

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: P563292

Luminaire Tested: **VHB-30-N-UNV-L935-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563292
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-L935-CD
Description: 30000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 90CRI, 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

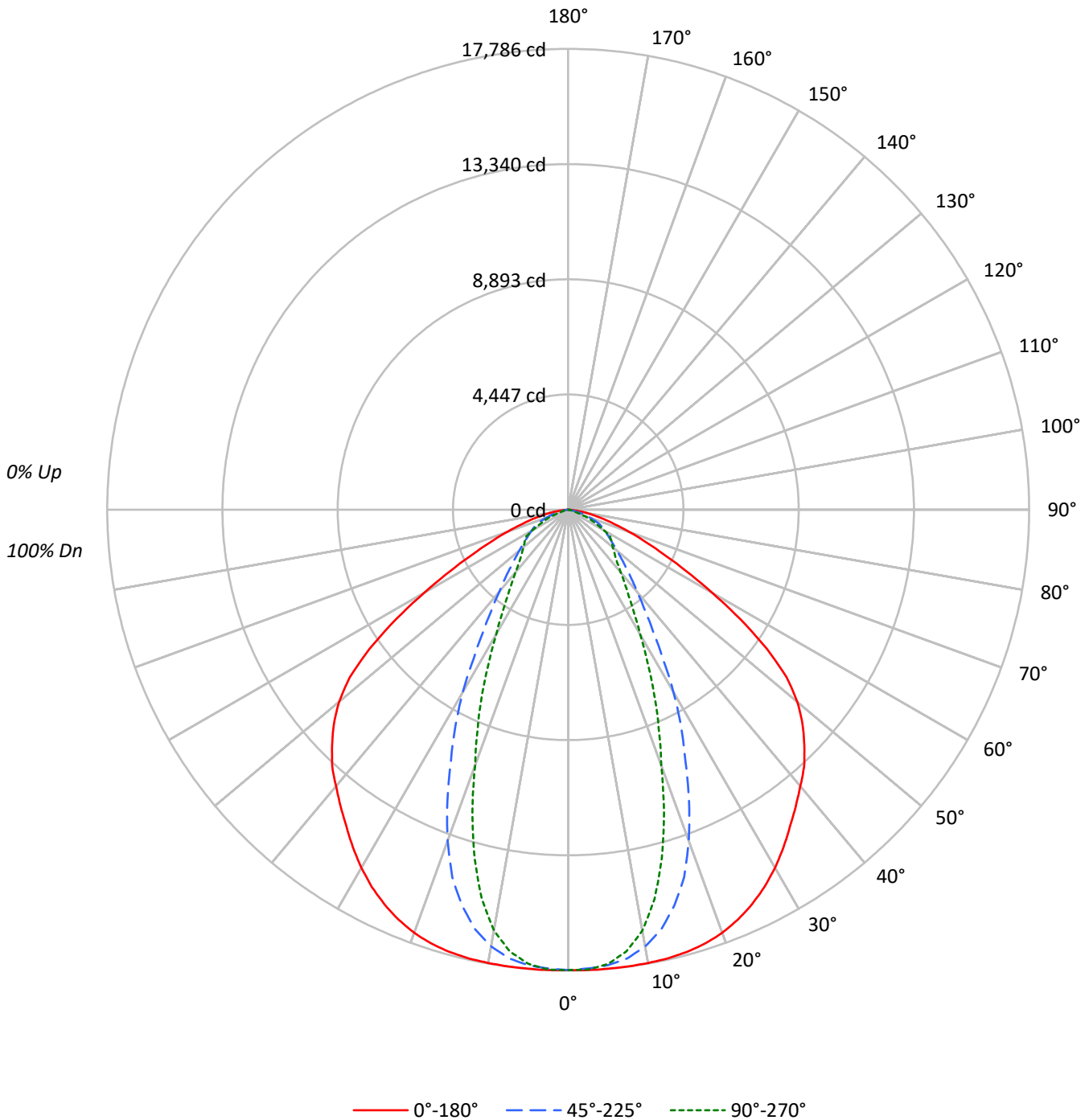
Lumens per Lamp: N/A
Luminaire Lumens: 25059.0 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

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	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°	69028	69028	69028
5°	69352	68826	68626
10°	70081	67506	65041
15°	71080	63603	56081
20°	71846	56190	43419
25°	71990	45883	33644
30°	71586	36442	24901
35°	70769	27004	19363
40°	70658	20970	15981
45°	70807	17257	14196
50°	69802	14925	13540
55°	63367	13305	13681
60°	49819	12715	12466
65°	37002	12324	9382
70°	28380	9866	5727
75°	21602	7037	3160
80°	15862	3273	2550
85°	9922	2813	2269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1669.4	6.7
10°-20°	4394.6	17.5
20°-30°	5307.0	21.2
30°-40°	4745.1	18.9
40°-50°	3715.7	14.8
50°-60°	2807.5	11.2
60°-70°	1667.5	6.7
70°-80°	640.8	2.6
80°-90°	111.3	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°	11371.0	45.4
0°-40°	16116.1	64.3
0°-60°	22639.4	90.3
0°-90°	25059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17769	17769	17769	17769	17769	
5°	17784	17707	17649	17626	17598	###
15°	17674	17091	15814	14492	13944	4994
25°	16795	14820	10704	8440	7849	7733
35°	14922	10619	5694	4440	4083	9358
45°	12888	5491	3141	2654	2584	9921
55°	9356	2980	1964	1957	2020	8216
65°	4025	1673	1341	1118	1021	4148
75°	1439	804	469	232	210	1576
85°	223	78	63	55	51	297
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17768.8	17768.8	17768.8	17768.8	17768.8
2.5°	17785.5	17726.8	17722.2	17759.9	17765.6
5°	17784.3	17706.7	17649.3	17626.0	17598.1
7.5°	17778.8	17661.4	17467.5	17281.3	17194.9
10°	17765.6	17557.2	17113.0	16689.7	16488.0
12.5°	17736.7	17371.1	16586.6	15808.8	15385.5
15°	17673.6	17090.8	15814.4	14492.4	13944.0
17.5°	17559.3	16704.0	14868.1	13002.2	12296.4
20°	17378.8	16212.1	13591.8	11302.6	10502.6
22.5°	17119.5	15569.6	12185.7	9772.4	9133.2
25°	16794.9	14819.5	10704.3	8439.5	7848.9
27.5°	16409.4	13944.0	9427.8	7198.6	6616.8
30°	15958.5	12921.3	8123.8	6026.3	5551.0
32.5°	15454.3	11844.4	6762.1	5132.1	4741.1
35°	14922.4	10619.0	5694.0	4439.7	4082.9
37.5°	14421.5	9307.0	4822.1	3827.1	3576.6
40°	13933.1	7928.8	4135.1	3342.8	3151.2
42.5°	13472.1	6610.3	3609.9	2937.3	2812.0
45°	12888.2	5491.3	3141.1	2653.7	2583.9
47.5°	12268.7	4634.6	2768.8	2423.1	2398.8
50°	11549.6	3947.8	2469.6	2222.7	2240.3
52.5°	10616.7	3404.9	2186.0	2080.7	2132.9
55°	9355.9	2979.5	1964.4	1956.6	2019.9
57.5°	7878.9	2572.8	1789.3	1838.2	1909.0
60°	6412.0	2245.9	1636.5	1707.4	1604.4
62.5°	5122.3	1945.7	1491.4	1361.7	1273.2
65°	4025.4	1673.0	1340.7	1118.0	1020.6
67.5°	3209.9	1419.3	1127.9	889.7	808.8
70°	2498.6	1193.3	868.6	668.1	504.2
72.5°	1914.7	997.3	678.0	380.1	287.0
75°	1439.2	804.4	468.8	231.7	210.5
77.5°	1026.0	597.3	250.3	167.3	155.1
80°	709.0	383.4	146.3	120.8	114.0
82.5°	439.8	185.1	99.8	86.4	80.9
85°	222.6	77.6	63.1	55.3	50.9
87.5°	74.2	37.7	28.7	26.6	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)