

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: P563279

Luminaire Tested: **VHB-24-N-UNV-L750-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563279
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-L750-CD
Description: 24000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 70CRI, 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

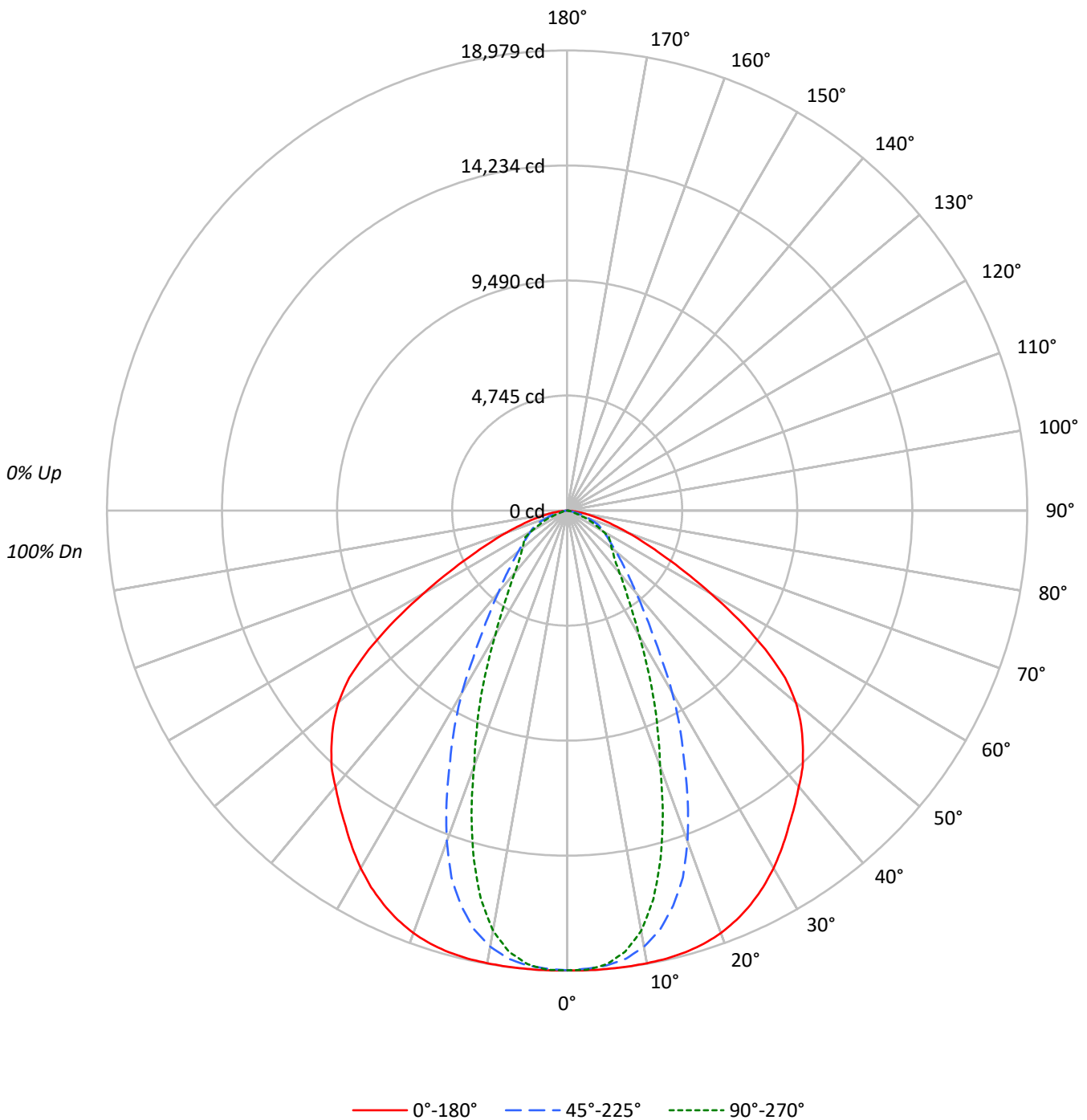
Lumens per Lamp: N/A
Luminaire Lumens: 26740.0 lumens
Efficiency: N/A
Efficacy: 162.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

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	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					100			
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78					78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69					69			
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42					42			
9	65	53	46	41	63	52	45	41	51	45	41	50	44	40	49	44	40	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	110488	110488	110488
5°	111007	110164	109844
10°	112172	108051	104106
15°	113772	101804	89764
20°	114998	89939	69498
25°	115229	73441	53851
30°	114582	58329	39857
35°	113274	43222	30992
40°	113096	33564	25579
45°	113335	27622	22722
50°	111727	23890	21672
55°	101426	21296	21898
60°	79742	20352	19952
65°	59226	19726	15015
70°	45426	15790	9166
75°	34578	11262	5057
80°	25390	5238	4084
85°	15886	4500	3637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1781.4	6.7
10°-20°	4689.4	17.5
20°-30°	5663.0	21.2
30°-40°	5063.4	18.9
40°-50°	3965.0	14.8
50°-60°	2995.9	11.2
60°-70°	1779.3	6.7
70°-80°	683.8	2.6
80°-90°	118.8	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°	12133.8	45.4
0°-40°	17197.2	64.3
0°-60°	24158.1	90.3
0°-90°	26740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26740.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18961	18961	18961	18961	18961	
5°	18977	18894	18833	18808	18779	###
15°	18859	18237	16875	15465	14879	5329
25°	17922	15814	11422	9006	8376	8252
35°	15923	11331	6076	4738	4357	9986
45°	13753	5860	3352	2832	2757	10586
55°	9984	3179	2096	2088	2155	8767
65°	4295	1785	1431	1193	1089	4426
75°	1536	858	500	247	225	1681
85°	238	83	67	59	54	317
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18960.7	18960.7	18960.7	18960.7	18960.7
2.5°	18978.6	18916.0	18911.0	18951.3	18957.4
5°	18977.3	18894.5	18833.2	18808.4	18778.6
7.5°	18971.4	18846.2	18639.2	18440.6	18348.4
10°	18957.4	18735.0	18260.9	17809.3	17594.1
12.5°	18926.5	18536.3	17699.2	16869.2	16417.6
15°	18859.1	18237.2	16875.3	15464.6	14879.4
17.5°	18737.2	17824.5	15865.5	13874.5	13121.2
20°	18544.6	17299.7	14503.5	12060.8	11207.2
22.5°	18267.9	16614.0	13003.1	10428.0	9745.9
25°	17921.6	15813.6	11422.4	9005.6	8375.5
27.5°	17510.2	14879.4	10060.2	7681.5	7060.7
30°	17029.0	13788.1	8668.7	6430.5	5923.4
32.5°	16491.0	12638.9	7215.7	5476.4	5059.2
35°	15923.4	11331.3	6075.9	4737.5	4356.7
37.5°	15389.0	9931.4	5145.5	4083.8	3816.5
40°	14867.7	8460.7	4412.4	3567.0	3362.6
42.5°	14375.8	7053.8	3852.1	3134.4	3000.6
45°	13752.8	5859.6	3351.8	2831.7	2757.2
47.5°	13091.7	4945.5	2954.5	2585.6	2559.7
50°	12324.4	4212.7	2635.3	2371.8	2390.6
52.5°	11328.9	3633.3	2332.6	2220.3	2276.0
55°	9983.5	3179.4	2096.2	2087.9	2155.4
57.5°	8407.4	2745.4	1909.4	1961.5	2037.1
60°	6842.2	2396.6	1746.3	1821.9	1712.0
62.5°	5465.9	2076.2	1591.5	1453.0	1358.6
65°	4295.4	1785.2	1430.6	1193.0	1089.0
67.5°	3425.2	1514.5	1203.6	949.4	863.1
70°	2666.2	1273.4	926.8	713.0	538.0
72.5°	2043.1	1064.2	723.5	405.6	306.3
75°	1535.8	858.4	500.2	247.2	224.6
77.5°	1094.8	637.3	267.1	178.5	165.5
80°	756.6	409.2	156.1	128.9	121.7
82.5°	469.3	197.5	106.5	92.2	86.4
85°	237.6	82.8	67.3	59.1	54.4
87.5°	79.2	40.3	30.6	28.4	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)