

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: P563286

Luminaire Tested: **VHB-30-N-UNV-L735-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563286
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-30-N-UNV-L735-CD
Description: 30000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 70CRI, 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

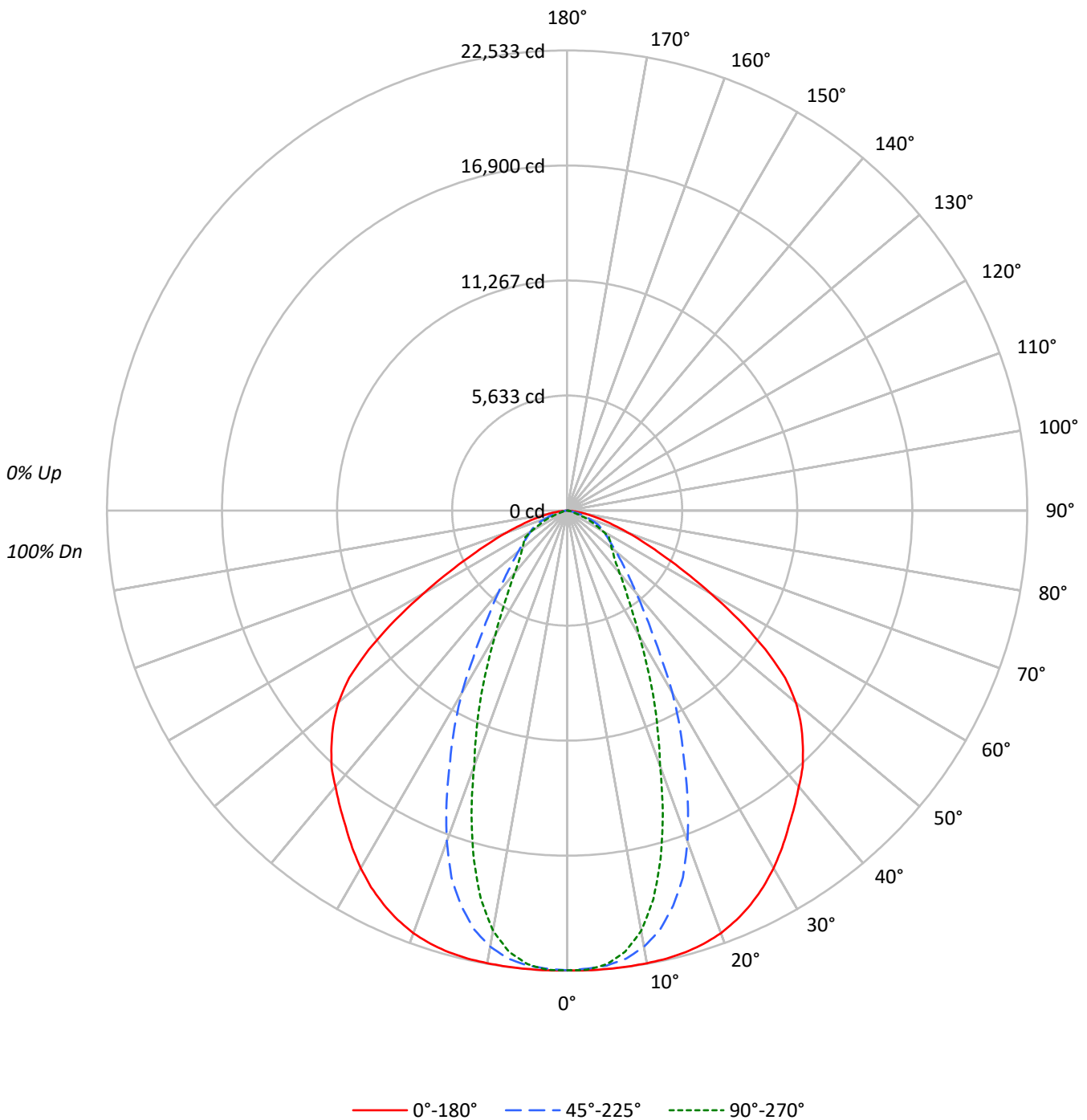
Lumens per Lamp: N/A
Luminaire Lumens: 31748.0 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 204
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42
9	65	53	46	41	63	52	45	41	51	45	41	50	44	40	49	44	40	39
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	87454	87454	87454
5°	87864	87198	86945
10°	88787	85525	82402
15°	90054	80581	71050
20°	91024	71189	55009
25°	91206	58131	42624
30°	90694	46169	31547
35°	89659	34212	24531
40°	89519	26567	20246
45°	89707	21864	17985
50°	88434	18909	17154
55°	80281	16856	17333
60°	63117	16109	15793
65°	46879	15614	11886
70°	35955	12499	7256
75°	27369	8914	4003
80°	20096	4148	3233
85°	12574	3561	2875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2115.1	6.7
10°-20°	5567.7	17.5
20°-30°	6723.6	21.2
30°-40°	6011.7	18.9
40°-50°	4707.6	14.8
50°-60°	3556.9	11.2
60°-70°	2112.6	6.7
70°-80°	811.9	2.6
80°-90°	141.0	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°	14406.3	45.4
0°-40°	20418.0	64.3
0°-60°	28682.5	90.3
0°-90°	31748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31748.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22512	22512	22512	22512	22512	
5°	22531	22433	22360	22331	22296	###
15°	22391	21653	20036	18361	17666	6327
25°	21278	18775	13562	10692	9944	9797
35°	18906	13454	7214	5625	5173	11856
45°	16328	6957	3980	3362	3274	12569
55°	11853	3775	2489	2479	2559	10409
65°	5100	2120	1699	1416	1293	5255
75°	1823	1019	594	294	267	1996
85°	282	98	80	70	64	376
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22511.8	22511.8	22511.8	22511.8	22511.8
2.5°	22533.0	22458.6	22452.8	22500.6	22507.8
5°	22531.4	22433.1	22360.4	22330.9	22295.6
7.5°	22524.5	22375.8	22130.1	21894.2	21784.8
10°	22507.8	22243.8	21680.9	21144.7	20889.2
12.5°	22471.1	22007.9	21014.0	20028.6	19492.3
15°	22391.2	21652.8	20035.8	18360.9	17666.0
17.5°	22246.4	21162.7	18836.8	16472.9	15578.6
20°	22017.7	20539.6	17219.8	14319.7	13306.1
22.5°	21689.2	19725.5	15438.4	12381.0	11571.2
25°	21278.0	18775.2	13561.6	10692.3	9944.1
27.5°	20789.6	17666.0	11944.3	9120.1	8383.1
30°	20218.2	16370.4	10292.3	7634.9	7032.7
32.5°	19579.5	15006.0	8567.1	6502.1	6006.7
35°	18905.6	13453.5	7213.9	5624.8	5172.7
37.5°	18271.1	11791.3	6109.2	4848.7	4531.3
40°	17652.2	10045.2	5238.8	4235.1	3992.3
42.5°	17068.2	8374.8	4573.5	3721.4	3562.6
45°	16328.4	6957.0	3979.6	3362.1	3273.6
47.5°	15543.6	5871.8	3507.9	3069.9	3039.1
50°	14632.5	5001.6	3128.8	2816.0	2838.3
52.5°	13450.6	4313.7	2769.5	2636.1	2702.3
55°	11853.2	3774.8	2488.7	2478.9	2559.1
57.5°	9982.0	3259.5	2267.0	2328.8	2418.6
60°	8123.6	2845.4	2073.3	2163.1	2032.7
62.5°	6489.6	2465.1	1889.5	1725.1	1613.0
65°	5099.9	2119.5	1698.6	1416.5	1293.0
67.5°	4066.7	1798.2	1429.0	1127.2	1024.7
70°	3165.5	1511.8	1100.4	846.5	638.8
72.5°	2425.8	1263.5	859.0	481.5	363.6
75°	1823.4	1019.1	593.9	293.5	266.7
77.5°	1299.9	756.7	317.1	212.0	196.5
80°	898.3	485.8	185.4	153.0	144.5
82.5°	557.2	234.5	126.4	109.4	102.5
85°	282.1	98.3	79.9	70.1	64.5
87.5°	94.0	47.8	36.4	33.7	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)