

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: P563301

Luminaire Tested: **VHB-36-N-UNV-L935-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563301
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-L935-CD
Description: 36000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 90CRI, 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

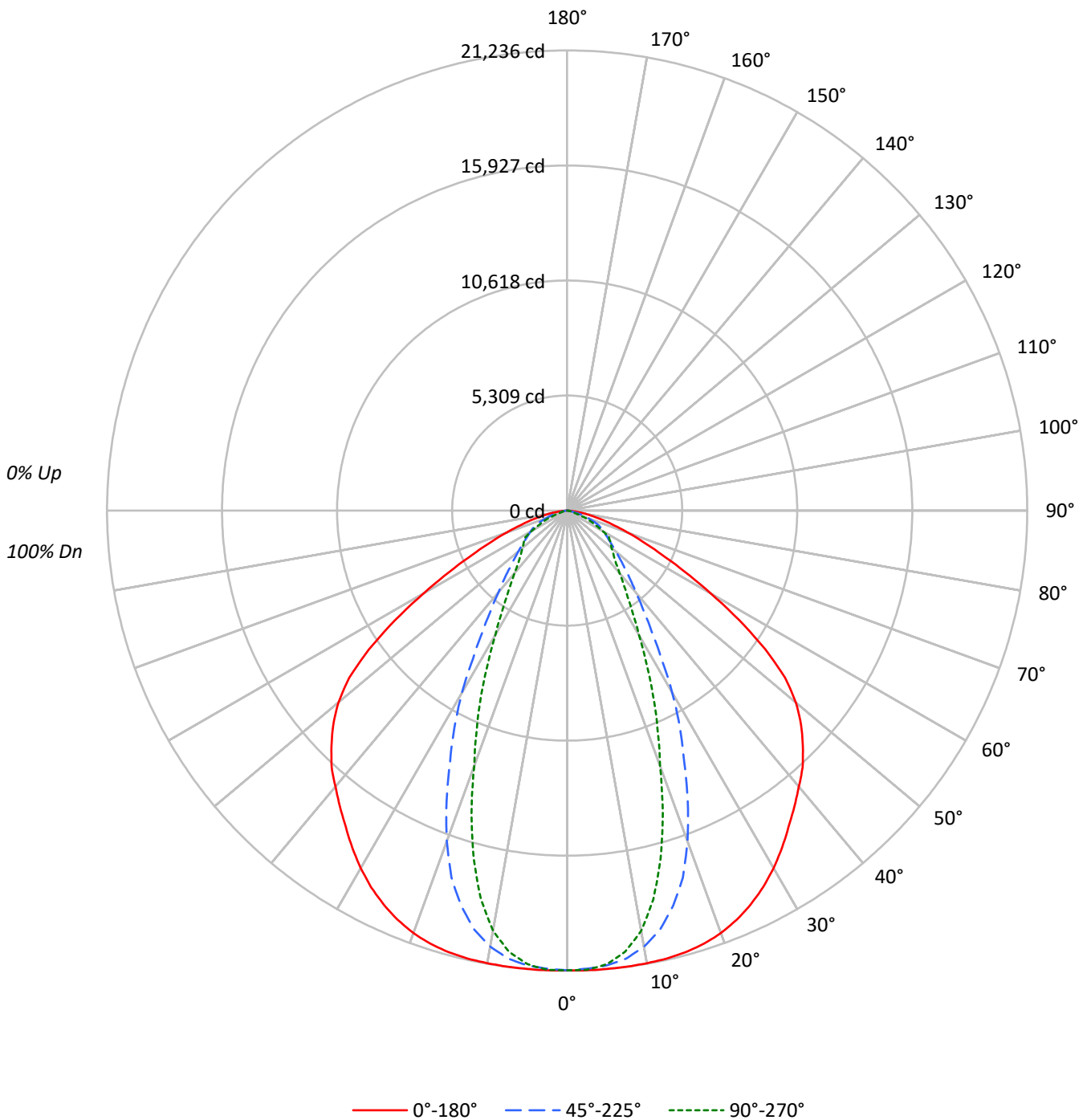
Lumens per Lamp: N/A
Luminaire Lumens: 29920.0 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

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°	82418	82418	82418
5°	82805	82177	81939
10°	83675	80601	77658
15°	84869	75941	66959
20°	85783	67090	51842
25°	85955	54784	40170
30°	85473	43510	29731
35°	84497	32242	23119
40°	84364	25038	19081
45°	84542	20604	16949
50°	83342	17821	16166
55°	75659	15885	16335
60°	59483	15181	14883
65°	44181	14715	11201
70°	33884	11779	6838
75°	25793	8401	3772
80°	18940	3908	3047
85°	11848	3356	2710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1993.3	6.7
10°-20°	5247.1	17.5
20°-30°	6336.4	21.2
30°-40°	5665.6	18.9
40°-50°	4436.5	14.8
50°-60°	3352.1	11.2
60°-70°	1990.9	6.7
70°-80°	765.1	2.6
80°-90°	132.9	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°	13576.8	45.4
0°-40°	19242.4	64.3
0°-60°	27031.0	90.3
0°-90°	29920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29920.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21216	21216	21216	21216	21216	
5°	21234	21142	21073	21045	21012	###
15°	21102	20406	18882	17304	16649	5962
25°	20053	17694	12781	10077	9372	9233
35°	17817	12679	6798	5301	4875	11173
45°	15388	6556	3750	3168	3085	11845
55°	11171	3558	2345	2336	2412	9810
65°	4806	1998	1601	1335	1218	4952
75°	1718	960	560	277	251	1881
85°	266	93	75	66	61	354
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21215.6	21215.6	21215.6	21215.6	21215.6
2.5°	21235.6	21165.5	21160.0	21205.1	21211.8
5°	21234.1	21141.5	21072.9	21045.1	21011.8
7.5°	21227.6	21087.4	20855.9	20633.6	20530.5
10°	21211.8	20963.0	20432.6	19927.2	19686.4
12.5°	21177.3	20740.7	19804.1	18875.4	18370.0
15°	21101.9	20406.1	18882.1	17303.7	16648.9
17.5°	20965.5	19944.2	17752.2	15524.4	14681.6
20°	20750.0	19357.0	16228.3	13495.2	12540.0
22.5°	20440.4	18589.8	14549.5	11668.1	10904.9
25°	20052.9	17694.2	12780.8	10076.6	9371.5
27.5°	19592.5	16648.9	11256.6	8595.0	7900.4
30°	19054.1	15427.8	9699.6	7195.3	6627.8
32.5°	18452.1	14142.0	8073.9	6127.7	5660.8
35°	17817.1	12678.9	6798.5	5300.9	4874.9
37.5°	17219.1	11112.4	5757.5	4569.5	4270.3
40°	16635.8	9466.9	4937.2	3991.2	3762.5
42.5°	16085.4	7892.6	4310.1	3507.1	3357.5
45°	15388.3	6556.5	3750.4	3168.5	3085.1
47.5°	14648.6	5533.7	3305.9	2893.1	2864.1
50°	13790.0	4713.7	2948.7	2653.8	2674.9
52.5°	12676.1	4065.3	2610.0	2484.4	2546.7
55°	11170.7	3557.5	2345.4	2336.2	2411.8
57.5°	9407.3	3071.8	2136.4	2194.7	2279.4
60°	7655.8	2681.6	1953.9	2038.6	1915.6
62.5°	6115.9	2323.2	1780.7	1625.8	1520.2
65°	4806.3	1997.5	1600.8	1334.9	1218.5
67.5°	3832.6	1694.6	1346.7	1062.3	965.7
70°	2983.2	1424.8	1037.0	797.7	602.0
72.5°	2286.1	1190.7	809.5	453.8	342.7
75°	1718.4	960.5	559.7	276.6	251.3
77.5°	1225.0	713.1	298.9	199.8	185.2
80°	846.6	457.8	174.7	144.2	136.2
82.5°	525.2	221.0	119.1	103.1	96.6
85°	265.8	92.6	75.3	66.1	60.8
87.5°	88.6	45.1	34.3	31.8	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)