

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: P470157

Luminaire Tested: **VHB2-15-N-UNV-L950-CD-U**

Issue Date: 01/20/2021

Test Information

Test Method: LM-79-08
Report Number: P470157
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-L950-CD-U
Description: VHB2 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: 14167.4 lumens
Efficiency: N/A
Efficacy: 128.1 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

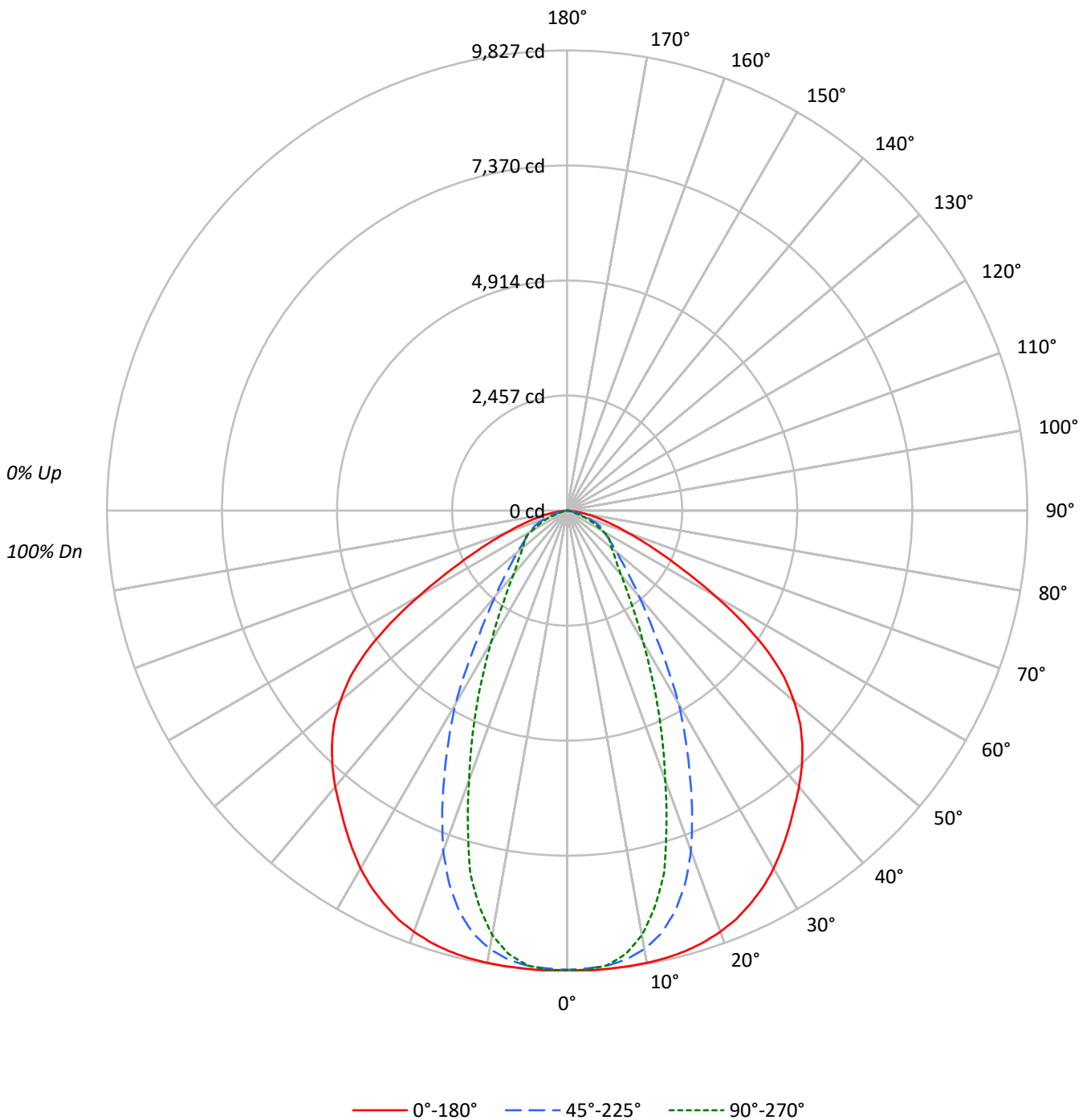
Input Watts (W): 110.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	60336	60336	60336
5°	60671	60228	60181
10°	61251	59368	57496
15°	62023	56516	50954
20°	62638	50613	40059
25°	62861	42026	30912
30°	62660	33838	23016
35°	62040	24891	17655
40°	61849	19112	14307
45°	61798	15444	12707
50°	60513	13255	11858
55°	55936	11865	11885
60°	44843	11203	10848
65°	33314	10927	8766
70°	24992	8986	5953
75°	18831	6806	3230
80°	13687	3322	2720
85°	8793	2844	2174



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	924.3	6.5
10°-20°	2462.9	17.4
20°-30°	3017.0	21.3
30°-40°	2709.4	19.1
40°-50°	2099.1	14.8
50°-60°	1570.8	11.1
60°-70°	942.5	6.7
70°-80°	373.7	2.6
80°-90°	67.8	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°	6404.1	45.2
0°-40°	9113.5	64.3
0°-60°	12783.5	90.2
0°-90°	14167.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14167.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9809	9809	9809	9809	9809	
5°	9826	9783	9755	9752	9747	937
15°	9740	9485	8875	8219	8002	2752
25°	9262	8293	6192	4951	4555	4267
35°	8262	6110	3315	2541	2351	5176
45°	7104	3183	1776	1497	1461	5462
55°	5216	1689	1106	1072	1108	4578
65°	2289	938	751	638	602	2345
75°	792	458	286	150	136	874
85°	125	50	40	35	31	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9809.4	9809.4	9809.4	9809.4	9809.4
2.5°	9827.0	9791.1	9786.1	9810.7	9817.6
5°	9826.4	9783.0	9754.6	9752.1	9747.1
7.5°	9818.2	9760.9	9669.7	9597.3	9554.5
10°	9806.9	9706.2	9505.4	9297.1	9205.8
12.5°	9785.5	9620.6	9254.3	8853.4	8660.8
15°	9740.2	9484.6	8875.4	8219.0	8001.8
17.5°	9670.3	9280.7	8366.2	7417.2	7052.7
20°	9569.6	9023.3	7732.5	6575.7	6120.0
22.5°	9440.0	8691.6	6969.0	5675.7	5306.9
25°	9262.5	8292.6	6192.4	4951.3	4554.8
27.5°	9064.2	7843.9	5459.8	4192.2	3845.5
30°	8822.5	7298.2	4764.3	3527.6	3240.6
32.5°	8547.5	6736.2	3999.0	2962.5	2763.6
35°	8262.4	6109.9	3314.9	2540.8	2351.3
37.5°	7970.4	5399.4	2798.8	2178.9	2042.3
40°	7702.9	4607.0	2380.3	1890.6	1781.8
42.5°	7415.9	3863.1	2058.0	1660.3	1593.6
45°	7104.4	3183.4	1775.5	1496.6	1460.8
47.5°	6752.5	2685.5	1555.2	1371.4	1338.0
50°	6323.9	2280.8	1385.2	1241.1	1239.2
52.5°	5842.5	1963.0	1234.2	1146.7	1163.1
55°	5216.2	1689.2	1106.4	1071.8	1108.3
57.5°	4471.7	1465.8	1002.0	1013.9	1042.9
60°	3645.3	1264.4	910.7	920.8	881.8
62.5°	2914.6	1088.2	828.3	775.4	725.7
65°	2289.0	937.8	750.8	637.6	602.3
67.5°	1784.9	798.7	628.7	523.0	479.0
70°	1389.7	678.5	499.7	400.9	331.0
72.5°	1061.8	564.5	394.0	246.1	186.9
75°	792.4	458.2	286.4	150.4	135.9
77.5°	575.2	343.0	159.9	110.1	102.6
80°	386.4	231.6	93.8	80.6	76.8
82.5°	246.1	121.5	64.8	56.6	52.2
85°	124.6	49.7	40.3	34.6	30.8
87.5°	43.4	23.9	18.3	14.5	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)