

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: P563350

Luminaire Tested: **VHB-24-W-UNV-L740-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563350
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-24-W-UNV-L740-CD
Description: 24000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 70CRI, 4000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

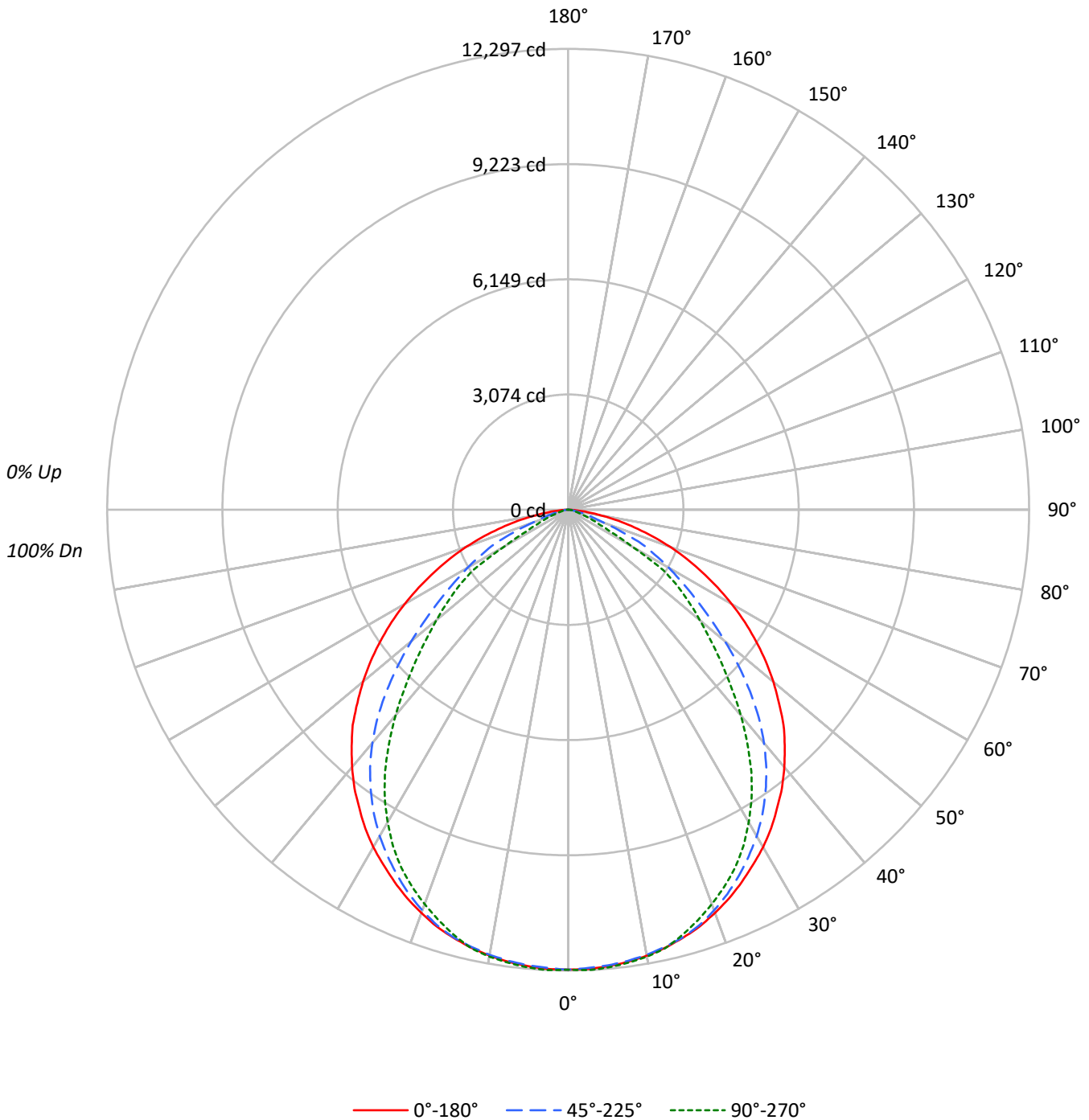
Lumens per Lamp: N/A
Luminaire Lumens: 27609.0 lumens
Efficiency: N/A
Efficacy: 167.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 165
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°	71528	71528	71528
5°	71539	71394	71721
10°	71513	71359	71653
15°	71343	71268	70901
20°	71000	70560	69457
25°	70473	69274	67755
30°	69961	67678	64784
35°	69127	65306	60574
40°	68216	61795	54502
45°	66975	56515	47622
50°	64763	49479	41601
55°	62120	42149	36315
60°	58683	36152	23184
65°	54376	30155	12291
70°	49078	17136	7965
75°	41231	10499	4953
80°	31333	5299	4339
85°	19035	4814	3911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1162.1	4.2
10°-20°	3324.8	12.0
20°-30°	4956.2	18.0
30°-40°	5707.9	20.7
40°-50°	5312.1	19.2
50°-60°	4042.1	14.6
60°-70°	2169.7	7.9
70°-80°	798.2	2.9
80°-90°	135.7	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°	9443.2	34.2
0°-40°	15151.1	54.9
0°-60°	24505.3	88.8
0°-90°	27609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27609.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12275	12275	12275	12275	12275	
5°	12230	12195	12205	12248	12261	###
15°	11826	11807	11814	11791	11753	3338
25°	10961	10952	10774	10621	10538	5052
35°	9718	9599	9180	8719	8515	6083
45°	8127	7736	6858	6044	5779	6246
55°	6114	5423	4149	3694	3574	5461
65°	3944	2897	2187	1083	891	3911
75°	1831	1200	466	241	220	1963
85°	285	92	72	62	58	379
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12274.9	12274.9	12274.9	12274.9	12274.9
2.5°	12266.1	12228.8	12241.3	12281.1	12297.2
5°	12230.1	12195.2	12205.2	12247.5	12261.2
7.5°	12170.4	12136.9	12144.4	12184.1	12197.8
10°	12085.8	12051.1	12059.8	12098.2	12109.5
12.5°	11971.4	11939.2	11946.6	11974.0	11986.4
15°	11826.0	11807.3	11813.6	11791.2	11752.7
17.5°	11663.2	11635.8	11628.3	11528.9	11487.8
20°	11449.4	11439.4	11378.5	11255.4	11200.7
22.5°	11224.3	11205.6	11099.9	10951.9	10886.1
25°	10960.7	10951.9	10774.3	10621.2	10538.0
27.5°	10677.3	10656.1	10427.3	10235.9	10122.7
30°	10397.5	10345.3	10058.1	9789.5	9628.0
32.5°	10080.4	9982.2	9639.1	9296.0	9109.5
35°	9717.5	9599.3	9180.3	8719.0	8515.1
37.5°	9365.6	9187.8	8683.0	8106.2	7845.1
40°	8967.7	8712.8	8123.6	7453.4	7164.9
42.5°	8548.7	8237.9	7528.1	6748.5	6452.5
45°	8127.2	7735.7	6857.9	6043.6	5778.7
47.5°	7626.2	7211.0	6161.7	5370.9	5143.4
50°	7143.9	6659.0	5458.0	4744.4	4588.9
52.5°	6639.1	6051.1	4774.2	4214.7	4064.3
55°	6114.5	5423.1	4148.8	3693.8	3574.5
57.5°	5587.2	4778.0	3594.4	3220.1	3006.3
60°	5035.3	4137.6	3102.0	2617.1	1989.3
62.5°	4491.9	3471.2	2610.9	1641.1	1265.6
65°	3943.6	2896.8	2187.0	1082.9	891.4
67.5°	3420.3	2341.1	1560.3	784.5	667.6
70°	2880.6	1914.6	1005.8	562.0	467.5
72.5°	2339.8	1540.4	690.1	369.3	299.6
75°	1831.3	1199.8	466.3	241.2	220.0
77.5°	1372.5	828.0	259.8	179.0	167.9
80°	933.7	496.1	157.9	136.7	129.3
82.5°	559.5	237.5	114.4	100.7	97.0
85°	284.7	91.9	72.0	62.1	58.5
87.5°	84.6	46.0	32.3	24.9	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)