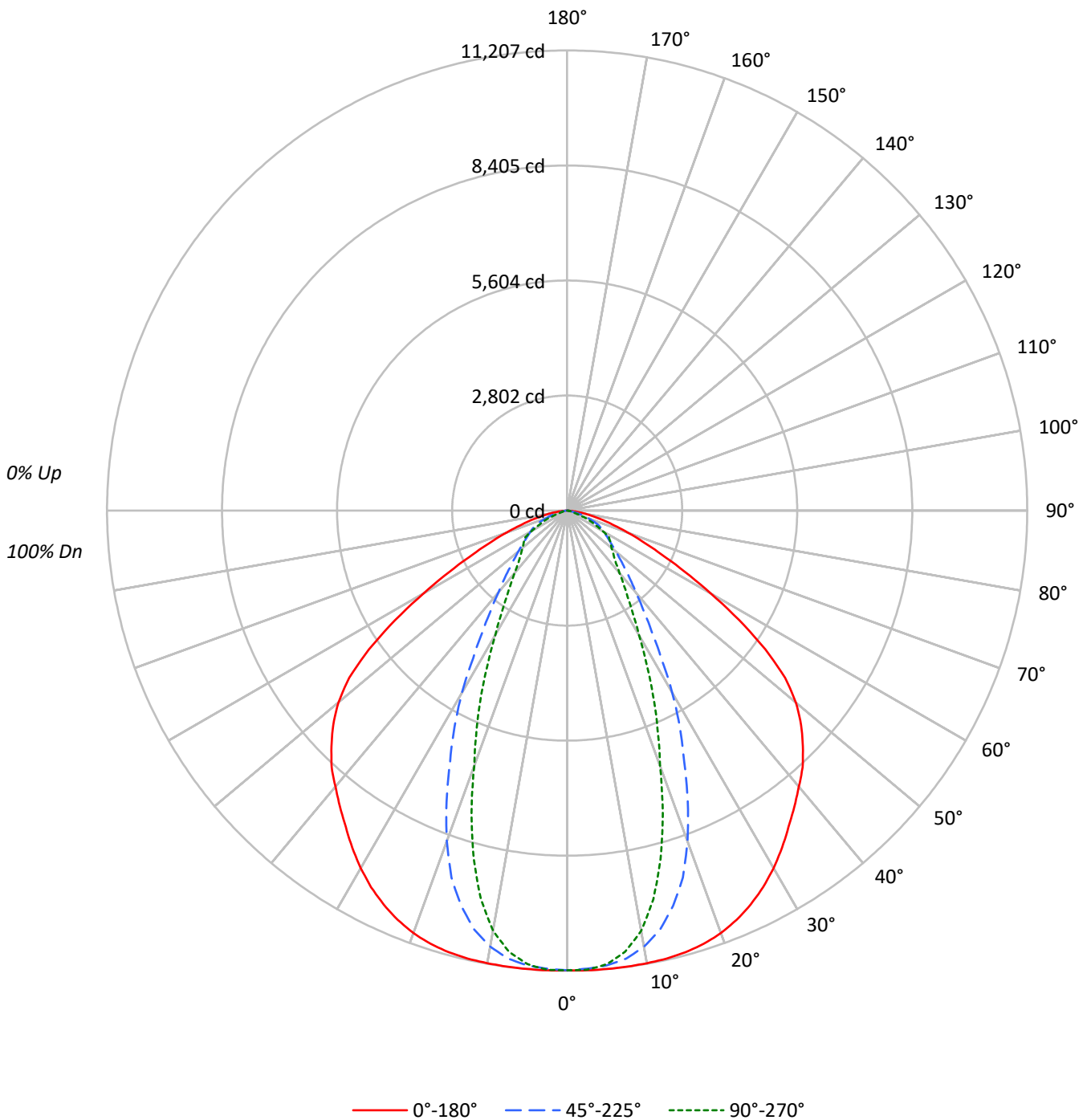
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15790.0 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86  
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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CATALOG NUMBER: VHB-18-N-UNV-L950-CD

### 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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78					78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69					69			
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42					42			
9	65	53	46	41	63	52	45	41	51	45	41	50	44	40	49	44	40	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	65243	65243	65243
5°	65549	65052	64863
10°	66238	63804	61474
15°	67183	60116	53006
20°	67906	53109	41038
25°	68042	43367	31799
30°	67661	34443	23535
35°	66889	25523	18301
40°	66784	19820	15104
45°	66924	16311	13417
50°	65975	14107	12797
55°	59893	12575	12931
60°	47087	12018	11783
65°	34974	11648	8867
70°	26824	9325	5413
75°	20418	6651	2985
80°	14993	3094	2413
85°	9380	2661	2146



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1051.9	6.7
10°-20°	2769.1	17.5
20°-30°	3344.0	21.2
30°-40°	2989.9	18.9
40°-50°	2341.3	14.8
50°-60°	1769.0	11.2
60°-70°	1050.7	6.7
70°-80°	403.8	2.6
80°-90°	70.2	0.4
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°	7165.0	45.4
0°-40°	10155.0	64.3
0°-60°	14265.3	90.3
0°-90°	15790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15790.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11196	11196	11196	11196	11196	
5°	11206	11157	11121	11106	11089	###
15°	11136	10769	9965	9132	8786	3147
25°	10583	9338	6745	5318	4946	4873
35°	9403	6691	3588	2798	2573	5896
45°	8121	3460	1979	1672	1628	6251
55°	5895	1877	1238	1233	1273	5177
65°	2536	1054	845	704	643	2613
75°	907	507	295	146	133	993
85°	140	49	40	35	32	187
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11196.3	11196.3	11196.3	11196.3	11196.3
2.5°	11206.9	11169.9	11167.0	11190.8	11194.3
5°	11206.1	11157.2	11121.0	11106.4	11088.8
7.5°	11202.7	11128.7	11006.5	10889.2	10834.8
10°	11194.3	11063.0	10783.1	10516.4	10389.3
12.5°	11176.1	10945.7	10451.4	9961.3	9694.6
15°	11136.3	10769.1	9964.9	9131.9	8786.3
17.5°	11064.4	10525.4	9368.6	8192.9	7748.1
20°	10950.6	10215.5	8564.3	7121.9	6617.8
22.5°	10787.2	9810.6	7678.3	6157.7	5755.0
25°	10582.7	9337.9	6744.9	5317.8	4945.7
27.5°	10339.8	8786.3	5940.6	4535.9	4169.4
30°	10055.6	8141.9	5118.9	3797.2	3497.8
32.5°	9737.9	7463.3	4260.9	3233.8	2987.5
35°	9402.8	6691.2	3587.9	2797.5	2572.7
37.5°	9087.2	5864.5	3038.4	2411.5	2253.6
40°	8779.4	4996.0	2605.6	2106.3	1985.6
42.5°	8488.9	4165.3	2274.6	1850.9	1771.9
45°	8121.0	3460.1	1979.3	1672.1	1628.1
47.5°	7730.7	2920.3	1744.7	1526.8	1511.5
50°	7277.6	2487.6	1556.1	1400.5	1411.6
52.5°	6689.7	2145.4	1377.4	1311.1	1344.0
55°	5895.3	1877.4	1237.8	1232.9	1272.8
57.5°	4964.6	1621.1	1127.5	1158.3	1202.9
60°	4040.3	1415.2	1031.2	1075.8	1011.0
62.5°	3227.6	1226.0	939.8	858.0	802.2
65°	2536.5	1054.2	844.8	704.5	643.1
67.5°	2022.6	894.3	710.7	560.6	509.6
70°	1574.4	751.9	547.3	421.0	317.7
72.5°	1206.5	628.4	427.2	239.5	180.8
75°	906.9	506.9	295.4	146.0	132.6
77.5°	646.5	376.4	157.7	105.4	97.8
80°	446.8	241.6	92.2	76.1	71.9
82.5°	277.1	116.6	62.9	54.4	51.0
85°	140.3	48.9	39.8	34.9	32.1
87.5°	46.8	23.8	18.1	16.8	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)