

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: P563384

Luminaire Tested: **VHB-48-W-UNV-L950-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563384
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-L950-CD
Description: 48000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 90CRI, 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

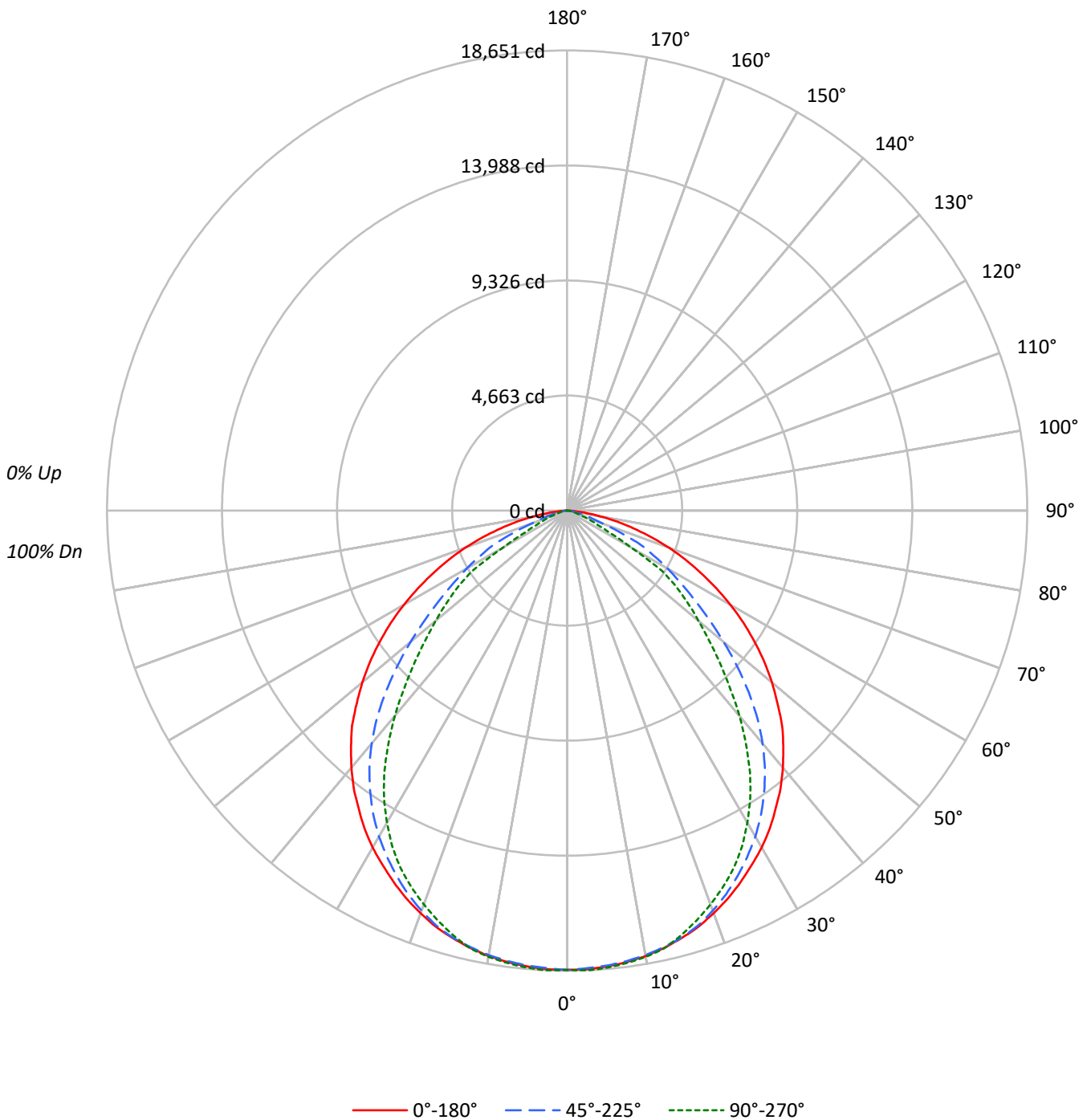
Lumens per Lamp: N/A
Luminaire Lumens: 41875.0 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	72325	72325	72325
5°	72337	72189	72521
10°	72310	72154	72451
15°	72139	72063	71691
20°	71791	71346	70231
25°	71258	70046	68510
30°	70741	68432	65505
35°	69897	66034	61249
40°	68977	62484	55110
45°	67722	57145	48153
50°	65485	50031	42065
55°	62812	42619	36720
60°	59338	36554	23442
65°	54982	30491	12428
70°	49626	17327	8053
75°	41691	10615	5009
80°	31683	5358	4385
85°	19251	4872	3954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1762.6	4.2
10°-20°	5042.8	12.0
20°-30°	7517.2	18.0
30°-40°	8657.3	20.7
40°-50°	8056.9	19.2
50°-60°	6130.7	14.6
60°-70°	3290.9	7.9
70°-80°	1210.7	2.9
80°-90°	205.9	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°	14322.6	34.2
0°-40°	22979.9	54.9
0°-60°	37167.5	88.8
0°-90°	41875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	41875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18618	18618	18618	18618	18618	
5°	18550	18497	18512	18576	18597	###
15°	17937	17908	17918	17884	17826	5063
25°	16624	16611	16342	16109	15983	7663
35°	14739	14559	13924	13224	12915	9227
45°	12327	11733	10401	9166	8765	9473
55°	9274	8225	6293	5602	5422	8283
65°	5981	4394	3317	1642	1352	5931
75°	2778	1820	707	366	334	2977
85°	432	139	109	94	89	575
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18617.5	18617.5	18617.5	18617.5	18617.5
2.5°	18604.2	18547.6	18566.6	18626.9	18651.4
5°	18549.6	18496.7	18511.8	18576.0	18596.8
7.5°	18459.1	18408.2	18419.5	18479.8	18500.6
10°	18330.8	18278.1	18291.2	18349.6	18366.6
12.5°	18157.3	18108.3	18119.7	18161.2	18180.0
15°	17936.7	17908.3	17917.9	17883.8	17825.5
17.5°	17689.8	17648.2	17636.9	17486.1	17423.8
20°	17365.4	17350.4	17257.9	17071.3	16988.2
22.5°	17024.1	16995.6	16835.4	16611.0	16511.1
25°	16624.3	16611.0	16341.5	16109.4	15983.1
27.5°	16194.4	16162.3	15815.2	15525.0	15353.2
30°	15770.0	15690.9	15255.3	14847.9	14602.9
32.5°	15289.2	15140.1	14619.7	14099.4	13816.6
35°	14738.6	14559.4	13923.9	13224.3	12915.0
37.5°	14204.9	13935.2	13169.6	12294.8	11898.7
40°	13601.5	13214.9	12321.2	11304.7	10867.2
42.5°	12965.9	12494.5	11417.9	10235.5	9786.6
45°	12326.7	11732.9	10401.4	9166.4	8764.7
47.5°	11566.8	10937.1	9345.6	8146.2	7801.1
50°	10835.3	10099.8	8278.2	7195.9	6960.1
52.5°	10069.7	9177.7	7241.1	6392.5	6164.3
55°	9273.9	8225.3	6292.6	5602.4	5421.5
57.5°	8474.2	7246.8	5451.6	4884.0	4559.7
60°	7637.2	6275.6	4704.8	3969.4	3017.1
62.5°	6813.0	5264.8	3960.0	2489.1	1919.6
65°	5981.4	4393.6	3317.0	1642.4	1352.0
67.5°	5187.6	3550.8	2366.5	1189.8	1012.6
70°	4369.1	2903.9	1525.5	852.4	709.0
72.5°	3548.9	2336.3	1046.7	560.2	454.4
75°	2777.6	1819.7	707.2	365.9	333.7
77.5°	2081.7	1255.8	394.1	271.4	254.6
80°	1416.2	752.5	239.5	207.4	196.0
82.5°	848.6	360.2	173.5	152.8	147.1
85°	431.9	139.4	109.3	94.2	88.7
87.5°	128.3	69.7	49.0	37.8	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)