

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: P565445

Luminaire Tested: **VHB-15-N-UNV-L940-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565445
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-15-N-UNV-L940-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 4000K,
90 CRI LEDS

Light Source: -
Ballast/Driver: -

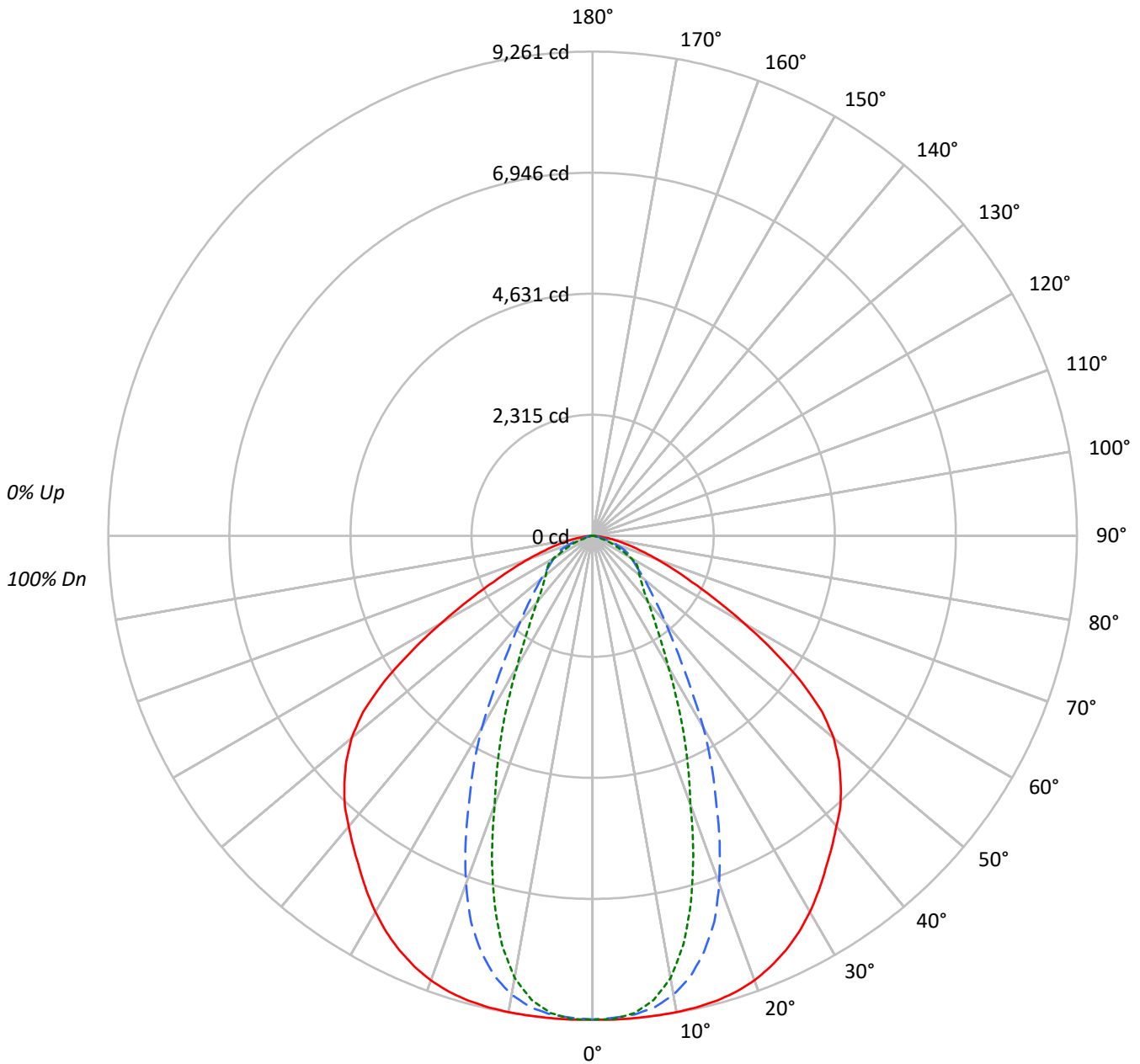
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13049.0 lumens
Efficiency: N/A
Efficacy: 116.9 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): 111.6
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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CATALOG NUMBER: VHB-15-N-UNV-L940-CD1-U

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°	56912	56912	56912
5°	57179	56745	56581
10°	57779	55656	53624
15°	58604	52439	46237
20°	59235	46327	35798
25°	59353	37829	27738
30°	59020	30045	20530
35°	58347	22263	15964
40°	58255	17289	13175
45°	58378	14228	11704
50°	57550	12307	11163
55°	52244	10970	11279
60°	41074	10483	10277
65°	30507	10160	7734
70°	23399	8134	4721
75°	17812	5801	2605
80°	13081	2699	2104
85°	8186	2322	1870



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	869.3	6.7
10°-20°	2288.4	17.5
20°-30°	2763.5	21.2
30°-40°	2470.9	18.9
40°-50°	1934.9	14.8
50°-60°	1462.0	11.2
60°-70°	868.3	6.7
70°-80°	333.7	2.6
80°-90°	58.0	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°	5921.2	45.4
0°-40°	8392.2	64.3
0°-60°	11789.0	90.3
0°-90°	13049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13049.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9253	9253	9253	9253	9253	
5°	9261	9220	9190	9178	9164	884
15°	9203	8900	8235	7547	7261	2600
25°	8746	7717	5574	4395	4087	4027
35°	7771	5530	2965	2312	2126	4873
45°	6711	2859	1636	1382	1346	5166
55°	4872	1552	1023	1019	1052	4278
65°	2096	871	698	582	531	2160
75°	750	419	244	121	110	820
85°	116	40	33	29	26	155
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9252.8	9252.8	9252.8	9252.8	9252.8
2.5°	9261.4	9230.9	9228.6	9248.2	9251.1
5°	9260.9	9220.5	9190.5	9178.4	9163.9
7.5°	9258.0	9196.8	9095.9	8998.9	8953.9
10°	9251.1	9142.6	8911.2	8690.8	8585.8
12.5°	9236.1	9045.7	8637.2	8232.1	8011.7
15°	9203.2	8899.7	8235.0	7546.7	7261.1
17.5°	9143.7	8698.3	7742.3	6770.7	6403.2
20°	9049.7	8442.2	7077.6	5885.6	5469.1
22.5°	8914.7	8107.5	6345.5	5088.8	4755.9
25°	8745.6	7716.9	5574.1	4394.7	4087.2
27.5°	8544.9	7261.1	4909.4	3748.5	3445.6
30°	8310.0	6728.6	4230.3	3138.1	2890.6
32.5°	8047.5	6167.8	3521.2	2672.5	2468.8
35°	7770.6	5529.6	2965.0	2311.9	2126.1
37.5°	7509.8	4846.5	2511.0	1992.8	1862.4
40°	7255.3	4128.8	2153.2	1740.7	1640.9
42.5°	7015.3	3442.2	1879.8	1529.5	1464.3
45°	6711.3	2859.4	1635.7	1381.8	1345.5
47.5°	6388.7	2413.4	1441.8	1261.8	1249.1
50°	6014.3	2055.7	1286.1	1157.4	1166.6
52.5°	5528.5	1773.0	1138.4	1083.5	1110.7
55°	4871.9	1551.5	1023.0	1018.9	1051.8
57.5°	4102.8	1339.7	931.8	957.2	994.1
60°	3338.9	1169.5	852.2	889.1	835.4
62.5°	2667.3	1013.2	776.6	709.1	662.9
65°	2096.1	871.2	698.1	582.2	531.4
67.5°	1671.5	739.1	587.4	463.3	421.2
70°	1301.1	621.4	452.3	347.9	262.5
72.5°	997.0	519.3	353.1	197.9	149.4
75°	749.5	418.9	244.1	120.6	109.6
77.5°	534.3	311.0	130.4	87.1	80.8
80°	369.3	199.6	76.2	62.9	59.4
82.5°	229.1	96.4	51.9	45.0	42.1
85°	116.0	40.4	32.9	28.8	26.5
87.5°	38.7	19.6	15.0	13.8	12.7
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)