

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: P563271

Luminaire Tested: **VHB-18-N-UNV-L835-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364424)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-18-N-UNV-L835-CD
Description: 18000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 80CRI, 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

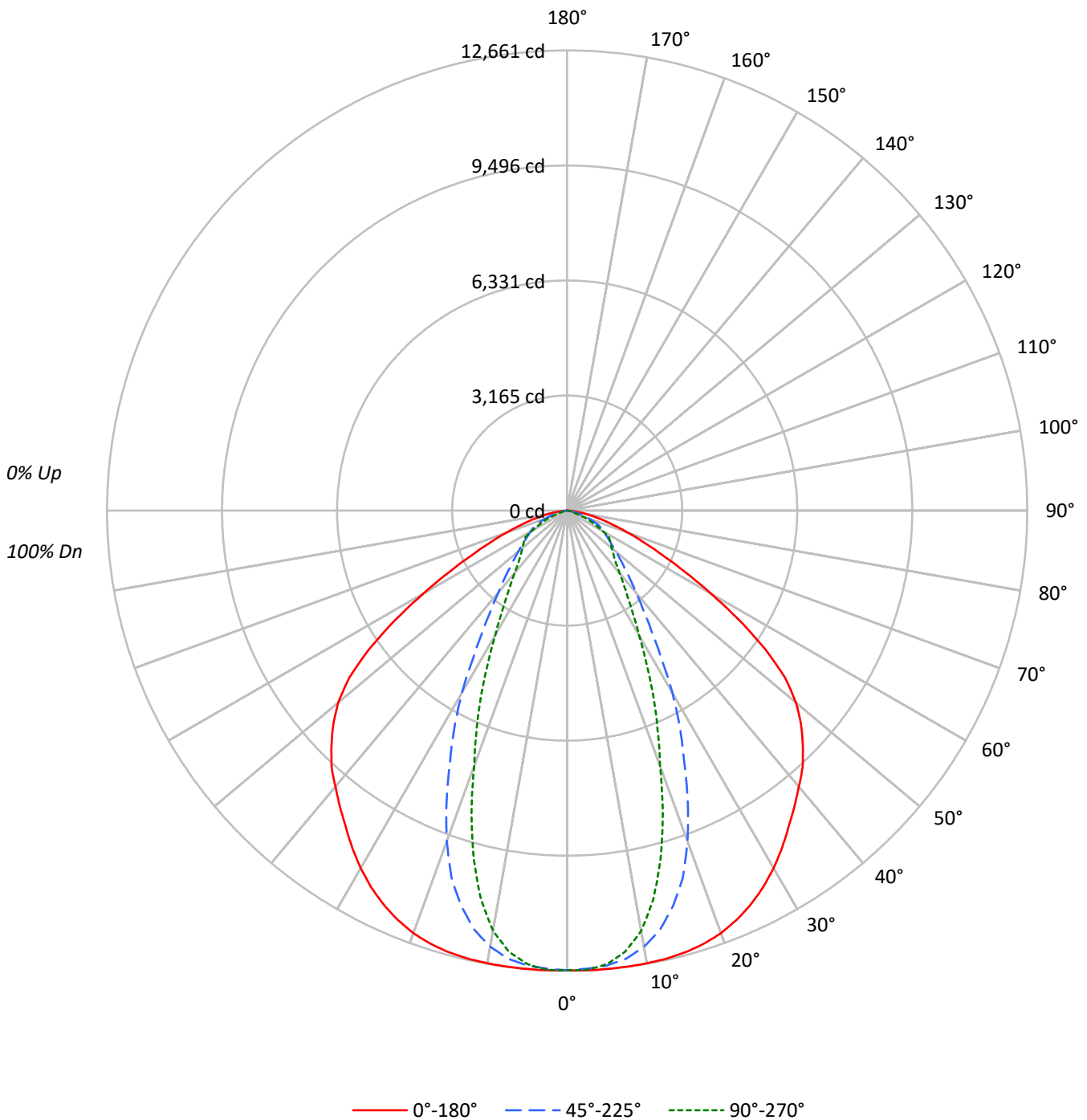
Lumens per Lamp: N/A
Luminaire Lumens: 17839.0 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 125
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	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°	73709	73709	73709
5°	74056	73493	73280
10°	74833	72084	69452
15°	75901	67917	59883
20°	76718	60001	46364
25°	76872	48995	35925
30°	76441	38913	26589
35°	75568	28835	20676
40°	75450	22392	17064
45°	75609	18427	15158
50°	74536	15938	14458
55°	67665	14207	14609
60°	53198	13577	13312
65°	39512	13160	10017
70°	30305	10534	6115
75°	23068	7513	3373
80°	16936	3497	2725
85°	10597	3002	2427



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1188.4	6.7
10°-20°	3128.4	17.5
20°-30°	3777.9	21.2
30°-40°	3377.9	18.9
40°-50°	2645.2	14.8
50°-60°	1998.6	11.2
60°-70°	1187.0	6.7
70°-80°	456.2	2.6
80°-90°	79.3	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°	8094.8	45.4
0°-40°	11472.7	64.3
0°-60°	16116.5	90.3
0°-90°	17839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12649	12649	12649	12649	12649	
5°	12660	12605	12564	12548	12528	###
15°	12582	12167	11258	10317	9926	3555
25°	11956	10550	7620	6008	5588	5505
35°	10623	7559	4053	3160	2906	6662
45°	9175	3909	2236	1889	1839	7062
55°	6660	2121	1398	1393	1438	5849
65°	2866	1191	954	796	726	2953
75°	1025	573	334	165	150	1122
85°	158	55	45	39	36	211
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12649.2	12649.2	12649.2	12649.2	12649.2
2.5°	12661.2	12619.4	12616.1	12642.9	12647.0
5°	12660.3	12605.0	12564.1	12547.6	12527.7
7.5°	12656.4	12572.8	12434.8	12302.2	12240.7
10°	12647.0	12498.6	12182.4	11881.1	11737.5
12.5°	12626.4	12366.1	11807.6	11253.9	10952.6
15°	12581.5	12166.6	11258.0	10316.9	9926.4
17.5°	12500.1	11891.2	10584.3	9256.0	8753.5
20°	12371.6	11541.1	9675.7	8046.1	7476.6
22.5°	12187.0	11083.7	8674.7	6956.8	6501.8
25°	11956.0	10549.7	7620.2	6007.9	5587.5
27.5°	11681.5	9926.4	6711.4	5124.5	4710.4
30°	11360.5	9198.4	5783.2	4290.0	3951.6
32.5°	11001.6	8431.8	4813.8	3653.5	3375.1
35°	10622.9	7559.4	4053.4	3160.5	2906.5
37.5°	10266.4	6625.5	3432.7	2724.4	2546.1
40°	9918.7	5644.4	2943.7	2379.7	2243.3
42.5°	9590.5	4705.8	2569.8	2091.0	2001.8
45°	9174.8	3909.1	2236.1	1889.1	1839.4
47.5°	8733.8	3299.3	1971.0	1724.9	1707.6
50°	8221.9	2810.4	1758.1	1582.3	1594.8
52.5°	7557.8	2423.9	1556.2	1481.2	1518.4
55°	6660.3	2121.0	1398.4	1392.9	1438.0
57.5°	5608.8	1831.5	1273.8	1308.6	1359.0
60°	4564.6	1598.8	1165.0	1215.4	1142.2
62.5°	3646.4	1385.1	1061.7	969.3	906.4
65°	2865.6	1191.0	954.4	795.9	726.5
67.5°	2285.1	1010.4	802.9	633.4	575.8
70°	1778.7	849.5	618.3	475.6	358.9
72.5°	1363.0	709.9	482.7	270.6	204.3
75°	1024.6	572.6	333.7	164.9	149.8
77.5°	730.4	425.2	178.2	119.1	110.4
80°	504.7	273.0	104.2	86.0	81.2
82.5°	313.1	131.8	71.0	61.5	57.6
85°	158.5	55.2	44.9	39.4	36.3
87.5°	52.8	26.9	20.4	19.0	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)