

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: P563341

Luminaire Tested: **VHB-18-W-UNV-L740-CD**

Issue Date: 6/3/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563341  
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-L740-CD  
Description: 18000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 70CRI, 4000K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

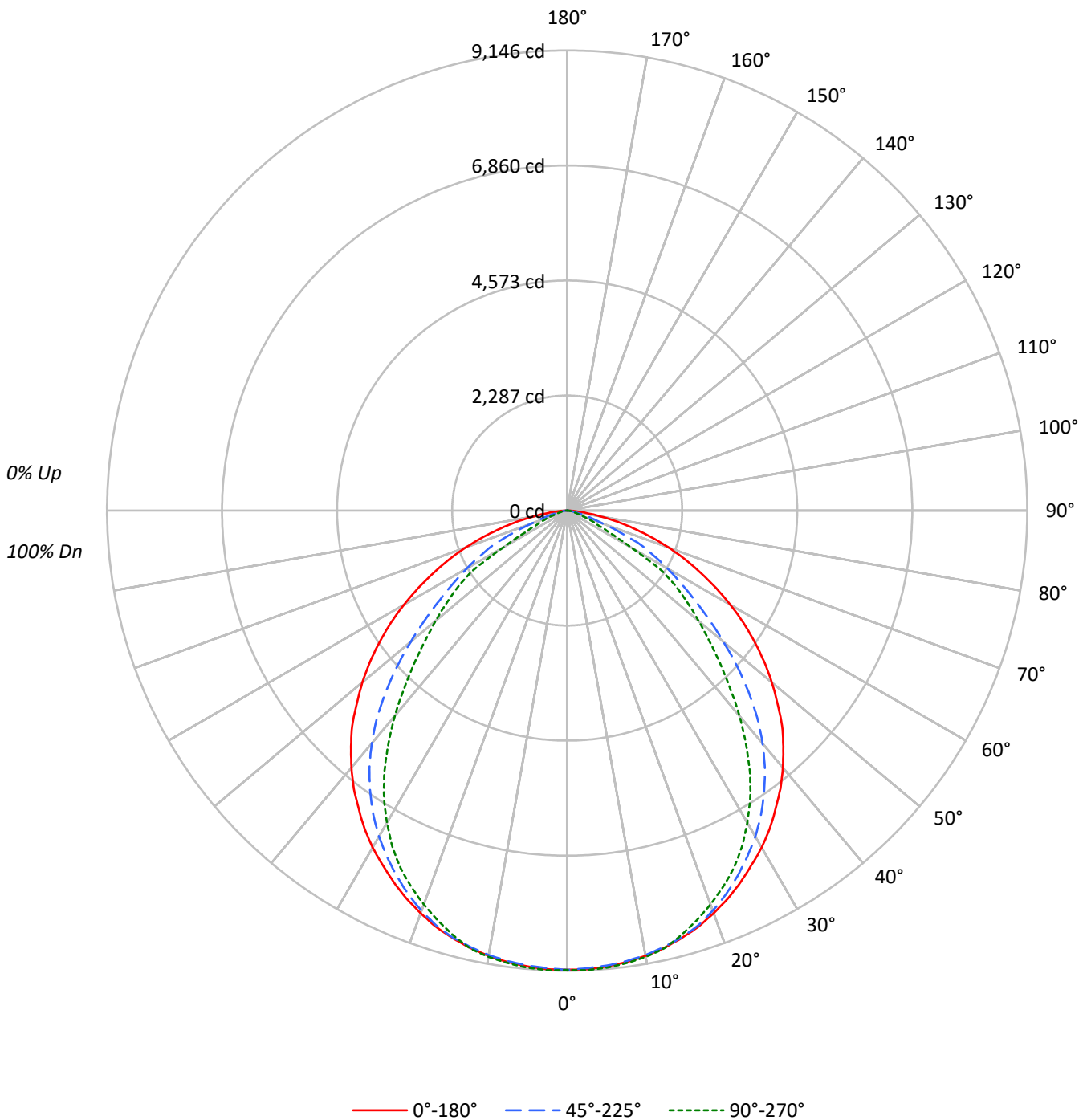
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20533.0 lumens  
Efficiency: N/A  
Efficacy: 164.3 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°	53196	53196	53196
5°	53204	53096	53339
10°	53185	53070	53289
15°	53059	53003	52730
20°	52803	52475	51656
25°	52411	51520	50390
30°	52031	50332	48180
35°	51410	48568	45050
40°	50733	45958	40534
45°	49810	42030	35417
50°	48165	36798	30939
55°	46199	31347	27008
60°	43643	26887	17241
65°	40440	22427	9140
70°	36501	12744	5922
75°	30665	7808	3683
80°	23302	3943	3225
85°	14161	3584	2908



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	864.3	4.2
10°-20°	2472.7	12.0
20°-30°	3686.0	18.0
30°-40°	4245.0	20.7
40°-50°	3950.6	19.2
50°-60°	3006.1	14.6
60°-70°	1613.6	7.9
70°-80°	593.7	2.9
80°-90°	101.0	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°	7023.0	34.2
0°-40°	11268.0	54.9
0°-60°	18224.7	88.8
0°-90°	20533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20533.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9129	9129	9129	9129	9129	
5°	9096	9070	9077	9109	9119	865
15°	8795	8781	8786	8769	8741	2482
25°	8152	8145	8013	7899	7837	3757
35°	7227	7139	6827	6484	6333	4524
45°	6044	5753	5100	4495	4298	4645
55°	4547	4033	3086	2747	2658	4062
65°	2933	2154	1626	805	663	2908
75°	1362	892	347	179	164	1460
85°	212	68	54	46	44	282
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9128.9	9128.9	9128.9	9128.9	9128.9
2.5°	9122.4	9094.6	9104.0	9133.5	9145.5
5°	9095.6	9069.7	9077.1	9108.6	9118.7
7.5°	9051.2	9026.3	9031.8	9061.4	9071.6
10°	8988.3	8962.5	8968.9	8997.5	9005.9
12.5°	8903.2	8879.2	8884.8	8905.2	8914.4
15°	8795.1	8781.2	8785.9	8769.2	8740.6
17.5°	8674.0	8653.6	8648.1	8574.1	8543.6
20°	8515.0	8507.6	8462.2	8370.7	8330.0
22.5°	8347.6	8333.6	8255.1	8145.0	8096.1
25°	8151.6	8145.0	8012.9	7899.1	7837.2
27.5°	7940.8	7925.0	7754.8	7612.5	7528.3
30°	7732.7	7693.9	7480.3	7280.5	7160.4
32.5°	7496.9	7423.8	7168.6	6913.5	6774.8
35°	7226.9	7139.1	6827.4	6484.4	6332.8
37.5°	6965.2	6833.0	6457.6	6028.6	5834.4
40°	6669.4	6479.8	6041.6	5543.2	5328.6
42.5°	6357.7	6126.6	5598.7	5018.9	4798.8
45°	6044.3	5753.1	5100.2	4494.6	4297.7
47.5°	5671.6	5362.9	4582.5	3994.4	3825.2
50°	5313.0	4952.4	4059.1	3528.4	3412.8
52.5°	4937.6	4500.2	3550.6	3134.5	3022.6
55°	4547.4	4033.2	3085.5	2747.1	2658.4
57.5°	4155.3	3553.4	2673.1	2394.8	2235.8
60°	3744.8	3077.2	2307.0	1946.3	1479.4
62.5°	3340.7	2581.5	1941.7	1220.5	941.2
65°	2932.9	2154.4	1626.5	805.4	662.9
67.5°	2543.7	1741.1	1160.4	583.4	496.5
70°	2142.4	1423.9	748.0	417.9	347.6
72.5°	1740.2	1145.6	513.2	274.7	222.8
75°	1362.0	892.3	346.8	179.4	163.6
77.5°	1020.8	615.8	193.2	133.1	124.8
80°	694.4	369.0	117.5	101.7	96.1
82.5°	416.1	176.6	85.1	74.9	72.1
85°	211.8	68.4	53.6	46.2	43.5
87.5°	62.9	34.2	24.0	18.5	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)