

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: P563382

Luminaire Tested: **VHB-48-W-UNV-L935-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563382
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-48-W-UNV-L935-CD
Description: 48000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 90CRI, 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

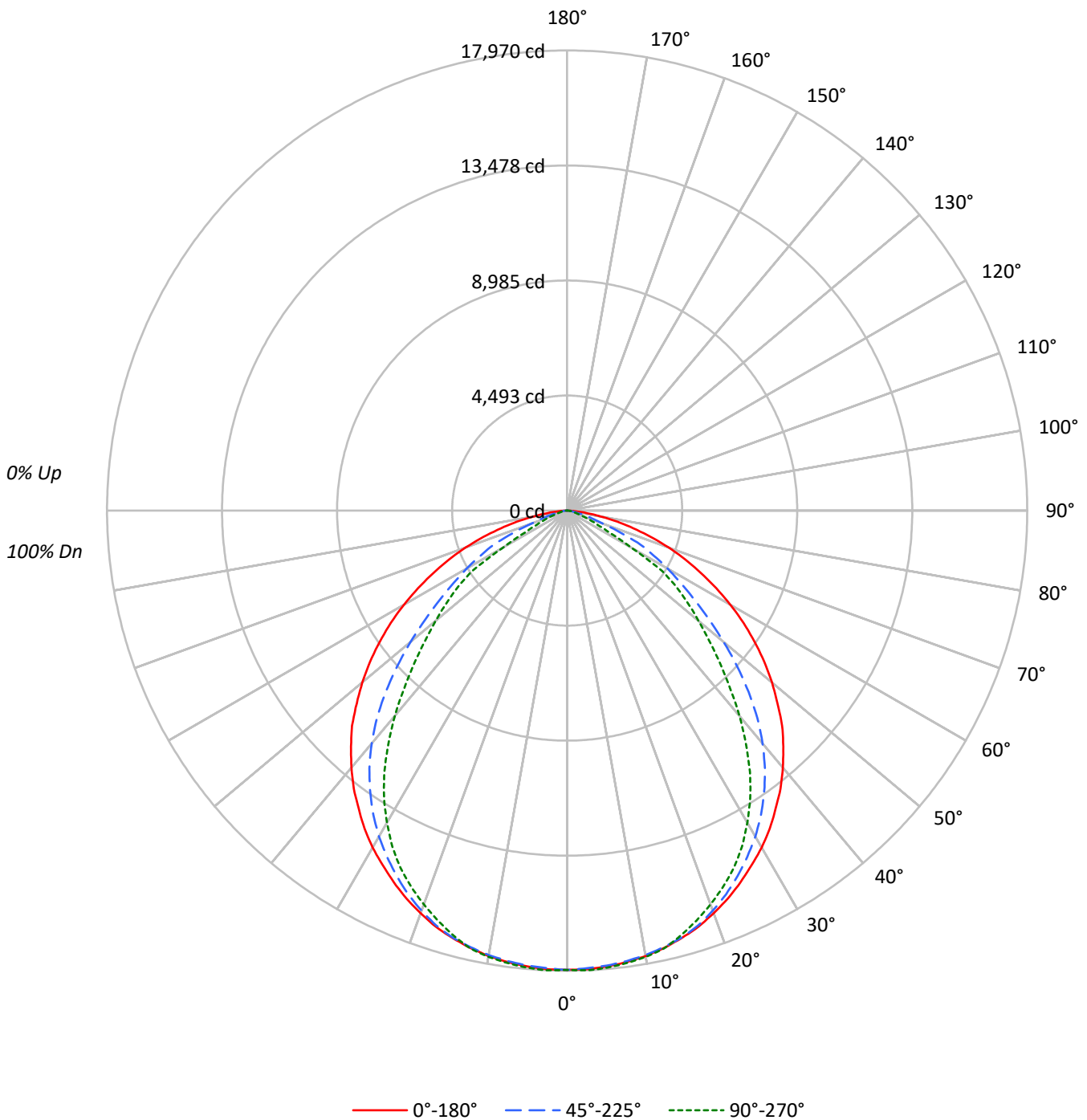
Lumens per Lamp: N/A
Luminaire Lumens: 40346.0 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 324
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°	69684	69684	69684
5°	69696	69553	69873
10°	69670	69520	69806
15°	69505	69432	69074
20°	69170	68741	67667
25°	68657	67489	66009
30°	68158	65933	63114
35°	67345	63623	59012
40°	66458	60202	53098
45°	65249	55058	46394
50°	63094	48204	40528
55°	60518	41063	35378
60°	57171	35220	22586
65°	52975	29377	11974
70°	47814	16695	7759
75°	40169	10228	4826
80°	30526	5163	4226
85°	18547	4694	3811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1698.2	4.2
10°-20°	4858.7	12.0
20°-30°	7242.7	18.0
30°-40°	8341.2	20.7
40°-50°	7762.7	19.2
50°-60°	5906.9	14.6
60°-70°	3170.7	7.9
70°-80°	1166.5	2.9
80°-90°	198.4	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°	13799.7	34.2
0°-40°	22140.8	54.9
0°-60°	35810.4	88.8
0°-90°	40346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	40346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17938	17938	17938	17938	17938	
5°	17872	17821	17836	17898	17918	###
15°	17282	17254	17264	17231	17175	4878
25°	16017	16004	15745	15521	15400	7383
35°	14200	14028	13416	12741	12443	8890
45°	11877	11304	10022	8832	8445	9127
55°	8935	7925	6063	5398	5224	7981
65°	5763	4233	3196	1582	1303	5715
75°	2676	1753	681	352	322	2869
85°	416	134	105	91	86	554
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17937.7	17937.7	17937.7	17937.7	17937.7
2.5°	17924.9	17870.4	17888.7	17946.8	17970.4
5°	17872.3	17821.3	17835.8	17897.7	17917.7
7.5°	17785.1	17736.0	17747.0	17805.1	17825.1
10°	17661.5	17610.7	17623.4	17679.6	17696.0
12.5°	17494.3	17447.1	17458.1	17498.1	17516.2
15°	17281.8	17254.4	17263.7	17230.8	17174.6
17.5°	17043.9	17003.8	16992.9	16847.6	16787.6
20°	16731.4	16716.8	16627.8	16447.9	16367.9
22.5°	16402.5	16375.1	16220.7	16004.5	15908.2
25°	16017.3	16004.5	15744.8	15521.2	15399.5
27.5°	15603.1	15572.2	15237.8	14958.1	14792.6
30°	15194.2	15117.9	14698.3	14305.8	14069.7
32.5°	14730.9	14587.3	14085.9	13584.5	13312.1
35°	14200.5	14027.8	13415.5	12741.4	12443.4
37.5°	13686.3	13426.4	12688.8	11845.8	11464.3
40°	13104.9	12732.4	11871.3	10891.9	10470.4
42.5°	12492.5	12038.3	11001.0	9861.8	9429.3
45°	11876.6	11304.5	10021.6	8831.7	8444.6
47.5°	11144.4	10537.8	9004.4	7848.7	7516.2
50°	10439.6	9731.0	7975.9	6933.1	6705.9
52.5°	9702.0	8842.6	6976.7	6159.1	5939.2
55°	8935.3	7925.0	6062.8	5397.9	5223.5
57.5°	8164.8	6982.2	5252.6	4705.7	4393.2
60°	7358.3	6046.4	4533.0	3824.4	2907.0
62.5°	6564.2	5072.5	3815.4	2398.2	1849.5
65°	5763.0	4233.2	3195.9	1582.5	1302.6
67.5°	4998.2	3421.2	2280.1	1146.4	975.6
70°	4209.6	2797.9	1469.8	821.2	683.1
72.5°	3419.3	2251.0	1008.4	539.7	437.8
75°	2676.2	1753.2	681.4	352.5	321.5
77.5°	2005.7	1210.0	379.7	261.5	245.3
80°	1364.5	725.0	230.8	199.8	188.9
82.5°	817.7	347.0	167.2	147.2	141.7
85°	416.1	134.3	105.3	90.8	85.5
87.5°	123.6	67.2	47.2	36.4	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)