

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: P417725

Luminaire Tested: **VHB-1215-N-UNV-L950-CD-U-LEVEL2**

Issue Date: 11/17/2020

Test Information

Test Method: LM-79-08
Report Number: P417725
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-L950-CD-U-LEVEL2
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14103.0 lumens
Efficiency: N/A
Efficacy: 128.3 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

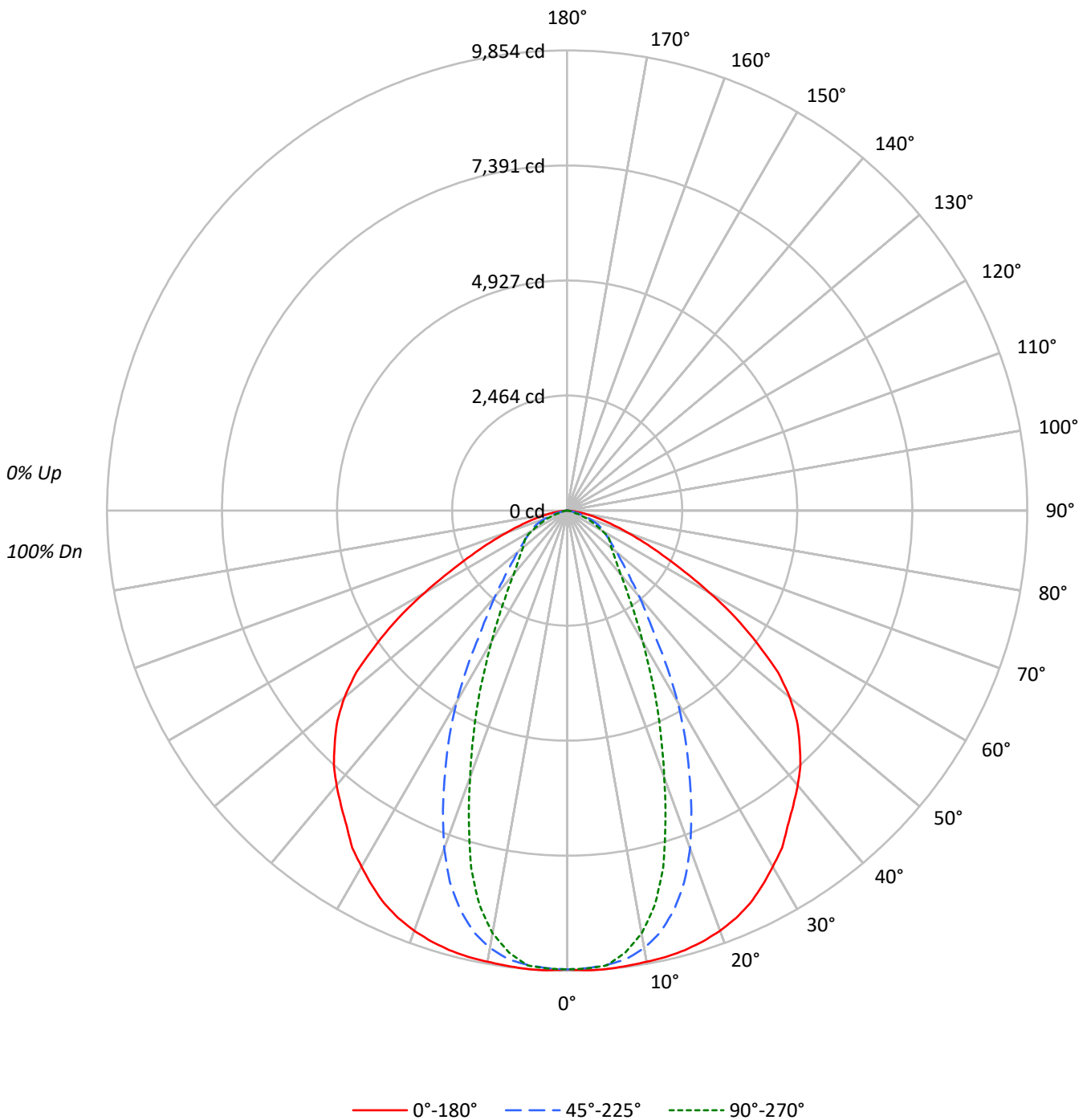
Input Watts (W): 109.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	60434	60434	60434
5°	60844	60302	60368
10°	61276	59397	57409
15°	62046	56334	50497
20°	62673	50393	39746
25°	62962	41935	30626
30°	62540	33563	22927
35°	61826	24692	17550
40°	61675	19269	14274
45°	61239	15503	12655
50°	59580	13213	11803
55°	53410	11885	11910
60°	43400	11174	10713
65°	32739	10831	8709
70°	24832	8977	5958
75°	18793	6749	3192
80°	13573	3326	2621
85°	8730	2858	2209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	924.5	6.6
10°-20°	2456.9	17.4
20°-30°	3005.6	21.3
30°-40°	2696.6	19.1
40°-50°	2090.8	14.8
50°-60°	1551.8	11.0
60°-70°	936.0	6.6
70°-80°	373.4	2.6
80°-90°	67.4	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
0°-30°	6387.0	45.3
0°-40°	9083.7	64.4
0°-60°	12726.3	90.2
0°-90°	14103.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14103.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9825	9825	9825	9825	9825	
5°	9854	9793	9767	9738	9777	939
15°	9744	9477	8847	8189	7930	2753
25°	9277	8254	6179	4902	4513	4267
35°	8234	6052	3288	2512	2337	5168
45°	7040	3179	1782	1492	1455	5418
55°	4981	1699	1108	1071	1111	4425
65°	2250	943	744	635	598	2295
75°	791	459	284	150	134	867
85°	124	51	40	34	31	163
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9825.4	9825.4	9825.4	9825.4	9825.4
2.5°	9853.6	9794.9	9809.4	9809.4	9812.4
5°	9854.4	9792.6	9766.6	9738.4	9777.3
7.5°	9832.3	9760.5	9688.8	9568.9	9543.7
10°	9810.9	9706.3	9510.1	9280.4	9191.8
12.5°	9789.5	9630.0	9246.0	8811.7	8659.0
15°	9743.7	9477.3	8846.8	8188.8	7930.1
17.5°	9672.7	9262.1	8343.8	7396.5	6998.8
20°	9575.0	8994.9	7698.8	6510.3	6072.2
22.5°	9446.8	8677.4	6946.9	5663.0	5256.9
25°	9277.3	8254.5	6179.0	4902.0	4512.7
27.5°	9052.1	7781.2	5458.5	4192.1	3805.1
30°	8805.6	7269.0	4725.7	3520.4	3228.1
32.5°	8563.6	6711.1	3989.1	2955.6	2746.4
35°	8233.9	6051.6	3288.4	2512.1	2337.3
37.5°	7953.7	5340.9	2786.9	2163.2	2037.3
40°	7681.2	4586.0	2399.9	1891.5	1777.8
42.5°	7394.2	3838.7	2041.9	1660.2	1593.0
45°	7040.1	3179.2	1782.3	1492.3	1454.9
47.5°	6675.9	2692.2	1545.7	1365.6	1336.6
50°	6226.4	2280.8	1380.8	1240.4	1233.5
52.5°	5687.5	1958.7	1228.9	1147.3	1161.8
55°	4980.6	1699.1	1108.3	1070.9	1110.6
57.5°	4289.1	1469.4	1001.5	1012.9	1046.5
60°	3528.0	1263.3	908.3	928.2	870.9
62.5°	2828.1	1096.9	827.4	770.9	723.6
65°	2249.5	942.7	744.2	635.1	598.4
67.5°	1770.1	803.8	628.2	519.8	474.0
70°	1380.8	677.8	499.2	404.6	331.3
72.5°	1053.4	566.4	395.4	245.0	196.2
75°	790.8	458.8	284.0	149.6	134.3
77.5°	566.4	344.3	165.6	109.2	103.0
80°	383.2	225.2	93.9	80.1	74.0
82.5°	238.9	124.4	64.1	56.5	52.7
85°	123.7	51.1	40.5	34.3	31.3
87.5°	43.5	22.9	18.3	14.5	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)