

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: P563386

Luminaire Tested: **VHB-9-W-UNV-L740-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563386
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-9-W-UNV-L740-CD
Description: 9000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 70CRI, 4000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

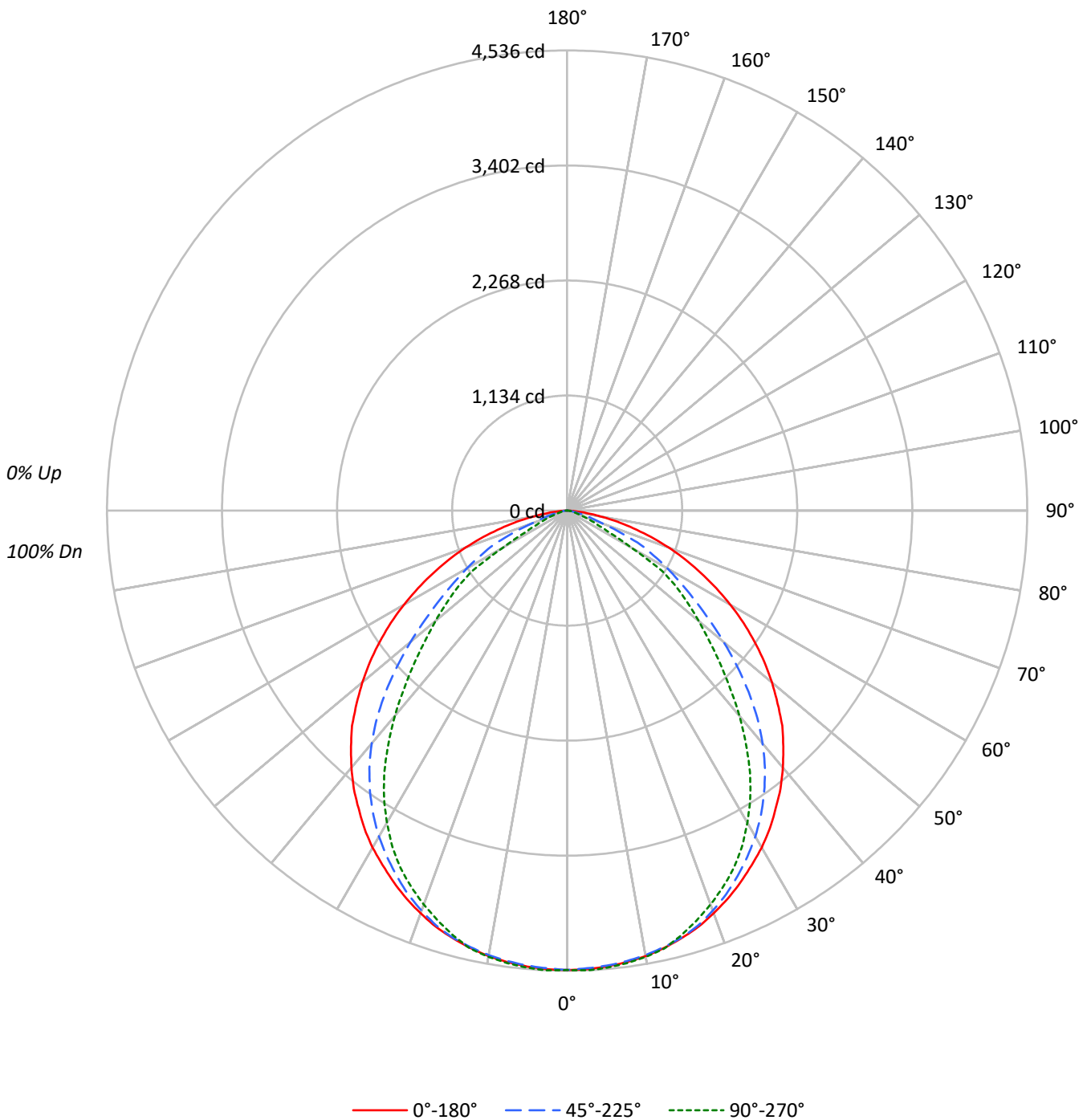
Lumens per Lamp: N/A
Luminaire Lumens: 10185.0 lumens
Efficiency: N/A
Efficacy: 181.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 56
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: P563386

CATALOG NUMBER: VHB-9-W-UNV-L740-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°	26387	26387	26387
5°	26391	26337	26458
10°	26381	26325	26433
15°	26318	26291	26156
20°	26192	26029	25623
25°	25997	25555	24995
30°	25808	24967	23899
35°	25501	24091	22346
40°	25165	22796	20106
45°	24707	20849	17568
50°	23891	18253	15347
55°	22916	15549	13396
60°	21648	13336	8552
65°	20059	11124	4534
70°	18106	6321	2937
75°	15211	3872	1828
80°	11561	1956	1601
85°	7020	1778	1444



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.7	4.2
10°-20°	1226.5	12.0
20°-30°	1828.4	18.0
30°-40°	2105.7	20.7
40°-50°	1959.6	19.2
50°-60°	1491.1	14.6
60°-70°	800.4	7.9
70°-80°	294.5	2.9
80°-90°	50.1	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°	3483.6	34.2
0°-40°	5589.3	54.9
0°-60°	9040.0	88.8
0°-90°	10185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4528	4528	4528	4528	4528	
5°	4512	4499	4502	4518	4523	429
15°	4363	4356	4358	4350	4336	1231
25°	4043	4040	3975	3918	3888	1864
35°	3585	3541	3387	3216	3141	2244
45°	2998	2854	2530	2230	2132	2304
55°	2256	2001	1530	1363	1319	2015
65°	1455	1069	807	400	329	1443
75°	676	443	172	89	81	724
85°	105	34	27	23	22	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4528.2	4528.2	4528.2	4528.2	4528.2
2.5°	4525.0	4511.2	4515.8	4530.5	4536.5
5°	4511.7	4498.8	4502.5	4518.1	4523.2
7.5°	4489.7	4477.3	4480.1	4494.7	4499.8
10°	4458.5	4445.7	4448.9	4463.1	4467.2
12.5°	4416.3	4404.4	4407.1	4417.2	4421.8
15°	4362.6	4355.7	4358.1	4349.8	4335.6
17.5°	4302.6	4292.5	4289.7	4253.0	4237.9
20°	4223.7	4220.0	4197.5	4152.1	4131.9
22.5°	4140.7	4133.7	4094.8	4040.2	4015.9
25°	4043.4	4040.2	3974.6	3918.2	3887.5
27.5°	3938.9	3931.1	3846.6	3776.0	3734.3
30°	3835.6	3816.4	3710.5	3611.4	3551.8
32.5°	3718.7	3682.4	3555.9	3429.3	3360.5
35°	3584.8	3541.2	3386.6	3216.5	3141.2
37.5°	3455.0	3389.4	3203.2	2990.4	2894.1
40°	3308.2	3214.2	2996.8	2749.6	2643.2
42.5°	3153.6	3039.0	2777.1	2489.5	2380.3
45°	2998.1	2853.7	2529.9	2229.5	2131.8
47.5°	2813.3	2660.2	2273.1	1981.3	1897.4
50°	2635.4	2456.5	2013.5	1750.2	1692.9
52.5°	2449.2	2232.2	1761.2	1554.8	1499.3
55°	2255.6	2000.6	1530.5	1362.6	1318.6
57.5°	2061.1	1762.6	1326.0	1187.9	1109.0
60°	1857.5	1526.4	1144.3	965.4	733.8
62.5°	1657.1	1280.5	963.2	605.4	466.9
65°	1454.8	1068.6	806.8	399.5	328.8
67.5°	1261.7	863.7	575.6	289.4	246.3
70°	1062.7	706.3	371.0	207.3	172.4
72.5°	863.2	568.3	254.6	136.2	110.5
75°	675.6	442.6	172.0	89.0	81.2
77.5°	506.3	305.4	95.8	66.0	61.9
80°	344.5	183.0	58.3	50.4	47.7
82.5°	206.4	87.6	42.2	37.2	35.8
85°	105.0	33.9	26.6	22.9	21.6
87.5°	31.2	17.0	11.9	9.2	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)