

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: P563347

Luminaire Tested: **VHB-18-W-UNV-L940-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563347
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-L940-CD
Description: 18000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 90CRI, 4000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

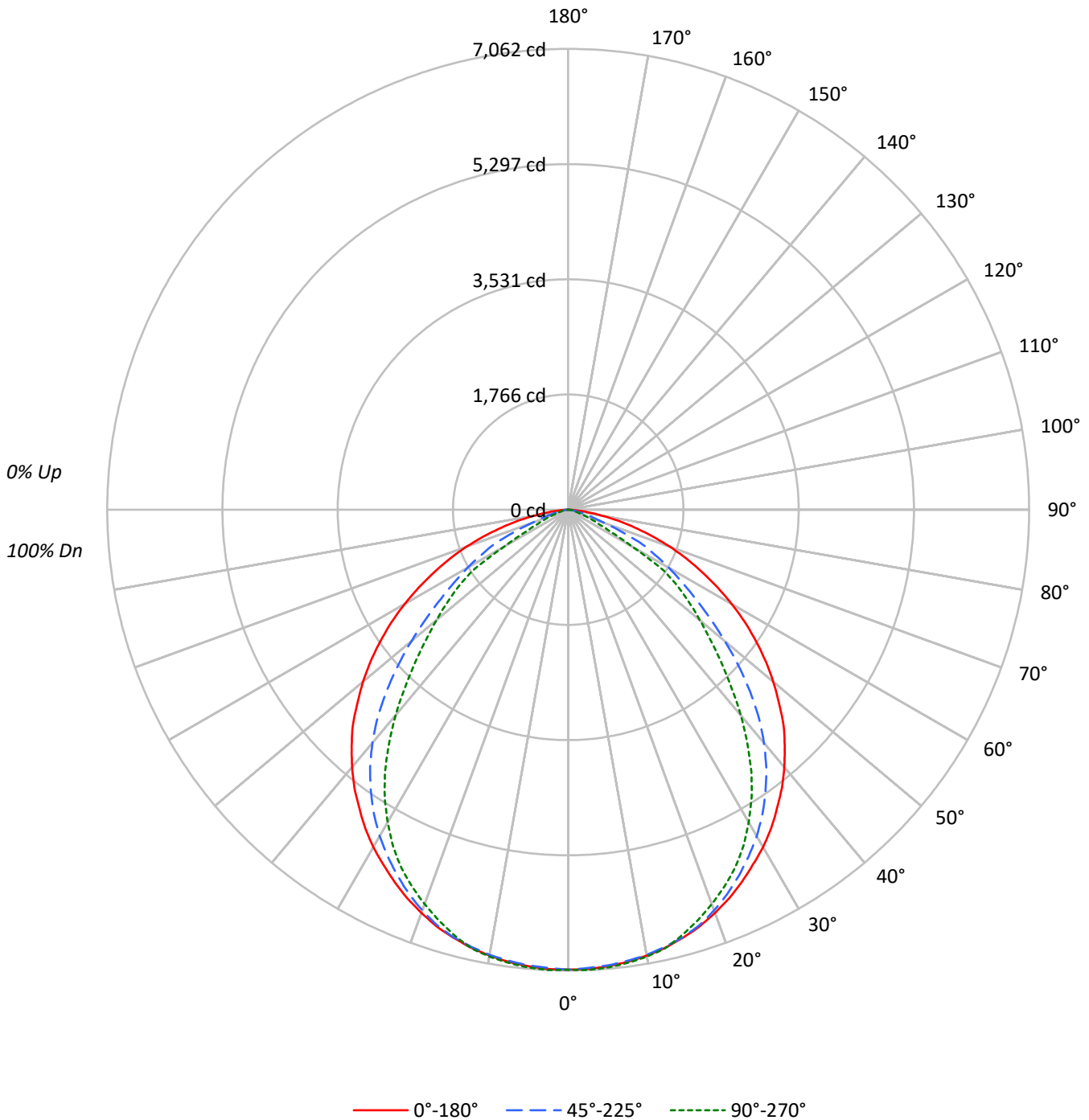
Lumens per Lamp: N/A
Luminaire Lumens: 15854.0 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

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	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°	41074	41074	41074
5°	41080	40996	41185
10°	41065	40976	41146
15°	40968	40925	40714
20°	40770	40518	39885
25°	40468	39779	38907
30°	40174	38863	37201
35°	39695	37500	34784
40°	39172	35484	31297
45°	38459	32453	27346
50°	37189	28412	23888
55°	35671	24204	20853
60°	33699	20760	13313
65°	31225	17315	7058
70°	28184	9841	4573
75°	23676	6029	2846
80°	17993	3044	2490
85°	10932	2768	2246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.3	4.2
10°-20°	1909.2	12.0
20°-30°	2846.0	18.0
30°-40°	3277.7	20.7
40°-50°	3050.4	19.2
50°-60°	2321.1	14.6
60°-70°	1245.9	7.9
70°-80°	458.4	2.9
80°-90°	78.0	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°	5422.6	34.2
0°-40°	8700.3	54.9
0°-60°	14071.7	88.8
0°-90°	15854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15854.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7049	7049	7049	7049	7049	
5°	7023	7003	7009	7033	7041	668
15°	6791	6780	6784	6771	6749	1917
25°	6294	6289	6187	6099	6051	2901
35°	5580	5512	5272	5007	4890	3493
45°	4667	4442	3938	3470	3318	3586
55°	3511	3114	2382	2121	2053	3136
65°	2265	1663	1256	622	512	2246
75°	1052	689	268	138	126	1127
85°	164	53	41	36	34	218
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7048.7	7048.7	7048.7	7048.7	7048.7
2.5°	7043.6	7022.2	7029.4	7052.2	7061.5
5°	7022.9	7002.9	7008.6	7032.9	7040.8
7.5°	6988.7	6969.4	6973.7	6996.5	7004.4
10°	6940.1	6920.2	6925.1	6947.2	6953.7
12.5°	6874.4	6855.9	6860.2	6875.9	6883.0
15°	6790.9	6780.1	6783.8	6770.9	6748.8
17.5°	6697.4	6681.7	6677.4	6620.3	6596.7
20°	6574.6	6568.9	6533.9	6463.2	6431.8
22.5°	6445.4	6434.6	6373.9	6289.0	6251.2
25°	6294.0	6289.0	6186.9	6099.1	6051.2
27.5°	6131.3	6119.1	5987.7	5877.8	5812.8
30°	5970.6	5940.6	5775.7	5621.5	5528.7
32.5°	5788.5	5732.1	5535.1	5338.1	5231.0
35°	5580.1	5512.2	5271.6	5006.7	4889.7
37.5°	5378.0	5275.9	4986.1	4654.8	4504.9
40°	5149.6	5003.2	4664.8	4280.0	4114.3
42.5°	4908.9	4730.5	4322.9	3875.2	3705.2
45°	4666.9	4442.1	3938.0	3470.4	3318.3
47.5°	4379.2	4140.8	3538.3	3084.2	2953.5
50°	4102.3	3823.8	3134.1	2724.4	2635.1
52.5°	3812.4	3474.7	2741.5	2420.2	2333.8
55°	3511.1	3114.1	2382.4	2121.1	2052.6
57.5°	3208.4	2743.7	2064.0	1849.1	1726.3
60°	2891.5	2375.9	1781.3	1502.8	1142.3
62.5°	2579.4	1993.3	1499.3	942.4	726.8
65°	2264.6	1663.4	1255.8	621.8	511.9
67.5°	1964.0	1344.4	896.0	450.5	383.4
70°	1654.2	1099.4	577.6	322.7	268.4
72.5°	1343.6	884.5	396.3	212.1	172.0
75°	1051.6	688.9	267.8	138.5	126.4
77.5°	788.1	475.5	149.2	102.8	96.4
80°	536.2	284.9	90.7	78.5	74.2
82.5°	321.3	136.4	65.7	57.8	55.7
85°	163.5	52.8	41.4	35.7	33.6
87.5°	48.6	26.4	18.5	14.3	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)