

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: P565466

Luminaire Tested: **VHB-24-N-UNV-L740-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565466
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-24-N-UNV-L740-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 4000K,
70 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

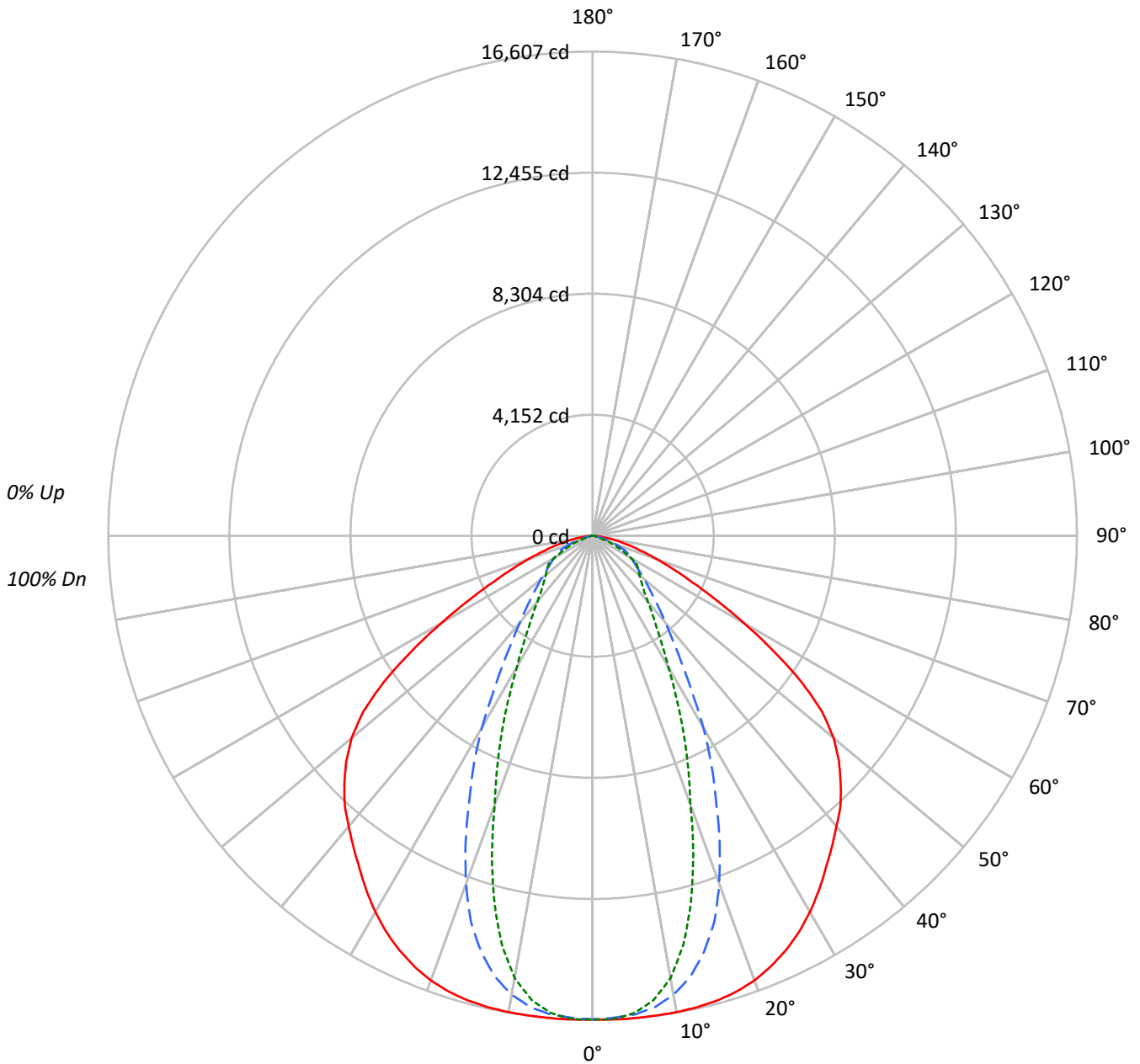
Lumens per Lamp: N/A
Luminaire Lumens: 23399.0 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 174.1
Input Voltage (V): NR
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: 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					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	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°	102053	102053	102053
5°	102532	101752	101458
10°	103608	99802	96157
15°	105086	94031	82911
20°	106218	83072	64191
25°	106431	67834	49740
30°	105833	53875	36813
35°	104626	39922	28627
40°	104461	31002	23625
45°	104682	25514	20987
50°	103197	22067	20017
55°	93682	19670	20226
60°	73652	18798	18429
65°	54704	18220	13869
70°	41956	14587	8465
75°	31938	10399	4672
80°	23452	4839	3776
85°	14679	4164	3359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1558.8	6.7
10°-20°	4103.5	17.5
20°-30°	4955.4	21.2
30°-40°	4430.8	18.9
40°-50°	3469.6	14.8
50°-60°	2621.5	11.2
60°-70°	1557.0	6.7
70°-80°	598.3	2.6
80°-90°	104.0	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°	10617.8	45.4
0°-40°	15048.5	64.3
0°-60°	21139.7	90.3
0°-90°	23399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23399.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16592	16592	16592	16592	16592	
5°	16606	16534	16480	16458	16432	###
15°	16503	15959	14767	13532	13020	4663
25°	15682	13838	9995	7880	7329	7221
35°	13934	9916	5317	4146	3812	8738
45°	12034	5127	2933	2478	2413	9263
55°	8736	2782	1834	1827	1886	7672
65°	3759	1562	1252	1044	953	3873
75°	1344	751	438	216	197	1471
85°	208	72	59	52	48	277
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16591.8	16591.8	16591.8	16591.8	16591.8
2.5°	16607.3	16552.5	16548.3	16583.5	16588.7
5°	16606.3	16533.8	16480.0	16458.3	16432.4
7.5°	16601.1	16491.4	16310.4	16136.5	16055.8
10°	16588.7	16394.2	15979.3	15584.1	15395.8
12.5°	16561.8	16220.3	15487.9	14761.6	14366.4
15°	16502.8	15958.6	14766.7	13532.5	13020.4
17.5°	16396.2	15597.5	13883.2	12140.9	11481.9
20°	16227.6	15138.2	12691.4	10553.9	9806.9
22.5°	15985.5	14538.1	11378.5	9125.1	8528.2
25°	15682.4	13837.7	9995.2	7880.5	7329.1
27.5°	15322.3	13020.4	8803.4	6721.8	6178.6
30°	14901.2	12065.4	7585.6	5627.2	5183.3
32.5°	14430.5	11059.8	6314.1	4792.2	4427.0
35°	13933.9	9915.5	5316.8	4145.6	3812.5
37.5°	13466.3	8690.6	4502.5	3573.5	3339.7
40°	13010.0	7403.5	3861.1	3121.4	2942.4
42.5°	12579.6	6172.4	3370.7	2742.7	2625.8
45°	12034.4	5127.4	2933.1	2477.9	2412.7
47.5°	11456.0	4327.7	2585.4	2262.7	2239.9
50°	10784.6	3686.3	2306.1	2075.4	2091.9
52.5°	9913.5	3179.3	2041.3	1943.0	1991.6
55°	8736.1	2782.0	1834.3	1827.1	1886.1
57.5°	7357.0	2402.3	1670.9	1716.4	1782.6
60°	5987.2	2097.1	1528.1	1594.3	1498.1
62.5°	4782.9	1816.7	1392.6	1271.5	1188.7
65°	3758.7	1562.2	1251.9	1043.9	952.9
67.5°	2997.2	1325.3	1053.2	830.8	755.3
70°	2333.0	1114.3	811.1	623.9	470.7
72.5°	1787.8	931.1	633.2	354.9	268.0
75°	1343.9	751.1	437.6	216.2	196.6
77.5°	958.0	557.6	233.8	156.2	144.8
80°	662.1	358.0	136.6	112.8	106.6
82.5°	410.7	172.8	93.1	80.7	75.5
85°	208.0	72.4	59.0	51.7	47.6
87.5°	69.3	35.2	26.9	24.8	22.8
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)