

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: P563340

Luminaire Tested: **VHB-18-W-UNV-L735-CD**

Issue Date: 6/3/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563340  
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-L735-CD  
Description: 18000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 70CRI, 3500K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

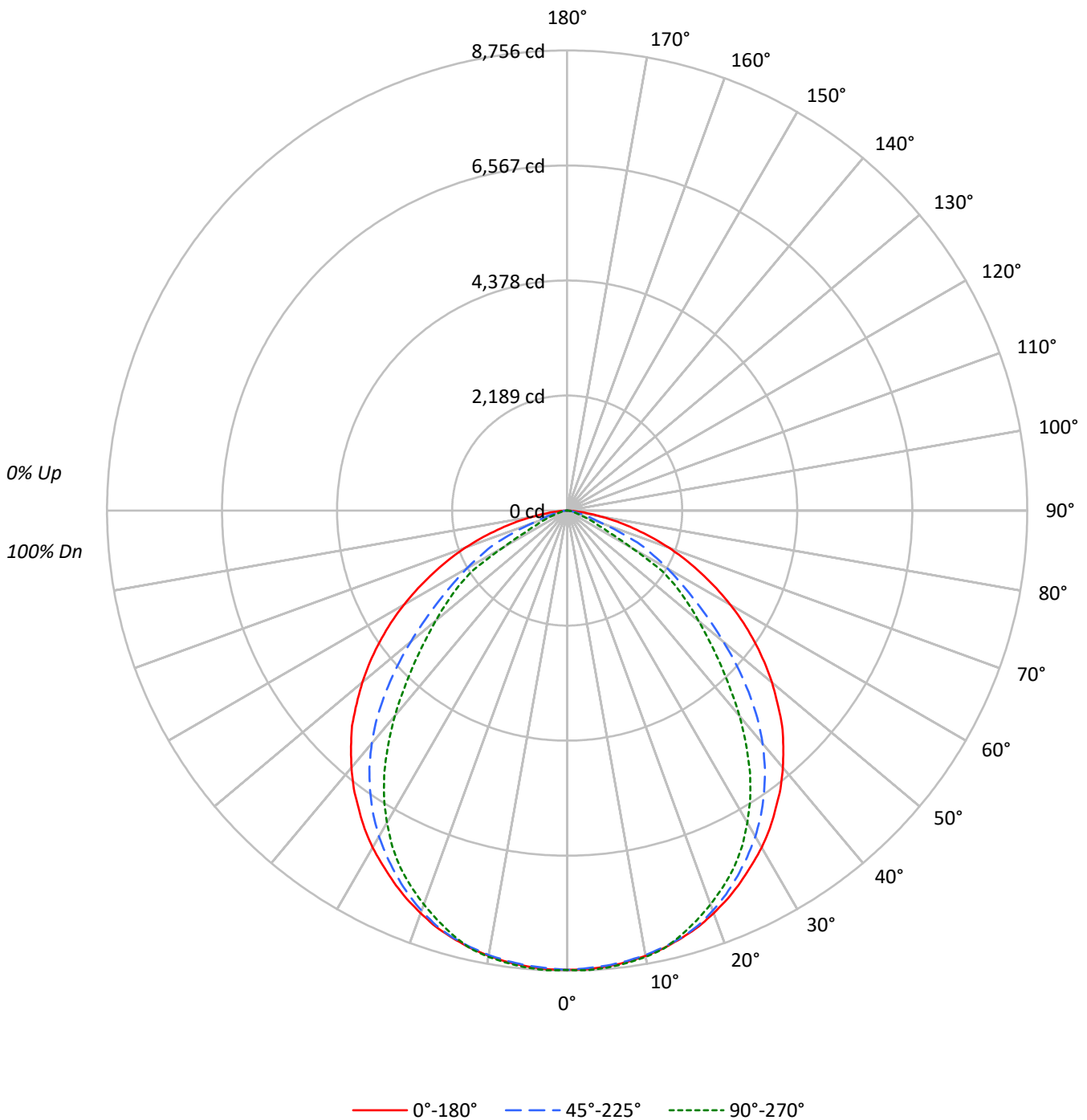
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19658.0 lumens  
Efficiency: N/A  
Efficacy: 157.3 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°	50929	50929	50929
5°	50937	50833	51067
10°	50918	50808	51018
15°	50798	50744	50483
20°	50553	50239	49454
25°	50178	49324	48243
30°	49813	48187	46127
35°	49220	46499	43130
40°	48571	43999	38806
45°	47688	40239	33907
50°	46113	35229	29621
55°	44230	30011	25857
60°	41783	25741	16507
65°	38716	21470	8751
70°	34946	12201	5670
75°	29357	7475	3528
80°	22309	3772	3087
85°	13552	3430	2788



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	827.4	4.2
10°-20°	2367.3	12.0
20°-30°	3528.9	18.0
30°-40°	4064.1	20.7
40°-50°	3782.3	19.2
50°-60°	2878.0	14.6
60°-70°	1544.9	7.9
70°-80°	568.4	2.9
80°-90°	96.6	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°	6723.7	34.2
0°-40°	10787.8	54.9
0°-60°	17448.1	88.8
0°-90°	19658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19658.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8740	8740	8740	8740	8740	
5°	8708	8683	8690	8720	8730	828
15°	8420	8407	8412	8396	8368	2377
25°	7804	7798	7671	7562	7503	3597
35°	6919	6835	6536	6208	6063	4331
45°	5787	5508	4883	4303	4114	4447
55°	4354	3861	2954	2630	2545	3889
65°	2808	2062	1557	771	635	2784
75°	1304	854	332	172	157	1398
85°	203	66	51	44	42	270
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8739.9	8739.9	8739.9	8739.9	8739.9
2.5°	8733.6	8707.1	8716.0	8744.3	8755.8
5°	8708.0	8683.2	8690.2	8720.4	8730.2
7.5°	8665.5	8641.6	8647.0	8675.3	8685.0
10°	8605.3	8580.6	8586.7	8614.1	8622.1
12.5°	8523.8	8500.8	8506.2	8525.7	8534.5
15°	8420.3	8407.0	8411.5	8395.5	8368.1
17.5°	8304.4	8284.9	8279.5	8208.7	8179.5
20°	8152.1	8145.0	8101.6	8014.0	7975.0
22.5°	7991.9	7978.5	7903.3	7797.9	7751.1
25°	7804.2	7797.9	7671.4	7562.5	7503.2
27.5°	7602.4	7587.3	7424.4	7288.1	7207.5
30°	7403.1	7366.0	7161.5	6970.3	6855.3
32.5°	7177.4	7107.5	6863.2	6618.9	6486.1
35°	6919.0	6834.8	6536.5	6208.1	6062.9
37.5°	6668.4	6541.8	6182.4	5771.7	5585.8
40°	6385.2	6203.7	5784.1	5306.9	5101.5
42.5°	6086.8	5865.5	5360.1	4805.0	4594.3
45°	5786.7	5507.9	4882.9	4303.1	4114.5
47.5°	5430.0	5134.4	4387.2	3824.2	3662.2
50°	5086.6	4741.3	3886.1	3378.1	3267.4
52.5°	4727.2	4308.4	3399.3	3000.9	2893.8
55°	4353.6	3861.3	2954.0	2630.0	2545.1
57.5°	3978.2	3402.0	2559.2	2292.8	2140.5
60°	3585.2	2946.0	2208.7	1863.4	1416.4
62.5°	3198.3	2471.5	1859.0	1168.5	901.1
65°	2807.9	2062.5	1557.1	771.0	634.7
67.5°	2435.3	1666.9	1110.9	558.5	475.3
70°	2051.1	1363.2	716.1	400.1	332.8
72.5°	1666.0	1096.8	491.3	263.0	213.3
75°	1303.9	854.2	332.0	171.8	156.7
77.5°	977.3	589.5	185.0	127.4	119.5
80°	664.8	353.2	112.4	97.4	92.0
82.5°	398.4	169.1	81.5	71.7	69.0
85°	202.7	65.5	51.3	44.2	41.7
87.5°	60.2	32.7	23.0	17.7	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)