

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: P563367

Luminaire Tested: **VHB-36-W-UNV-L735-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364417)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-36-W-UNV-L735-CD
Description: 36000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 70CRI, 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

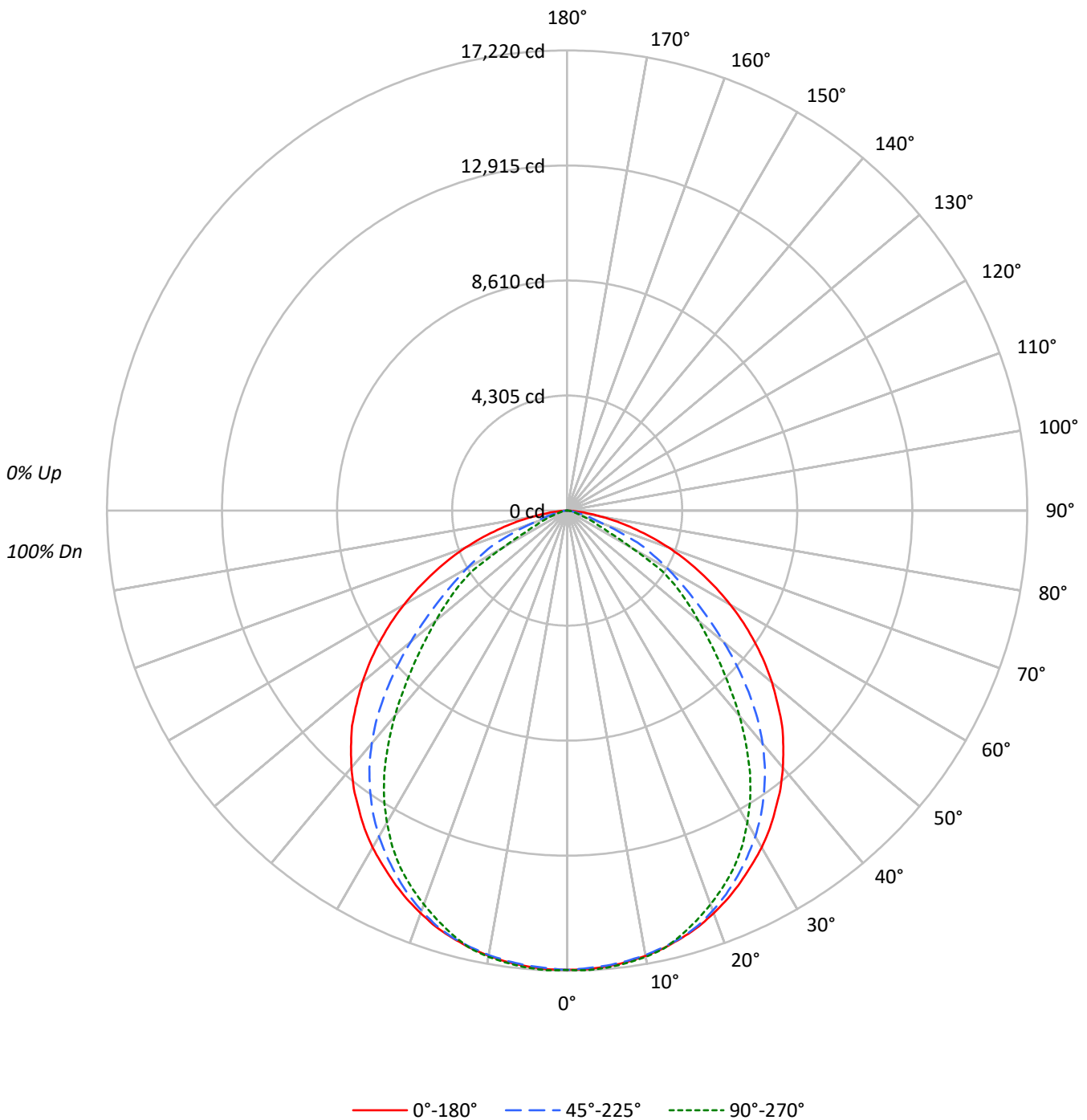
Lumens per Lamp: N/A
Luminaire Lumens: 38661.0 lumens
Efficiency: N/A
Efficacy: 157.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

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	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89					87				
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77					75				
3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67					65				
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59					57				
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52					50				
6	74	62	53	48	72	61	53	47	59	52	47	57	51	47	56	50	46					44				
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41					39				
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37					36				
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34					32				
10	57	44	36	31	55	43	36	31	42	36	31	42	35	31	41	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	66774	66774	66774
5°	66784	66648	66955
10°	66760	66616	66891
15°	66602	66532	66189
20°	66281	65870	64841
25°	65789	64670	63251
30°	65311	63180	60478
35°	64533	60965	56548
40°	63683	57688	50880
45°	62524	52759	44457
50°	60459	46191	38836
55°	57991	39348	33901
60°	54783	33749	21643
65°	50762	28150	11474
70°	45818	15997	7435
75°	38491	9801	4624
80°	29251	4949	4049
85°	17771	4497	3651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1627.3	4.2
10°-20°	4655.8	12.0
20°-30°	6940.2	18.0
30°-40°	7992.8	20.7
40°-50°	7438.5	19.2
50°-60°	5660.2	14.6
60°-70°	3038.3	7.9
70°-80°	1117.8	2.9
80°-90°	190.1	0.5
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°	13223.3	34.2
0°-40°	21216.2	54.9
0°-60°	34314.9	88.8
0°-90°	38661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	38661.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17189	17189	17189	17189	17189	
5°	17126	17077	17091	17150	17169	###
15°	16560	16534	16543	16511	16457	4674
25°	15348	15336	15087	14873	14756	7075
35°	13607	13442	12855	12209	11924	8518
45°	11381	10832	9603	8463	8092	8746
55°	8562	7594	5810	5172	5005	7648
65°	5522	4056	3062	1516	1248	5476
75°	2564	1680	653	338	308	2749
85°	399	129	101	87	82	531
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17188.6	17188.6	17188.6	17188.6	17188.6
2.5°	17176.3	17124.0	17141.6	17197.3	17219.9
5°	17125.8	17077.0	17090.9	17150.3	17169.4
7.5°	17042.3	16995.3	17005.8	17061.5	17080.6
10°	16923.9	16875.2	16887.3	16941.2	16957.0
12.5°	16763.7	16718.5	16728.9	16767.3	16784.6
15°	16560.1	16533.8	16542.7	16511.2	16457.3
17.5°	16332.0	16293.7	16283.2	16144.0	16086.5
20°	16032.6	16018.7	15933.3	15761.0	15684.3
22.5°	15717.4	15691.2	15543.3	15336.1	15243.8
25°	15348.4	15336.1	15087.3	14873.0	14756.3
27.5°	14951.5	14921.8	14601.4	14333.4	14174.8
30°	14559.6	14486.6	14084.4	13708.3	13482.1
32.5°	14115.7	13978.1	13497.6	13017.2	12756.1
35°	13607.4	13442.0	12855.2	12209.3	11923.8
37.5°	13114.7	12865.7	12158.8	11351.1	10985.5
40°	12557.6	12200.6	11375.5	10437.1	10033.1
42.5°	11970.8	11535.5	10541.6	9449.9	9035.5
45°	11380.6	10832.3	9603.1	8462.8	8092.0
47.5°	10679.0	10097.7	8628.3	7520.9	7202.3
50°	10003.6	9324.6	7642.8	6643.6	6425.9
52.5°	9296.8	8473.3	6685.4	5901.9	5691.2
55°	8562.1	7594.0	5809.6	5172.4	5005.3
57.5°	7823.8	6690.6	5033.2	4509.2	4209.7
60°	7051.0	5793.9	4343.7	3664.7	2785.6
62.5°	6290.1	4860.7	3656.0	2298.1	1772.2
65°	5522.3	4056.4	3062.4	1516.4	1248.2
67.5°	4789.4	3278.3	2184.9	1098.5	934.8
70°	4033.8	2681.0	1408.4	786.9	654.6
72.5°	3276.5	2157.0	966.3	517.2	419.5
75°	2564.4	1680.0	653.0	337.8	308.1
77.5°	1922.0	1159.4	363.8	250.6	235.1
80°	1307.5	694.7	221.2	191.5	181.0
82.5°	783.5	332.5	160.2	141.0	135.8
85°	398.7	128.7	100.9	87.0	81.9
87.5°	118.4	64.4	45.2	34.9	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)