

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: P417696

Luminaire Tested: **VHB-1215-N-UNV-L740-CD-U-LEVEL1**

Issue Date: 11/17/2020

Test Information

Test Method: LM-79-08
Report Number: P417696
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-L740-CD-U-LEVEL1
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS
Light Source: 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12851.8 lumens
Efficiency: N/A
Efficacy: 159.5 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

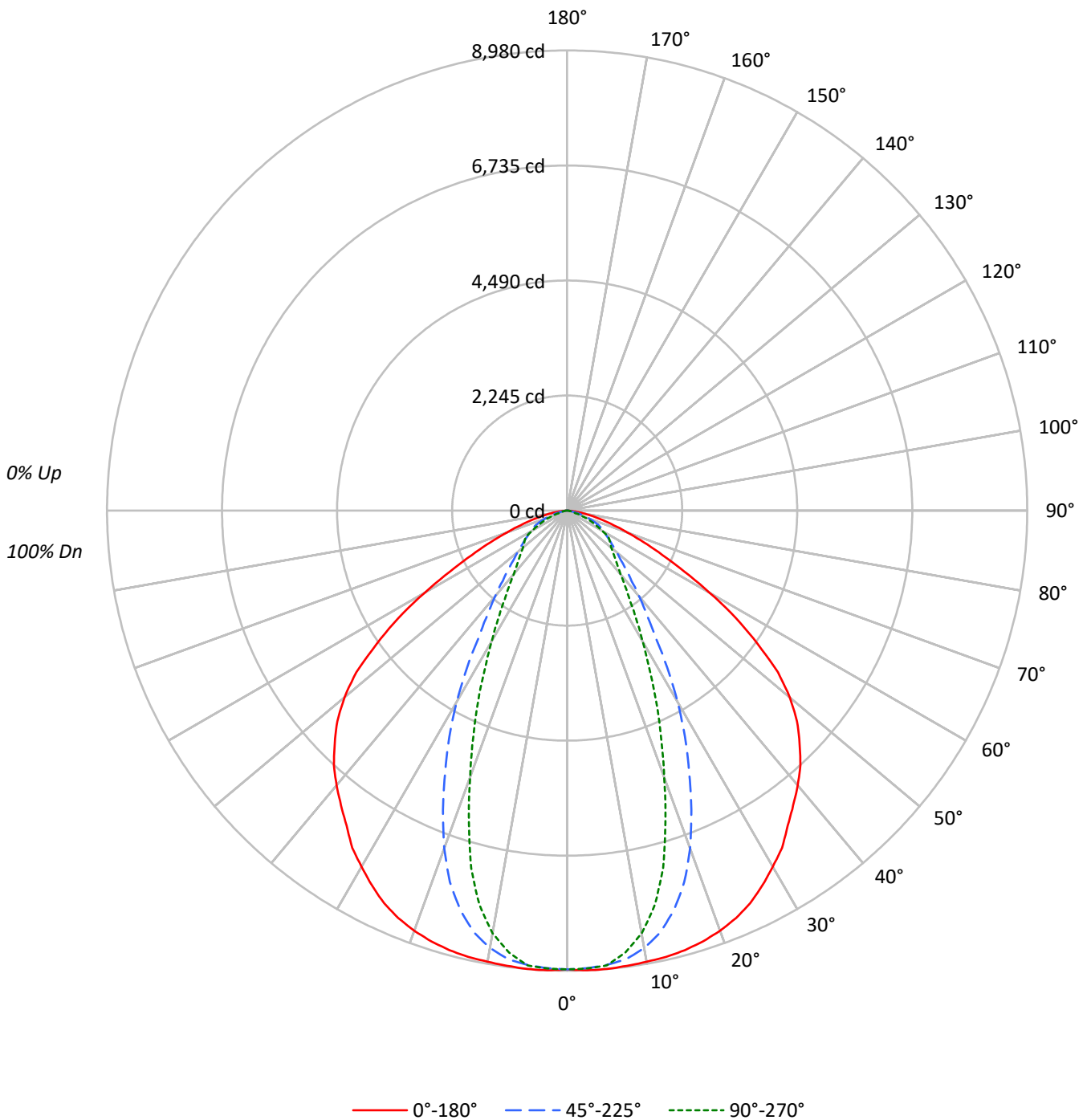
Input Watts (W): 80.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	55072	55072	55072
5°	55446	54952	55012
10°	55839	54128	52316
15°	56541	51336	46017
20°	57113	45922	36219
25°	57376	38214	27909
30°	56992	30585	20893
35°	56341	22501	15993
40°	56203	17559	13007
45°	55805	14128	11533
50°	54293	12041	10756
55°	48671	10831	10853
60°	39550	10183	9764
65°	29834	9871	7936
70°	22629	8181	5429
75°	17125	6150	2909
80°	12369	3032	2391
85°	7954	2604	2011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	842.5	6.6
10°-20°	2239.0	17.4
20°-30°	2738.9	21.3
30°-40°	2457.4	19.1
40°-50°	1905.3	14.8
50°-60°	1414.1	11.0
60°-70°	852.9	6.6
70°-80°	340.2	2.6
80°-90°	61.4	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°	5820.4	45.3
0°-40°	8277.8	64.4
0°-60°	11597.2	90.2
0°-90°	12851.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12851.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8954	8954	8954	8954	8954	
5°	8980	8924	8900	8874	8910	856
15°	8879	8636	8062	7462	7226	2509
25°	8454	7522	5631	4467	4112	3889
35°	7503	5515	2997	2289	2130	4709
45°	6416	2897	1624	1360	1326	4938
55°	4539	1548	1010	976	1012	4033
65°	2050	859	678	579	545	2091
75°	721	418	259	136	122	790
85°	113	47	37	31	28	148
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8953.7	8953.7	8953.7	8953.7	8953.7
2.5°	8979.4	8925.8	8939.1	8939.1	8941.8
5°	8980.1	8923.8	8900.1	8874.4	8909.8
7.5°	8959.9	8894.5	8829.2	8719.9	8697.0
10°	8940.5	8845.2	8666.4	8457.0	8376.3
12.5°	8921.0	8775.6	8425.7	8029.9	7890.8
15°	8879.2	8636.5	8061.9	7462.3	7226.5
17.5°	8814.6	8440.3	7603.5	6740.3	6377.9
20°	8725.5	8196.9	7015.7	5932.7	5533.4
22.5°	8608.7	7907.5	6330.6	5160.6	4790.5
25°	8454.2	7522.1	5630.8	4467.1	4112.3
27.5°	8249.0	7090.9	4974.2	3820.2	3467.5
30°	8024.4	6624.1	4306.4	3208.1	2941.7
32.5°	7803.9	6115.7	3635.2	2693.3	2502.7
35°	7503.4	5514.7	2996.6	2289.2	2129.9
37.5°	7248.1	4867.1	2539.6	1971.3	1856.5
40°	6999.7	4179.1	2186.9	1723.7	1620.0
42.5°	6738.2	3498.1	1860.7	1512.9	1451.7
45°	6415.5	2897.1	1624.2	1359.9	1325.8
47.5°	6083.7	2453.4	1408.6	1244.4	1218.0
50°	5673.9	2078.4	1258.3	1130.3	1124.1
52.5°	5182.9	1784.9	1119.9	1045.5	1058.7
55°	4538.7	1548.4	1010.0	975.9	1012.1
57.5°	3908.5	1339.0	912.6	923.1	953.7
60°	3215.0	1151.2	827.8	845.8	793.7
62.5°	2577.2	999.6	754.0	702.5	659.4
65°	2049.9	859.1	678.2	578.7	545.3
67.5°	1613.1	732.5	572.5	473.7	432.0
70°	1258.3	617.7	454.9	368.7	301.9
72.5°	959.9	516.1	360.3	223.3	178.8
75°	720.6	418.1	258.8	136.3	122.4
77.5°	516.1	313.7	150.9	99.5	93.9
80°	349.2	205.2	85.6	73.0	67.5
82.5°	217.7	113.4	58.4	51.5	48.0
85°	112.7	46.6	36.9	31.3	28.5
87.5°	39.6	20.9	16.7	13.2	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)