

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: P563344

Luminaire Tested: **VHB-18-W-UNV-L840-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563344
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-18-W-UNV-L840-CD
Description: 18000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 80CRI, 4000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

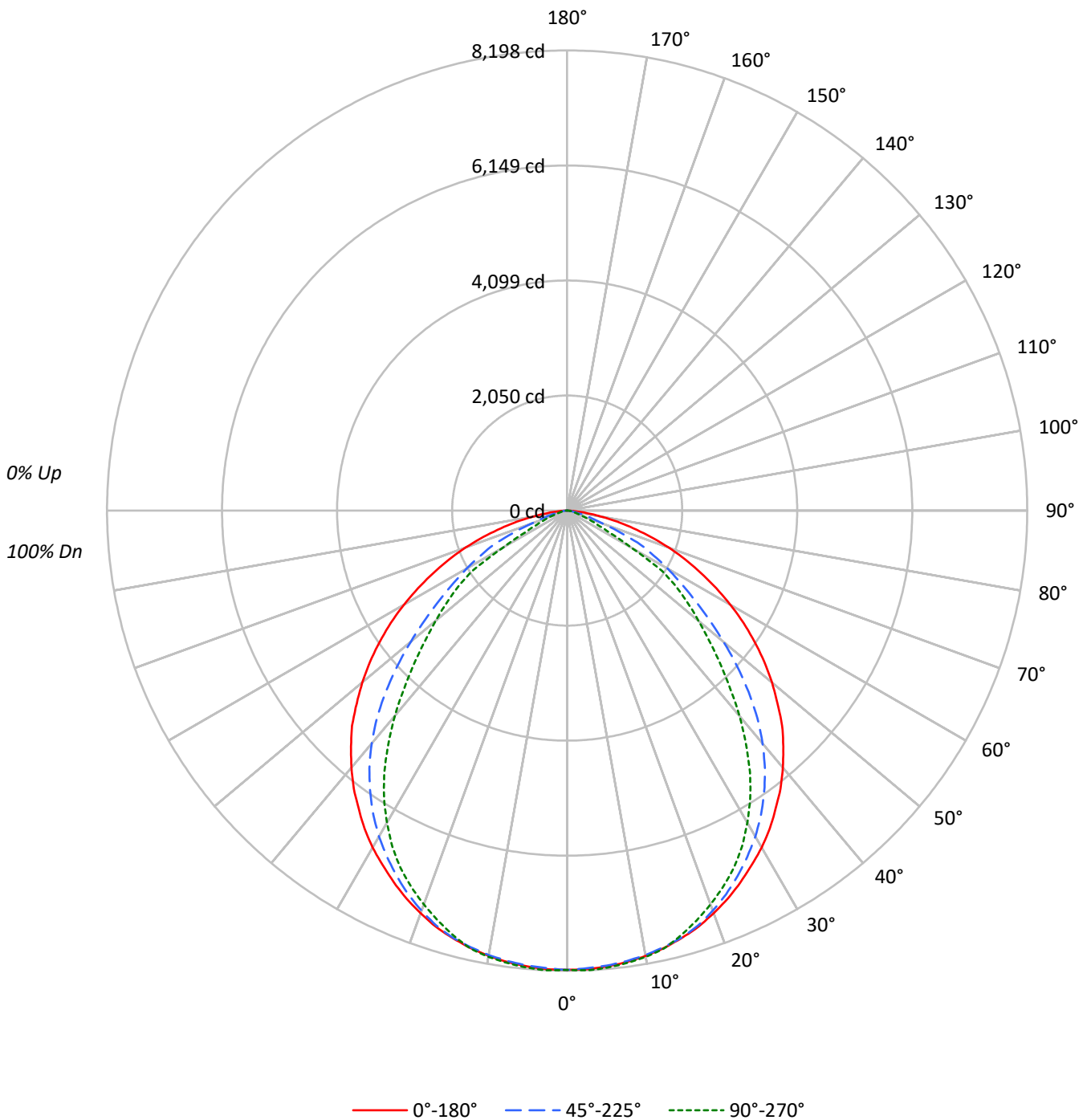
Lumens per Lamp: N/A
Luminaire Lumens: 18406.0 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 125
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°	47686	47686	47686
5°	47693	47596	47814
10°	47675	47572	47769
15°	47562	47513	47267
20°	47333	47040	46305
25°	46982	46183	45170
30°	46640	45118	43189
35°	46085	43537	40382
40°	45478	41196	36335
45°	44650	37677	31748
50°	43175	32986	27734
55°	41413	28100	24210
60°	39123	24101	15456
65°	36251	20103	8194
70°	32719	11424	5309
75°	27488	7000	3303
80°	20890	3534	2893
85°	12690	3209	2608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.7	4.2
10°-20°	2216.6	12.0
20°-30°	3304.2	18.0
30°-40°	3805.3	20.7
40°-50°	3541.4	19.2
50°-60°	2694.7	14.6
60°-70°	1446.5	7.9
70°-80°	532.2	2.9
80°-90°	90.5	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°	6295.5	34.2
0°-40°	10100.7	54.9
0°-60°	16336.8	88.8
0°-90°	18406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8183	8183	8183	8183	8183	
5°	8153	8130	8137	8165	8174	775
15°	7884	7872	7876	7861	7835	2225
25°	7307	7301	7183	7081	7025	3368
35°	6478	6400	6120	5813	5677	4056
45°	5418	5157	4572	4029	3852	4164
55°	4076	3615	2766	2462	2383	3641
65°	2629	1931	1458	722	594	2607
75°	1221	800	311	161	147	1309
85°	190	61	48	41	39	253
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8183.3	8183.3	8183.3	8183.3	8183.3
2.5°	8177.4	8152.5	8160.9	8187.4	8198.2
5°	8153.4	8130.1	8136.8	8165.0	8174.1
7.5°	8113.6	8091.2	8096.2	8122.7	8131.9
10°	8057.2	8034.1	8039.8	8065.5	8073.0
12.5°	7981.0	7959.4	7964.4	7982.7	7990.9
15°	7884.0	7871.5	7875.8	7860.8	7835.1
17.5°	7775.5	7757.2	7752.2	7685.9	7658.6
20°	7632.9	7626.3	7585.7	7503.6	7467.1
22.5°	7482.9	7470.4	7400.0	7301.3	7257.4
25°	7307.2	7301.3	7182.9	7080.8	7025.3
27.5°	7118.2	7104.1	6951.5	6824.0	6748.4
30°	6931.6	6896.9	6705.4	6526.3	6418.7
32.5°	6720.3	6654.8	6426.1	6197.3	6073.0
35°	6478.3	6399.5	6120.2	5812.7	5676.7
37.5°	6243.7	6125.2	5788.7	5404.1	5230.0
40°	5978.5	5808.5	5415.7	4968.9	4776.6
42.5°	5699.1	5491.9	5018.7	4499.0	4301.7
45°	5418.1	5157.1	4571.9	4029.0	3852.5
47.5°	5084.1	4807.4	4107.8	3580.6	3428.9
50°	4762.6	4439.3	3638.6	3162.9	3059.3
52.5°	4426.1	4034.0	3182.8	2809.8	2709.5
55°	4076.3	3615.4	2765.9	2462.5	2383.0
57.5°	3724.8	3185.3	2396.2	2146.8	2004.2
60°	3356.9	2758.4	2068.0	1744.7	1326.2
62.5°	2994.6	2314.1	1740.6	1094.1	843.7
65°	2629.1	1931.2	1458.0	721.9	594.3
67.5°	2280.2	1560.8	1040.2	523.0	445.1
70°	1920.4	1276.4	670.5	374.7	311.6
72.5°	1559.9	1026.9	460.1	246.2	199.7
75°	1220.9	799.8	310.9	160.8	146.7
77.5°	915.0	552.0	173.2	119.3	111.9
80°	622.5	330.8	105.3	91.2	86.2
82.5°	373.0	158.3	76.3	67.1	64.7
85°	189.8	61.3	48.0	41.4	39.0
87.5°	56.4	30.6	21.5	16.6	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)