

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: P563329

Luminaire Tested: **VHB-12-W-UNV-L940-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563329
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-12-W-UNV-L940-CD
Description: 12000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 90CRI, 4000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

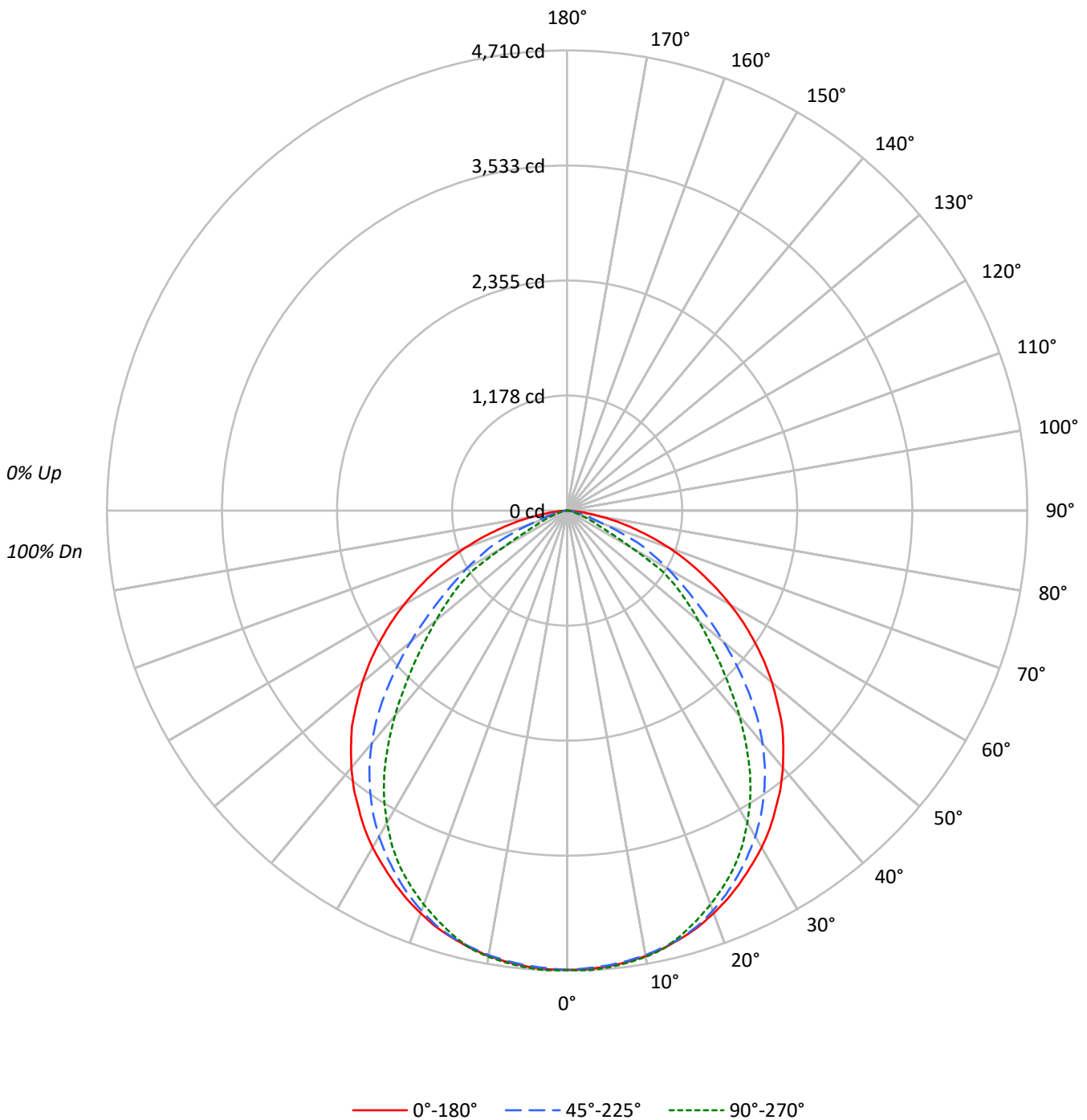
Lumens per Lamp: N/A
Luminaire Lumens: 10575.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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°	27397	27397	27397
5°	27402	27346	27471
10°	27391	27332	27445
15°	27327	27298	27157
20°	27195	27027	26604
25°	26993	26534	25952
30°	26797	25922	24814
35°	26478	25014	23201
40°	26129	23669	20876
45°	25653	21646	18240
50°	24806	18951	15934
55°	23793	16144	13909
60°	22478	13847	8879
65°	20827	11550	4707
70°	18799	6563	3050
75°	15792	4021	1898
80°	12003	2030	1661
85°	7294	1845	1498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.1	4.2
10°-20°	1273.5	12.0
20°-30°	1898.4	18.0
30°-40°	2186.3	20.7
40°-50°	2034.7	19.2
50°-60°	1548.2	14.6
60°-70°	831.1	7.9
70°-80°	305.7	2.9
80°-90°	52.0	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°	3617.0	34.2
0°-40°	5803.3	54.9
0°-60°	9386.2	88.8
0°-90°	10575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10575.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4702	4702	4702	4702	4702	
5°	4684	4671	4675	4691	4696	445
15°	4530	4522	4525	4516	4502	1278
25°	4198	4195	4127	4068	4036	1935
35°	3722	3677	3516	3340	3262	2330
45°	3113	2963	2627	2315	2213	2392
55°	2342	2077	1589	1415	1369	2092
65°	1510	1110	838	415	341	1498
75°	701	460	179	92	84	752
85°	109	35	28	24	22	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4701.6	4701.6	4701.6	4701.6	4701.6
2.5°	4698.3	4684.0	4688.8	4704.0	4710.2
5°	4684.5	4671.1	4674.9	4691.1	4696.4
7.5°	4661.6	4648.7	4651.6	4666.9	4672.1
10°	4629.2	4615.9	4619.2	4634.0	4638.3
12.5°	4585.4	4573.0	4575.9	4586.4	4591.1
15°	4529.7	4522.5	4524.9	4516.3	4501.6
17.5°	4467.3	4456.8	4454.0	4415.9	4400.2
20°	4385.4	4381.6	4358.3	4311.1	4290.2
22.5°	4299.2	4292.0	4251.6	4194.9	4169.7
25°	4198.3	4194.9	4126.8	4068.2	4036.3
27.5°	4089.7	4081.6	3993.9	3920.6	3877.3
30°	3982.5	3962.5	3852.5	3749.7	3687.8
32.5°	3861.1	3823.4	3692.0	3560.6	3489.2
35°	3722.1	3676.8	3516.3	3339.6	3261.5
37.5°	3587.3	3519.2	3325.8	3104.9	3004.9
40°	3434.9	3337.2	3111.6	2854.9	2744.4
42.5°	3274.4	3155.3	2883.5	2584.9	2471.5
45°	3112.9	2963.0	2626.7	2314.9	2213.4
47.5°	2921.0	2762.0	2360.1	2057.2	1970.1
50°	2736.3	2550.6	2090.5	1817.2	1757.7
52.5°	2543.0	2317.7	1828.7	1614.3	1556.7
55°	2342.0	2077.2	1589.1	1414.8	1369.1
57.5°	2140.1	1830.1	1376.7	1233.4	1151.5
60°	1928.7	1584.8	1188.1	1002.4	761.9
62.5°	1720.5	1329.5	1000.0	628.6	484.8
65°	1510.5	1109.5	837.7	414.8	341.4
67.5°	1310.1	896.7	597.6	300.5	255.7
70°	1103.4	733.4	385.2	215.3	179.0
72.5°	896.2	590.0	264.3	141.5	114.7
75°	701.4	459.5	178.6	92.4	84.3
77.5°	525.7	317.1	99.5	68.5	64.3
80°	357.7	190.0	60.5	52.4	49.5
82.5°	214.3	91.0	43.8	38.6	37.1
85°	109.1	35.2	27.6	23.8	22.4
87.5°	32.4	17.6	12.4	9.5	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)