

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: P563295

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

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563295
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-L735-CD
Description: 36000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 70CRI, 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

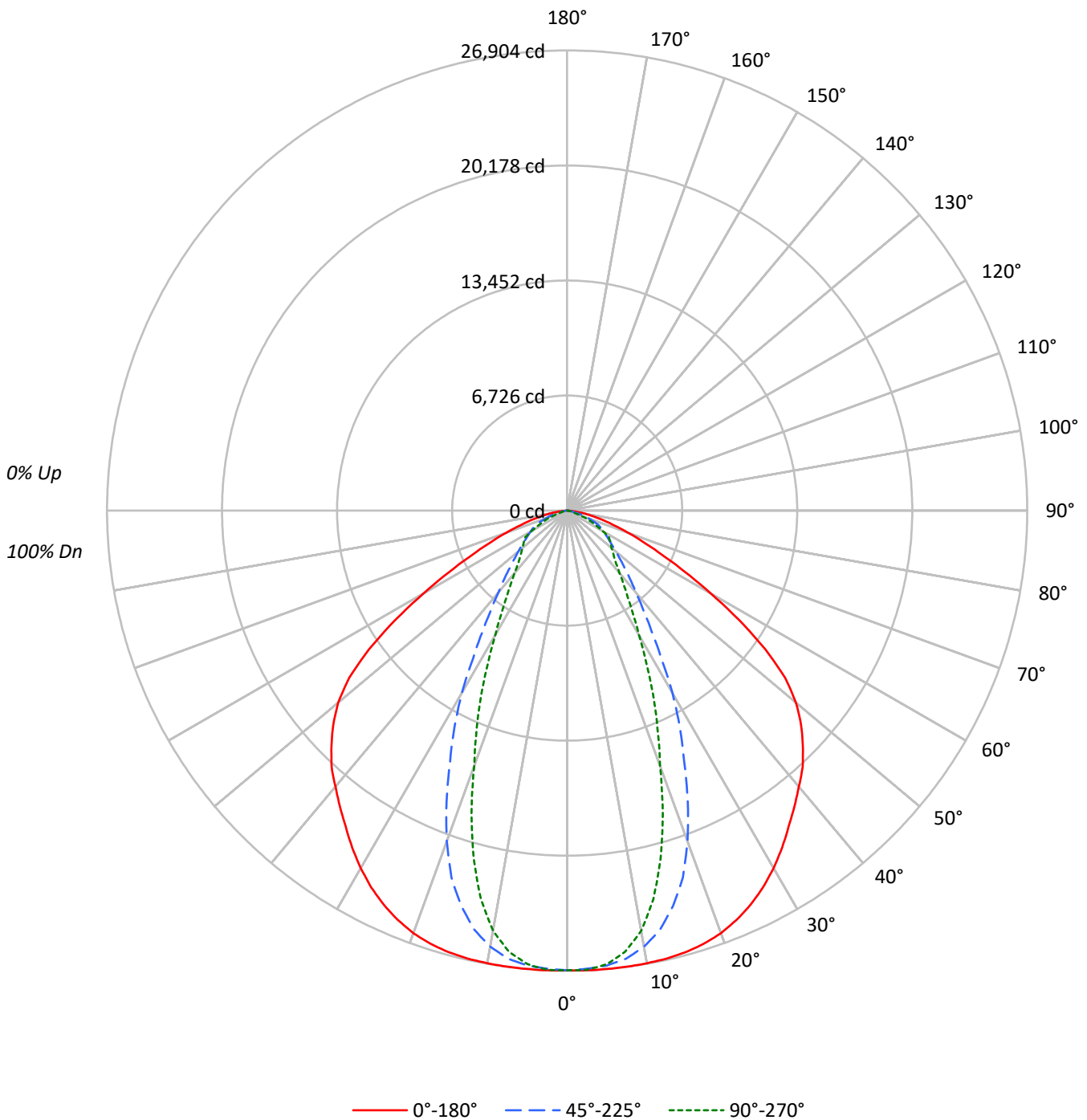
Lumens per Lamp: N/A
Luminaire Lumens: 37907.0 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

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	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°	104420	104420	104420
5°	104910	104113	103812
10°	106012	102117	98388
15°	107524	96213	84834
20°	108682	84999	65680
25°	108900	69408	50893
30°	108289	55125	37668
35°	107053	40848	29290
40°	106885	31721	24174
45°	107110	26105	21474
50°	105590	22578	20481
55°	95855	20126	20695
60°	75361	19234	18857
65°	55974	18643	14191
70°	42930	14924	8663
75°	32678	10643	4779
80°	23994	4953	3859
85°	15012	4257	3437



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2525.4	6.7
10°-20°	6647.8	17.5
20°-30°	8027.9	21.2
30°-40°	7177.9	18.9
40°-50°	5620.8	14.8
50°-60°	4246.9	11.2
60°-70°	2522.4	6.7
70°-80°	969.4	2.6
80°-90°	168.4	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°	17201.1	45.4
0°-40°	24379.0	64.3
0°-60°	34246.8	90.3
0°-90°	37907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	37907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26879	26879	26879	26879	26879	
5°	26902	26785	26698	26663	26621	###
15°	26735	25853	23923	21923	21093	7554
25°	25406	22418	16192	12766	11873	11698
35°	22573	16063	8613	6716	6176	14156
45°	19496	8307	4752	4014	3909	15007
55°	14153	4507	2972	2960	3056	12428
65°	6089	2531	2028	1691	1544	6274
75°	2177	1217	709	350	318	2383
85°	337	117	96	84	77	449
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26879.0	26879.0	26879.0	26879.0	26879.0
2.5°	26904.3	26815.5	26808.6	26865.6	26874.2
5°	26902.4	26785.1	26698.2	26663.0	26620.8
7.5°	26894.2	26716.6	26423.2	26141.6	26011.0
10°	26874.2	26559.0	25887.0	25246.7	24941.6
12.5°	26830.4	26277.4	25090.7	23914.1	23273.8
15°	26735.0	25853.4	23922.6	21922.8	21093.2
17.5°	26562.2	25268.2	22491.1	19668.6	18600.8
20°	26289.1	24524.3	20560.4	17097.6	15887.4
22.5°	25896.8	23552.2	18433.4	14782.9	13815.9
25°	25405.9	22417.5	16192.5	12766.5	11873.2
27.5°	24822.7	21093.2	14261.5	10889.4	10009.4
30°	24140.5	19546.2	12288.9	9116.0	8397.1
32.5°	23377.8	17917.1	10229.1	7763.4	7172.0
35°	22573.2	16063.4	8613.3	6715.9	6176.2
37.5°	21815.6	14078.8	7294.4	5789.3	5410.3
40°	21076.7	11994.0	6255.1	5056.7	4766.8
42.5°	20379.3	9999.5	5460.7	4443.4	4253.7
45°	19496.1	8306.7	4751.6	4014.3	3908.7
47.5°	18559.0	7010.9	4188.4	3665.4	3628.6
50°	17471.2	5971.9	3735.8	3362.2	3388.9
52.5°	16060.0	5150.6	3306.8	3147.5	3226.5
55°	14152.7	4507.1	2971.5	2959.8	3055.6
57.5°	11918.5	3891.9	2706.7	2780.6	2887.8
60°	9699.5	3397.5	2475.5	2582.7	2427.0
62.5°	7748.5	2943.3	2256.1	2059.8	1926.0
65°	6089.3	2530.7	2028.1	1691.3	1543.8
67.5°	4855.6	2147.0	1706.2	1345.9	1223.5
70°	3779.6	1805.1	1313.9	1010.7	762.7
72.5°	2896.4	1508.6	1025.6	575.0	434.2
75°	2177.1	1216.8	709.1	350.4	318.4
77.5°	1552.1	903.5	378.7	253.1	234.7
80°	1072.5	580.0	221.4	182.7	172.5
82.5°	665.3	280.0	151.0	130.7	122.4
85°	336.8	117.3	95.5	83.7	77.1
87.5°	112.3	57.1	43.4	40.3	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)