

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: P563294

Luminaire Tested: **VHB-30-N-UNV-L950-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563294
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-L950-CD
Description: 30000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 90CRI, 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

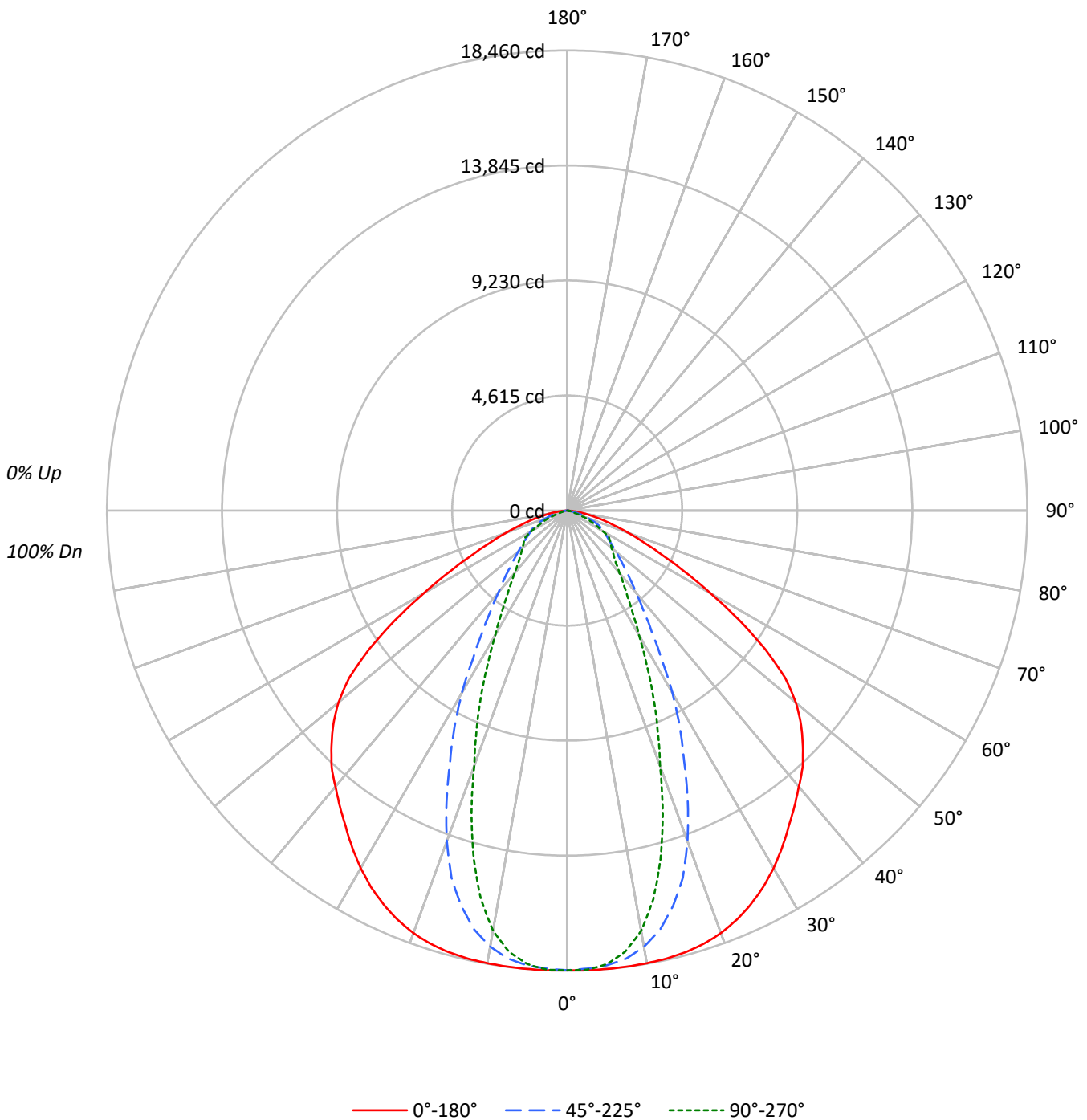
Lumens per Lamp: N/A
Luminaire Lumens: 26009.0 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

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°	71645	71645	71645
5°	71982	71435	71228
10°	72737	70065	67507
15°	73775	66015	58207
20°	74570	58320	45065
25°	74719	47622	34919
30°	74300	37823	25844
35°	73452	28027	20097
40°	73337	21765	16587
45°	73491	17911	14734
50°	72449	15492	14053
55°	65769	13809	14199
60°	51708	13197	12938
65°	38405	12791	9736
70°	29456	10240	5944
75°	22422	7302	3280
80°	16463	3398	2649
85°	10301	2920	2358



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1732.7	6.7
10°-20°	4561.2	17.5
20°-30°	5508.2	21.2
30°-40°	4925.0	18.9
40°-50°	3856.6	14.8
50°-60°	2913.9	11.2
60°-70°	1730.7	6.7
70°-80°	665.1	2.6
80°-90°	115.6	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°	11802.1	45.4
0°-40°	16727.1	64.3
0°-60°	23497.6	90.3
0°-90°	26009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18442	18442	18442	18442	18442	
5°	18458	18378	18318	18294	18265	###
15°	18344	17739	16414	15042	14473	5183
25°	17432	15381	11110	8760	8146	8026
35°	15488	11022	5910	4608	4238	9713
45°	13377	5699	3260	2754	2682	10297
55°	9711	3092	2039	2031	2096	8528
65°	4178	1736	1392	1160	1059	4305
75°	1494	835	486	240	218	1635
85°	231	80	66	57	53	308
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18442.4	18442.4	18442.4	18442.4	18442.4
2.5°	18459.8	18398.9	18394.1	18433.2	18439.1
5°	18458.5	18378.0	18318.3	18294.2	18265.3
7.5°	18452.8	18331.0	18129.7	17936.5	17846.8
10°	18439.1	18222.8	17761.7	17322.4	17113.1
12.5°	18409.1	18029.6	17215.4	16408.1	15968.8
15°	18343.6	17738.7	16414.0	15041.8	14472.6
17.5°	18225.0	17337.2	15431.7	13495.2	12762.5
20°	18037.6	16826.7	14107.0	11731.1	10900.8
22.5°	17768.5	16159.8	12647.6	10142.9	9479.5
25°	17431.7	15381.3	11110.1	8759.5	8146.5
27.5°	17031.5	14472.6	9785.2	7471.5	6867.7
30°	16563.5	13411.2	8431.8	6254.7	5761.4
32.5°	16040.1	12293.4	7018.5	5326.7	4920.9
35°	15488.1	11021.6	5909.8	4608.0	4237.6
37.5°	14968.3	9659.9	5004.9	3972.2	3712.1
40°	14461.3	8229.4	4291.8	3469.5	3270.7
42.5°	13982.8	6860.9	3746.7	3048.7	2918.6
45°	13376.8	5699.4	3260.2	2754.3	2681.8
47.5°	12733.8	4810.3	2873.8	2514.9	2489.7
50°	11987.5	4097.5	2563.3	2306.9	2325.2
52.5°	11019.2	3533.9	2268.8	2159.6	2213.8
55°	9710.6	3092.4	2038.9	2030.8	2096.5
57.5°	8177.6	2670.3	1857.2	1907.9	1981.4
60°	6655.1	2331.1	1698.5	1772.1	1665.2
62.5°	5316.5	2019.5	1548.0	1413.3	1321.4
65°	4178.0	1736.4	1391.5	1160.4	1059.2
67.5°	3331.6	1473.1	1170.7	923.5	839.5
70°	2593.3	1238.5	901.5	693.5	523.3
72.5°	1987.3	1035.1	703.7	394.5	297.9
75°	1493.8	834.9	486.5	240.4	218.5
77.5°	1064.9	619.9	259.8	173.6	161.0
80°	735.9	398.0	151.9	125.3	118.4
82.5°	456.5	192.1	103.6	89.6	84.0
85°	231.1	80.5	65.5	57.4	52.9
87.5°	77.0	39.2	29.8	27.6	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)