

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: P563313

Luminaire Tested: **VHB-9-N-UNV-L735-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563313
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-9-N-UNV-L735-CD
Description: 9000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 70CRI, 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

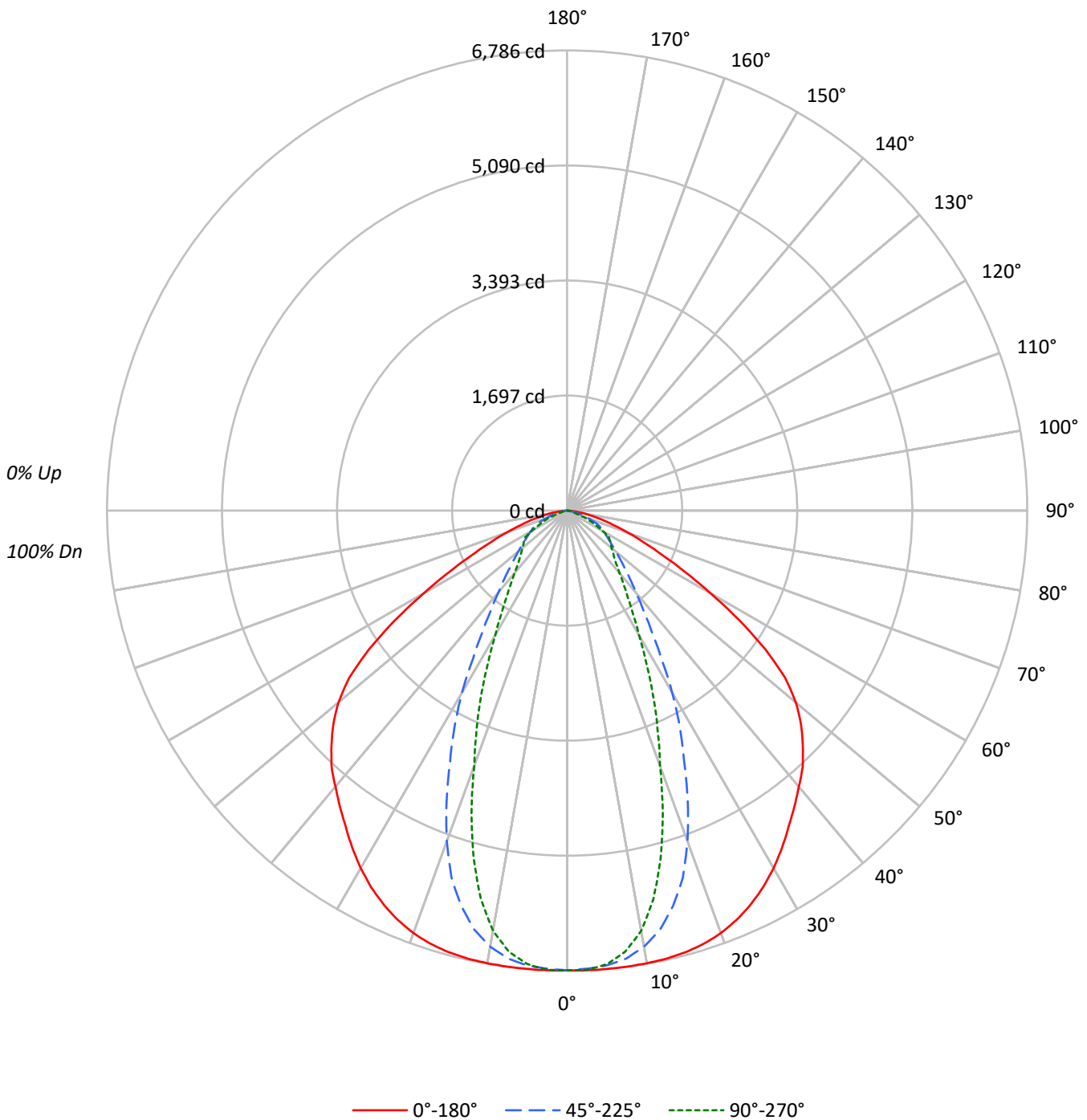
Lumens per Lamp: N/A
Luminaire Lumens: 9561.0 lumens
Efficiency: N/A
Efficacy: 170.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 56
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°	39505	39505	39505
5°	39691	39390	39276
10°	40108	38634	37223
15°	40680	36400	32095
20°	41118	32158	24849
25°	41200	26259	19255
30°	40969	20855	14251
35°	40502	15454	11082
40°	40438	12001	9146
45°	40524	9877	8125
50°	39948	8542	7749
55°	36265	7614	7830
60°	28511	7277	7134
65°	21177	7053	5369
70°	16242	5646	3278
75°	12363	4028	1808
80°	9077	1873	1460
85°	5676	1611	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.0	6.7
10°-20°	1676.7	17.5
20°-30°	2024.8	21.2
30°-40°	1810.4	18.9
40°-50°	1417.7	14.8
50°-60°	1071.2	11.2
60°-70°	636.2	6.7
70°-80°	244.5	2.6
80°-90°	42.5	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°	4338.5	45.4
0°-40°	6148.9	64.3
0°-60°	8637.8	90.3
0°-90°	9561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6780	6780	6780	6780	6780	
5°	6785	6756	6734	6725	6714	647
15°	6743	6521	6034	5529	5320	1905
25°	6408	5654	4084	3220	2995	2950
35°	5694	4052	2172	1694	1558	3570
45°	4917	2095	1198	1012	986	3785
55°	3570	1137	750	746	771	3135
65°	1536	638	512	427	389	1582
75°	549	307	179	88	80	601
85°	85	30	24	21	19	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6779.5	6779.5	6779.5	6779.5	6779.5
2.5°	6785.9	6763.5	6761.7	6776.1	6778.3
5°	6785.4	6755.8	6733.9	6725.0	6714.4
7.5°	6783.3	6738.5	6664.5	6593.5	6560.6
10°	6778.3	6698.8	6529.3	6367.8	6290.8
12.5°	6767.2	6627.7	6328.4	6031.7	5870.2
15°	6743.2	6520.8	6033.8	5529.4	5320.2
17.5°	6699.6	6373.2	5672.8	4960.9	4691.5
20°	6630.7	6185.6	5185.8	4312.4	4007.2
22.5°	6531.8	5940.4	4649.3	3728.6	3484.7
25°	6407.9	5654.2	4084.1	3220.0	2994.7
27.5°	6260.8	5320.2	3597.1	2746.6	2524.6
30°	6088.8	4930.0	3099.5	2299.3	2117.9
32.5°	5896.4	4519.1	2580.0	1958.1	1808.9
35°	5693.5	4051.6	2172.5	1693.9	1557.8
37.5°	5502.4	3551.0	1839.8	1460.2	1364.6
40°	5316.0	3025.2	1577.7	1275.4	1202.3
42.5°	5140.1	2522.1	1377.3	1120.7	1072.9
45°	4917.4	2095.1	1198.5	1012.5	985.9
47.5°	4681.0	1768.3	1056.4	924.5	915.2
50°	4406.6	1506.3	942.3	848.0	854.8
52.5°	4050.7	1299.1	834.0	793.9	813.8
55°	3569.6	1136.8	749.5	746.5	770.7
57.5°	3006.1	981.6	682.7	701.3	728.4
60°	2446.4	856.9	624.4	651.4	612.1
62.5°	1954.4	742.4	569.0	519.5	485.8
65°	1535.9	638.3	511.5	426.6	389.4
67.5°	1224.7	541.5	430.3	339.5	308.6
70°	953.3	455.3	331.4	254.9	192.4
72.5°	730.5	380.5	258.7	145.0	109.5
75°	549.1	306.9	178.9	88.4	80.3
77.5°	391.5	227.9	95.5	63.8	59.2
80°	270.5	146.3	55.8	46.1	43.5
82.5°	167.8	70.6	38.1	33.0	30.9
85°	84.9	29.6	24.1	21.1	19.4
87.5°	28.3	14.4	11.0	10.2	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)