

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: P563376

Luminaire Tested: **VHB-48-W-UNV-L735-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563376
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-L735-CD
Description: 48000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 70CRI, 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

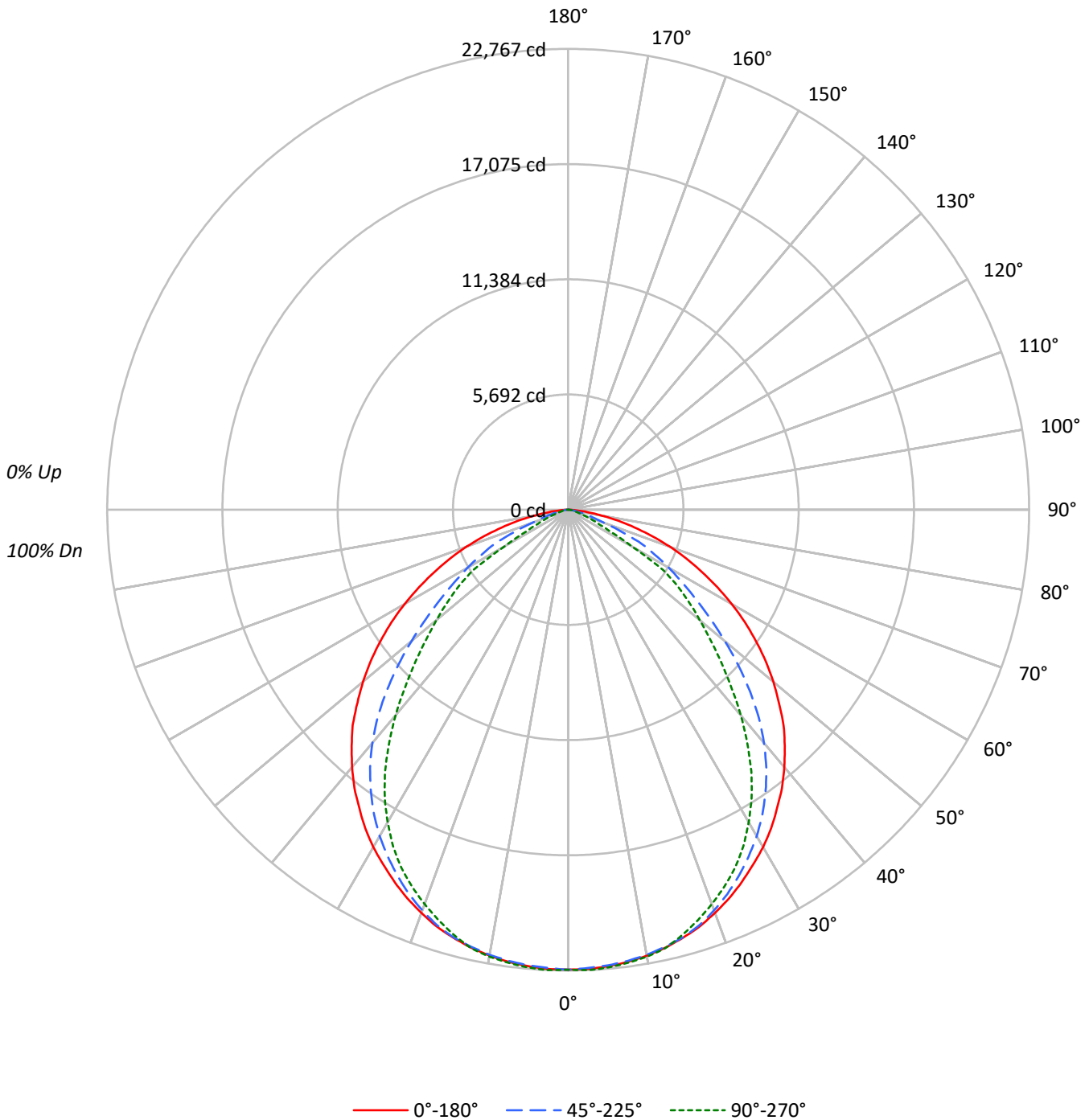
Lumens per Lamp: N/A
Luminaire Lumens: 51116.0 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

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°	88286	88286	88286
5°	88300	88120	88525
10°	88267	88077	88440
15°	88058	87966	87512
20°	87634	87091	85730
25°	86984	85504	83629
30°	86352	83533	79961
35°	85323	80606	74765
40°	84198	76273	67272
45°	82667	69755	58779
50°	79936	61071	51347
55°	76673	52025	44823
60°	72432	44622	28615
65°	67116	37219	15170
70°	60578	21152	9830
75°	50892	12958	6115
80°	38676	6541	5354
85°	23499	5946	4827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2151.6	4.2
10°-20°	6155.7	12.0
20°-30°	9176.1	18.0
30°-40°	10567.8	20.7
40°-50°	9834.9	19.2
50°-60°	7483.7	14.6
60°-70°	4017.1	7.9
70°-80°	1477.9	2.9
80°-90°	251.3	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°	17483.3	34.2
0°-40°	28051.1	54.9
0°-60°	45369.7	88.8
0°-90°	51116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	51116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22726	22726	22726	22726	22726	
5°	22643	22578	22597	22675	22701	###
15°	21895	21860	21872	21830	21759	6180
25°	20293	20277	19948	19664	19510	9354
35°	17991	17772	16997	16143	15765	11263
45°	15047	14322	12697	11189	10699	11563
55°	11320	10040	7681	6839	6618	10111
65°	7301	5363	4049	2005	1650	7240
75°	3391	2221	863	447	407	3634
85°	527	170	133	115	108	702
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22726.1	22726.1	22726.1	22726.1	22726.1
2.5°	22709.8	22640.7	22663.9	22737.5	22767.4
5°	22643.1	22578.5	22596.9	22675.4	22700.7
7.5°	22532.6	22470.5	22484.4	22558.0	22583.3
10°	22376.0	22311.7	22327.8	22399.0	22419.8
12.5°	22164.2	22104.5	22118.3	22169.0	22192.0
15°	21895.0	21860.3	21872.1	21830.5	21759.2
17.5°	21593.6	21542.9	21529.0	21344.9	21268.9
20°	21197.7	21179.2	21066.4	20838.6	20737.2
22.5°	20780.9	20746.3	20550.7	20276.7	20154.8
25°	20293.0	20276.7	19947.8	19664.4	19510.2
27.5°	19768.2	19729.0	19305.3	18951.1	18741.4
30°	19250.1	19153.5	18621.8	18124.6	17825.5
32.5°	18663.2	18481.3	17846.0	17210.8	16865.6
35°	17991.2	17772.4	16996.6	16142.6	15765.1
37.5°	17339.7	17010.5	16075.9	15008.0	14524.6
40°	16603.1	16131.1	15040.3	13799.4	13265.3
42.5°	15827.3	15251.8	13937.6	12494.3	11946.4
45°	15046.9	14322.1	12696.8	11189.2	10698.9
47.5°	14119.3	13350.7	11408.0	9943.9	9522.6
50°	13226.4	12328.7	10105.0	8783.9	8496.0
52.5°	12291.8	11203.1	8839.1	7803.2	7524.7
55°	11320.5	10040.4	7681.3	6838.8	6617.9
57.5°	10344.3	8846.1	6654.7	5961.8	5565.9
60°	9322.5	7660.5	5743.1	4845.3	3683.0
62.5°	8316.5	6426.6	4833.9	3038.4	2343.2
65°	7301.4	5363.2	4049.0	2004.9	1650.3
67.5°	6332.4	4334.5	2888.7	1452.4	1236.0
70°	5333.3	3544.8	1862.2	1040.5	865.4
72.5°	4332.1	2851.9	1277.6	683.8	554.6
75°	3390.6	2221.3	863.3	446.6	407.4
77.5°	2541.1	1532.9	481.0	331.3	310.8
80°	1728.8	918.5	292.4	253.2	239.3
82.5°	1035.9	439.7	211.8	186.5	179.5
85°	527.2	170.2	133.4	115.0	108.3
87.5°	156.6	85.1	59.8	46.2	43.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)