

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: P565477

Luminaire Tested: **VHB-9-N-UNV-L735-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565477
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-9-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

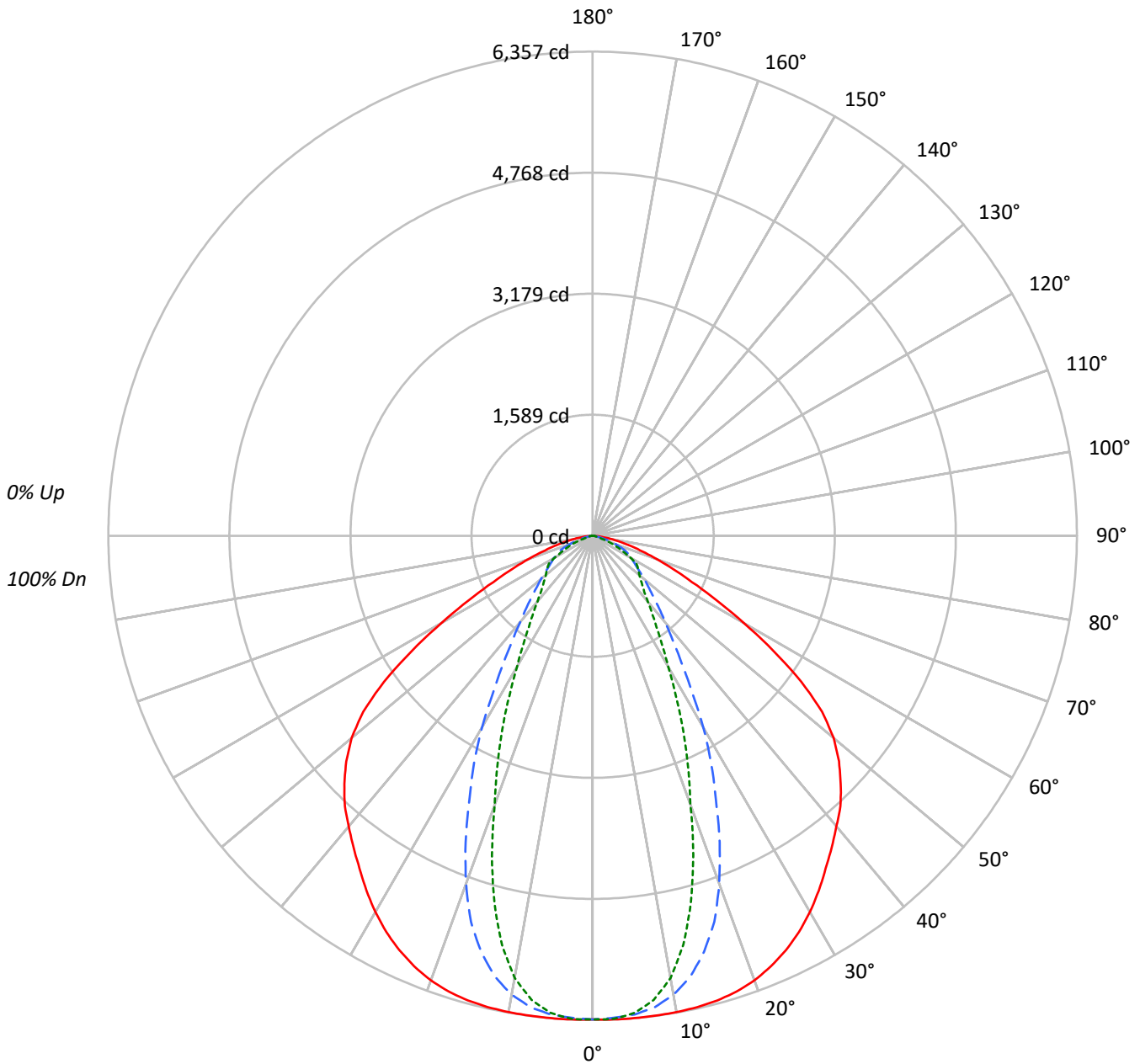
Lumens per Lamp: N/A
Luminaire Lumens: 8957.0 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 64.6
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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62			62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55			55
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50			50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46			46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42			42
9	65	53	46	41	63	52	45	41	51	45	41	50	44	40	49	44	40	39			39
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39065	39065	39065
5°	39249	38950	38837
10°	39660	38204	36808
15°	40226	35994	31738
20°	40660	31800	24572
25°	40741	25966	19040
30°	40512	20623	14092
35°	40050	15282	10958
40°	39987	11867	9043
45°	40072	9767	8034
50°	39503	8447	7663
55°	35861	7530	7742
60°	28194	7195	7055
65°	20940	6974	5308
70°	16061	5584	3241
75°	12227	3981	1787
80°	8979	1853	1445
85°	5618	1595	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.7	6.7
10°-20°	1570.8	17.5
20°-30°	1896.9	21.2
30°-40°	1696.1	18.9
40°-50°	1328.1	14.8
50°-60°	1003.5	11.2
60°-70°	596.0	6.7
70°-80°	229.0	2.6
80°-90°	39.8	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°	4064.4	45.4
0°-40°	5760.5	64.3
0°-60°	8092.1	90.3
0°-90°	8957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6351	6351	6351	6351	6351	
5°	6357	6329	6308	6300	6290	607
15°	6317	6109	5653	5180	4984	1785
25°	6003	5297	3826	3017	2806	2764
35°	5334	3796	2035	1587	1459	3345
45°	4607	1963	1123	948	924	3546
55°	3344	1065	702	699	722	2937
65°	1439	598	479	400	365	1482
75°	514	288	168	83	75	563
85°	80	28	23	20	18	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6351.2	6351.2	6351.2	6351.2	6351.2
2.5°	6357.2	6336.2	6334.6	6348.1	6350.0
5°	6356.8	6329.1	6308.5	6300.1	6290.2
7.5°	6354.8	6312.8	6243.5	6177.0	6146.1
10°	6350.0	6275.6	6116.8	5965.5	5893.4
12.5°	6339.7	6209.1	5928.7	5650.6	5499.4
15°	6317.2	6108.9	5652.6	5180.2	4984.1
17.5°	6276.4	5970.6	5314.4	4647.5	4395.2
20°	6211.8	5794.8	4858.2	4040.0	3754.0
22.5°	6119.2	5565.1	4355.6	3493.0	3264.5
25°	6003.1	5297.0	3826.1	3016.6	2805.5
27.5°	5865.3	4984.1	3369.9	2573.0	2365.1
30°	5704.1	4618.6	2903.7	2154.0	1984.1
32.5°	5523.9	4233.6	2417.0	1834.4	1694.6
35°	5333.8	3795.6	2035.2	1586.9	1459.4
37.5°	5154.8	3326.7	1723.5	1367.9	1278.4
40°	4980.2	2834.0	1478.0	1194.8	1126.3
42.5°	4815.4	2362.8	1290.3	1049.9	1005.1
45°	4606.7	1962.8	1122.8	948.5	923.6
47.5°	4385.3	1656.6	989.7	866.1	857.4
50°	4128.3	1411.1	882.8	794.4	800.8
52.5°	3794.8	1217.0	781.4	743.8	762.4
55°	3344.1	1064.9	702.2	699.4	722.0
57.5°	2816.2	919.6	639.6	657.0	682.4
60°	2291.9	802.8	584.9	610.3	573.5
62.5°	1830.9	695.4	533.1	486.7	455.0
65°	1438.8	598.0	479.2	399.6	364.7
67.5°	1147.3	507.3	403.2	318.0	289.1
70°	893.1	426.5	310.5	238.8	180.2
72.5°	684.4	356.4	242.4	135.8	102.6
75°	514.5	287.5	167.5	82.8	75.2
77.5°	366.7	213.5	89.5	59.8	55.4
80°	253.5	137.0	52.3	43.2	40.8
82.5°	157.2	66.1	35.6	30.9	28.9
85°	79.6	27.7	22.6	19.8	18.2
87.5°	26.5	13.5	10.3	9.5	8.7
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)