

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: P417705

Luminaire Tested: **VHB-1215-N-UNV-L835-CD-U-LEVEL2**

Issue Date: 11/17/2020

Test Information

Test Method: LM-79-08
Report Number: P417705
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-L835-CD-U-LEVEL2
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15356.6 lumens
Efficiency: N/A
Efficacy: 139.7 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

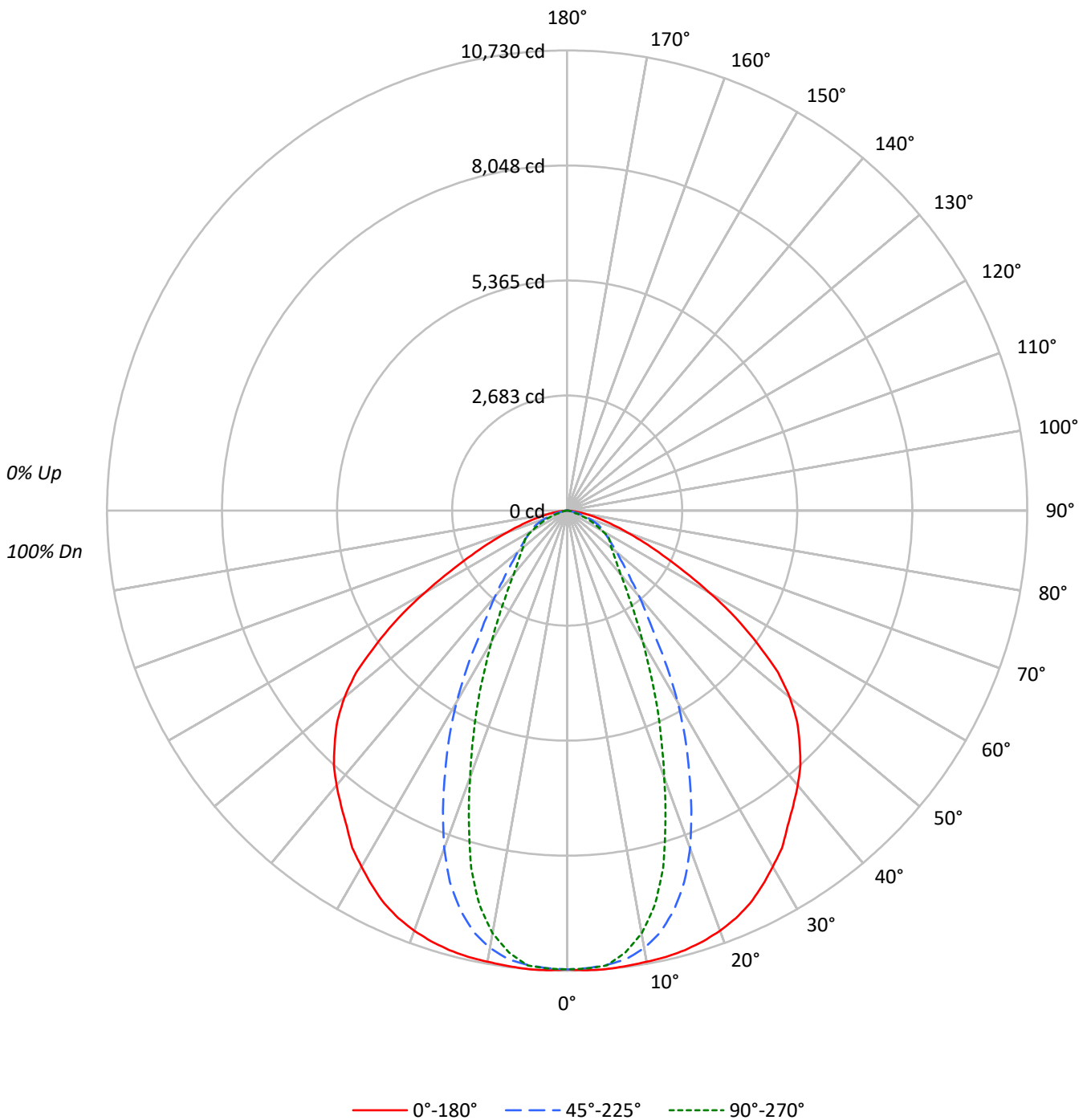
Input Watts (W): 109.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	65806	65806	65806
5°	66252	65662	65734
10°	66723	64677	62512
15°	67561	61342	54986
20°	68244	54872	43278
25°	68559	45663	33348
30°	68099	36546	24965
35°	67322	26887	19110
40°	67157	20982	15543
45°	66681	16882	13780
50°	64875	14388	12853
55°	58158	12942	12968
60°	47258	12167	11667
65°	35649	11795	9483
70°	27040	9776	6487
75°	20464	7348	3477
80°	14778	3620	2855
85°	9499	3112	2407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1006.7	6.6
10°-20°	2675.3	17.4
20°-30°	3272.8	21.3
30°-40°	2936.3	19.1
40°-50°	2276.6	14.8
50°-60°	1689.8	11.0
60°-70°	1019.2	6.6
70°-80°	406.5	2.6
80°-90°	73.4	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
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0°-30°	6954.8	45.3
0°-40°	9891.1	64.4
0°-60°	13857.5	90.2
0°-90°	15356.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15356.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10699	10699	10699	10699	10699	
5°	10730	10663	10635	10604	10646	###
15°	10610	10320	9633	8917	8635	2998
25°	10102	8988	6728	5338	4914	4646
35°	8966	6590	3581	2735	2545	5627
45°	7666	3462	1941	1625	1584	5900
55°	5423	1850	1207	1166	1209	4819
65°	2449	1026	810	692	652	2499
75°	861	500	309	163	146	944
85°	135	56	44	37	34	177
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10698.8	10698.8	10698.8	10698.8	10698.8
2.5°	10729.5	10665.5	10681.3	10681.3	10684.6
5°	10730.3	10663.0	10634.8	10604.0	10646.4
7.5°	10706.2	10628.1	10550.0	10419.5	10392.1
10°	10683.0	10569.1	10355.5	10105.3	10008.9
12.5°	10659.7	10486.0	10067.9	9595.0	9428.7
15°	10609.8	10319.7	9633.2	8916.7	8635.0
17.5°	10532.5	10085.4	9085.5	8054.0	7620.9
20°	10426.1	9794.4	8383.1	7089.0	6611.9
22.5°	10286.5	9448.7	7564.4	6166.4	5724.2
25°	10102.0	8988.2	6728.3	5337.7	4913.8
27.5°	9856.8	8472.9	5943.7	4564.8	4143.4
30°	9588.3	7915.2	5145.7	3833.3	3515.0
32.5°	9324.8	7307.6	4343.7	3218.3	2990.5
35°	8965.8	6589.5	3580.7	2735.4	2545.0
37.5°	8660.7	5815.7	3034.6	2355.5	2218.4
40°	8364.0	4993.6	2613.2	2059.6	1935.8
42.5°	8051.5	4179.9	2223.4	1807.8	1734.6
45°	7665.8	3461.8	1940.8	1624.9	1584.2
47.5°	7269.4	2931.5	1683.1	1487.0	1455.4
50°	6779.8	2483.5	1503.6	1350.6	1343.2
52.5°	6193.0	2132.8	1338.2	1249.2	1265.0
55°	5423.4	1850.2	1206.9	1166.1	1209.3
57.5°	4670.3	1600.0	1090.5	1103.0	1139.5
60°	3841.6	1375.6	989.1	1010.7	948.4
62.5°	3079.5	1194.4	901.0	839.5	787.9
65°	2449.4	1026.5	810.4	691.5	651.6
67.5°	1927.5	875.2	684.0	566.0	516.2
70°	1503.6	738.1	543.6	440.5	360.7
72.5°	1147.0	616.7	430.5	266.8	213.6
75°	861.1	499.5	309.2	162.9	146.3
77.5°	616.7	374.9	180.4	118.9	112.2
80°	417.2	245.2	102.2	87.3	80.6
82.5°	260.2	135.5	69.8	61.5	57.4
85°	134.6	55.7	44.1	37.4	34.1
87.5°	47.4	24.9	19.9	15.8	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)