

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: P563265

Luminaire Tested: **VHB-15-N-UNV-L935-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563265
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-15-N-UNV-L935-CD
Description: 15000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 90CRI, 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

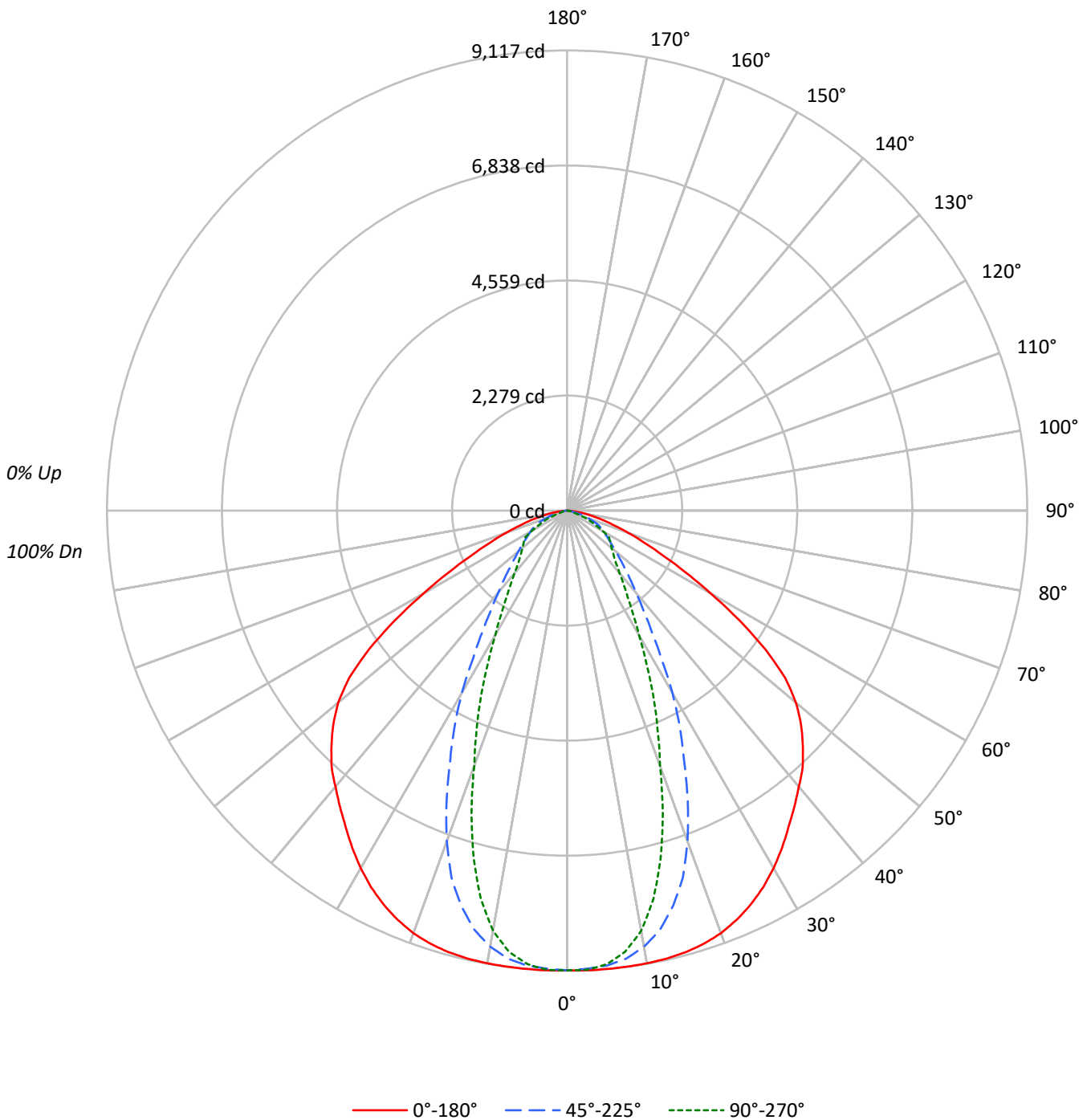
Lumens per Lamp: N/A
Luminaire Lumens: 12846.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 104
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°	53079	53079	53079
5°	53328	52923	52770
10°	53888	51908	50013
15°	54657	48907	43123
20°	55246	43207	33387
25°	55356	35282	25870
30°	55046	28021	19147
35°	54418	20764	14889
40°	54332	16125	12288
45°	54447	13269	10916
50°	53674	11477	10411
55°	48725	10231	10520
60°	38308	9777	9586
65°	28452	9477	7214
70°	21822	7587	4404
75°	16611	5410	2429
80°	12198	2517	1963
85°	7629	2160	1745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	855.8	6.7
10°-20°	2252.8	17.5
20°-30°	2720.5	21.2
30°-40°	2432.5	18.9
40°-50°	1904.8	14.8
50°-60°	1439.2	11.2
60°-70°	854.8	6.7
70°-80°	328.5	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°	5829.1	45.4
0°-40°	8261.6	64.3
0°-60°	11605.6	90.3
0°-90°	12846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9109	9109	9109	9109	9109	
5°	9117	9077	9048	9036	9021	870
15°	9060	8761	8107	7429	7148	2560
25°	8610	7597	5487	4326	4024	3964
35°	7650	5444	2919	2276	2093	4797
45°	6607	2815	1610	1360	1325	5086
55°	4796	1527	1007	1003	1036	4212
65°	2064	858	687	573	523	2126
75°	738	412	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°	9108.8	9108.8	9108.8	9108.8	9108.8
2.5°	9117.4	9087.3	9084.9	9104.3	9107.2
5°	9116.8	9077.0	9047.5	9035.6	9021.3
7.5°	9114.0	9053.8	8954.4	8858.9	8814.7
10°	9107.2	9000.4	8772.6	8555.6	8452.3
12.5°	9092.4	8904.9	8502.8	8104.1	7887.1
15°	9060.0	8761.2	8107.0	7429.2	7148.1
17.5°	9001.4	8563.0	7621.8	6665.3	6303.5
20°	8908.9	8310.8	6967.5	5794.1	5384.0
22.5°	8776.0	7981.4	6246.7	5009.6	4682.0
25°	8609.6	7596.9	5487.4	4326.3	4023.6
27.5°	8412.0	7148.1	4833.0	3690.2	3392.0
30°	8180.8	6623.9	4164.5	3089.2	2845.6
32.5°	7922.3	6071.8	3466.5	2630.9	2430.5
35°	7649.7	5443.6	2918.9	2275.9	2093.0
37.5°	7392.9	4771.1	2471.9	1961.9	1833.5
40°	7142.5	4064.5	2119.8	1713.6	1615.4
42.5°	6906.2	3388.7	1850.5	1505.8	1441.5
45°	6606.9	2815.0	1610.2	1360.4	1324.6
47.5°	6289.3	2375.9	1419.4	1242.1	1229.7
50°	5920.7	2023.8	1266.0	1139.4	1148.4
52.5°	5442.4	1745.4	1120.6	1066.6	1093.4
55°	4796.1	1527.4	1007.0	1003.0	1035.5
57.5°	4039.0	1318.9	917.3	942.3	978.6
60°	3287.0	1151.3	838.9	875.2	822.5
62.5°	2625.8	997.4	764.5	698.0	652.7
65°	2063.5	857.6	687.3	573.1	523.2
67.5°	1645.5	727.6	578.2	456.1	414.6
70°	1280.8	611.7	445.3	342.5	258.5
72.5°	981.5	511.2	347.6	194.8	147.1
75°	737.8	412.4	240.3	118.8	107.9
77.5°	526.0	306.2	128.3	85.8	79.5
80°	363.5	196.6	75.0	61.9	58.5
82.5°	225.5	94.9	51.2	44.3	41.5
85°	114.1	39.8	32.3	28.4	26.1
87.5°	38.0	19.3	14.7	13.6	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)