

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: P565484

Luminaire Tested: **VHB-9-W-UNV-L740-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565484
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-L740-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 4000K, 70 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

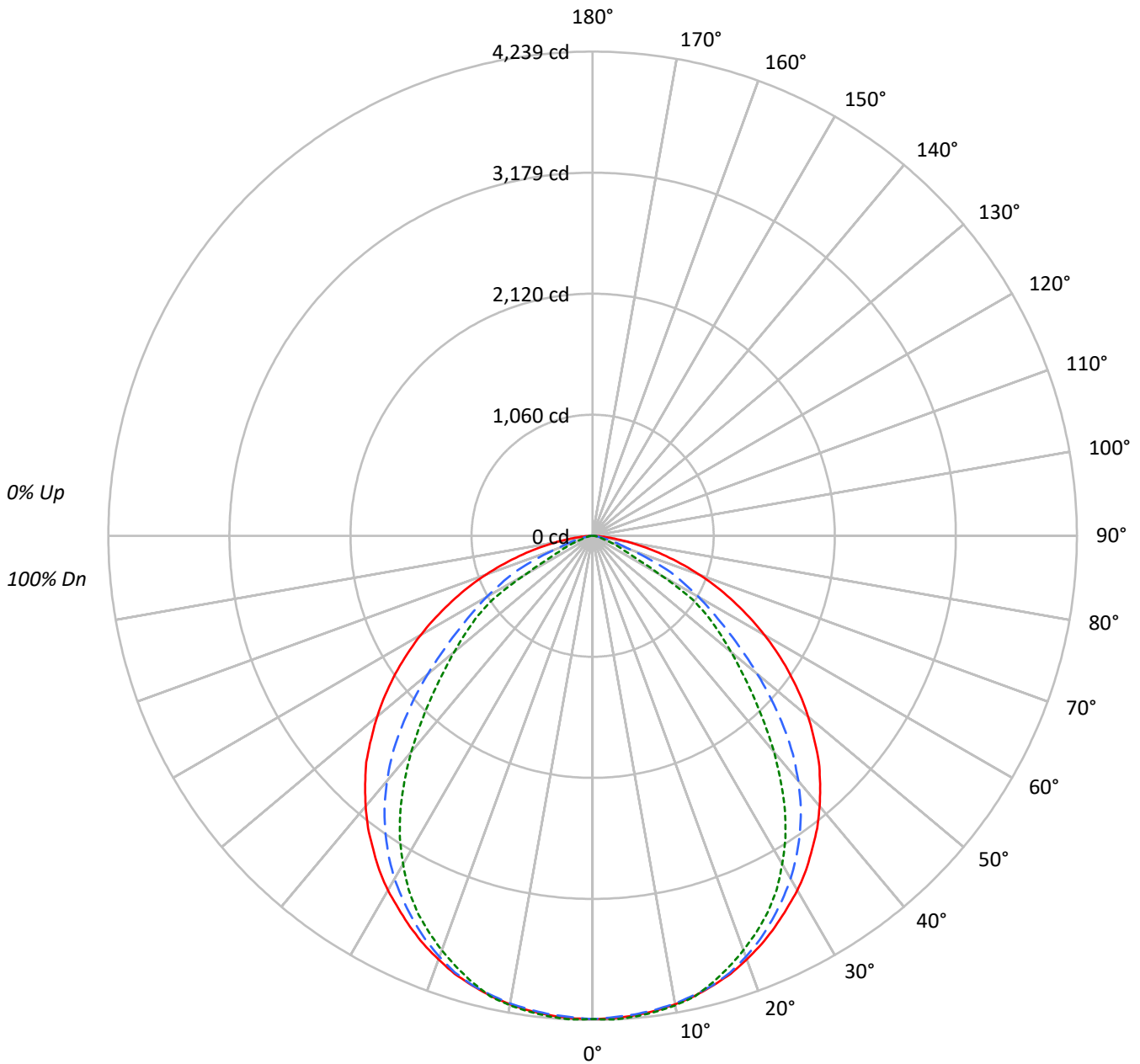
Lumens per Lamp: N/A
Luminaire Lumens: 9517.0 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P565484

CATALOG NUMBER: VHB-9-W-UNV-L740-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P565484

CATALOG NUMBER: VHB-9-W-UNV-L740-CD1-U

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°	26025	26025	26025
5°	26030	25976	26096
10°	26020	25964	26071
15°	25958	25931	25797
20°	25833	25673	25272
25°	25641	25205	24652
30°	25455	24624	23571
35°	25152	23761	22040
40°	24820	22484	19831
45°	24369	20563	17327
50°	23563	18003	15136
55°	22602	15336	13213
60°	21352	13154	8435
65°	19785	10971	4472
70°	17858	6235	2897
75°	15003	3819	1804
80°	11402	1927	1580
85°	6923	1757	1419



TEST NUMBER: P565484

CATALOG NUMBER: VHB-9-W-UNV-L740-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.6	4.2
10°-20°	1146.1	12.0
20°-30°	1708.4	18.0
30°-40°	1967.6	20.7
40°-50°	1831.1	19.2
50°-60°	1393.3	14.6
60°-70°	747.9	7.9
70°-80°	275.2	2.9
80°-90°	46.8	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°	3255.1	34.2
0°-40°	5222.7	54.9
0°-60°	8447.1	88.8
0°-90°	9517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4231	4231	4231	4231	4231	
5°	4216	4204	4207	4222	4226	401
15°	4076	4070	4072	4064	4051	1151
25°	3778	3775	3714	3661	3632	1742
35°	3350	3309	3164	3006	2935	2097
45°	2802	2666	2364	2083	1992	2153
55°	2108	1869	1430	1273	1232	1883
65°	1359	999	754	373	307	1348
75°	631	414	161	83	76	677
85°	98	32	25	21	20	131
90°	0	0	0	0	0	



TEST NUMBER: P565484

CATALOG NUMBER: VHB-9-W-UNV-L740-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4231.2	4231.2	4231.2	4231.2	4231.2
2.5°	4228.2	4215.4	4219.6	4233.4	4238.9
5°	4215.8	4203.8	4207.2	4221.8	4226.5
7.5°	4195.2	4183.6	4186.2	4199.9	4204.6
10°	4166.1	4154.1	4157.1	4170.4	4174.2
12.5°	4126.6	4115.5	4118.1	4127.5	4131.8
15°	4076.5	4070.1	4072.2	4064.5	4051.2
17.5°	4020.4	4010.9	4008.4	3974.1	3959.9
20°	3946.7	3943.2	3922.2	3879.8	3860.9
22.5°	3869.1	3862.7	3826.2	3775.2	3752.5
25°	3778.2	3775.2	3713.9	3661.2	3632.5
27.5°	3680.5	3673.2	3594.4	3528.4	3489.4
30°	3584.1	3566.1	3467.1	3374.5	3318.8
32.5°	3474.8	3440.9	3322.7	3204.4	3140.1
35°	3349.7	3308.9	3164.5	3005.5	2935.2
37.5°	3228.4	3167.1	2993.1	2794.2	2704.2
40°	3091.2	3003.4	2800.2	2569.2	2469.8
42.5°	2946.8	2839.7	2595.0	2326.2	2224.3
45°	2801.5	2666.5	2364.0	2083.3	1992.0
47.5°	2628.8	2485.7	2124.0	1851.4	1773.0
50°	2462.5	2295.4	1881.4	1635.4	1581.8
52.5°	2288.5	2085.8	1645.7	1452.8	1401.0
55°	2107.7	1869.4	1430.1	1273.3	1232.1
57.5°	1926.0	1647.0	1239.0	1110.0	1036.3
60°	1735.7	1426.3	1069.3	902.1	685.7
62.5°	1548.4	1196.6	900.0	565.7	436.3
65°	1359.4	998.6	753.8	373.3	307.3
67.5°	1179.0	807.0	537.8	270.4	230.1
70°	993.0	660.0	346.7	193.7	161.1
72.5°	806.6	531.0	237.9	127.3	103.3
75°	631.3	413.6	160.7	83.1	75.9
77.5°	473.1	285.4	89.6	61.7	57.9
80°	321.9	171.0	54.4	47.1	44.6
82.5°	192.9	81.9	39.4	34.7	33.4
85°	98.1	31.7	24.9	21.4	20.1
87.5°	29.1	15.9	11.1	8.6	8.1
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)