

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: P364418

Luminaire Tested: **VHB-24-W-UNV-L835-CD-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P364418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-491-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-24-W-UNV-L835-CD-U
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 3500K, 80CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22613.0 lumens
Efficiency: N/A
Efficacy: 129.9 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

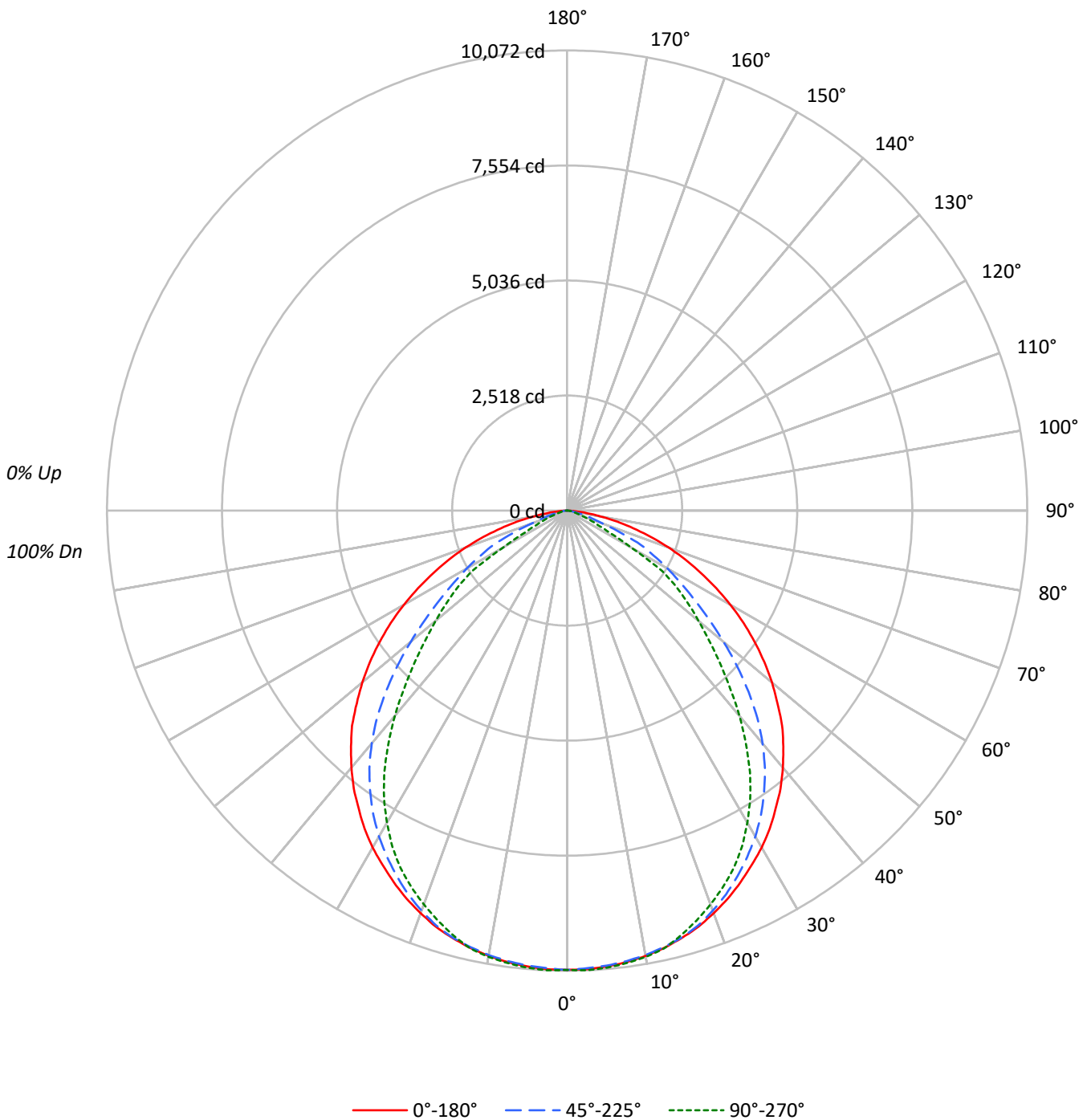
Input Watts (W): 174.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	61838	61838	61838
5°	61848	61722	62005
10°	61825	61692	61946
15°	61678	61614	61296
20°	61381	61001	60047
25°	60926	59889	58576
30°	60483	58509	56007
35°	59762	56459	52368
40°	58975	53424	47119
45°	57903	48859	41170
50°	55989	42776	35965
55°	53704	36440	31394
60°	50733	31255	20043
65°	47009	26069	10626
70°	42431	14815	6886
75°	35647	9076	4282
80°	27086	4580	3751
85°	16457	4171	3380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	951.8	4.2
10°-20°	2723.2	12.0
20°-30°	4059.4	18.0
30°-40°	4675.0	20.7
40°-50°	4350.8	19.2
50°-60°	3310.7	14.6
60°-70°	1777.1	7.9
70°-80°	653.8	2.9
80°-90°	111.2	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°	7734.4	34.2
0°-40°	12409.4	54.9
0°-60°	20070.9	88.8
0°-90°	22613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10054	10054	10054	10054	10054	
5°	10017	9988	9997	10031	10042	952
15°	9686	9671	9676	9658	9626	2734
25°	8977	8970	8825	8699	8631	4138
35°	7959	7862	7519	7141	6974	4982
45°	6657	6336	5617	4950	4733	5115
55°	5008	4442	3398	3025	2928	4473
65°	3230	2373	1791	887	730	3203
75°	1500	983	382	198	180	1608
85°	233	75	59	51	48	311
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10053.6	10053.6	10053.6	10053.6	10053.6
2.5°	10046.5	10016.0	10026.2	10058.7	10072.0
5°	10017.0	9988.5	9996.6	10031.2	10042.4
7.5°	9968.1	9940.6	9946.7	9979.3	9990.5
10°	9898.9	9870.4	9877.5	9909.1	9918.2
12.5°	9805.2	9778.7	9784.8	9807.2	9817.4
15°	9686.0	9670.8	9675.9	9657.5	9626.0
17.5°	9552.6	9530.2	9524.1	9442.7	9409.1
20°	9377.5	9369.4	9319.5	9218.6	9173.8
22.5°	9193.2	9177.9	9091.4	8970.2	8916.2
25°	8977.3	8970.2	8824.6	8699.3	8631.1
27.5°	8745.1	8727.8	8540.5	8383.6	8291.0
30°	8516.0	8473.3	8238.0	8018.1	7885.7
32.5°	8256.4	8175.9	7894.9	7613.8	7461.1
35°	7959.0	7862.3	7519.1	7141.3	6974.3
37.5°	7670.8	7525.2	7111.8	6639.3	6425.5
40°	7345.0	7136.2	6653.6	6104.7	5868.4
42.5°	7001.8	6747.2	6165.8	5527.3	5285.0
45°	6656.6	6335.8	5616.9	4949.9	4733.0
47.5°	6246.2	5906.1	5046.7	4399.0	4212.7
50°	5851.1	5454.0	4470.3	3885.8	3758.5
52.5°	5437.7	4956.1	3910.3	3452.0	3328.8
55°	5008.0	4441.8	3398.1	3025.4	2927.6
57.5°	4576.2	3913.3	2943.9	2637.4	2462.2
60°	4124.1	3388.9	2540.7	2143.5	1629.3
62.5°	3679.1	2843.1	2138.4	1344.2	1036.6
65°	3230.0	2372.6	1791.2	886.9	730.1
67.5°	2801.3	1917.5	1278.0	642.5	546.8
70°	2359.4	1568.2	823.8	460.3	382.9
72.5°	1916.4	1261.7	565.2	302.4	245.4
75°	1500.0	982.7	381.9	197.5	180.2
77.5°	1124.2	678.2	212.8	146.6	137.5
80°	764.7	406.3	129.3	112.0	105.9
82.5°	458.2	194.5	93.7	82.5	79.4
85°	233.2	75.4	59.1	50.9	47.9
87.5°	69.2	37.7	26.5	20.4	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)