

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: P565483

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

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565483
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-9-W-UNV-L735-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 3500K, 70 CRI LEDS

Light Source: -
Ballast/Driver: -

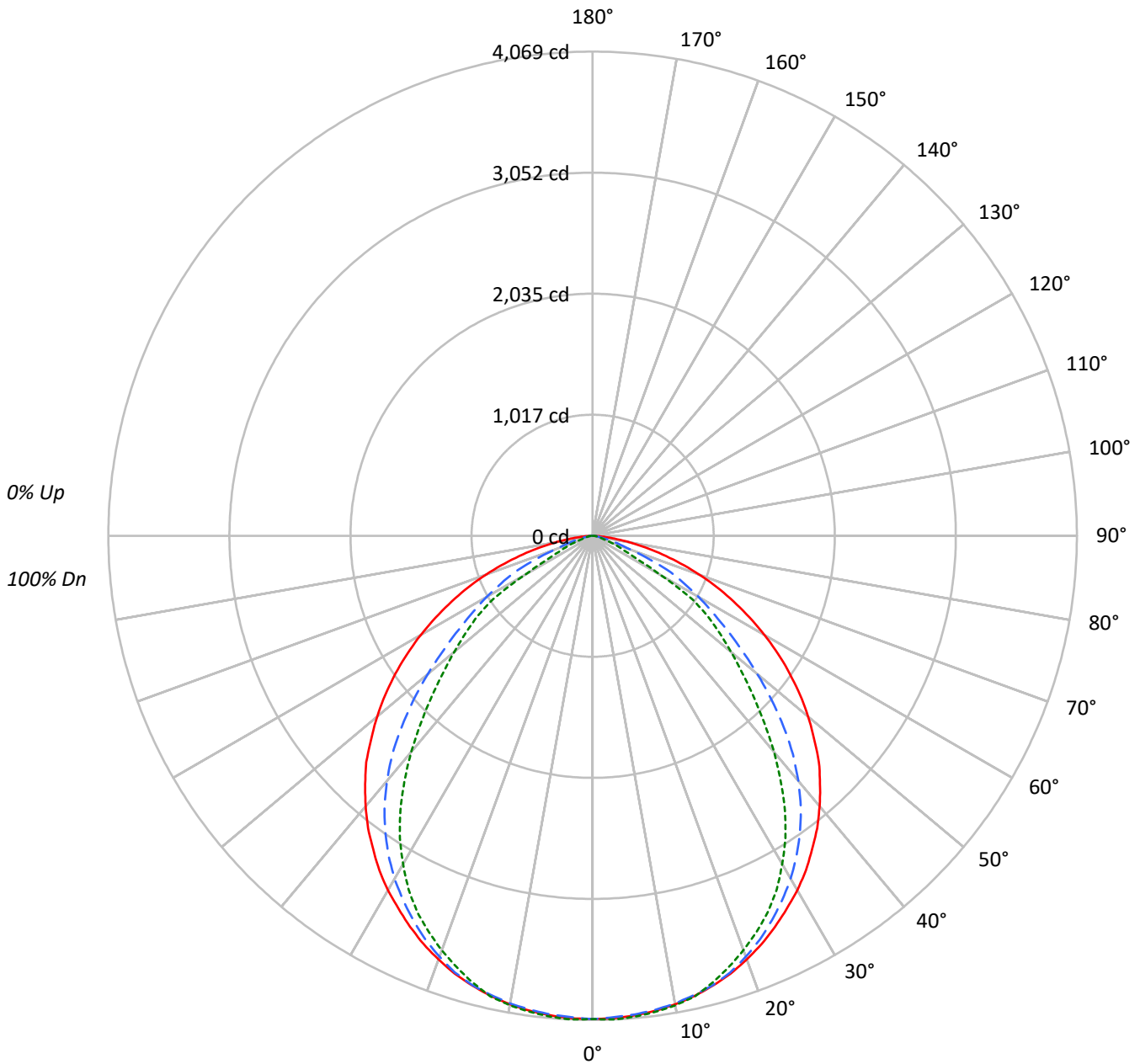
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9135.0 lumens
Efficiency: N/A
Efficacy: 141.4 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): 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									
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°	24981	24981	24981
5°	24985	24934	25048
10°	24976	24921	25025
15°	24916	24890	24762
20°	24796	24643	24258
25°	24612	24194	23663
30°	24433	23636	22625
35°	24142	22808	21155
40°	23825	21581	19035
45°	23391	19738	16632
50°	22618	17281	14529
55°	21695	14720	12683
60°	20494	12625	8097
65°	18990	10531	4292
70°	17140	5985	2782
75°	14399	3667	1730
80°	10942	1849	1516
85°	6648	1687	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.5	4.2
10°-20°	1100.1	12.0
20°-30°	1639.9	18.0
30°-40°	1888.6	20.7
40°-50°	1757.6	19.2
50°-60°	1337.4	14.6
60°-70°	717.9	7.9
70°-80°	264.1	2.9
80°-90°	44.9	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°	3124.5	34.2
0°-40°	5013.1	54.9
0°-60°	8108.1	88.8
0°-90°	9135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4061	4061	4061	4061	4061	
5°	4047	4035	4038	4052	4057	385
15°	3913	3907	3909	3901	3889	1104
25°	3627	3624	3565	3514	3487	1672
35°	3215	3176	3038	2885	2817	2013
45°	2689	2560	2269	2000	1912	2066
55°	2023	1794	1373	1222	1183	1807
65°	1305	958	724	358	295	1294
75°	606	397	154	80	73	649
85°	94	30	24	21	19	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4061.4	4061.4	4061.4	4061.4	4061.4
2.5°	4058.5	4046.2	4050.3	4063.4	4068.8
5°	4046.6	4035.1	4038.3	4052.3	4056.9
7.5°	4026.8	4015.7	4018.2	4031.4	4035.9
10°	3998.9	3987.3	3990.2	4003.0	4006.7
12.5°	3961.0	3950.3	3952.8	3961.8	3965.9
15°	3912.9	3906.7	3908.8	3901.4	3888.6
17.5°	3859.0	3849.9	3847.5	3814.6	3801.0
20°	3788.2	3784.9	3764.8	3724.1	3706.0
22.5°	3713.8	3707.6	3672.6	3623.7	3601.9
25°	3626.6	3623.7	3564.9	3514.3	3486.7
27.5°	3532.8	3525.8	3450.1	3386.7	3349.3
30°	3440.2	3422.9	3327.9	3239.1	3185.6
32.5°	3335.3	3302.8	3189.3	3075.8	3014.1
35°	3215.2	3176.1	3037.5	2884.9	2817.4
37.5°	3098.8	3040.0	2873.0	2682.1	2595.7
40°	2967.2	2882.8	2687.8	2466.1	2370.7
42.5°	2828.5	2725.7	2490.8	2232.9	2135.0
45°	2689.1	2559.5	2269.1	1999.6	1912.0
47.5°	2523.3	2385.9	2038.7	1777.1	1701.8
50°	2363.7	2203.3	1805.9	1569.8	1518.3
52.5°	2196.7	2002.1	1579.6	1394.5	1344.7
55°	2023.1	1794.4	1372.7	1222.2	1182.7
57.5°	1848.7	1580.9	1189.2	1065.4	994.7
60°	1666.0	1369.0	1026.3	865.9	658.2
62.5°	1486.3	1148.5	863.9	543.0	418.8
65°	1304.8	958.5	723.6	358.3	294.9
67.5°	1131.7	774.6	516.3	259.6	220.9
70°	953.1	633.5	332.8	185.9	154.7
72.5°	774.2	509.7	228.3	122.2	99.1
75°	605.9	397.0	154.3	79.8	72.8
77.5°	454.1	274.0	86.0	59.2	55.5
80°	308.9	164.1	52.2	45.2	42.8
82.5°	185.1	78.6	37.8	33.3	32.1
85°	94.2	30.4	23.9	20.6	19.3
87.5°	28.0	15.2	10.7	8.2	7.8
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)