

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: P563379

Luminaire Tested: **VHB-48-W-UNV-L835-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563379
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-L835-CD
Description: 48000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 80CRI, 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

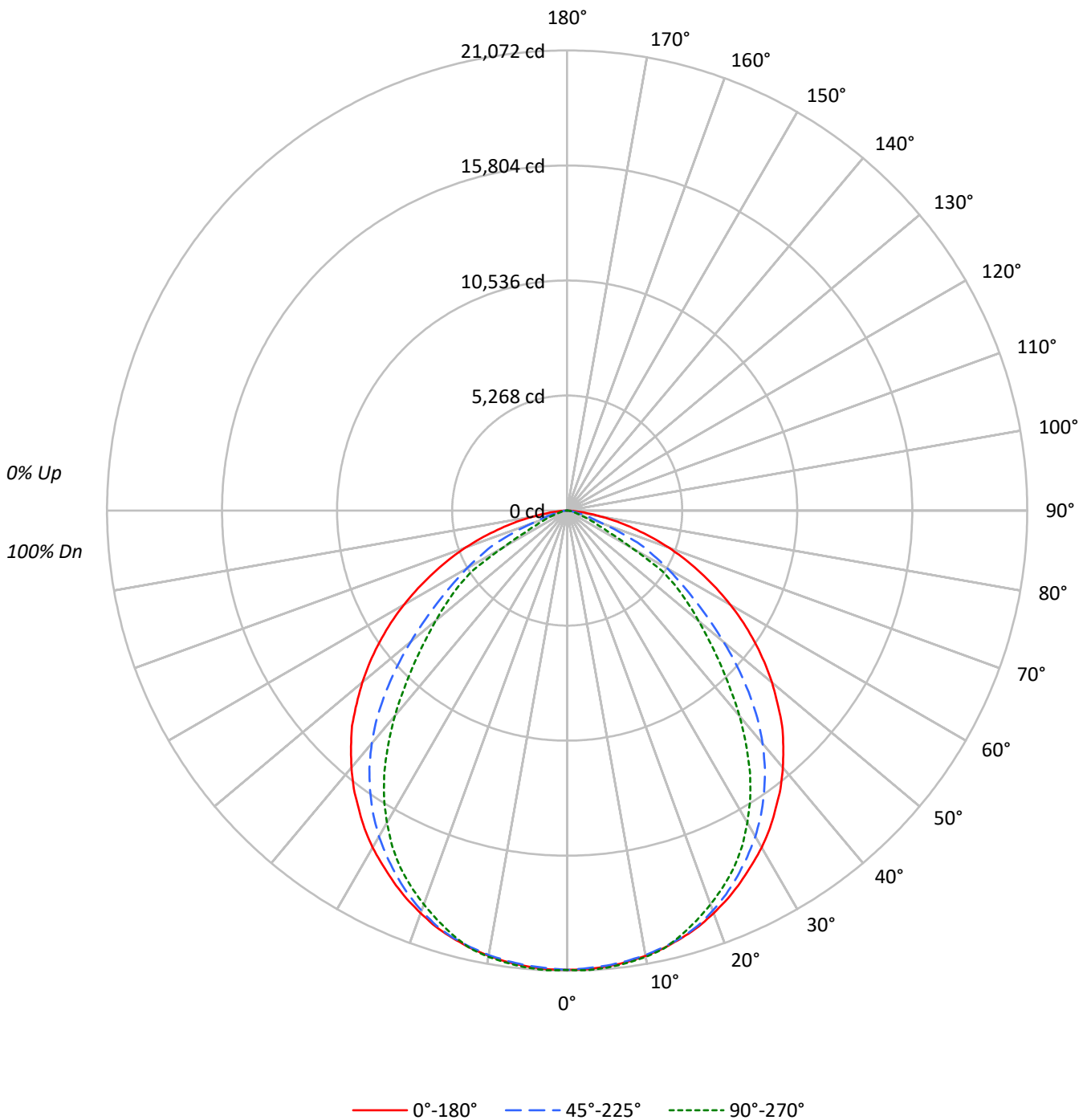
Lumens per Lamp: N/A
Luminaire Lumens: 47309.0 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

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°	81711	81711	81711
5°	81724	81557	81931
10°	81693	81517	81853
15°	81500	81415	80995
20°	81107	80605	79345
25°	80506	79136	77400
30°	79921	77312	74006
35°	78968	74602	69197
40°	77927	70592	62262
45°	76510	64560	54401
50°	73983	56523	47523
55°	70963	48150	41484
60°	67038	41298	26484
65°	62117	34447	14040
70°	56066	19576	9098
75°	47101	11993	5659
80°	35795	6054	4955
85°	21747	5505	4466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1991.3	4.2
10°-20°	5697.2	12.0
20°-30°	8492.7	18.0
30°-40°	9780.7	20.7
40°-50°	9102.4	19.2
50°-60°	6926.3	14.6
60°-70°	3717.9	7.9
70°-80°	1367.8	2.9
80°-90°	232.6	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°	16181.2	34.2
0°-40°	25961.9	54.9
0°-60°	41990.7	88.8
0°-90°	47309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21034	21034	21034	21034	21034	
5°	20957	20897	20914	20987	21010	###
15°	20264	20232	20243	20205	20139	5720
25°	18782	18767	18462	18200	18057	8657
35°	16651	16449	15731	14940	14591	10424
45°	13926	13255	11751	10356	9902	10702
55°	10477	9293	7109	6329	6125	9358
65°	6758	4964	3747	1856	1527	6701
75°	3138	2056	799	413	377	3364
85°	488	158	124	106	100	650
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21033.5	21033.5	21033.5	21033.5	21033.5
2.5°	21018.4	20954.5	20975.9	21044.1	21071.8
5°	20956.7	20896.9	20914.0	20986.6	21010.0
7.5°	20854.5	20796.9	20809.8	20877.9	20901.4
10°	20709.5	20650.0	20664.8	20730.8	20750.0
12.5°	20513.5	20458.2	20471.0	20517.9	20539.2
15°	20264.3	20232.2	20243.1	20204.6	20138.7
17.5°	19985.3	19938.4	19925.6	19755.2	19684.8
20°	19618.9	19601.9	19497.4	19286.6	19192.7
22.5°	19233.2	19201.1	19020.1	18766.6	18653.7
25°	18781.6	18766.6	18462.1	18199.9	18057.2
27.5°	18295.9	18259.6	17867.5	17539.6	17345.6
30°	17816.4	17727.0	17234.9	16774.7	16497.9
32.5°	17273.2	17104.8	16516.9	15929.0	15609.5
35°	16651.2	16448.8	15730.7	14940.4	14591.0
37.5°	16048.3	15743.6	14878.6	13890.2	13442.8
40°	15366.5	14929.7	13920.1	12771.7	12277.4
42.5°	14648.5	14115.9	12899.6	11563.8	11056.6
45°	13926.3	13255.4	11751.2	10355.9	9902.0
47.5°	13067.7	12356.4	10558.3	9203.3	8813.4
50°	12241.3	11410.5	9352.4	8129.7	7863.3
52.5°	11376.4	10368.7	8180.8	7222.0	6964.2
55°	10477.4	9292.7	7109.2	6329.4	6125.0
57.5°	9573.9	8187.2	6159.1	5517.8	5151.4
60°	8628.2	7089.9	5315.3	4484.5	3408.7
62.5°	7697.1	5947.9	4473.9	2812.1	2168.7
65°	6757.6	4963.7	3747.4	1855.6	1527.4
67.5°	5860.8	4011.6	2673.6	1344.2	1144.0
70°	4936.1	3280.8	1723.5	963.0	801.0
72.5°	4009.4	2639.5	1182.5	632.8	513.3
75°	3138.0	2055.8	799.0	413.3	377.0
77.5°	2351.9	1418.8	445.2	306.7	287.7
80°	1600.0	850.1	270.6	234.3	221.5
82.5°	958.8	406.9	196.1	172.6	166.2
85°	487.9	157.5	123.5	106.4	100.2
87.5°	144.9	78.8	55.3	42.7	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)