

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: P563277

Luminaire Tested: **VHB-24-N-UNV-L735-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563277
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-24-N-UNV-L735-CD
Description: 24000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 70CRI, 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

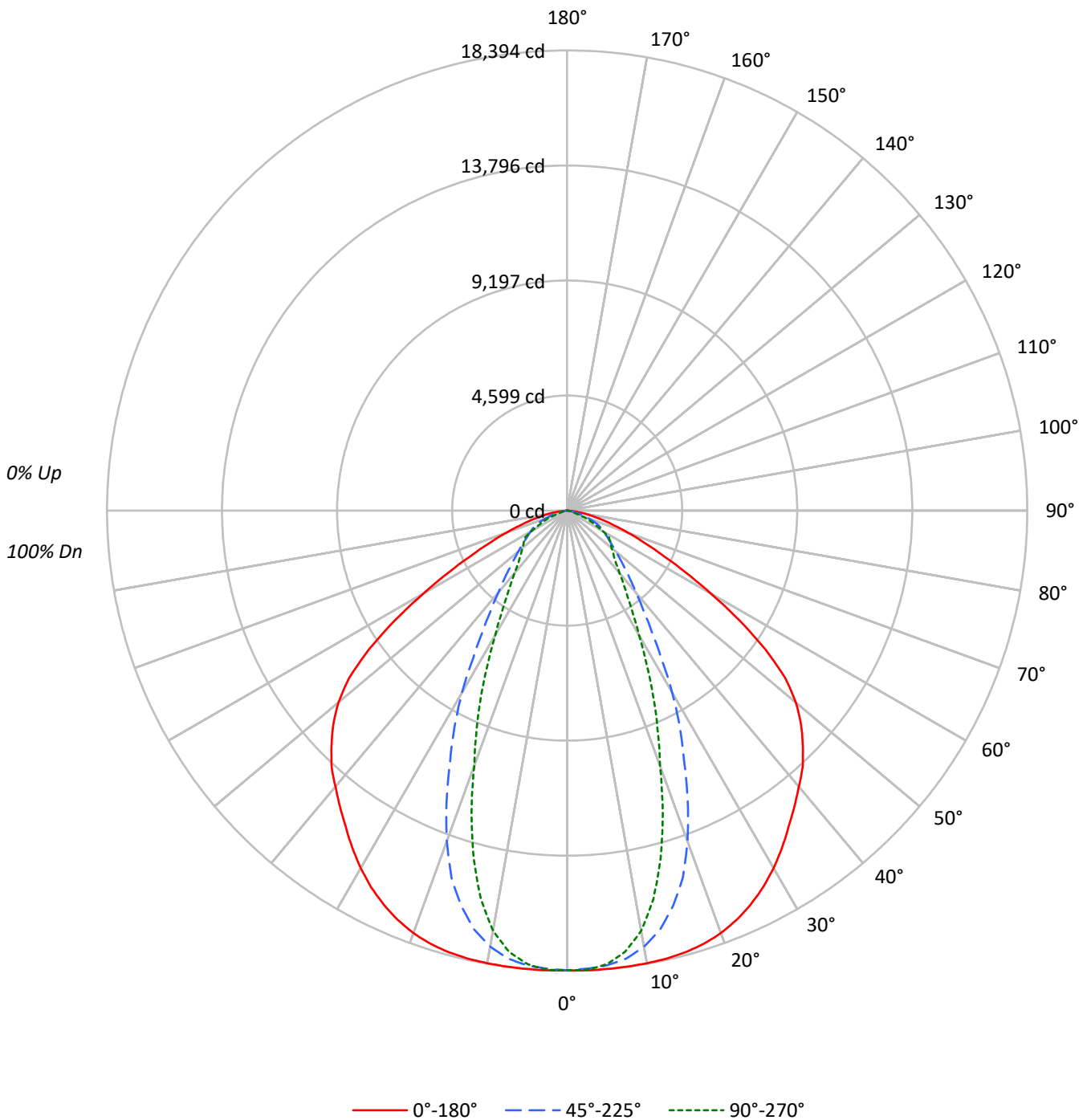
Lumens per Lamp: N/A
Luminaire Lumens: 25916.0 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 165
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°	107083	107083	107083
5°	107586	106769	106459
10°	108716	104722	100897
15°	110267	98667	86997
20°	111455	87167	67356
25°	111677	71178	52192
30°	111051	56531	38628
35°	109783	41890	30038
40°	109612	32531	24791
45°	109843	26771	22022
50°	108284	23154	21004
55°	98300	20640	21223
60°	77284	19725	19338
65°	57402	19117	14554
70°	44025	15305	8883
75°	33511	10915	4901
80°	24608	5077	3956
85°	15398	4366	3523



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1726.5	6.7
10°-20°	4544.9	17.5
20°-30°	5488.5	21.2
30°-40°	4907.4	18.9
40°-50°	3842.8	14.8
50°-60°	2903.5	11.2
60°-70°	1724.5	6.7
70°-80°	662.7	2.6
80°-90°	115.1	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°	11759.9	45.4
0°-40°	16667.3	64.3
0°-60°	23413.6	90.3
0°-90°	25916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18376	18376	18376	18376	18376	
5°	18392	18312	18253	18229	18200	###
15°	18278	17675	16355	14988	14421	5164
25°	17369	15326	11070	8728	8117	7997
35°	15433	10982	5889	4592	4222	9678
45°	13329	5679	3248	2744	2672	10260
55°	9676	3081	2032	2024	2089	8497
65°	4163	1730	1386	1156	1056	4289
75°	1488	832	485	240	218	1630
85°	230	80	65	57	53	307
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18376.4	18376.4	18376.4	18376.4	18376.4
2.5°	18393.8	18333.1	18328.3	18367.3	18373.2
5°	18392.5	18312.3	18252.8	18228.8	18199.9
7.5°	18386.8	18265.4	18064.9	17872.3	17783.0
10°	18373.2	18157.7	17698.2	17260.5	17051.9
12.5°	18343.3	17965.1	17153.8	16349.4	15911.7
15°	18278.0	17675.2	16355.3	14988.0	14420.8
17.5°	18159.8	17275.2	15376.6	13446.9	12716.9
20°	17973.2	16766.6	14056.6	11689.2	10861.8
22.5°	17705.0	16102.0	12602.4	10106.6	9445.6
25°	17369.3	15326.3	11070.4	8728.1	8117.4
27.5°	16970.6	14420.8	9750.2	7444.8	6843.1
30°	16504.2	13363.2	8401.6	6232.4	5740.8
32.5°	15982.8	12249.4	6993.4	5307.6	4903.3
35°	15432.7	10982.1	5888.7	4591.5	4222.5
37.5°	14914.8	9625.3	4987.0	3958.0	3698.9
40°	14409.6	8200.0	4276.5	3457.1	3259.0
42.5°	13932.8	6836.4	3733.3	3037.8	2908.1
45°	13329.0	5679.1	3248.5	2744.5	2672.3
47.5°	12688.3	4793.1	2863.5	2506.0	2480.8
50°	11944.6	4082.9	2554.1	2298.7	2316.9
52.5°	10979.8	3521.3	2260.7	2151.9	2205.9
55°	9675.8	3081.4	2031.6	2023.5	2089.0
57.5°	8148.4	2660.8	1850.5	1901.0	1974.3
60°	6631.3	2322.7	1692.5	1765.7	1659.3
62.5°	5297.5	2012.3	1542.4	1408.2	1316.7
65°	4163.1	1730.2	1386.5	1156.3	1055.5
67.5°	3319.7	1467.8	1166.5	920.2	836.5
70°	2584.0	1234.1	898.3	691.0	521.4
72.5°	1980.2	1031.4	701.2	393.1	296.8
75°	1488.4	831.9	484.8	239.6	217.7
77.5°	1061.1	617.7	258.9	173.0	160.4
80°	733.3	396.6	151.3	124.9	117.9
82.5°	454.9	191.4	103.2	89.3	83.7
85°	230.3	80.2	65.3	57.2	52.7
87.5°	76.8	39.0	29.7	27.5	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)