

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: P565472

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

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-491-3)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 9/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-24-W-UNV-L740-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 4000K, 70 CRI LEDS

Light Source: -
Ballast/Driver: -

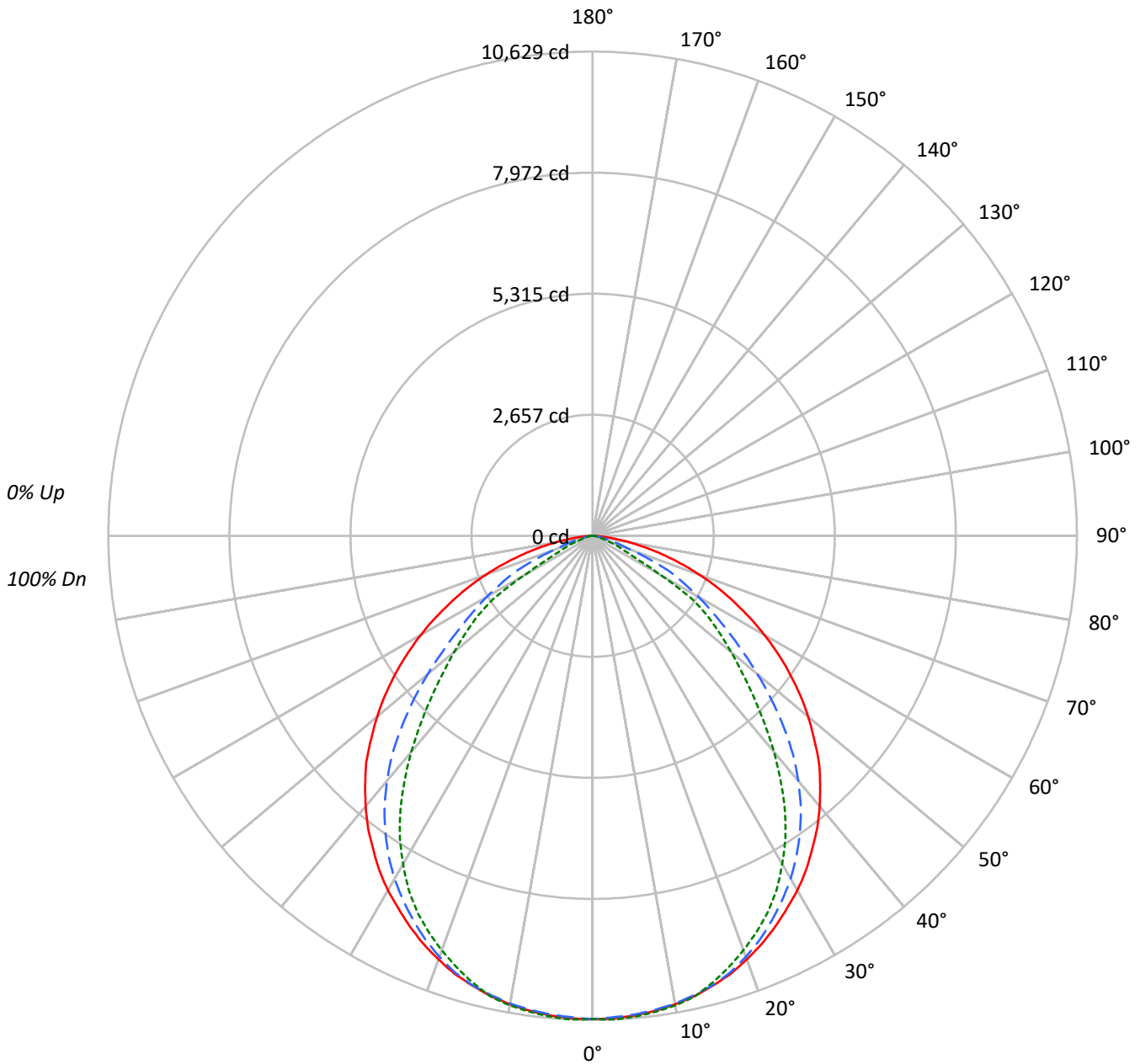
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23864.0 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
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 (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				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			100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89				87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77				75
3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67				65
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59				57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52				50
6	74	62	53	48	72	61	53	47	59	52	47	57	51	47	56	50	46				44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41				39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37				36
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34				32
10	57	44	36	31	55	43	36	31	42	36	31	42	35	31	41	35	31				29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	65259	65259	65259
5°	65270	65137	65435
10°	65245	65104	65373
15°	65091	65022	64687
20°	64777	64375	63370
25°	64297	63203	61817
30°	63829	61746	59105
35°	63068	59583	55266
40°	62237	56378	49726
45°	61106	51562	43448
50°	59086	45142	37955
55°	56674	38455	33132
60°	53540	32983	21151
65°	49610	27511	11214
70°	44778	15635	7267
75°	37617	9577	4520
80°	28585	4835	3960
85°	17368	4397	3564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1004.5	4.2
10°-20°	2873.8	12.0
20°-30°	4283.9	18.0
30°-40°	4933.7	20.7
40°-50°	4591.5	19.2
50°-60°	3493.8	14.6
60°-70°	1875.4	7.9
70°-80°	690.0	2.9
80°-90°	117.3	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°	8162.3	34.2
0°-40°	13095.9	54.9
0°-60°	21181.3	88.8
0°-90°	23864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10610	10610	10610	10610	10610	
5°	10571	10541	10550	10586	10598	###
15°	10222	10206	10211	10192	10158	2885
25°	9474	9466	9313	9181	9109	4367
35°	8399	8297	7935	7536	7360	5258
45°	7025	6686	5928	5224	4995	5398
55°	5285	4688	3586	3193	3090	4721
65°	3409	2504	1890	936	770	3380
75°	1583	1037	403	208	190	1697
85°	246	80	62	54	50	328
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10609.8	10609.8	10609.8	10609.8	10609.8
2.5°	10602.3	10570.1	10580.8	10615.2	10629.2
5°	10571.2	10541.1	10549.7	10586.2	10598.0
7.5°	10519.6	10490.6	10497.0	10531.4	10543.2
10°	10446.5	10416.4	10423.9	10457.2	10466.9
12.5°	10347.6	10319.7	10326.1	10349.8	10360.5
15°	10221.9	10205.8	10211.1	10191.8	10158.5
17.5°	10081.1	10057.5	10051.0	9965.1	9929.6
20°	9896.3	9887.7	9835.0	9728.6	9681.4
22.5°	9701.8	9685.7	9594.3	9466.4	9409.5
25°	9474.0	9466.4	9312.8	9180.6	9108.6
27.5°	9228.9	9210.7	9012.9	8847.4	8749.7
30°	8987.1	8942.0	8693.8	8461.6	8321.9
32.5°	8713.1	8628.2	8331.6	8035.0	7873.8
35°	8399.3	8297.2	7935.1	7536.4	7360.2
37.5°	8095.2	7941.5	7505.2	7006.6	6780.9
40°	7751.3	7531.0	7021.6	6442.4	6193.1
42.5°	7389.2	7120.5	6506.9	5833.1	5577.3
45°	7024.9	6686.4	5927.7	5223.8	4994.9
47.5°	6591.8	6232.9	5325.9	4642.4	4445.8
50°	6174.8	5755.7	4717.6	4100.8	3966.5
52.5°	5738.5	5230.2	4126.6	3643.0	3513.0
55°	5285.0	4687.5	3586.0	3192.7	3089.6
57.5°	4829.4	4129.8	3106.8	2783.3	2598.5
60°	4352.3	3576.4	2681.2	2262.1	1719.4
62.5°	3882.6	3000.4	2256.7	1418.5	1094.0
65°	3408.7	2503.9	1890.3	936.0	770.5
67.5°	2956.3	2023.5	1348.7	678.1	577.1
70°	2489.9	1654.9	869.4	485.7	404.1
72.5°	2022.5	1331.5	596.4	319.2	259.0
75°	1582.9	1037.0	403.0	208.5	190.2
77.5°	1186.4	715.7	224.6	154.7	145.1
80°	807.0	428.8	136.5	118.2	111.8
82.5°	483.6	205.3	98.9	87.0	83.8
85°	246.1	79.5	62.3	53.7	50.5
87.5°	73.1	39.8	27.9	21.5	20.4
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)