

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: P417704

Luminaire Tested: **VHB-1215-N-UNV-L835-CD-U-LEVEL1**

Issue Date: 11/17/2020

Test Information

Test Method: LM-79-08
Report Number: P417704
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-LEVEL1
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: 11770.8 lumens
Efficiency: N/A
Efficacy: 146.0 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

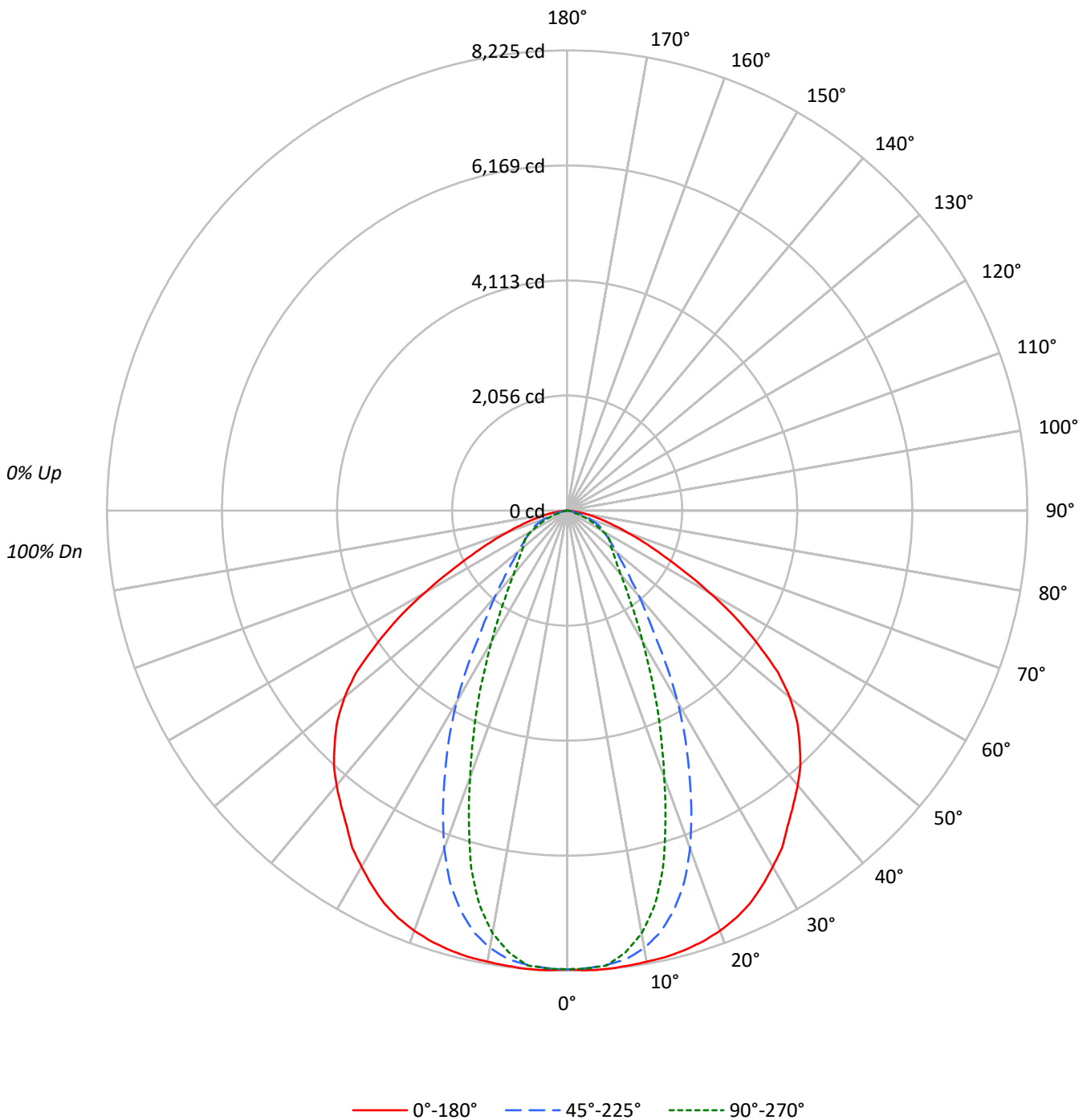
Input Watts (W): 80.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	50440	50440	50440
5°	50782	50330	50385
10°	51143	49574	47916
15°	51785	47018	42146
20°	52309	42059	33173
25°	52550	35000	25561
30°	52198	28013	19135
35°	51601	20608	14648
40°	51476	16083	11914
45°	51111	12940	10563
50°	49727	11028	9851
55°	44578	9919	9941
60°	36223	9326	8942
65°	27325	9041	7270
70°	20726	7494	4972
75°	15685	5632	2664
80°	11328	2777	2189
85°	7283	2385	1842



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.6	6.6
10°-20°	2050.6	17.4
20°-30°	2508.6	21.3
30°-40°	2250.7	19.1
40°-50°	1745.0	14.8
50°-60°	1295.2	11.0
60°-70°	781.2	6.6
70°-80°	311.6	2.6
80°-90°	56.2	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°	5330.8	45.3
0°-40°	7581.5	64.4
0°-60°	10621.7	90.2
0°-90°	11770.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11770.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8201	8201	8201	8201	8201	
5°	8225	8173	8152	8128	8160	784
15°	8132	7910	7384	6835	6619	2298
25°	7743	6889	5157	4091	3766	3561
35°	6872	5051	2745	2097	1951	4313
45°	5876	2654	1488	1246	1214	4522
55°	4157	1418	925	894	927	3693
65°	1878	787	621	530	500	1915
75°	660	383	237	125	112	724
85°	103	43	34	29	26	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8200.6	8200.6	8200.6	8200.6	8200.6
2.5°	8224.1	8175.1	8187.2	8187.2	8189.7
5°	8224.8	8173.2	8151.5	8127.9	8160.4
7.5°	8206.3	8146.4	8086.5	7986.5	7965.5
10°	8188.5	8101.2	7937.4	7745.7	7671.8
12.5°	8170.6	8037.5	7717.0	7354.5	7227.1
15°	8132.4	7910.0	7383.8	6834.6	6618.7
17.5°	8073.1	7730.4	6964.0	6173.4	5841.4
20°	7991.6	7507.4	6425.6	5433.7	5068.0
22.5°	7884.6	7242.4	5798.1	4726.5	4387.6
25°	7743.1	6889.4	5157.2	4091.4	3766.4
27.5°	7555.2	6494.4	4555.8	3498.9	3175.9
30°	7349.4	6067.0	3944.2	2938.2	2694.2
32.5°	7147.5	5601.3	3329.4	2466.8	2292.2
35°	6872.2	5050.8	2744.6	2096.6	1950.8
37.5°	6638.4	4457.7	2326.0	1805.5	1700.4
40°	6411.0	3827.6	2003.0	1578.7	1483.8
42.5°	6171.4	3203.9	1704.2	1385.7	1329.6
45°	5875.8	2653.5	1487.6	1245.5	1214.3
47.5°	5571.9	2247.0	1290.1	1139.7	1115.5
50°	5196.7	1903.6	1152.5	1035.3	1029.5
52.5°	4746.9	1634.8	1025.7	957.5	969.6
55°	4157.0	1418.2	925.0	893.8	927.0
57.5°	3579.8	1226.4	835.9	845.4	873.4
60°	2944.6	1054.4	758.1	774.7	726.9
62.5°	2360.4	915.5	690.6	643.5	604.0
65°	1877.5	786.8	621.2	530.1	499.5
67.5°	1477.4	670.9	524.3	433.9	395.6
70°	1152.5	565.7	416.7	337.7	276.5
72.5°	879.2	472.7	330.0	204.5	163.7
75°	660.0	382.9	237.0	124.9	112.1
77.5°	472.7	287.3	138.2	91.1	86.0
80°	319.8	187.9	78.4	66.9	61.8
82.5°	199.4	103.8	53.5	47.1	44.0
85°	103.2	42.7	33.8	28.7	26.1
87.5°	36.3	19.1	15.3	12.1	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)