

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: P417760

Luminaire Tested: **VHB-1215-W-UNV-L950-CD-U-LEVEL1**

Issue Date: 11/17/2020

Test Information

Test Method: LM-79-08
Report Number: P417760
Test Lab: INNOVATION CENTER(G3)
Issue Date: 11/17/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-1215-W-UNV-L950-CD-U-LEVEL1
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11023.7 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.14 / 1.25
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

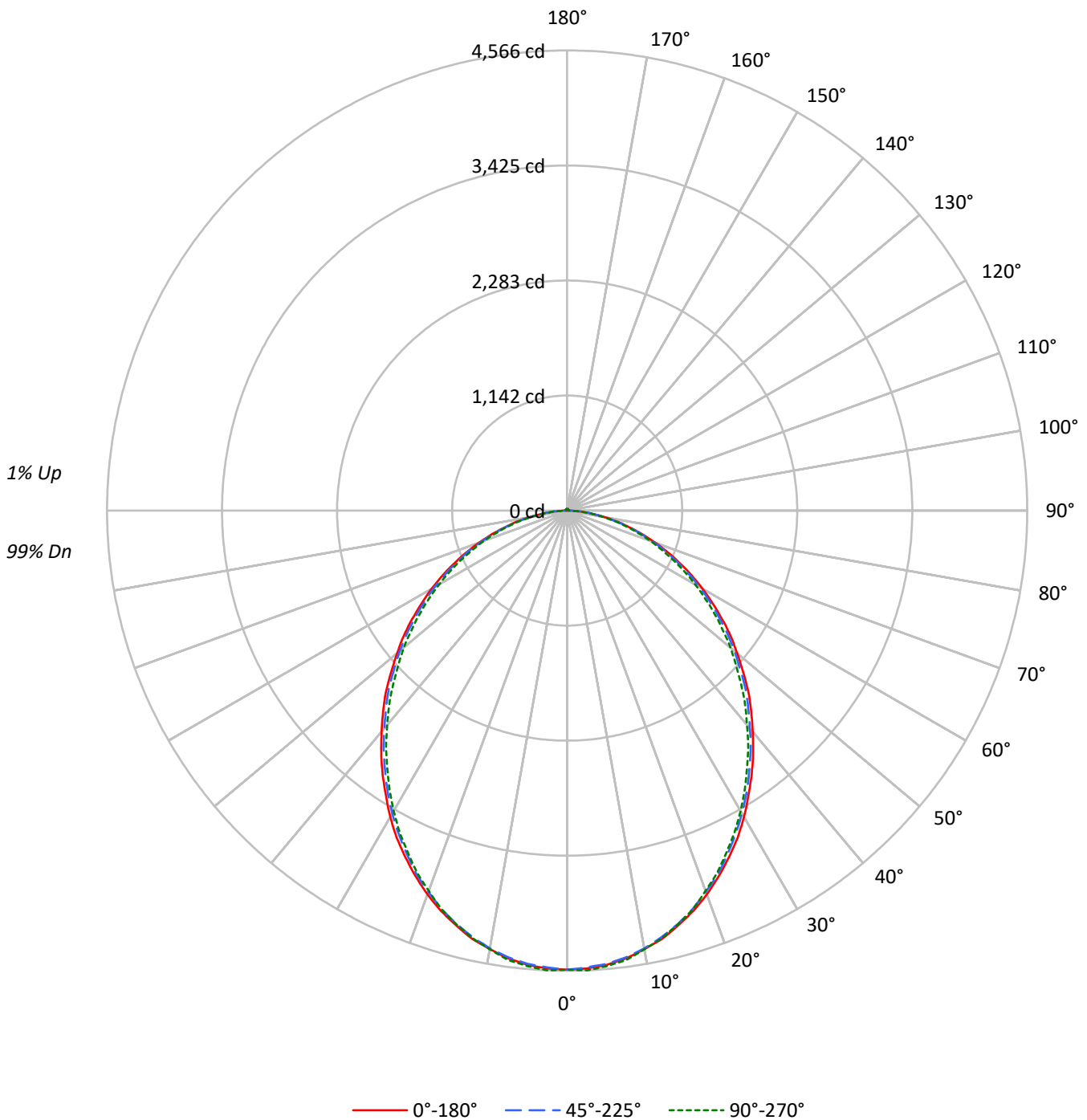
Input Watts (W): 80.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	100	92	85	79	97	90	84	78	86	81	76	83	78	75	79	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	63	58	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28021	28021	28021
5°	27936	27865	28007
10°	27600	27546	27607
15°	27127	27036	27051
20°	26536	26345	26274
25°	25766	25536	25384
30°	24931	24646	24445
35°	23966	23656	23372
40°	22997	22643	22293
45°	22129	21780	21236
50°	21055	20731	20248
55°	20125	19688	19153
60°	19085	18661	18055
65°	17961	17527	16902
70°	16644	16335	15766
75°	15162	14958	14440
80°	13556	13332	12865
85°	11496	11496	11214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.3	3.9
10°-20°	1196.5	10.9
20°-30°	1733.5	15.7
30°-40°	1971.8	17.9
40°-50°	1922.7	17.4
50°-60°	1641.5	14.9
60°-70°	1191.7	10.8
70°-80°	665.4	6.0
80°-90°	186.8	1.7
90°-100°	13.3	0.1
100°-110°	13.1	0.1
110°-120°	12.9	0.1
120°-130°	12.4	0.1
130°-140°	11.7	0.1
140°-150°	10.1	0.1
150°-160°	7.1	0.1
160°-170°	3.9	0.0
170°-180°	1.2	0.0
0°-30°	3358.3	30.5
0°-40°	5330.1	48.4
0°-60°	8894.3	80.7
0°-90°	10938.2	99.2
90°-120°	39.3	0.4
90°-150°	73.4	0.7
90°-180°	85.0	0.8
0°-180°	11023.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4556	4556	4556	4556	4556	
5°	4525	4514	4513	4529	4536	429
15°	4260	4253	4246	4245	4248	1200
25°	3796	3783	3763	3749	3740	1748
35°	3192	3182	3150	3121	3113	1996
45°	2544	2520	2504	2457	2441	1958
55°	1877	1869	1836	1798	1786	1679
65°	1234	1225	1204	1176	1161	1224
75°	638	642	629	614	608	682
85°	163	166	163	158	159	178
90°	12	13	15	18	17	14
95°	5	9	13	15	16	5
105°	10	10	12	15	16	10
115°	12	12	13	14	16	11
125°	12	13	13	15	15	11
135°	14	15	16	16	16	11
145°	13	16	17	18	18	8
155°	13	14	16	17	17	6
165°	10	12	14	16	16	3
175°	12	12	12	13	13	1
180°	12	12	12	12	12	



TEST NUMBER: P417760

CATALOG NUMBER: VHB-1215-W-UNV-L950-CD-U-LEVEL1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4555.6	4555.6	4555.6	4555.6	4555.6
2.5°	4546.4	4534.4	4536.7	4551.6	4566.5
5°	4524.6	4514.3	4513.1	4528.6	4536.1
7.5°	4482.2	4471.3	4470.7	4488.5	4497.1
10°	4419.0	4416.2	4410.4	4422.5	4420.2
12.5°	4353.1	4337.0	4334.1	4343.9	4344.5
15°	4260.1	4252.7	4245.8	4245.2	4248.1
17.5°	4164.9	4148.8	4144.8	4142.5	4148.2
20°	4054.1	4036.4	4024.9	4022.6	4014.0
22.5°	3928.5	3917.6	3906.7	3887.8	3889.5
25°	3796.5	3783.3	3762.7	3748.9	3740.3
27.5°	3661.7	3641.0	3619.2	3606.6	3599.2
30°	3510.2	3497.6	3470.1	3446.5	3441.9
32.5°	3349.6	3341.0	3313.4	3292.8	3279.0
35°	3191.8	3181.5	3150.5	3121.2	3112.6
37.5°	3031.1	3018.5	2992.1	2966.3	2952.0
40°	2864.2	2855.0	2820.0	2789.0	2776.4
42.5°	2703.0	2690.9	2659.3	2621.5	2614.0
45°	2544.0	2519.9	2503.9	2457.4	2441.3
47.5°	2367.9	2361.6	2327.1	2289.9	2272.1
50°	2200.3	2196.3	2166.5	2124.6	2116.0
52.5°	2046.6	2030.5	2003.0	1965.1	1945.6
55°	1876.7	1868.7	1836.0	1797.6	1786.1
57.5°	1710.4	1710.4	1675.4	1642.7	1623.1
60°	1551.4	1541.7	1517.0	1485.4	1467.7
62.5°	1391.4	1383.3	1362.1	1330.5	1314.5
65°	1234.1	1225.0	1204.3	1176.2	1161.3
67.5°	1083.8	1072.9	1059.7	1023.0	1013.2
70°	925.5	923.2	908.3	883.0	876.7
72.5°	783.2	780.9	763.7	741.3	734.4
75°	638.0	641.5	629.4	613.9	607.6
77.5°	511.8	508.3	496.9	487.7	476.8
80°	382.7	381.5	376.4	363.8	363.2
82.5°	264.5	269.1	265.1	255.9	252.5
85°	162.9	166.4	162.9	158.4	158.9
87.5°	72.9	74.0	70.0	63.1	58.5
90°	11.5	12.6	14.9	17.8	16.6
92.5°	4.0	8.6	12.6	14.9	15.5
95°	5.2	8.6	12.6	14.9	15.5
97.5°	7.5	8.6	12.6	14.9	16.1
100°	8.6	9.2	12.6	14.9	16.1
102.5°	9.2	9.2	12.6	14.9	16.1
105°	9.8	9.8	12.0	14.9	16.1
107.5°	10.3	9.8	12.0	14.9	16.1
110°	10.3	10.3	12.0	14.9	15.5



TEST NUMBER: P417760

CATALOG NUMBER: VHB-1215-W-UNV-L950-CD-U-LEVEL1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.9	10.9	12.6	14.3	15.5
115°	11.5	11.5	12.6	14.3	15.5
117.5°	11.5	12.0	12.6	14.9	15.5
120°	12.0	12.6	12.6	14.9	14.9
122.5°	12.0	13.2	13.2	14.9	14.9
125°	12.0	13.2	13.2	14.9	14.9
127.5°	12.6	13.8	13.2	14.9	14.9
130°	13.2	13.8	14.3	14.9	14.9
132.5°	13.2	14.3	14.9	15.5	14.9
135°	13.8	14.9	15.5	15.5	15.5
137.5°	14.3	14.9	16.1	16.1	16.1
140°	14.3	15.5	16.1	16.6	16.6
142.5°	13.2	15.5	16.1	17.2	17.2
145°	13.2	15.5	16.6	17.8	17.8
147.5°	12.6	14.9	16.1	17.8	17.8
150°	12.6	14.3	16.1	17.2	17.2
152.5°	13.2	13.8	16.1	16.6	17.2
155°	12.6	13.8	16.1	16.6	16.6
157.5°	12.0	13.2	15.5	16.6	17.2
160°	11.5	13.2	14.9	16.6	16.6
162.5°	10.9	12.6	14.3	16.1	16.6
165°	10.3	12.0	13.8	15.5	15.5
167.5°	10.3	12.0	13.2	14.3	14.9
170°	10.9	11.5	12.6	13.2	13.8
172.5°	11.5	11.5	12.6	12.6	12.6
175°	11.5	11.5	12.0	12.6	13.2
177.5°	12.0	11.5	11.5	12.6	12.6
180°	11.5	11.5	11.5	11.5	11.5

(END OF REPORT)