

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: P563342

Luminaire Tested: **VHB-18-W-UNV-L750-CD**

Issue Date: 6/3/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563342  
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-L750-CD  
Description: 18000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 70CRI, 5000K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

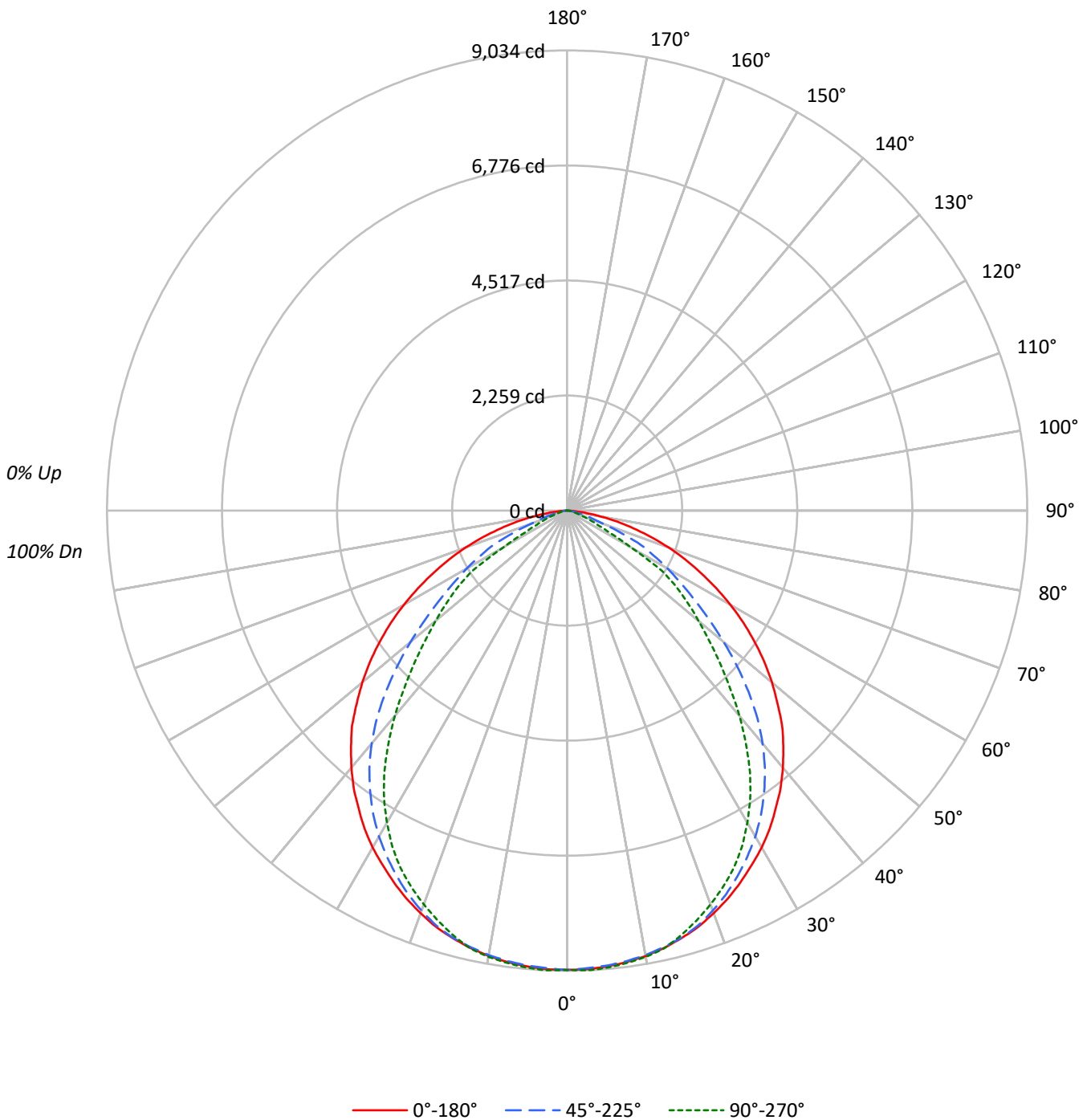
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20283.0 lumens  
Efficiency: N/A  
Efficacy: 162.3 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°	52548	52548	52548
5°	52557	52449	52690
10°	52537	52424	52640
15°	52413	52358	52087
20°	52160	51837	51027
25°	51773	50892	49776
30°	51397	49719	47593
35°	50785	47977	44501
40°	50115	45398	40040
45°	49204	41518	34985
50°	47578	36350	30563
55°	45636	30966	26679
60°	43112	26559	17032
65°	39947	22154	9030
70°	36057	12589	5851
75°	30291	7713	3638
80°	23020	3893	3188
85°	13987	3537	2875



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	853.8	4.2
10°-20°	2442.6	12.0
20°-30°	3641.1	18.0
30°-40°	4193.3	20.7
40°-50°	3902.5	19.2
50°-60°	2969.5	14.6
60°-70°	1594.0	7.9
70°-80°	586.4	2.9
80°-90°	99.7	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°	6937.4	34.2
0°-40°	11130.8	54.9
0°-60°	18002.8	88.8
0°-90°	20283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20283.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9018	9018	9018	9018	9018	
5°	8985	8959	8966	8998	9008	854
15°	8688	8674	8679	8662	8634	2452
25°	8052	8046	7915	7803	7742	3712
35°	7139	7052	6744	6405	6256	4469
45°	5971	5683	5038	4440	4245	4588
55°	4492	3984	3048	2714	2626	4012
65°	2897	2128	1607	796	655	2873
75°	1345	881	343	177	162	1442
85°	209	68	53	46	43	279
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9017.8	9017.8	9017.8	9017.8	9017.8
2.5°	9011.3	8983.9	8993.1	9022.3	9034.2
5°	8984.9	8959.2	8966.5	8997.7	9007.7
7.5°	8941.0	8916.4	8921.9	8951.1	8961.1
10°	8878.9	8853.4	8859.7	8888.0	8896.2
12.5°	8794.8	8771.1	8776.6	8796.7	8805.8
15°	8688.0	8674.3	8678.9	8662.4	8634.1
17.5°	8568.4	8548.3	8542.8	8469.7	8439.6
20°	8411.3	8404.0	8359.2	8268.8	8228.6
22.5°	8245.9	8232.2	8154.6	8045.9	7997.5
25°	8052.3	8045.9	7915.3	7802.9	7741.7
27.5°	7844.1	7828.5	7660.4	7519.8	7436.6
30°	7638.5	7600.2	7389.2	7191.9	7073.2
32.5°	7405.6	7333.4	7081.4	6829.3	6692.3
35°	7139.0	7052.1	6744.3	6405.4	6255.7
37.5°	6880.4	6749.8	6379.0	5955.2	5763.4
40°	6588.2	6400.9	5968.0	5475.7	5263.7
42.5°	6280.3	6052.0	5530.5	4957.8	4740.4
45°	5970.7	5683.0	5038.1	4439.9	4245.3
47.5°	5602.6	5297.6	4526.7	3945.8	3778.6
50°	5248.3	4892.1	4009.7	3485.5	3371.3
52.5°	4877.4	4445.4	3507.4	3096.3	2985.8
55°	4492.0	3984.1	3048.0	2713.6	2626.0
57.5°	4104.7	3510.1	2640.6	2365.7	2208.6
60°	3699.2	3039.7	2278.9	1922.6	1461.4
62.5°	3300.0	2550.1	1918.1	1205.7	929.8
65°	2897.2	2128.1	1606.7	795.5	654.9
67.5°	2512.7	1719.9	1146.3	576.3	490.5
70°	2116.3	1406.6	738.9	412.9	343.4
72.5°	1719.0	1131.7	507.0	271.3	220.1
75°	1345.4	881.4	342.6	177.2	161.6
77.5°	1008.3	608.3	190.9	131.5	123.3
80°	686.0	364.5	116.0	100.5	95.0
82.5°	411.1	174.5	84.1	74.0	71.2
85°	209.2	67.5	52.9	45.6	43.0
87.5°	62.1	33.8	23.7	18.3	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)