

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: P563268

Luminaire Tested: **VHB-18-N-UNV-L735-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563268
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-L735-CD
Description: 18000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 70CRI, 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

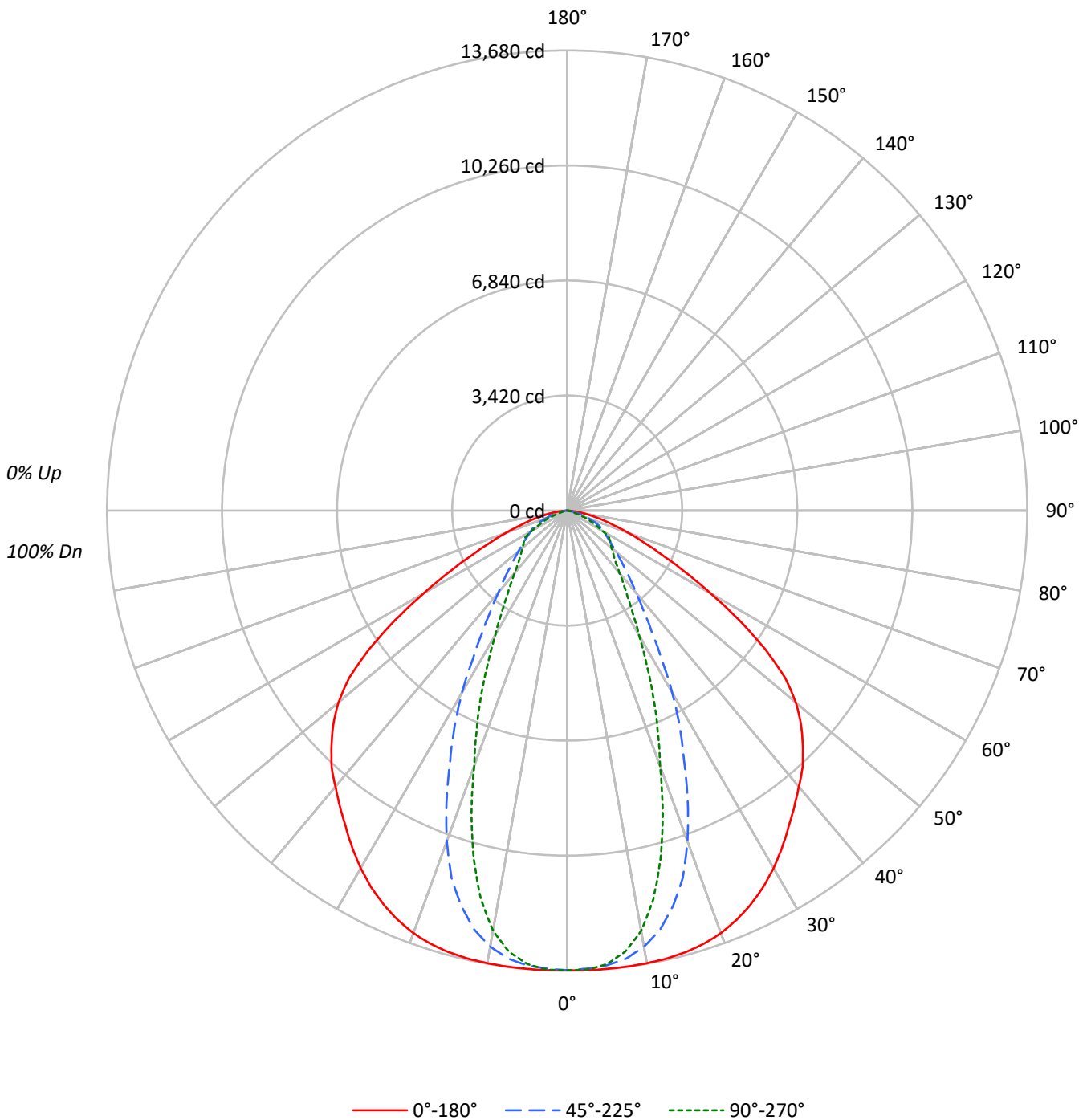
Lumens per Lamp: N/A
Luminaire Lumens: 19274.0 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

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°	79638	79638	79638
5°	80013	79405	79175
10°	80853	77883	75039
15°	82006	73380	64701
20°	82890	64827	50093
25°	83056	52936	38815
30°	82590	42043	28728
35°	81647	31154	22339
40°	81519	24194	18437
45°	81691	19910	16378
50°	80532	17220	15621
55°	73107	15350	15784
60°	57477	14669	14381
65°	42690	14218	10824
70°	32743	11383	6607
75°	24924	8119	3645
80°	18299	3779	2943
85°	11446	3243	2621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1284.0	6.7
10°-20°	3380.1	17.5
20°-30°	4081.8	21.2
30°-40°	3649.7	18.9
40°-50°	2857.9	14.8
50°-60°	2159.4	11.2
60°-70°	1282.5	6.7
70°-80°	492.9	2.6
80°-90°	85.6	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°	8746.0	45.4
0°-40°	12395.6	64.3
0°-60°	17413.0	90.3
0°-90°	19274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13667	13667	13667	13667	13667	
5°	13679	13619	13575	13557	13536	###
15°	13594	13145	12164	11147	10725	3841
25°	12918	11398	8233	6491	6037	5948
35°	11478	8168	4380	3415	3140	7198
45°	9913	4224	2416	2041	1987	7630
55°	7196	2292	1511	1505	1554	6319
65°	3096	1287	1031	860	785	3190
75°	1107	619	361	178	162	1212
85°	171	60	48	43	39	228
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13666.7	13666.7	13666.7	13666.7	13666.7
2.5°	13679.6	13634.5	13630.9	13660.0	13664.3
5°	13678.7	13619.0	13574.8	13556.9	13535.5
7.5°	13674.5	13584.2	13435.0	13291.8	13225.4
10°	13664.3	13504.0	13162.4	12836.8	12681.7
12.5°	13642.1	13360.9	12757.5	12159.2	11833.7
15°	13593.5	13145.3	12163.6	11146.8	10724.9
17.5°	13505.7	12847.8	11435.7	10000.6	9457.7
20°	13366.8	12469.5	10454.0	8693.4	8078.0
22.5°	13167.4	11975.3	9372.5	7516.4	7024.8
25°	12917.7	11398.3	8233.2	6491.2	6037.0
27.5°	12621.2	10724.9	7251.3	5536.8	5089.3
30°	12274.4	9938.4	6248.4	4635.1	4269.5
32.5°	11886.6	9110.0	5201.1	3947.4	3646.6
35°	11477.5	8167.5	4379.5	3414.8	3140.3
37.5°	11092.3	7158.4	3708.9	2943.6	2750.9
40°	10716.5	6098.4	3180.5	2571.1	2423.7
42.5°	10362.0	5084.3	2776.5	2259.2	2162.8
45°	9912.9	4223.6	2416.0	2041.1	1987.4
47.5°	9436.4	3564.7	2129.6	1863.7	1845.0
50°	8883.3	3036.5	1899.5	1709.6	1723.1
52.5°	8165.8	2618.8	1681.3	1600.4	1640.5
55°	7196.0	2291.7	1510.9	1504.9	1553.6
57.5°	6060.0	1978.8	1376.3	1413.8	1468.3
60°	4931.8	1727.5	1258.7	1313.2	1234.0
62.5°	3939.8	1496.5	1147.1	1047.3	979.3
65°	3096.1	1286.8	1031.2	859.9	785.0
67.5°	2468.9	1091.6	867.5	684.3	622.1
70°	1921.8	917.8	668.1	513.9	387.8
72.5°	1472.7	767.1	521.5	292.3	220.7
75°	1107.0	618.7	360.6	178.2	161.9
77.5°	789.1	459.4	192.5	128.7	119.3
80°	545.3	294.9	112.6	92.9	87.7
82.5°	338.3	142.4	76.8	66.4	62.2
85°	171.2	59.7	48.5	42.6	39.2
87.5°	57.1	29.0	22.1	20.5	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)