

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: P563270

Luminaire Tested: **VHB-18-N-UNV-L750-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563270
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-18-N-UNV-L750-CD
Description: 18000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 70CRI, 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

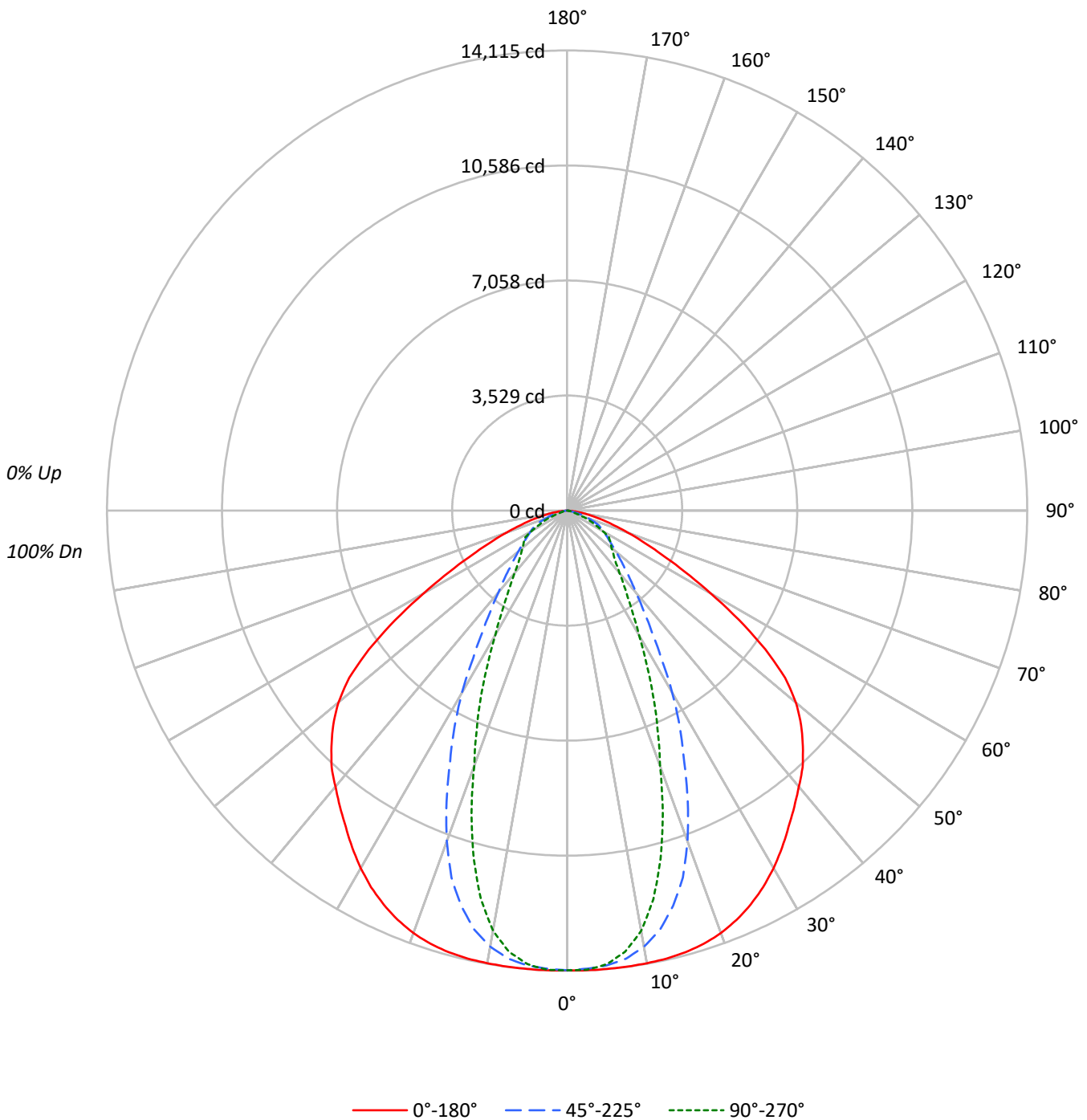
Lumens per Lamp: N/A
Luminaire Lumens: 19887.0 lumens
Efficiency: N/A
Efficacy: 159.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	82172	82172	82172
5°	82557	81931	81693
10°	83424	80360	77425
15°	84615	75713	66758
20°	85526	66889	51687
25°	85697	54619	40050
30°	85216	43380	29642
35°	84244	32145	23050
40°	84112	24963	19023
45°	84289	20543	16899
50°	83093	17767	16118
55°	75432	15837	16286
60°	59304	15136	14840
65°	44048	14671	11167
70°	33784	11744	6817
75°	25716	8375	3760
80°	18883	3896	3037
85°	11814	3350	2701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1324.9	6.7
10°-20°	3487.6	17.5
20°-30°	4211.6	21.2
30°-40°	3765.7	18.9
40°-50°	2948.8	14.8
50°-60°	2228.1	11.2
60°-70°	1323.3	6.7
70°-80°	508.6	2.6
80°-90°	88.4	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°	9024.1	45.4
0°-40°	12789.9	64.3
0°-60°	17966.8	90.3
0°-90°	19887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19887.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14101	14101	14101	14101	14101	
5°	14114	14052	14007	13988	13966	###
15°	14026	13563	12550	11501	11066	3963
25°	13329	11761	8495	6698	6229	6137
35°	11842	8427	4519	3523	3240	7426
45°	10228	4358	2493	2106	2051	7873
55°	7425	2364	1559	1553	1603	6520
65°	3195	1328	1064	887	810	3292
75°	1142	638	372	184	167	1250
85°	177	62	50	44	40	235
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14101.4	14101.4	14101.4	14101.4	14101.4
2.5°	14114.7	14068.1	14064.5	14094.4	14098.9
5°	14113.7	14052.2	14006.6	13988.1	13966.0
7.5°	14109.4	14016.2	13862.3	13714.6	13646.0
10°	14098.9	13933.5	13581.0	13245.1	13085.0
12.5°	14076.0	13785.8	13163.2	12546.0	12210.0
15°	14025.9	13563.3	12550.4	11501.3	11066.0
17.5°	13935.2	13256.4	11799.4	10318.7	9758.5
20°	13791.9	12866.1	10786.5	8969.9	8335.0
22.5°	13586.1	12356.1	9670.6	7755.5	7248.2
25°	13328.6	11760.8	8495.0	6697.7	6229.0
27.5°	13022.6	11066.0	7482.0	5712.9	5251.2
30°	12664.7	10254.4	6447.1	4782.5	4405.3
32.5°	12264.6	9399.8	5366.5	4072.9	3762.6
35°	11842.5	8427.3	4518.8	3523.4	3240.2
37.5°	11445.0	7386.1	3826.8	3037.2	2838.4
40°	11057.4	6292.4	3281.6	2652.9	2500.8
42.5°	10691.5	5246.0	2864.8	2331.1	2231.6
45°	10228.2	4357.9	2492.8	2106.0	2050.6
47.5°	9736.5	3678.1	2197.3	1923.0	1903.7
50°	9165.8	3133.0	1959.9	1763.9	1777.9
52.5°	8425.5	2702.1	1734.8	1651.3	1692.7
55°	7424.9	2364.5	1558.9	1552.8	1603.0
57.5°	6252.8	2041.8	1420.0	1458.8	1515.0
60°	5088.6	1782.4	1298.7	1355.0	1273.3
62.5°	4065.1	1544.1	1183.6	1080.6	1010.4
65°	3194.6	1327.7	1064.0	887.3	809.9
67.5°	2547.4	1126.4	895.1	706.1	641.9
70°	1982.9	947.0	689.3	530.2	400.1
72.5°	1519.5	791.5	538.1	301.6	227.8
75°	1142.2	638.4	372.0	183.8	167.0
77.5°	814.2	474.0	198.7	132.8	123.1
80°	562.7	304.3	116.1	95.8	90.5
82.5°	349.1	146.9	79.2	68.5	64.2
85°	176.7	61.6	50.1	43.9	40.4
87.5°	58.9	29.9	22.8	21.1	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)