

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: P563252

Luminaire Tested: **VHB-12-N-UNV-L750-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563252
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-12-N-UNV-L750-CD
Description: 12000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 70CRI, 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

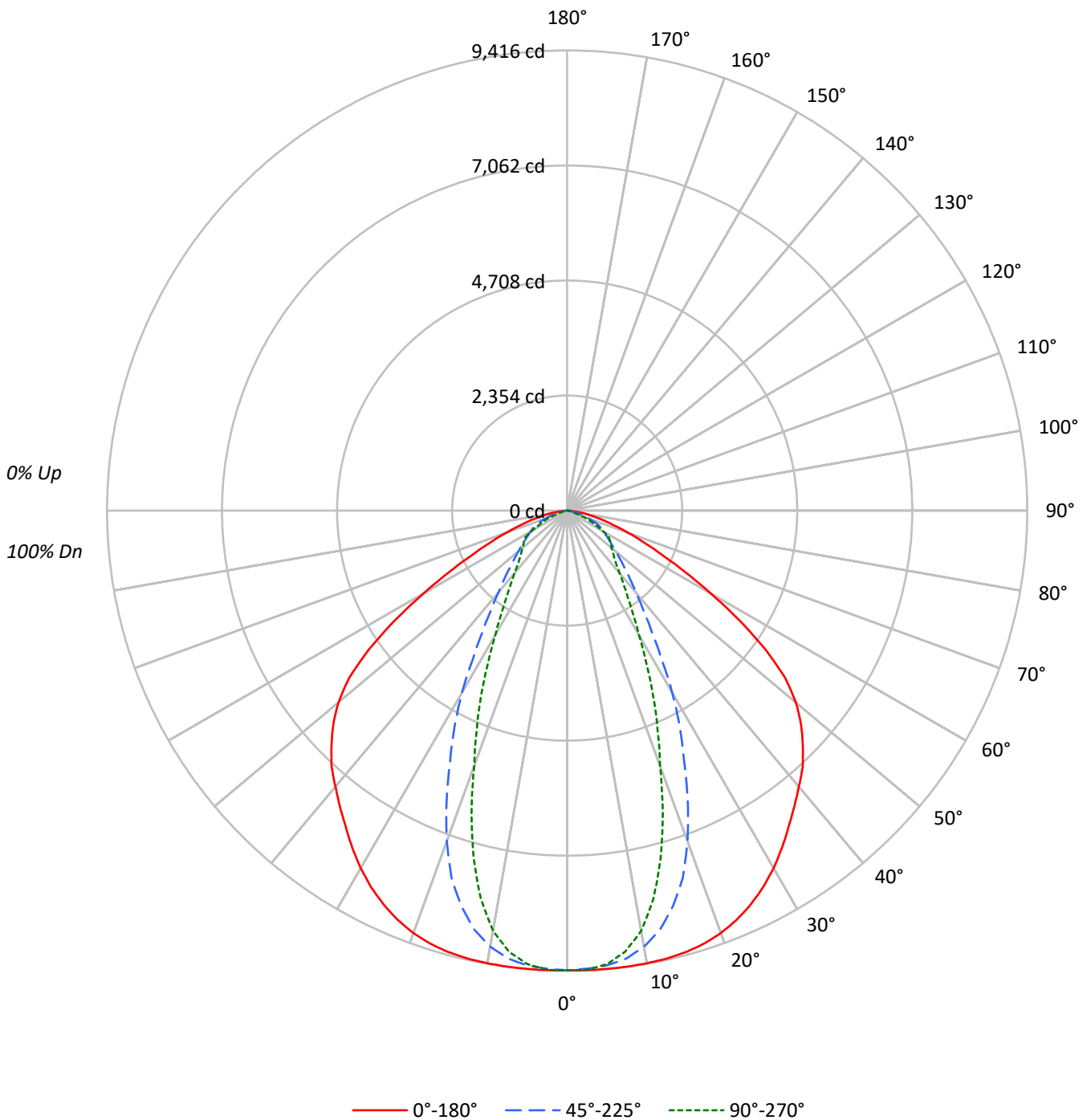
Lumens per Lamp: N/A
Luminaire Lumens: 13266.0 lumens
Efficiency: N/A
Efficacy: 165.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	54814	54814	54814
5°	55071	54653	54495
10°	55650	53606	51648
15°	56444	50506	44533
20°	57052	44620	34478
25°	57166	36435	26716
30°	56846	28938	19774
35°	56197	21443	15376
40°	56108	16652	12690
45°	56227	13704	11273
50°	55429	11852	10752
55°	50318	10565	10863
60°	39561	10096	9899
65°	29383	9786	7450
70°	22536	7834	4547
75°	17154	5588	2508
80°	12594	2601	2027
85°	7883	2233	1805



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	883.8	6.7
10°-20°	2326.5	17.5
20°-30°	2809.5	21.2
30°-40°	2512.0	18.9
40°-50°	1967.1	14.8
50°-60°	1486.3	11.2
60°-70°	882.7	6.7
70°-80°	339.2	2.6
80°-90°	58.9	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°	6019.7	45.4
0°-40°	8531.7	64.3
0°-60°	11985.1	90.3
0°-90°	13266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9407	9407	9407	9407	9407	
5°	9415	9374	9343	9331	9316	898
15°	9356	9048	8372	7672	7382	2644
25°	8891	7845	5667	4468	4155	4094
35°	7900	5622	3014	2350	2161	4954
45°	6823	2907	1663	1405	1368	5252
55°	4953	1577	1040	1036	1069	4349
65°	2131	886	710	592	540	2196
75°	762	426	248	123	111	834
85°	118	41	33	29	27	157
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9406.6	9406.6	9406.6	9406.6	9406.6
2.5°	9415.5	9384.4	9382.0	9401.9	9404.9
5°	9414.8	9373.8	9343.3	9331.0	9316.3
7.5°	9411.9	9349.8	9247.1	9148.6	9102.8
10°	9404.9	9294.6	9059.5	8835.4	8728.6
12.5°	9389.6	9196.1	8780.8	8369.0	8144.9
15°	9356.2	9047.7	8372.0	7672.1	7381.8
17.5°	9295.7	8842.9	7871.0	6883.3	6509.6
20°	9200.2	8582.5	7195.4	5983.5	5560.0
22.5°	9062.9	8242.4	6451.0	5173.4	4835.0
25°	8891.1	7845.3	5666.8	4467.8	4155.2
27.5°	8687.0	7381.8	4991.0	3810.9	3502.9
30°	8448.3	6840.4	4300.7	3190.3	2938.7
32.5°	8181.3	6270.3	3579.8	2716.9	2509.9
35°	7899.8	5621.6	3014.3	2350.3	2161.4
37.5°	7634.6	4927.1	2552.8	2026.0	1893.4
40°	7376.0	4197.4	2189.1	1769.6	1668.2
42.5°	7132.0	3499.5	1911.0	1555.0	1488.6
45°	6822.9	2907.0	1662.9	1404.8	1367.9
47.5°	6494.9	2453.5	1465.8	1282.8	1269.9
50°	6114.3	2090.0	1307.4	1176.7	1186.0
52.5°	5620.4	1802.5	1157.2	1101.5	1129.2
55°	4952.9	1577.3	1039.9	1035.8	1069.3
57.5°	4171.0	1362.0	947.3	973.1	1010.6
60°	3394.5	1189.0	866.3	903.9	849.4
62.5°	2711.7	1030.0	789.5	720.8	674.0
65°	2131.0	885.7	709.7	591.9	540.3
67.5°	1699.3	751.4	597.1	471.0	428.2
70°	1322.7	631.7	459.8	353.7	266.9
72.5°	1013.6	528.0	358.9	201.2	151.9
75°	761.9	425.8	248.2	122.6	111.4
77.5°	543.2	316.2	132.5	88.6	82.1
80°	375.3	203.0	77.5	63.9	60.4
82.5°	232.8	98.0	52.8	45.7	42.8
85°	117.9	41.1	33.4	29.3	27.0
87.5°	39.3	20.0	15.2	14.1	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)