

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: P563348

Luminaire Tested: **VHB-18-W-UNV-L950-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563348
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-L950-CD
Description: 18000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 90CRI, 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

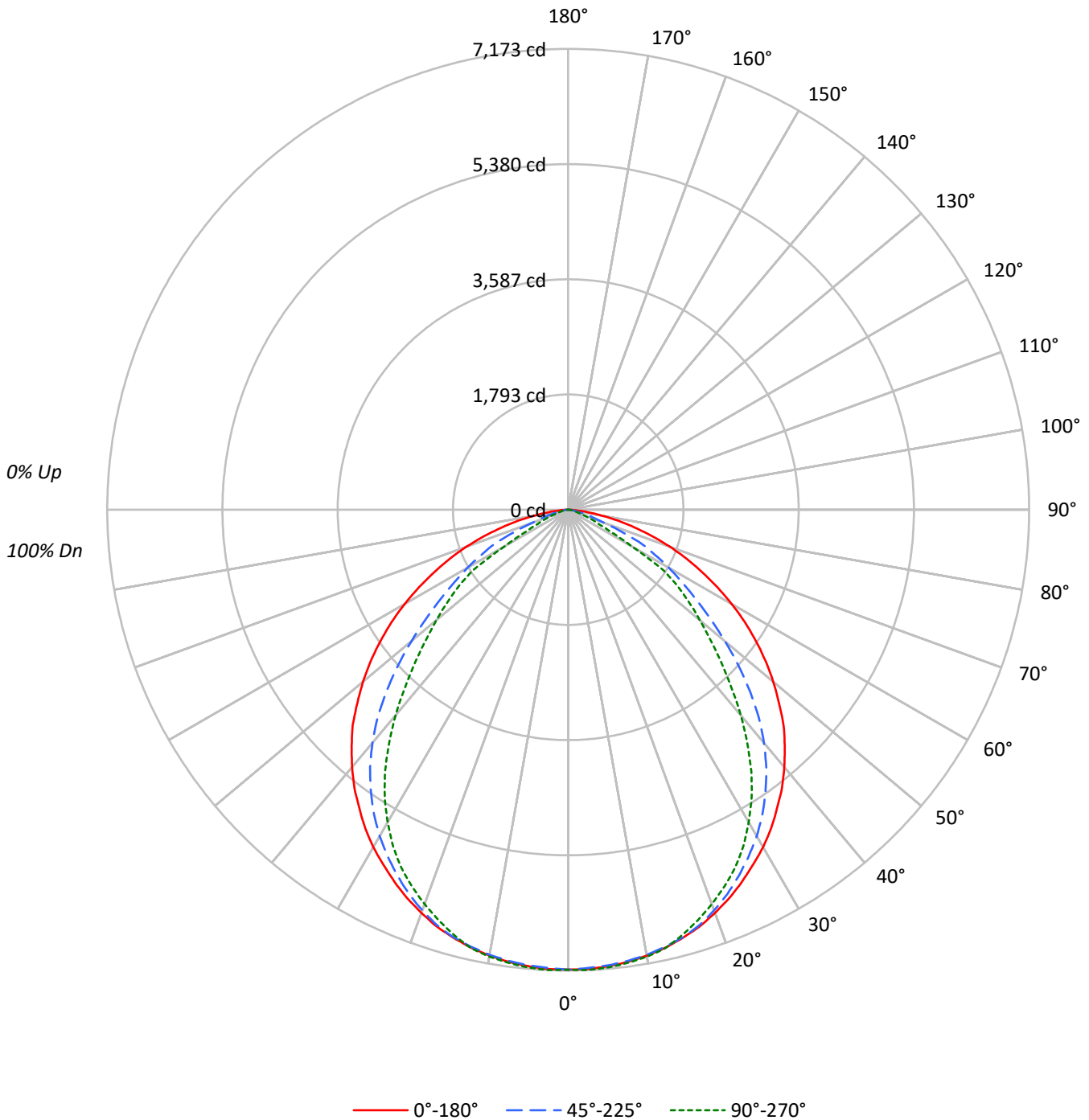
Lumens per Lamp: N/A
Luminaire Lumens: 16104.0 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	41721	41721	41721
5°	41728	41643	41834
10°	41712	41623	41794
15°	41614	41570	41356
20°	41413	41157	40513
25°	41106	40407	39521
30°	40807	39476	37787
35°	40321	38092	35332
40°	39790	36044	31791
45°	39066	32964	27778
50°	37775	28861	24266
55°	36233	24586	21181
60°	34229	21086	13523
65°	31717	17588	7169
70°	28627	9996	4646
75°	24050	6124	2889
80°	18275	3091	2530
85°	11105	2808	2280



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.9	4.2
10°-20°	1939.3	12.0
20°-30°	2890.9	18.0
30°-40°	3329.4	20.7
40°-50°	3098.5	19.2
50°-60°	2357.7	14.6
60°-70°	1265.6	7.9
70°-80°	465.6	2.9
80°-90°	79.2	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°	5508.1	34.2
0°-40°	8837.5	54.9
0°-60°	14293.6	88.8
0°-90°	16104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7160	7160	7160	7160	7160	
5°	7134	7113	7119	7144	7152	678
15°	6898	6887	6891	6878	6855	1947
25°	6393	6388	6284	6195	6147	2947
35°	5668	5599	5355	5086	4967	3548
45°	4740	4512	4000	3525	3371	3643
55°	3566	3163	2420	2154	2085	3186
65°	2300	1690	1276	632	520	2281
75°	1068	700	272	141	128	1145
85°	166	54	42	36	34	221
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7159.8	7159.8	7159.8	7159.8	7159.8
2.5°	7154.7	7132.9	7140.2	7163.4	7172.8
5°	7133.7	7113.3	7119.1	7143.8	7151.8
7.5°	7098.9	7079.3	7083.7	7106.9	7114.8
10°	7049.5	7029.3	7034.3	7056.8	7063.3
12.5°	6982.8	6964.0	6968.3	6984.3	6991.5
15°	6898.0	6887.1	6890.8	6877.6	6855.2
17.5°	6803.0	6787.0	6782.7	6724.7	6700.7
20°	6678.3	6672.5	6636.9	6565.1	6533.2
22.5°	6547.0	6536.1	6474.5	6388.1	6349.7
25°	6393.3	6388.1	6284.5	6195.2	6146.7
27.5°	6227.9	6215.6	6082.1	5970.5	5904.4
30°	6064.7	6034.3	5866.8	5710.1	5615.9
32.5°	5879.8	5822.5	5622.4	5422.2	5313.5
35°	5668.1	5599.2	5354.7	5085.7	4966.8
37.5°	5462.8	5359.1	5064.7	4728.2	4575.9
40°	5230.8	5082.1	4738.4	4347.5	4179.2
42.5°	4986.4	4805.1	4391.0	3936.3	3763.7
45°	4740.5	4512.1	4000.1	3525.1	3370.7
47.5°	4448.3	4206.1	3594.1	3132.8	3000.1
50°	4166.9	3884.1	3183.6	2767.3	2676.7
52.5°	3872.5	3529.5	2784.7	2458.4	2370.6
55°	3566.5	3163.2	2420.0	2154.5	2084.9
57.5°	3259.0	2786.9	2096.5	1878.3	1753.5
60°	2937.0	2413.4	1809.3	1526.5	1160.3
62.5°	2620.1	2024.7	1522.9	957.2	738.2
65°	2300.3	1689.7	1275.6	631.6	519.9
67.5°	1995.0	1365.6	910.1	457.6	389.4
70°	1680.2	1116.8	586.7	327.8	272.7
72.5°	1364.8	898.5	402.5	215.4	174.7
75°	1068.2	699.8	272.0	140.7	128.3
77.5°	800.6	483.0	151.5	104.4	97.9
80°	544.6	289.4	92.1	79.8	75.4
82.5°	326.4	138.5	66.7	58.8	56.6
85°	166.1	53.6	42.0	36.2	34.1
87.5°	49.3	26.8	18.8	14.5	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)