

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: P563327

Luminaire Tested: **VHB-12-W-UNV-L850-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563327
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-12-W-UNV-L850-CD
Description: 12000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 80CRI, 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

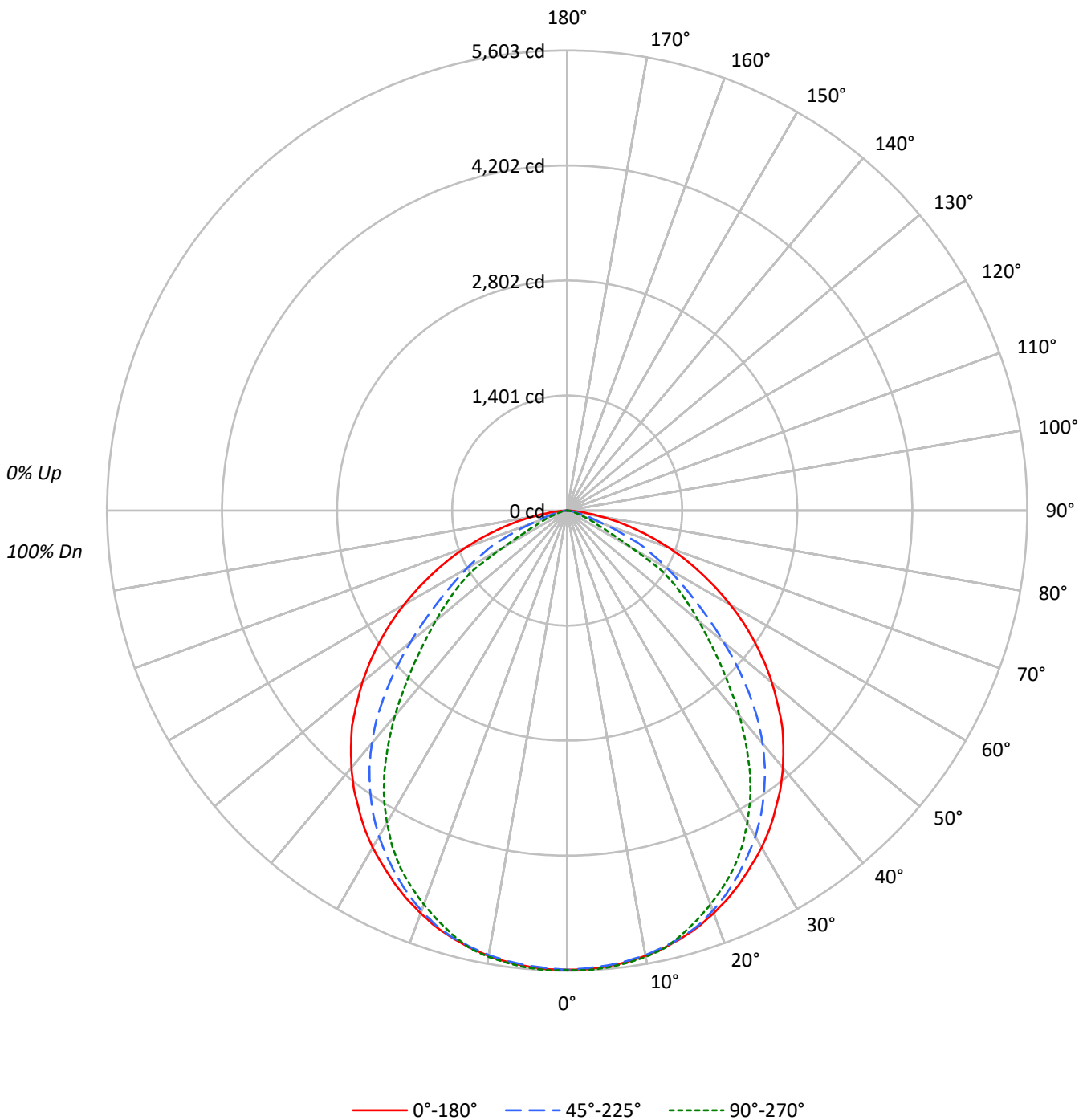
Lumens per Lamp: N/A
Luminaire Lumens: 12579.0 lumens
Efficiency: N/A
Efficacy: 157.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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°	32589	32589	32589
5°	32594	32528	32677
10°	32582	32512	32646
15°	32505	32471	32304
20°	32348	32148	31646
25°	32108	31562	30870
30°	31875	30835	29516
35°	31495	29754	27598
40°	31080	28154	24832
45°	30515	25749	21697
50°	29506	22543	18954
55°	28302	19204	16546
60°	26737	16471	10562
65°	24775	13739	5599
70°	22362	7808	3629
75°	18786	4784	2258
80°	14275	2416	1977
85°	8672	2193	1785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.5	4.2
10°-20°	1514.8	12.0
20°-30°	2258.1	18.0
30°-40°	2600.6	20.7
40°-50°	2420.2	19.2
50°-60°	1841.6	14.6
60°-70°	988.6	7.9
70°-80°	363.7	2.9
80°-90°	61.8	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°	4302.4	34.2
0°-40°	6903.0	54.9
0°-60°	11164.9	88.8
0°-90°	12579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12579.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5593	5593	5593	5593	5593	
5°	5572	5556	5561	5580	5586	530
15°	5388	5380	5382	5372	5355	1521
25°	4994	4990	4909	4839	4801	2302
35°	4427	4374	4183	3972	3880	2772
45°	3703	3524	3124	2754	2633	2846
55°	2786	2471	1890	1683	1629	2488
65°	1797	1320	996	493	406	1782
75°	834	547	212	110	100	894
85°	130	42	33	28	27	173
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5592.6	5592.6	5592.6	5592.6	5592.6
2.5°	5588.6	5571.6	5577.3	5595.4	5602.8
5°	5572.2	5556.3	5560.8	5580.1	5586.4
7.5°	5545.0	5529.7	5533.1	5551.2	5557.5
10°	5506.5	5490.6	5494.6	5512.1	5517.2
12.5°	5454.3	5439.6	5443.0	5455.5	5461.2
15°	5388.1	5379.6	5382.4	5372.2	5354.7
17.5°	5313.9	5301.4	5298.0	5252.7	5234.0
20°	5216.5	5211.9	5184.2	5128.1	5103.2
22.5°	5113.9	5105.4	5057.3	4989.8	4959.8
25°	4993.8	4989.8	4908.9	4839.2	4801.2
27.5°	4864.7	4855.1	4750.8	4663.6	4612.0
30°	4737.2	4713.4	4582.6	4460.2	4386.6
32.5°	4592.8	4548.0	4391.7	4235.4	4150.4
35°	4427.4	4373.6	4182.6	3972.5	3879.6
37.5°	4267.1	4186.1	3956.1	3693.3	3574.3
40°	4085.8	3969.7	3701.2	3395.9	3264.4
42.5°	3894.9	3753.3	3429.9	3074.7	2939.8
45°	3702.9	3524.5	3124.5	2753.5	2632.9
47.5°	3474.6	3285.4	2807.4	2447.1	2343.4
50°	3254.8	3033.9	2486.7	2161.6	2090.8
52.5°	3024.9	2756.9	2175.2	1920.3	1851.7
55°	2785.8	2470.8	1890.3	1682.9	1628.6
57.5°	2545.6	2176.9	1637.6	1467.1	1369.7
60°	2294.2	1885.1	1413.3	1192.4	906.3
62.5°	2046.6	1581.5	1189.6	747.7	576.6
65°	1796.8	1319.8	996.4	493.4	406.1
67.5°	1558.3	1066.7	710.9	357.4	304.2
70°	1312.5	872.3	458.3	256.0	213.0
72.5°	1066.1	701.8	314.4	168.3	136.5
75°	834.4	546.6	212.5	109.9	100.3
77.5°	625.3	377.2	118.4	81.5	76.5
80°	425.4	226.0	72.0	62.3	58.9
82.5°	254.9	108.2	52.1	45.9	44.2
85°	129.7	41.9	32.8	28.3	26.7
87.5°	38.5	20.9	14.7	11.4	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)