

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: P563303

Luminaire Tested: **VHB-36-N-UNV-L950-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563303
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-36-N-UNV-L950-CD
Description: 36000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 90CRI, 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

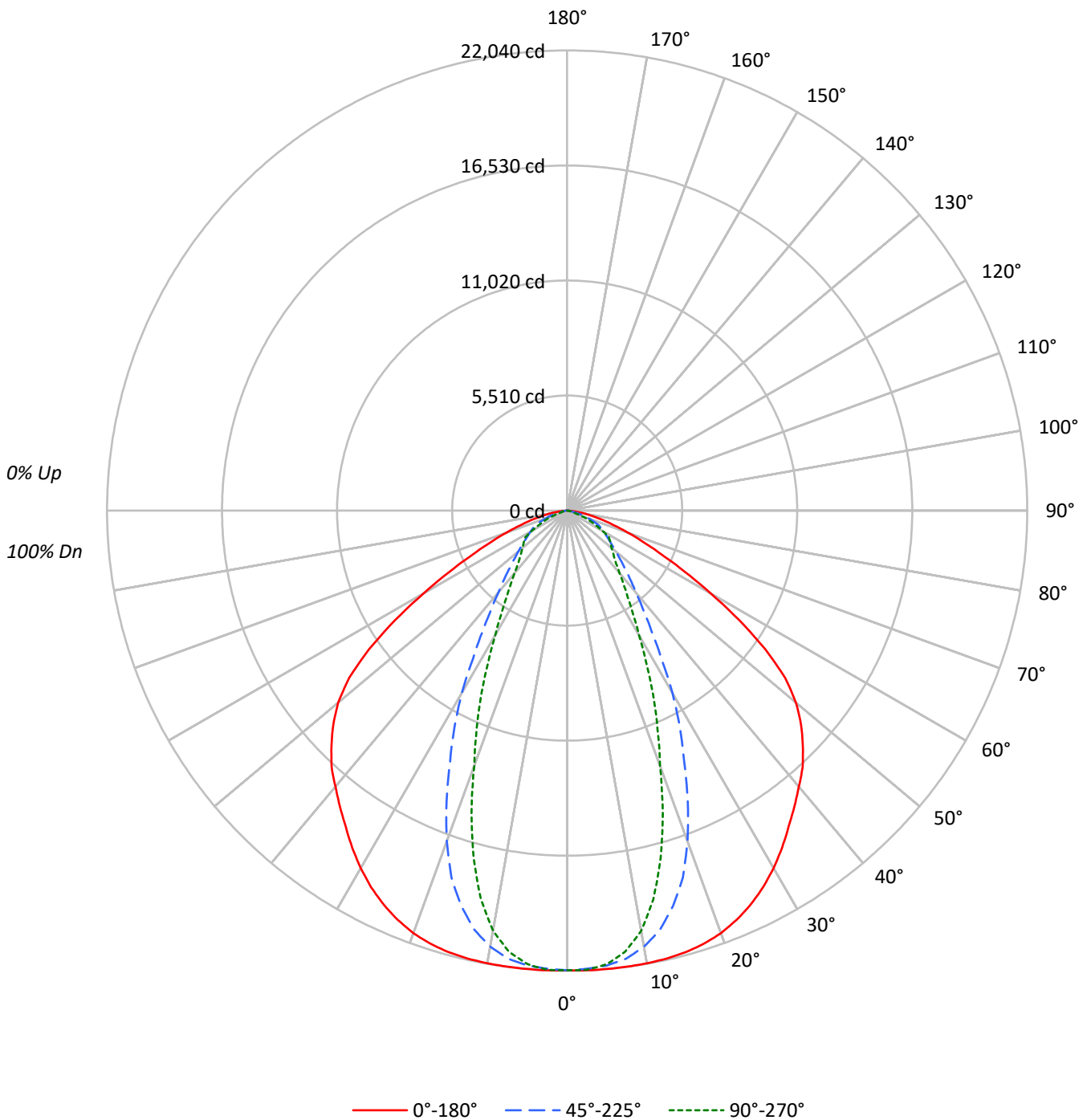
Lumens per Lamp: N/A
Luminaire Lumens: 31054.0 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 246
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°	85542	85542	85542
5°	85944	85291	85044
10°	86846	83656	80601
15°	88085	78819	69497
20°	89034	69633	53806
25°	89213	56860	41693
30°	88712	45160	30858
35°	87700	33464	23995
40°	87562	25987	19804
45°	87746	21386	17592
50°	86501	18497	16778
55°	78526	16487	16954
60°	61737	15757	15448
65°	45855	15272	11625
70°	35169	12226	7097
75°	26770	8719	3915
80°	19656	4056	3161
85°	12298	3486	2813



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2068.8	6.7
10°-20°	5446.0	17.5
20°-30°	6576.6	21.2
30°-40°	5880.3	18.9
40°-50°	4604.7	14.8
50°-60°	3479.2	11.2
60°-70°	2066.4	6.7
70°-80°	794.1	2.6
80°-90°	138.0	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°	14091.4	45.4
0°-40°	19971.7	64.3
0°-60°	28055.5	90.3
0°-90°	31054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22020	22020	22020	22020	22020	
5°	22039	21943	21872	21843	21808	###
15°	21902	21180	19598	17960	17280	6188
25°	20813	18365	13265	10458	9727	9583
35°	18492	13159	7056	5502	5060	11597
45°	15972	6805	3893	3289	3202	12294
55°	11594	3692	2434	2425	2503	10182
65°	4988	2073	1661	1386	1265	5140
75°	1784	997	581	287	261	1953
85°	276	96	78	69	63	368
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22019.7	22019.7	22019.7	22019.7	22019.7
2.5°	22040.4	21967.7	21962.0	22008.8	22015.8
5°	22038.9	21942.8	21871.6	21842.7	21808.2
7.5°	22032.1	21886.6	21646.3	21415.6	21308.6
10°	22015.8	21757.5	21207.0	20682.5	20432.5
12.5°	21979.9	21526.8	20554.6	19590.8	19066.3
15°	21901.7	21179.5	19597.8	17959.5	17279.9
17.5°	21760.1	20700.1	18425.1	16112.8	15238.1
20°	21536.4	20090.6	16843.4	14006.6	13015.2
22.5°	21215.1	19294.4	15100.9	12110.3	11318.2
25°	20812.9	18364.8	13265.2	10458.5	9726.7
27.5°	20335.1	17279.9	11683.2	8920.8	8199.8
30°	19776.3	16012.6	10067.3	7468.0	6879.0
32.5°	19151.5	14678.0	8379.9	6359.9	5875.4
35°	18492.4	13159.4	7056.2	5501.8	5059.6
37.5°	17871.7	11533.6	5975.7	4742.7	4432.2
40°	17266.4	9825.7	5124.3	4142.5	3905.1
42.5°	16695.1	8191.8	4473.5	3640.1	3484.7
45°	15971.5	6805.0	3892.6	3288.6	3202.0
47.5°	15203.8	5743.4	3431.2	3002.8	2972.6
50°	14312.7	4892.3	3060.5	2754.4	2776.2
52.5°	13156.6	4219.4	2708.9	2578.5	2643.2
55°	11594.1	3692.3	2434.3	2424.7	2503.2
57.5°	9763.8	3188.3	2217.4	2277.9	2365.7
60°	7946.0	2783.2	2028.0	2115.8	1988.3
62.5°	6347.7	2411.2	1848.2	1687.4	1577.8
65°	4988.4	2073.2	1661.4	1385.5	1264.7
67.5°	3977.8	1758.9	1397.7	1102.6	1002.3
70°	3096.3	1478.8	1076.4	828.0	624.8
72.5°	2372.8	1235.9	840.2	471.0	355.7
75°	1783.5	996.9	580.9	287.1	260.8
77.5°	1271.5	740.2	310.2	207.3	192.3
80°	878.6	475.2	181.3	149.6	141.3
82.5°	545.1	229.4	123.7	107.0	100.3
85°	275.9	96.1	78.2	68.6	63.1
87.5°	92.0	46.8	35.6	33.0	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)