

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: P417697

Luminaire Tested: **VHB-1215-N-UNV-L740-CD-U-LEVEL2**

Issue Date: 11/17/2020

Test Information

Test Method: LM-79-08
Report Number: P417697
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-LEVEL2
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: 16766.9 lumens
Efficiency: N/A
Efficacy: 152.6 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

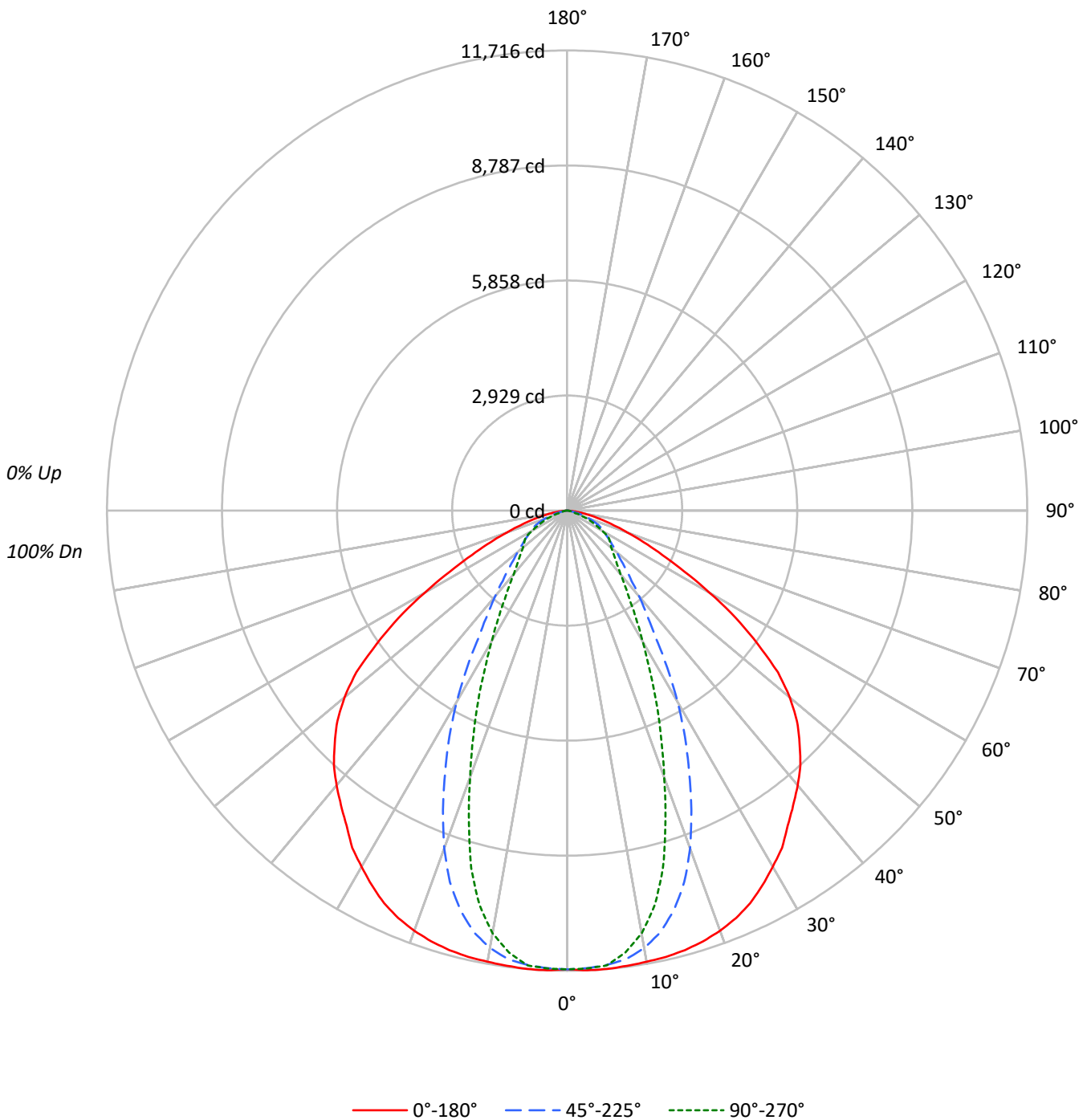
Input Watts (W): 109.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	71849	71849	71849
5°	72337	71692	71771
10°	72850	70617	68253
15°	73765	66976	60035
20°	74512	59911	47253
25°	74855	49856	36411
30°	74353	39903	27257
35°	73504	29355	20865
40°	73324	22909	16971
45°	72805	18432	15046
50°	70833	15709	14033
55°	63499	14130	14159
60°	51598	13284	12738
65°	38923	12877	10355
70°	29524	10673	7084
75°	22344	8023	3795
80°	16138	3953	3117
85°	10374	3395	2625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1099.1	6.6
10°-20°	2921.0	17.4
20°-30°	3573.3	21.3
30°-40°	3206.0	19.1
40°-50°	2485.7	14.8
50°-60°	1844.9	11.0
60°-70°	1112.8	6.6
70°-80°	443.9	2.6
80°-90°	80.1	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°	7593.5	45.3
0°-40°	10799.5	64.4
0°-60°	15130.1	90.2
0°-90°	16766.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16766.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11681	11681	11681	11681	11681	
5°	11716	11642	11611	11578	11624	###
15°	11584	11268	10518	9736	9428	3273
25°	11030	9814	7346	5828	5365	5073
35°	9789	7195	3910	2987	2779	6144
45°	8370	3780	2119	1774	1730	6442
55°	5921	2020	1318	1273	1320	5261
65°	2674	1121	885	755	712	2728
75°	940	545	338	178	160	1031
85°	147	61	48	41	37	193
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11681.3	11681.3	11681.3	11681.3	11681.3
2.5°	11714.9	11645.0	11662.2	11662.2	11665.9
5°	11715.8	11642.3	11611.4	11577.8	11624.1
7.5°	11689.5	11604.2	11518.8	11376.4	11346.4
10°	11664.0	11539.7	11306.5	11033.3	10928.1
12.5°	11638.6	11449.0	10992.5	10476.1	10294.6
15°	11584.2	11267.5	10517.9	9735.6	9428.0
17.5°	11499.8	11011.6	9919.8	8793.6	8320.8
20°	11383.6	10693.9	9153.0	7740.0	7219.1
22.5°	11231.2	10316.4	8259.1	6732.7	6249.9
25°	11029.7	9813.7	7346.2	5827.9	5365.1
27.5°	10762.0	9251.0	6489.5	4984.0	4523.9
30°	10468.9	8642.1	5618.3	4185.4	3837.8
32.5°	10181.2	7978.7	4742.6	3513.8	3265.2
35°	9789.2	7194.6	3909.5	2986.6	2778.8
37.5°	9456.1	6349.8	3313.3	2571.8	2422.1
40°	9132.1	5452.2	2853.2	2248.8	2113.6
42.5°	8790.9	4563.8	2427.6	1973.8	1893.9
45°	8369.8	3779.7	2119.0	1774.2	1729.7
47.5°	7937.0	3200.7	1837.7	1623.5	1589.0
50°	7402.4	2711.6	1641.7	1474.7	1466.5
52.5°	6761.8	2328.6	1461.1	1364.0	1381.2
55°	5921.4	2020.1	1317.7	1273.2	1320.4
57.5°	5099.2	1746.9	1190.6	1204.2	1244.2
60°	4194.4	1501.9	1079.9	1103.5	1035.5
62.5°	3362.3	1304.1	983.7	916.6	860.3
65°	2674.4	1120.8	884.8	755.0	711.5
67.5°	2104.5	955.6	746.9	618.0	563.6
70°	1641.7	805.9	593.5	481.0	393.9
72.5°	1252.3	673.4	470.1	291.3	233.2
75°	940.2	545.4	337.6	177.9	159.7
77.5°	673.4	409.3	196.9	129.8	122.5
80°	455.6	267.7	111.6	95.3	88.0
82.5°	284.0	147.9	76.2	67.2	62.6
85°	147.0	60.8	48.1	40.8	37.2
87.5°	51.7	27.2	21.8	17.2	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)