

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: P565459

Luminaire Tested: **VHB-18-W-UNV-L735-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565459
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-18-W-UNV-L735-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 3500K, 70 CRI LEDS

Light Source: -
Ballast/Driver: -

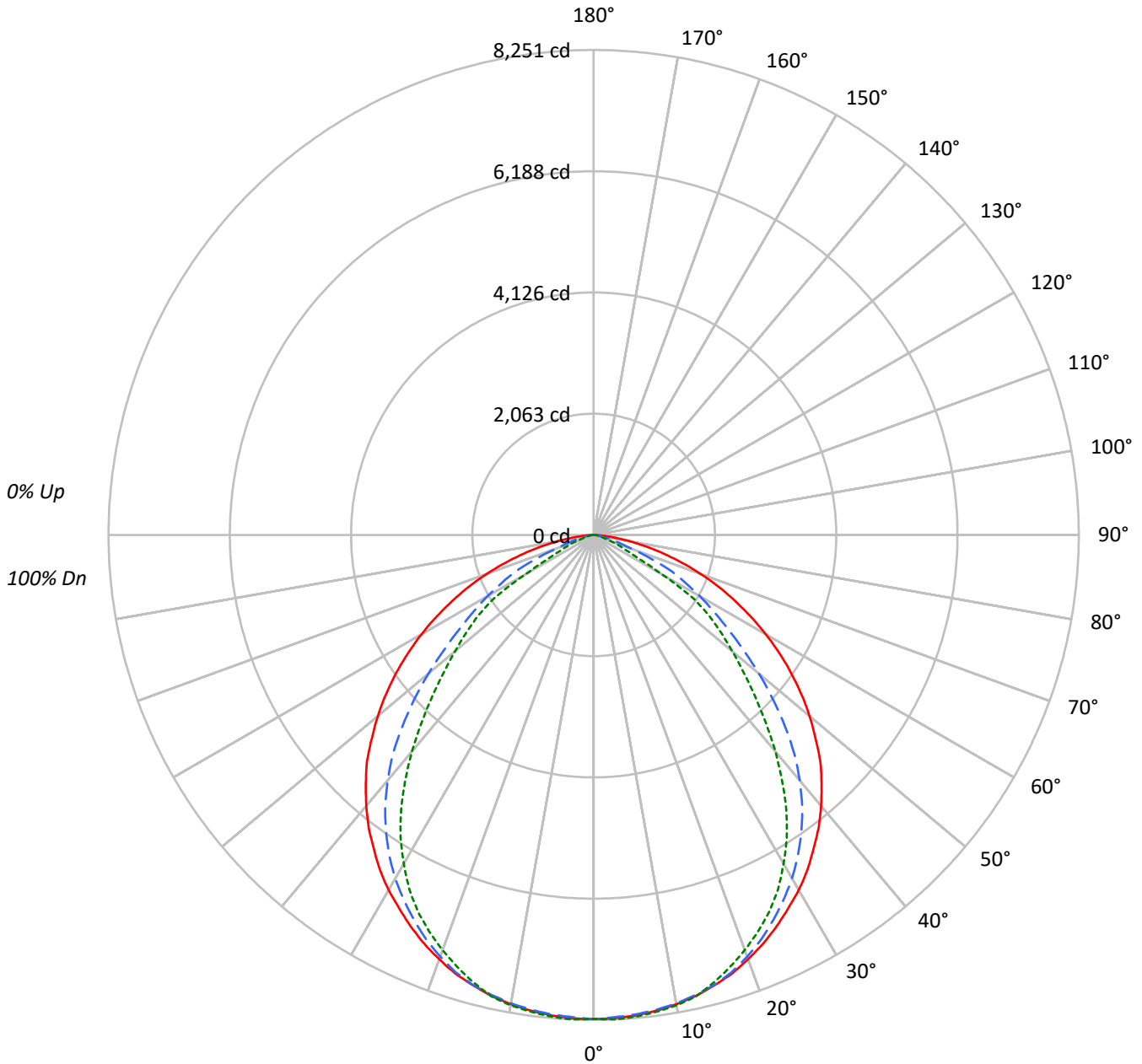
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18525.0 lumens
Efficiency: N/A
Efficacy: 138.5 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): 133.8
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	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°	50659	50659	50659
5°	50667	50564	50796
10°	50648	50539	50747
15°	50528	50475	50215
20°	50284	49973	49192
25°	49912	49063	47987
30°	49549	47931	45882
35°	48958	46252	42901
40°	48313	43765	38601
45°	47435	40026	33728
50°	45868	35043	29464
55°	43995	29852	25718
60°	41561	25605	16419
65°	38511	21357	8705
70°	34761	12137	5641
75°	29202	7434	3510
80°	22191	3751	3075
85°	13479	3416	2766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	779.8	4.2
10°-20°	2230.9	12.0
20°-30°	3325.5	18.0
30°-40°	3829.9	20.7
40°-50°	3564.3	19.2
50°-60°	2712.2	14.6
60°-70°	1455.8	7.9
70°-80°	535.6	2.9
80°-90°	91.1	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°	6336.2	34.2
0°-40°	10166.0	54.9
0°-60°	16442.5	88.8
0°-90°	18525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18525.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8236	8236	8236	8236	8236	
5°	8206	8183	8189	8218	8227	780
15°	7935	7922	7927	7912	7886	2240
25°	7354	7348	7229	7127	7071	3390
35°	6520	6441	6160	5850	5714	4082
45°	5453	5190	4602	4055	3877	4191
55°	4103	3639	2784	2478	2398	3664
65°	2646	1944	1467	727	598	2624
75°	1229	805	313	162	148	1317
85°	191	62	48	42	39	255
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8236.1	8236.1	8236.1	8236.1	8236.1
2.5°	8230.3	8205.3	8213.6	8240.3	8251.2
5°	8206.1	8182.8	8189.4	8217.8	8227.0
7.5°	8166.1	8143.5	8148.5	8175.2	8184.4
10°	8109.3	8086.0	8091.8	8117.7	8125.2
12.5°	8032.6	8010.9	8015.9	8034.3	8042.6
15°	7935.0	7922.5	7926.6	7911.6	7885.8
17.5°	7825.7	7807.4	7802.4	7735.6	7708.1
20°	7682.2	7675.6	7634.7	7552.1	7515.4
22.5°	7531.2	7518.7	7447.8	7348.5	7304.3
25°	7354.4	7348.5	7229.3	7126.6	7070.8
27.5°	7164.2	7150.0	6996.5	6868.0	6792.1
30°	6976.5	6941.4	6748.7	6568.6	6460.1
32.5°	6763.8	6697.9	6467.6	6237.4	6112.2
35°	6520.2	6440.9	6159.8	5850.3	5713.5
37.5°	6284.1	6164.8	5826.1	5439.0	5263.9
40°	6017.1	5846.1	5450.7	5001.1	4807.5
42.5°	5736.0	5527.5	5051.1	4528.1	4329.5
45°	5453.2	5190.4	4601.5	4055.1	3877.4
47.5°	5117.0	4838.4	4134.3	3603.8	3451.1
50°	4793.4	4468.0	3662.2	3183.3	3079.1
52.5°	4454.7	4060.1	3203.4	2828.0	2727.0
55°	4102.6	3638.8	2783.8	2478.4	2398.3
57.5°	3748.9	3205.9	2411.7	2160.6	2017.1
60°	3378.5	2776.2	2081.4	1756.0	1334.7
62.5°	3014.0	2329.1	1751.8	1101.2	849.2
65°	2646.1	1943.7	1467.4	726.6	598.1
67.5°	2294.9	1570.8	1046.9	526.4	448.0
70°	1932.9	1284.7	674.9	377.1	313.7
72.5°	1570.0	1033.6	463.0	247.8	201.0
75°	1228.8	805.0	312.8	161.8	147.7
77.5°	921.0	555.6	174.3	120.1	112.6
80°	626.5	332.8	105.9	91.8	86.8
82.5°	375.4	159.3	76.7	67.6	65.1
85°	191.0	61.7	48.4	41.7	39.2
87.5°	56.7	30.9	21.7	16.7	15.8
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)