

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: P565469

Luminaire Tested: **VHB-24-N-UNV-L940-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565469
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-24-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

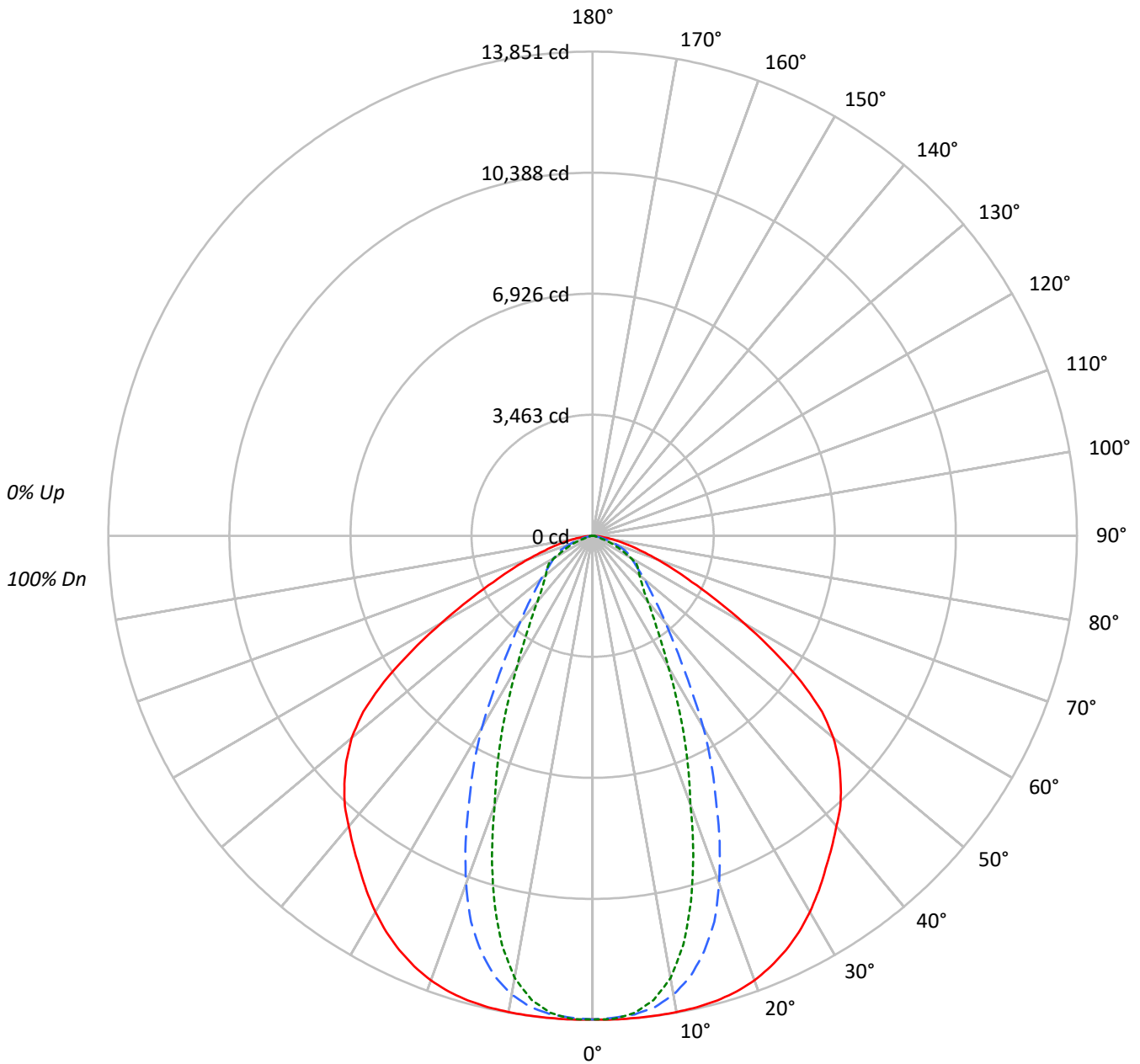
Lumens per Lamp: N/A
Luminaire Lumens: 19515.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 174.1
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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69																			
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62																			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55																			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50																			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46																			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42																			
9	65	53	46	41	63	52	45	41	51	45	41	50	44	40	49	44	40	39																			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	85113	85113	85113
5°	85513	84862	84617
10°	86410	83236	80196
15°	87643	78423	69148
20°	88587	69283	53537
25°	88764	56574	41483
30°	88266	44933	30703
35°	87259	33295	23875
40°	87122	25856	19704
45°	87305	21278	17503
50°	86068	18404	16695
55°	78132	16406	16868
60°	61427	15677	15370
65°	45624	15196	11566
70°	34993	12166	7060
75°	26638	8674	3895
80°	19559	4034	3149
85°	12237	3472	2802



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1300.1	6.7
10°-20°	3422.4	17.5
20°-30°	4132.9	21.2
30°-40°	3695.3	18.9
40°-50°	2893.7	14.8
50°-60°	2186.4	11.2
60°-70°	1298.6	6.7
70°-80°	499.0	2.6
80°-90°	86.7	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°	8855.3	45.4
0°-40°	12550.6	64.3
0°-60°	17630.7	90.3
0°-90°	19515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19515.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13838	13838	13838	13838	13838	
5°	13850	13789	13744	13726	13705	###
15°	13764	13310	12316	11286	10859	3889
25°	13079	11541	8336	6572	6112	6022
35°	11621	8270	4434	3458	3180	7287
45°	10037	4276	2446	2067	2012	7726
55°	7286	2320	1530	1524	1573	6398
65°	3135	1303	1044	871	795	3230
75°	1121	626	365	180	164	1227
85°	173	60	49	43	40	231
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13837.7	13837.7	13837.7	13837.7	13837.7
2.5°	13850.6	13804.9	13801.5	13830.8	13835.1
5°	13849.8	13789.4	13744.5	13726.4	13704.8
7.5°	13845.5	13754.0	13603.0	13458.0	13390.7
10°	13835.1	13672.9	13326.9	12997.3	12840.2
12.5°	13812.7	13527.9	12917.0	12311.3	11981.7
15°	13763.5	13309.6	12315.6	11286.2	10859.1
17.5°	13674.6	13008.5	11578.7	10125.7	9576.0
20°	13534.0	12625.4	10584.7	8802.0	8179.1
22.5°	13332.1	12124.9	9489.7	7610.4	7112.6
25°	13079.2	11540.8	8336.1	6572.4	6112.5
27.5°	12779.0	10859.1	7342.1	5606.0	5153.0
30°	12427.8	10062.7	6326.5	4693.1	4322.9
32.5°	12035.2	9224.0	5266.0	3996.8	3692.2
35°	11621.0	8269.7	4434.2	3457.5	3179.6
37.5°	11231.0	7248.0	3755.2	2980.3	2785.3
40°	10850.5	6174.6	3220.2	2603.3	2454.0
42.5°	10491.5	5147.8	2811.2	2287.4	2189.9
45°	10036.8	4276.3	2446.2	2066.6	2012.2
47.5°	9554.5	3609.3	2156.3	1887.1	1868.1
50°	8994.5	3074.4	1923.3	1730.9	1744.7
52.5°	8267.9	2651.6	1702.4	1620.5	1661.0
55°	7286.0	2320.2	1529.9	1523.8	1573.0
57.5°	6135.8	2003.6	1393.5	1431.5	1486.7
60°	4993.4	1749.0	1274.4	1329.7	1249.4
62.5°	3989.0	1515.2	1161.4	1060.5	991.4
65°	3134.8	1302.9	1044.1	870.6	794.7
67.5°	2499.7	1105.3	878.4	692.9	629.9
70°	1945.8	929.3	676.5	520.3	392.6
72.5°	1491.0	776.6	528.1	296.0	223.5
75°	1120.9	626.4	365.0	180.3	163.9
77.5°	799.0	465.1	195.0	130.3	120.8
80°	552.2	298.5	113.9	94.1	88.9
82.5°	342.6	144.1	77.7	67.3	63.0
85°	173.4	60.4	49.2	43.1	39.7
87.5°	57.8	29.3	22.4	20.7	19.0
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)