

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: P417692

Luminaire Tested: **VHB-1215-N-UNV-L735-CD-U-LEVEL1**

Issue Date: 11/17/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P417692  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 11/17/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VHB-1215-N-UNV-L735-CD-U-LEVEL1  
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS  
Light Source: 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12731.7 lumens  
Efficiency: N/A  
Efficacy: 158.0 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 0.74 / 0.88  
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')  
CIE Type: Direct

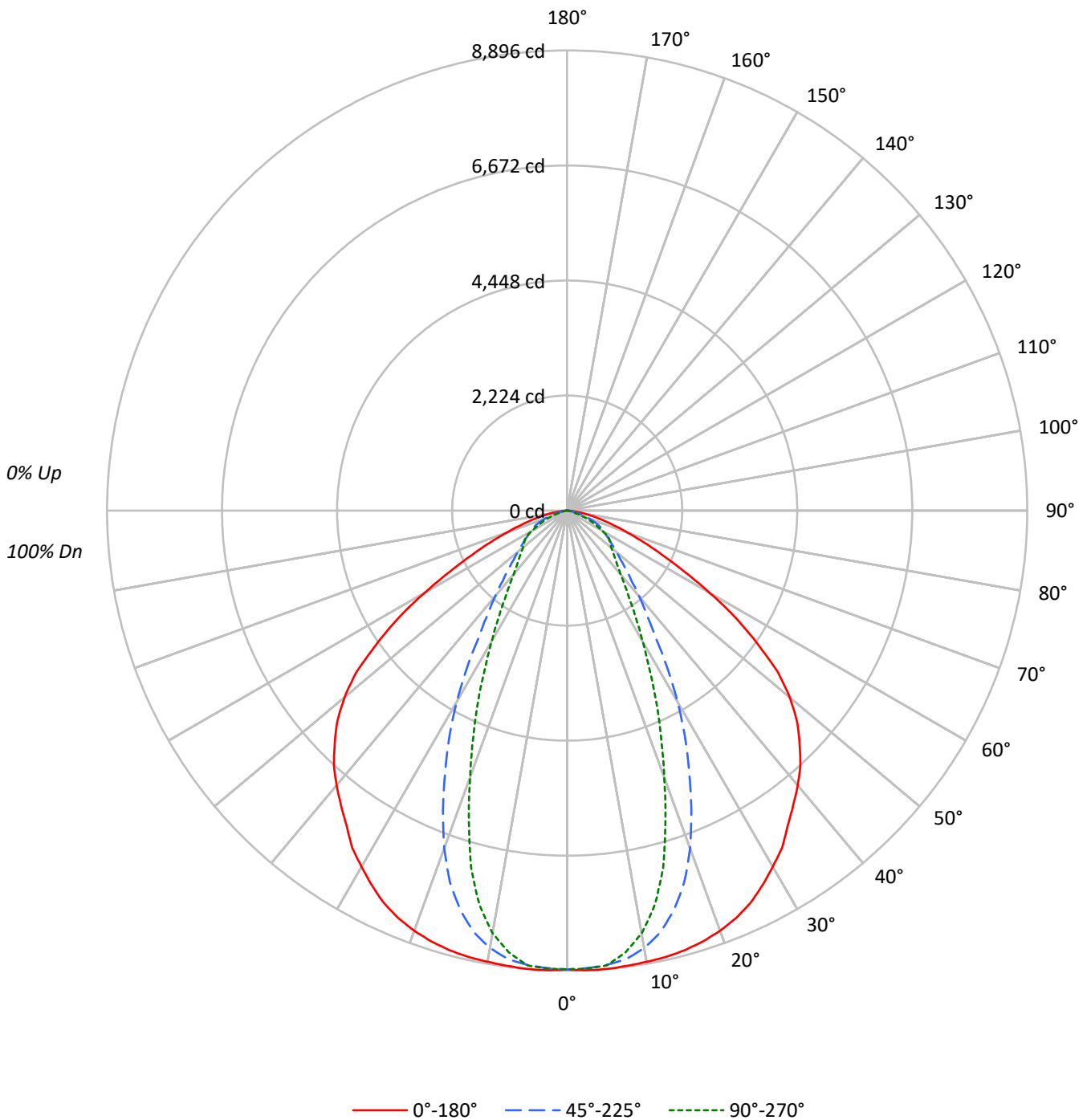
Input Watts (W): 80.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	104	101	109	105	102	99	101	99	96	97	95	93	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	73	68	64	71	67	63	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	67	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	56	51	47	46					46			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42					42			
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38					38			
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36					36			

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

	0°	45°	90°
0°	54558	54558	54558
5°	54928	54438	54498
10°	55317	53622	51827
15°	56013	50857	45587
20°	56580	45493	35881
25°	56840	37857	27648
30°	56459	30300	20698
35°	55814	22290	15843
40°	55677	17395	12886
45°	55284	13996	11425
50°	53786	11929	10656
55°	48216	10730	10751
60°	39181	10087	9673
65°	29556	9779	7862
70°	22418	8105	5379
75°	16966	6091	2883
80°	12252	3004	2366
85°	7876	2576	1997



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	834.6	6.6
10°-20°	2218.0	17.4
20°-30°	2713.3	21.3
30°-40°	2434.4	19.1
40°-50°	1887.5	14.8
50°-60°	1400.9	11.0
60°-70°	845.0	6.6
70°-80°	337.0	2.6
80°-90°	60.8	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°	5766.0	45.3
0°-40°	8200.4	64.4
0°-60°	11488.8	90.2
0°-90°	12731.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12731.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8870	8870	8870	8870	8870	
5°	8896	8840	8817	8791	8827	848
15°	8796	8556	7987	7393	7159	2486
25°	8375	7452	5578	4425	4074	3852
35°	7433	5463	2969	2268	2110	4665
45°	6356	2870	1609	1347	1313	4891
55°	4496	1534	1001	967	1003	3995
65°	2031	851	672	573	540	2072
75°	714	414	256	135	121	783
85°	112	46	36	31	28	147
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8870.0	8870.0	8870.0	8870.0	8870.0
2.5°	8895.5	8842.4	8855.5	8855.5	8858.3
5°	8896.2	8840.4	8816.9	8791.4	8826.6
7.5°	8876.2	8811.4	8746.6	8638.5	8615.7
10°	8856.9	8762.5	8585.4	8378.0	8298.0
12.5°	8837.6	8693.6	8347.0	7954.9	7817.1
15°	8796.3	8555.8	7986.6	7392.6	7159.0
17.5°	8732.2	8361.4	7532.5	6677.3	6318.3
20°	8644.0	8120.3	6950.2	5877.3	5481.7
22.5°	8528.2	7833.6	6271.4	5112.4	4745.8
25°	8375.2	7451.8	5578.2	4425.3	4073.9
27.5°	8171.9	7024.6	4927.7	3784.5	3435.1
30°	7949.4	6562.2	4266.2	3178.1	2914.2
32.5°	7730.9	6058.5	3601.2	2668.2	2479.4
35°	7433.2	5463.1	2968.6	2267.8	2110.0
37.5°	7180.3	4821.6	2515.9	1952.9	1839.2
40°	6934.3	4140.1	2166.5	1707.6	1604.9
42.5°	6675.2	3465.4	1843.3	1498.8	1438.1
45°	6355.5	2870.1	1609.0	1347.2	1313.4
47.5°	6026.8	2430.4	1395.4	1232.8	1206.6
50°	5620.9	2059.0	1246.6	1119.8	1113.6
52.5°	5134.4	1768.2	1109.4	1035.7	1048.8
55°	4496.3	1533.9	1000.6	966.8	1002.6
57.5°	3872.0	1326.5	904.1	914.4	944.7
60°	3185.0	1140.4	820.0	837.9	786.3
62.5°	2553.1	990.2	747.0	696.0	653.3
65°	2030.8	851.0	671.9	573.3	540.2
67.5°	1598.0	725.6	567.1	469.3	427.9
70°	1246.6	611.9	450.7	365.2	299.1
72.5°	950.9	511.3	356.9	221.2	177.1
75°	713.9	414.1	256.3	135.1	121.3
77.5°	511.3	310.8	149.5	98.5	93.0
80°	345.9	203.3	84.8	72.4	66.8
82.5°	215.7	112.3	57.9	51.0	47.5
85°	111.6	46.2	36.5	31.0	28.3
87.5°	39.3	20.7	16.5	13.1	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)