

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: P563274

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

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364424)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-18-N-UNV-L935-CD
Description: 18000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 90CRI, 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

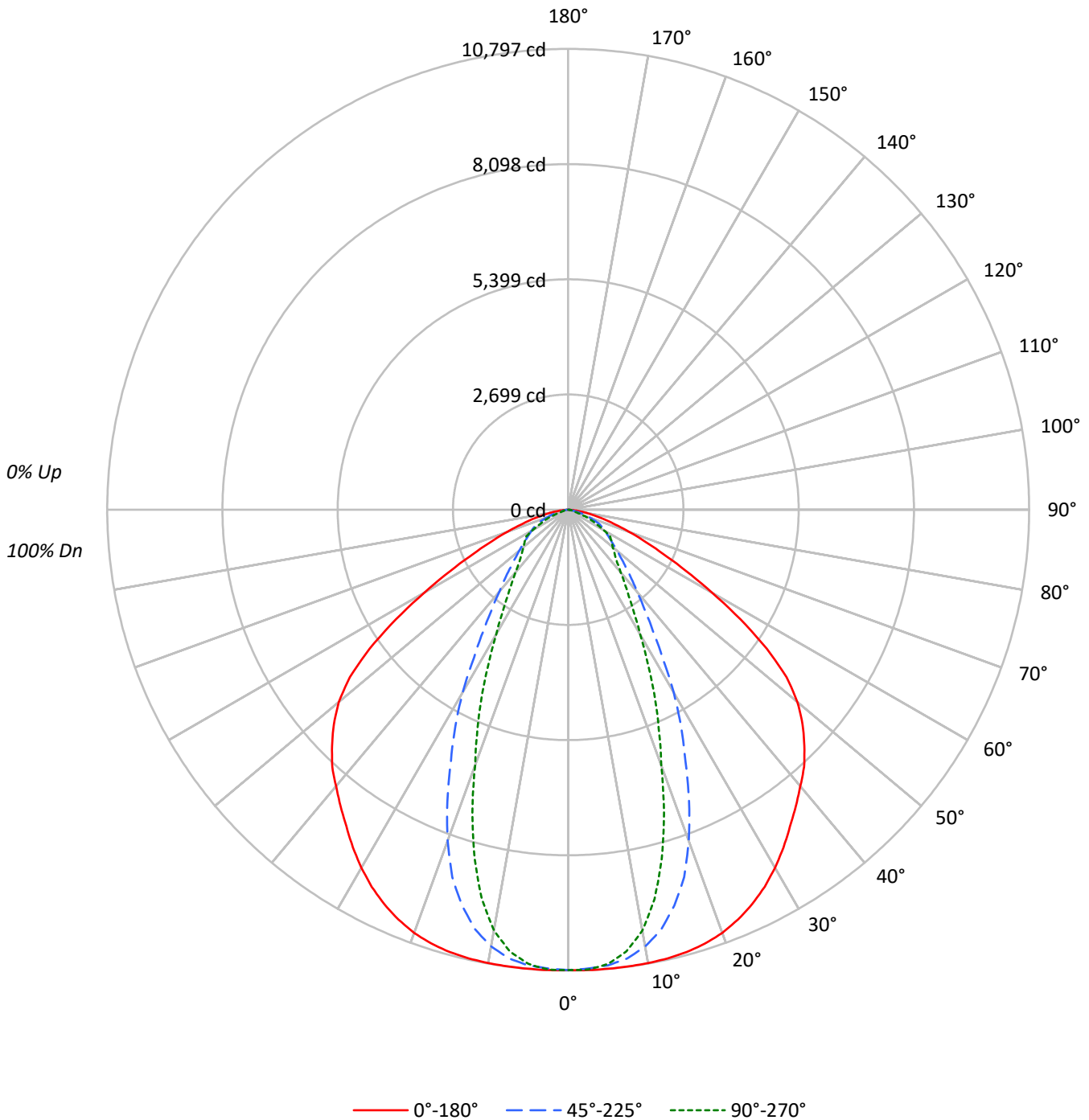
Lumens per Lamp: N/A
Luminaire Lumens: 15213.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89				89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62				62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55				55
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50				50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46				46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42				42
9	65	53	46	41	63	52	45	41	51	45	41	50	44	40	49	44	40	39				39
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	62859	62859	62859
5°	63154	62674	62493
10°	63818	61473	59228
15°	64728	57919	51068
20°	65425	51168	39539
25°	65556	41783	30637
30°	65189	33184	22675
35°	64444	24590	17632
40°	64343	19095	14552
45°	64479	15715	12927
50°	63564	13592	12329
55°	57703	12116	12458
60°	45367	11579	11351
65°	33696	11222	8543
70°	25843	8984	5215
75°	19671	6408	2877
80°	14443	2980	2322
85°	9039	2561	2066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1013.5	6.7
10°-20°	2667.9	17.5
20°-30°	3221.8	21.2
30°-40°	2880.7	18.9
40°-50°	2255.8	14.8
50°-60°	1704.4	11.2
60°-70°	1012.3	6.7
70°-80°	389.0	2.6
80°-90°	67.6	0.4
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°	6903.2	45.4
0°-40°	9783.9	64.3
0°-60°	13744.1	90.3
0°-90°	15213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15213.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10787	10787	10787	10787	10787	
5°	10797	10750	10715	10700	10684	###
15°	10729	10376	9601	8798	8465	3032
25°	10196	8997	6498	5124	4765	4695
35°	9059	6447	3457	2695	2479	5681
45°	7824	3334	1907	1611	1569	6023
55°	5680	1809	1193	1188	1226	4988
65°	2444	1016	814	679	620	2518
75°	874	488	285	141	128	957
85°	135	47	38	34	31	180
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10787.2	10787.2	10787.2	10787.2	10787.2
2.5°	10797.4	10761.7	10758.9	10781.8	10785.3
5°	10796.6	10749.5	10714.6	10700.5	10683.6
7.5°	10793.3	10722.0	10604.3	10491.3	10438.8
10°	10785.3	10658.8	10389.1	10132.1	10009.7
12.5°	10767.7	10545.7	10069.5	9597.3	9340.3
15°	10729.4	10375.6	9600.7	8798.2	8465.2
17.5°	10660.0	10140.8	9026.2	7893.5	7465.0
20°	10550.5	9842.2	8251.4	6861.7	6376.0
22.5°	10393.0	9452.1	7397.8	5932.7	5544.7
25°	10196.0	8996.7	6498.5	5123.5	4765.0
27.5°	9961.9	8465.2	5723.5	4370.2	4017.0
30°	9688.2	7844.4	4931.8	3658.5	3369.9
32.5°	9382.1	7190.6	4105.2	3115.7	2878.3
35°	9059.2	6446.7	3456.7	2695.3	2478.6
37.5°	8755.1	5650.2	2927.4	2323.4	2171.3
40°	8458.6	4813.5	2510.3	2029.4	1913.0
42.5°	8178.7	4013.1	2191.5	1783.2	1707.1
45°	7824.3	3333.7	1906.9	1611.0	1568.6
47.5°	7448.2	2813.6	1680.9	1471.0	1456.3
50°	7011.6	2396.7	1499.3	1349.4	1360.0
52.5°	6445.3	2067.0	1327.1	1263.2	1294.9
55°	5679.8	1808.8	1192.6	1187.8	1226.3
57.5°	4783.2	1561.9	1086.3	1115.9	1159.0
60°	3892.7	1363.5	993.5	1036.5	974.0
62.5°	3109.7	1181.2	905.4	826.6	772.9
65°	2443.8	1015.6	813.9	678.7	619.6
67.5°	1948.7	861.6	684.7	540.1	491.0
70°	1516.8	724.4	527.3	405.6	306.1
72.5°	1162.4	605.4	411.6	230.7	174.2
75°	873.7	488.3	284.6	140.6	127.8
77.5°	622.9	362.6	152.0	101.6	94.2
80°	430.4	232.8	88.8	73.3	69.2
82.5°	267.0	112.4	60.6	52.4	49.1
85°	135.2	47.1	38.3	33.6	30.9
87.5°	45.1	22.9	17.4	16.2	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)