

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: P470122

Luminaire Tested: **VHB2-15-N-UNV-L740-CD-U**

Issue Date: 01/20/2021

Test Information

Test Method: LM-79-08
Report Number: P470122
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/20/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB2-15-N-UNV-L740-CD-U
Description: VHB2 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: 16843.5 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.75 / 0.88
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

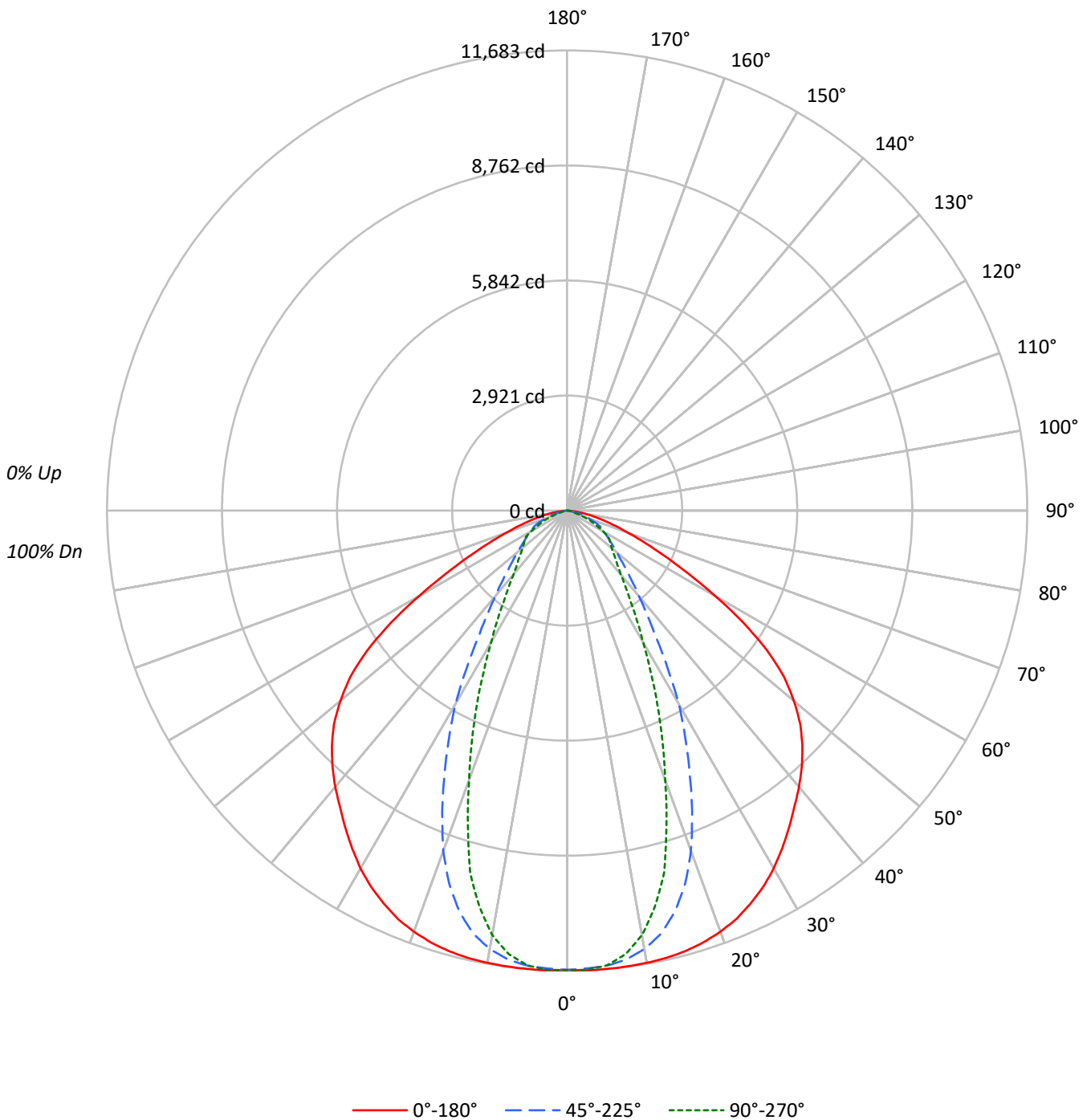
Input Watts (W): 110.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	65	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	54	48	71	60	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°	71732	71732	71732
5°	72131	71604	71549
10°	72820	70582	68357
15°	73739	67192	60578
20°	74470	60173	47625
25°	74735	49964	36750
30°	74496	40230	27364
35°	73759	29593	20991
40°	73531	22722	17008
45°	73470	18361	15107
50°	71944	15759	14098
55°	66502	14106	14130
60°	53314	13319	12896
65°	39607	12992	10422
70°	29711	10684	7078
75°	22389	8092	3840
80°	16272	3949	3234
85°	10459	3380	2590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1098.9	6.5
10°-20°	2928.1	17.4
20°-30°	3586.8	21.3
30°-40°	3221.2	19.1
40°-50°	2495.7	14.8
50°-60°	1867.5	11.1
60°-70°	1120.5	6.7
70°-80°	444.3	2.6
80°-90°	80.6	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°	7613.7	45.2
0°-40°	10835.0	64.3
0°-60°	15198.1	90.2
0°-90°	16843.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16843.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11662	11662	11662	11662	11662	
5°	11682	11631	11597	11594	11588	###
15°	11580	11276	10552	9771	9513	3272
25°	11012	9859	7362	5886	5415	5073
35°	9823	7264	3941	3021	2796	6153
45°	8446	3785	2111	1779	1737	6494
55°	6202	2008	1315	1274	1318	5443
65°	2721	1115	893	758	716	2788
75°	942	545	340	179	162	1039
85°	148	59	48	41	37	196
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11662.3	11662.3	11662.3	11662.3	11662.3
2.5°	11683.2	11640.6	11634.6	11663.8	11672.0
5°	11682.5	11630.9	11597.2	11594.2	11588.2
7.5°	11672.8	11604.7	11496.2	11410.1	11359.2
10°	11659.3	11539.6	11300.9	11053.2	10944.7
12.5°	11633.8	11437.8	11002.3	10525.7	10296.7
15°	11580.0	11276.2	10551.9	9771.4	9513.3
17.5°	11496.9	11033.7	9946.5	8818.2	8384.9
20°	11377.2	10727.7	9193.0	7817.8	7276.0
22.5°	11223.1	10333.4	8285.4	6747.8	6309.3
25°	11012.1	9859.0	7362.1	5886.5	5415.1
27.5°	10776.4	9325.5	6491.1	4984.1	4571.8
30°	10489.0	8676.8	5664.3	4194.0	3852.8
32.5°	10162.0	8008.6	4754.4	3522.0	3285.6
35°	9823.1	7264.0	3941.1	3020.7	2795.5
37.5°	9475.9	6419.3	3327.5	2590.5	2428.1
40°	9157.9	5477.2	2829.9	2247.8	2118.3
42.5°	8816.7	4592.8	2446.8	1973.9	1894.6
45°	8446.3	3784.7	2110.8	1779.3	1736.7
47.5°	8028.0	3192.8	1848.9	1630.4	1590.8
50°	7518.5	2711.7	1646.9	1475.6	1473.3
52.5°	6946.0	2333.8	1467.3	1363.3	1382.8
55°	6201.5	2008.3	1315.4	1274.3	1317.7
57.5°	5316.3	1742.7	1191.2	1205.4	1239.9
60°	4333.9	1503.2	1082.7	1094.7	1048.3
62.5°	3465.2	1293.7	984.7	921.8	862.7
65°	2721.4	1114.9	892.7	758.0	716.1
67.5°	2122.0	949.5	747.5	621.8	569.4
70°	1652.1	806.6	594.1	476.6	393.6
72.5°	1262.3	671.2	468.4	292.6	222.2
75°	942.1	544.7	340.5	178.8	161.6
77.5°	683.9	407.8	190.1	130.9	122.0
80°	459.4	275.4	111.5	95.8	91.3
82.5°	292.6	144.4	77.1	67.3	62.1
85°	148.2	59.1	47.9	41.2	36.7
87.5°	51.6	28.4	21.7	17.2	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)