

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: P563346

Luminaire Tested: **VHB-18-W-UNV-L935-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563346
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-L935-CD
Description: 18000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 90CRI, 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

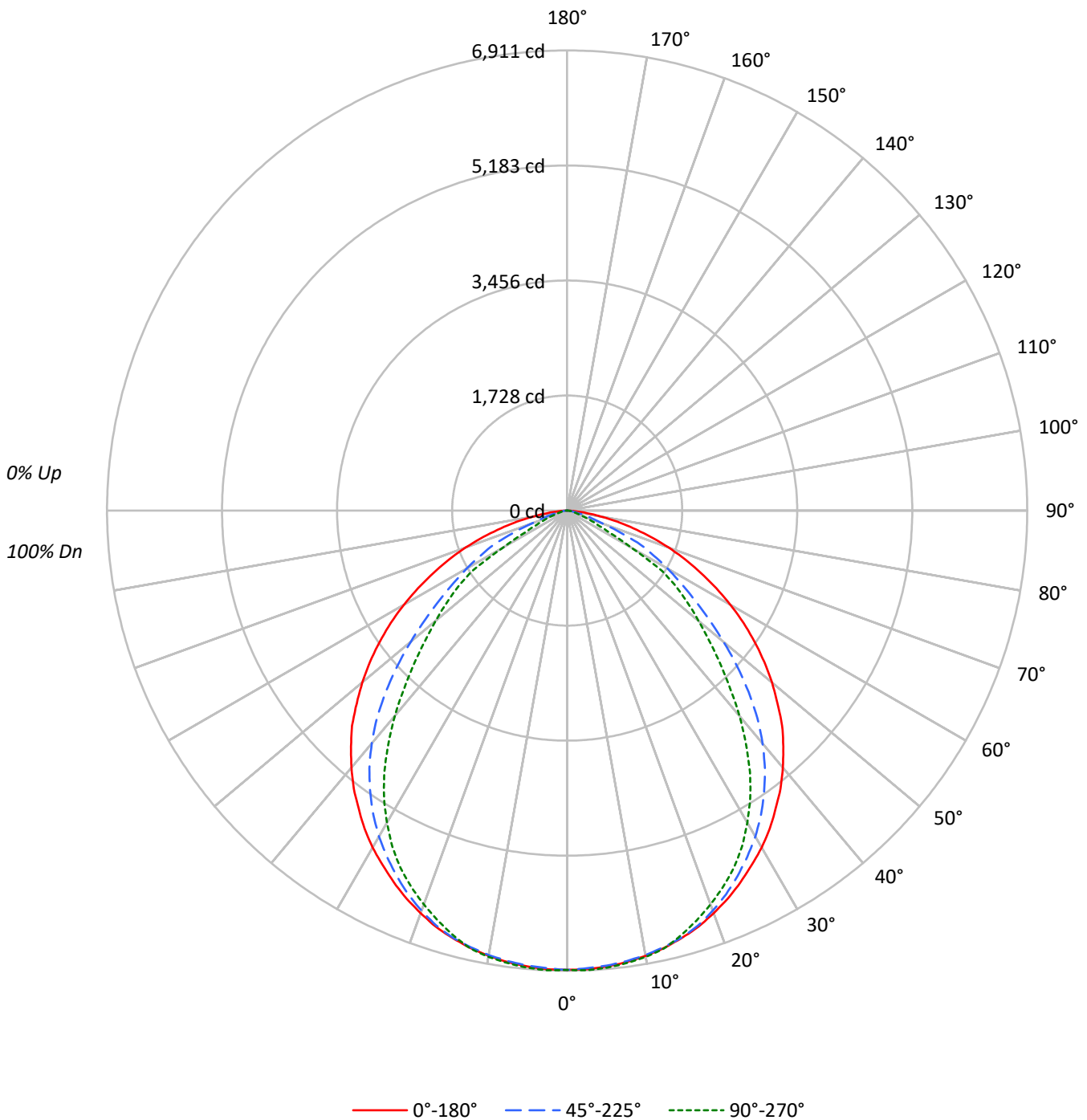
Lumens per Lamp: N/A
Luminaire Lumens: 15516.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P563346

CATALOG NUMBER: VHB-18-W-UNV-L935-CD

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°	40198	40198	40198
5°	40204	40123	40307
10°	40189	40103	40268
15°	40094	40053	39846
20°	39901	39654	39034
25°	39605	38931	38077
30°	39318	38034	36407
35°	38849	36701	34042
40°	38337	34728	30630
45°	37639	31761	26763
50°	36396	27807	23379
55°	34911	23688	20408
60°	32980	20317	13028
65°	30559	16947	6907
70°	27582	9630	4476
75°	23172	5901	2785
80°	17611	2980	2436
85°	10698	2708	2200



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.1	4.2
10°-20°	1868.5	12.0
20°-30°	2785.3	18.0
30°-40°	3207.8	20.7
40°-50°	2985.3	19.2
50°-60°	2271.6	14.6
60°-70°	1219.4	7.9
70°-80°	448.6	2.9
80°-90°	76.3	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°	5307.0	34.2
0°-40°	8514.8	54.9
0°-60°	13771.7	88.8
0°-90°	15516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15516.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6898	6898	6898	6898	6898	
5°	6873	6854	6859	6883	6891	654
15°	6646	6636	6639	6626	6605	1876
25°	6160	6155	6055	5969	5922	2839
35°	5461	5395	5159	4900	4785	3419
45°	4567	4347	3854	3396	3248	3510
55°	3436	3048	2332	2076	2009	3069
65°	2216	1628	1229	609	501	2198
75°	1029	674	262	136	124	1103
85°	160	52	40	35	33	213
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6898.4	6898.4	6898.4	6898.4	6898.4
2.5°	6893.4	6872.5	6879.5	6901.9	6910.9
5°	6873.2	6853.6	6859.2	6883.0	6890.7
7.5°	6839.7	6820.8	6825.0	6847.4	6855.1
10°	6792.1	6772.6	6777.5	6799.1	6805.4
12.5°	6727.8	6709.7	6713.9	6729.3	6736.3
15°	6646.1	6635.6	6639.2	6626.5	6604.9
17.5°	6554.6	6539.2	6535.0	6479.1	6456.1
20°	6434.4	6428.9	6394.6	6325.4	6294.7
22.5°	6307.9	6297.4	6238.1	6154.9	6117.9
25°	6159.8	6154.9	6055.0	5969.0	5922.2
27.5°	6000.5	5988.6	5860.0	5752.5	5688.8
30°	5843.3	5814.0	5652.6	5501.6	5410.8
32.5°	5665.1	5609.9	5417.1	5224.3	5119.5
35°	5461.1	5394.7	5159.2	4900.0	4785.4
37.5°	5263.4	5163.4	4879.8	4555.6	4408.9
40°	5039.8	4896.5	4565.4	4188.8	4026.6
42.5°	4804.3	4629.6	4230.7	3792.6	3626.3
45°	4567.4	4347.4	3854.1	3396.4	3247.6
47.5°	4285.8	4052.5	3462.8	3018.4	2890.5
50°	4014.8	3742.3	3067.3	2666.3	2578.9
52.5°	3731.1	3400.6	2683.1	2368.6	2284.1
55°	3436.3	3047.7	2331.6	2075.9	2008.8
57.5°	3140.0	2685.2	2020.0	1809.7	1689.5
60°	2829.8	2325.3	1743.3	1470.8	1117.9
62.5°	2524.4	1950.8	1467.3	922.3	711.3
65°	2216.3	1628.0	1229.1	608.6	500.9
67.5°	1922.2	1315.7	876.9	440.9	375.2
70°	1618.9	1076.0	565.2	315.8	262.7
72.5°	1315.0	865.7	387.8	207.6	168.4
75°	1029.2	674.2	262.1	135.6	123.7
77.5°	771.3	465.3	146.0	100.6	94.3
80°	524.8	278.8	88.8	76.9	72.6
82.5°	314.4	133.5	64.3	56.6	54.5
85°	160.0	51.7	40.5	34.9	32.9
87.5°	47.5	25.8	18.1	14.0	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)