

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: P565429

Luminaire Tested: **VHB-12-N-UNV-L735-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-491-2)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 9/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-12-N-UNV-L735-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 3500K,
70 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

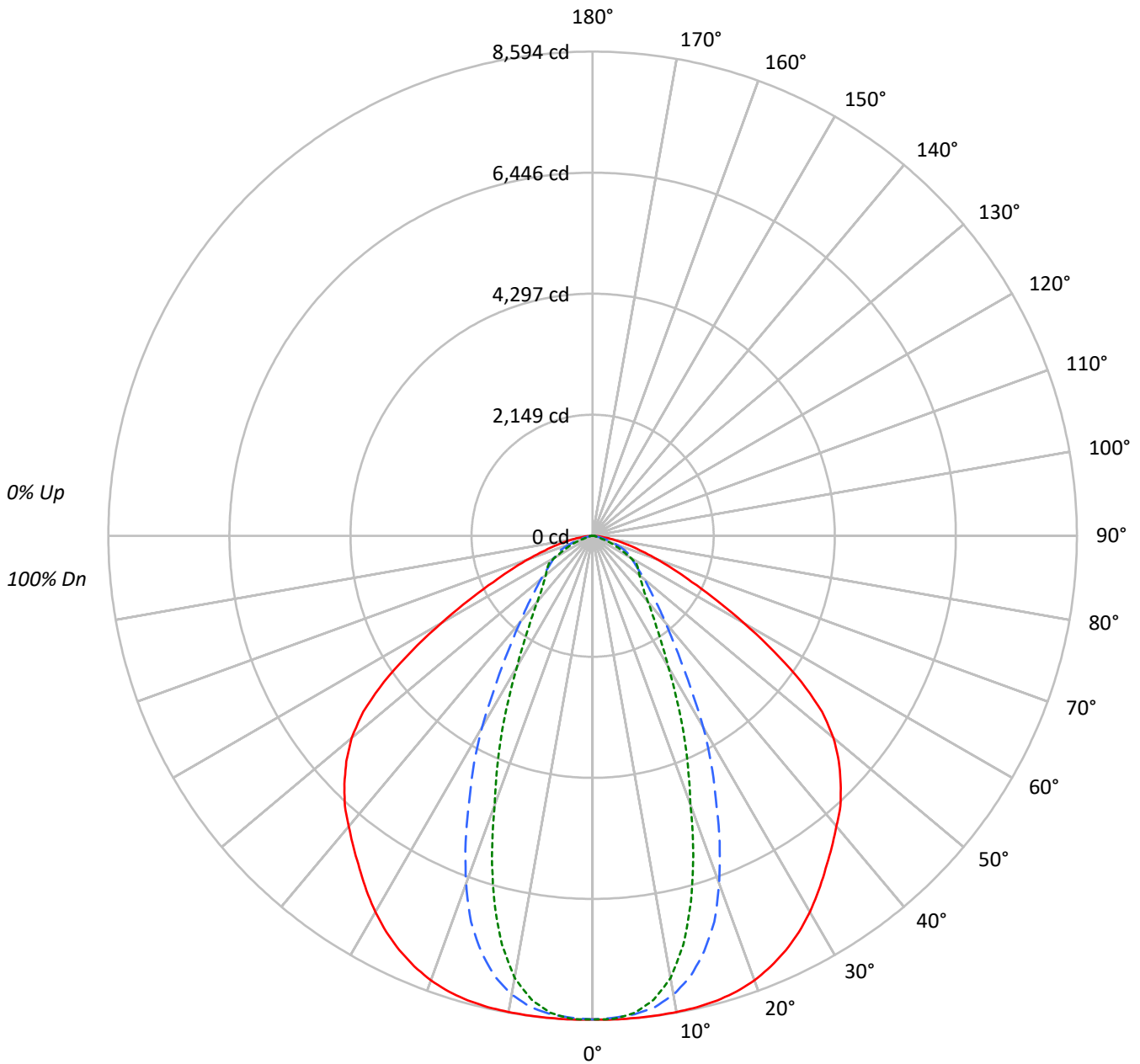
Lumens per Lamp: N/A
Luminaire Lumens: 12108.0 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 87
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	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	74	68	64	71	67	64	62																			
5	83	72	65	59	81	71	64	59	69	63	58	68	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	57	51	47	46																			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42																			
9	65	53	46	41	63	52	45	41	51	45	41	50	44	40	49	44	40	39																			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	52808	52808	52808
5°	53056	52652	52501
10°	53612	51643	49757
15°	54378	48657	42903
20°	54964	42986	33217
25°	55074	35101	25738
30°	54765	27878	19049
35°	54139	20658	14813
40°	54054	16043	12225
45°	54168	13202	10860
50°	53400	11419	10358
55°	48477	10179	10466
60°	38112	9727	9536
65°	28308	9428	7177
70°	21710	7548	4381
75°	16526	5383	2417
80°	12135	2504	1952
85°	7594	2152	1736



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.6	6.7
10°-20°	2123.4	17.5
20°-30°	2564.2	21.2
30°-40°	2292.7	18.9
40°-50°	1795.4	14.8
50°-60°	1356.5	11.2
60°-70°	805.7	6.7
70°-80°	309.6	2.6
80°-90°	53.8	0.4
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°	5494.3	45.4
0°-40°	7787.0	64.3
0°-60°	10938.9	90.3
0°-90°	12108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12108.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8586	8586	8586	8586	8586	
5°	8593	8556	8528	8516	8503	820
15°	8540	8258	7641	7002	6738	2413
25°	8115	7160	5172	4078	3792	3736
35°	7210	5131	2751	2145	1973	4521
45°	6227	2653	1518	1282	1248	4793
55°	4521	1440	949	945	976	3970
65°	1945	808	648	540	493	2004
75°	695	389	226	112	102	761
85°	108	38	30	27	25	143
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8585.5	8585.5	8585.5	8585.5	8585.5
2.5°	8593.6	8565.2	8563.1	8581.3	8583.9
5°	8593.0	8555.6	8527.7	8516.5	8503.1
7.5°	8590.4	8533.6	8439.9	8350.0	8308.2
10°	8583.9	8483.3	8268.6	8064.1	7966.7
12.5°	8570.0	8393.3	8014.3	7638.5	7434.0
15°	8539.5	8257.9	7641.2	7002.5	6737.5
17.5°	8484.4	8071.1	7184.0	6282.4	5941.4
20°	8397.1	7833.4	6567.2	5461.2	5074.7
22.5°	8271.8	7522.9	5887.9	4721.9	4413.0
25°	8115.0	7160.4	5172.1	4077.8	3792.5
27.5°	7928.7	6737.5	4555.4	3478.2	3197.2
30°	7710.8	6243.4	3925.2	2911.8	2682.1
32.5°	7467.2	5723.0	3267.3	2479.8	2290.8
35°	7210.2	5130.9	2751.2	2145.2	1972.8
37.5°	6968.2	4497.0	2329.9	1849.1	1728.1
40°	6732.1	3831.0	1998.0	1615.2	1522.6
42.5°	6509.4	3193.9	1744.2	1419.2	1358.7
45°	6227.3	2653.2	1517.7	1282.2	1248.5
47.5°	5928.0	2239.4	1337.9	1170.8	1159.1
50°	5580.6	1907.5	1193.3	1073.9	1082.5
52.5°	5129.8	1645.2	1056.3	1005.4	1030.6
55°	4520.6	1439.6	949.2	945.4	976.0
57.5°	3806.9	1243.1	864.6	888.2	922.4
60°	3098.1	1085.2	790.7	825.0	775.2
62.5°	2475.0	940.1	720.6	658.0	615.1
65°	1945.0	808.4	647.8	540.2	493.1
67.5°	1550.9	685.8	545.0	429.9	390.8
70°	1207.2	576.6	419.7	322.8	243.6
72.5°	925.1	481.8	327.6	183.6	138.7
75°	695.4	388.7	226.5	111.9	101.7
77.5°	495.7	288.6	121.0	80.8	75.0
80°	342.6	185.2	70.7	58.4	55.1
82.5°	212.5	89.4	48.2	41.8	39.1
85°	107.6	37.5	30.5	26.8	24.6
87.5°	35.9	18.2	13.9	12.8	11.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)