

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: P563250

Luminaire Tested: **VHB-12-N-UNV-L735-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563250
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-12-N-UNV-L735-CD
Description: 12000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 70CRI, 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

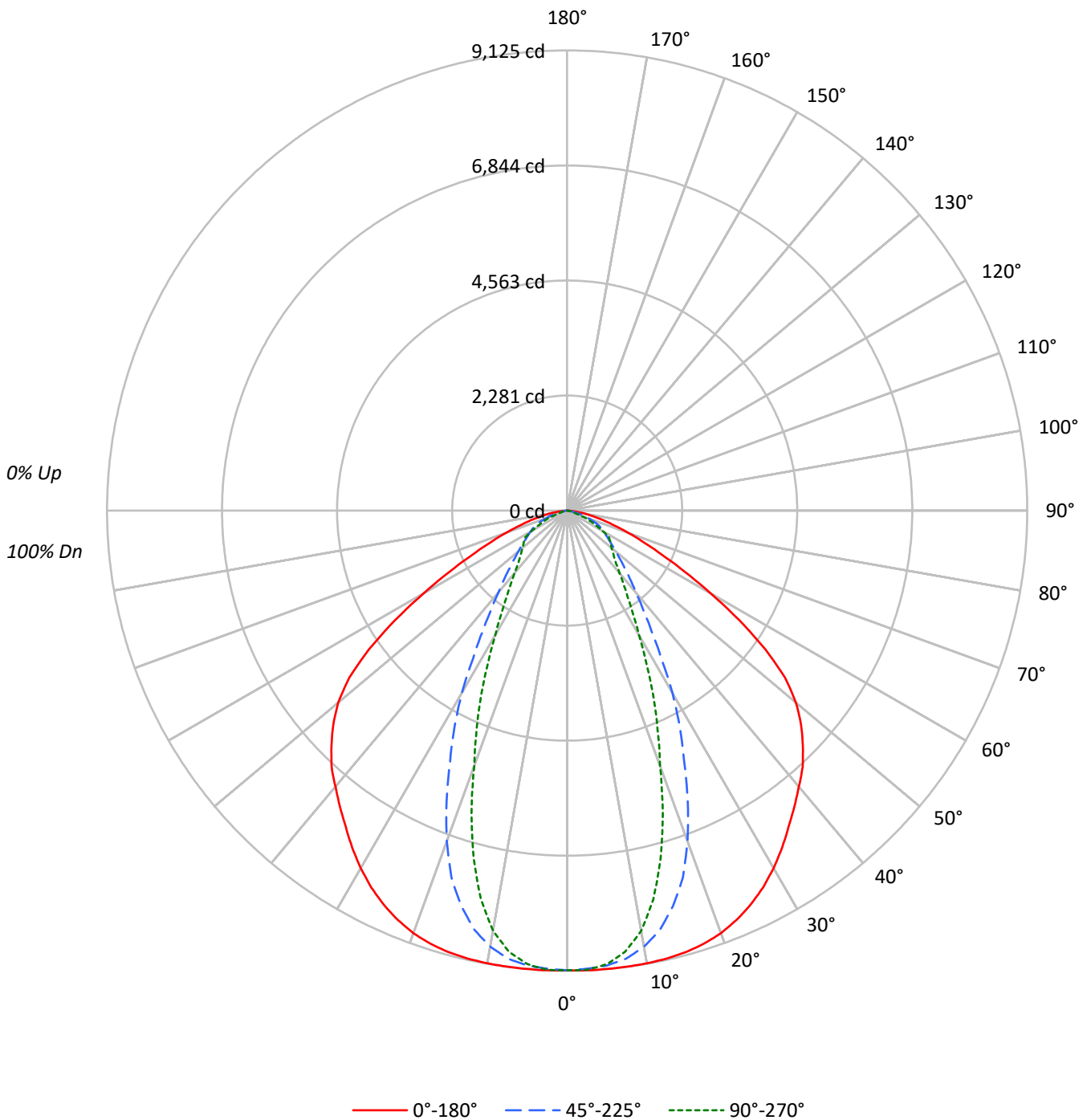
Lumens per Lamp: N/A
Luminaire Lumens: 12857.0 lumens
Efficiency: N/A
Efficacy: 160.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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	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°	53124	53124	53124
5°	53374	52968	52815
10°	53934	51953	50056
15°	54704	48949	43159
20°	55293	43244	33416
25°	55404	35312	25892
30°	55093	28046	19163
35°	54464	20782	14902
40°	54378	16139	12299
45°	54493	13281	10925
50°	53719	11487	10420
55°	48767	10240	10529
60°	38341	9785	9594
65°	28477	9485	7220
70°	21840	7592	4408
75°	16625	5415	2432
80°	12208	2520	1963
85°	7635	2166	1745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	856.5	6.7
10°-20°	2254.7	17.5
20°-30°	2722.8	21.2
30°-40°	2434.6	18.9
40°-50°	1906.4	14.8
50°-60°	1440.4	11.2
60°-70°	855.5	6.7
70°-80°	328.8	2.6
80°-90°	57.1	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°	5834.1	45.4
0°-40°	8268.7	64.3
0°-60°	11615.6	90.3
0°-90°	12857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9117	9117	9117	9117	9117	
5°	9125	9085	9055	9043	9029	871
15°	9068	8769	8114	7436	7154	2562
25°	8617	7603	5492	4330	4027	3968
35°	7656	5448	2921	2278	2095	4801
45°	6612	2817	1612	1362	1326	5090
55°	4800	1529	1008	1004	1036	4215
65°	2065	858	688	574	524	2128
75°	738	413	240	119	108	808
85°	114	40	32	28	26	152
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9116.6	9116.6	9116.6	9116.6	9116.6
2.5°	9125.2	9095.1	9092.7	9112.1	9115.0
5°	9124.6	9084.8	9055.3	9043.3	9029.0
7.5°	9121.8	9061.5	8962.0	8866.5	8822.2
10°	9115.0	9008.1	8780.1	8563.0	8459.5
12.5°	9100.1	8912.6	8510.1	8111.0	7893.8
15°	9067.8	8768.7	8113.9	7435.6	7154.2
17.5°	9009.1	8570.3	7628.4	6671.0	6308.9
20°	8916.5	8317.9	6973.5	5799.0	5388.6
22.5°	8783.5	7988.3	6252.1	5013.9	4686.0
25°	8617.0	7603.4	5492.1	4330.1	4027.0
27.5°	8419.2	7154.2	4837.1	3693.4	3394.9
30°	8187.8	6629.5	4168.1	3091.9	2848.0
32.5°	7929.1	6077.0	3469.4	2633.1	2432.5
35°	7656.2	5448.3	2921.4	2277.9	2094.8
37.5°	7399.2	4775.1	2474.1	1963.6	1835.0
40°	7148.6	4068.0	2121.6	1715.1	1616.8
42.5°	6912.1	3391.6	1852.1	1507.1	1442.7
45°	6612.5	2817.4	1611.6	1361.5	1325.7
47.5°	6294.7	2377.9	1420.6	1243.2	1230.7
50°	5925.7	2025.5	1267.1	1140.4	1149.4
52.5°	5447.1	1746.9	1121.6	1067.6	1094.3
55°	4800.2	1528.7	1007.9	1003.9	1036.4
57.5°	4042.4	1320.0	918.0	943.1	979.5
60°	3289.8	1152.3	839.6	876.0	823.2
62.5°	2628.1	998.3	765.2	698.6	653.2
65°	2065.3	858.4	687.9	573.6	523.6
67.5°	1646.9	728.2	578.7	456.5	415.0
70°	1281.9	612.2	445.6	342.8	258.7
72.5°	982.4	511.7	347.9	195.0	147.3
75°	738.4	412.7	240.5	118.9	108.0
77.5°	526.4	306.4	128.4	85.8	79.6
80°	363.8	196.7	75.1	62.0	58.5
82.5°	225.7	95.0	51.2	44.3	41.5
85°	114.2	39.8	32.4	28.4	26.1
87.5°	38.1	19.4	14.7	13.7	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)