

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: P563290

Luminaire Tested: **VHB-30-N-UNV-L840-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563290
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-L840-CD
Description: 30000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 80CRI, 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

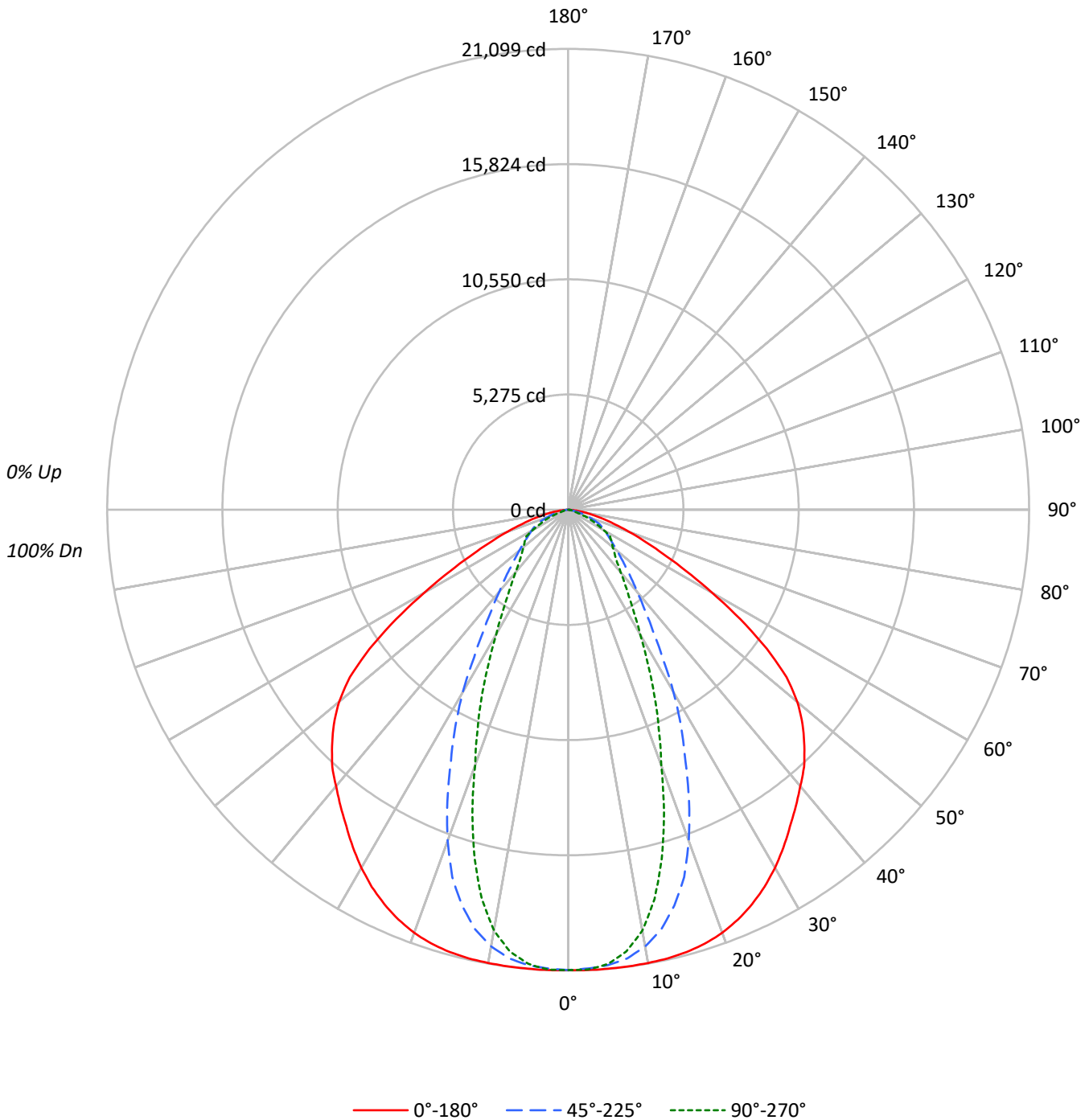
Lumens per Lamp: N/A
Luminaire Lumens: 29727.0 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

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°	81887	81887	81887
5°	82271	81647	81410
10°	83135	80081	77157
15°	84321	75451	66527
20°	85229	66657	51507
25°	85400	54430	39911
30°	84921	43230	29539
35°	83952	32034	22970
40°	83820	24876	18957
45°	83997	20472	16840
50°	82805	17706	16062
55°	75171	15783	16229
60°	59100	15083	14788
65°	43896	14619	11129
70°	33666	11704	6793
75°	25626	8347	3748
80°	18817	3884	3027
85°	11772	3339	2692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1980.4	6.7
10°-20°	5213.2	17.5
20°-30°	6295.5	21.2
30°-40°	5629.0	18.9
40°-50°	4407.9	14.8
50°-60°	3330.5	11.2
60°-70°	1978.1	6.7
70°-80°	760.2	2.6
80°-90°	132.1	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°	13489.2	45.4
0°-40°	19118.2	64.3
0°-60°	26856.6	90.3
0°-90°	29727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29727.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21079	21079	21079	21079	21079	
5°	21097	21005	20937	20909	20876	###
15°	20966	20274	18760	17192	16542	5924
25°	19924	17580	12698	10012	9311	9173
35°	17702	12597	6755	5267	4843	11101
45°	15289	6514	3726	3148	3065	11769
55°	11099	3534	2330	2321	2396	9747
65°	4775	1985	1590	1326	1211	4920
75°	1707	954	556	275	250	1869
85°	264	92	75	66	60	352
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21078.7	21078.7	21078.7	21078.7	21078.7
2.5°	21098.6	21029.0	21023.5	21068.3	21075.0
5°	21097.1	21005.1	20937.0	20909.4	20876.3
7.5°	21090.7	20951.4	20721.3	20500.5	20398.0
10°	21075.0	20827.8	20300.8	19798.7	19559.4
12.5°	21040.7	20606.9	19676.3	18753.6	18251.5
15°	20965.8	20274.4	18760.3	17192.1	16541.5
17.5°	20830.3	19815.6	17637.7	15424.3	14586.9
20°	20616.1	19232.1	16123.6	13408.1	12459.1
22.5°	20308.5	18469.9	14455.6	11592.8	10834.6
25°	19923.5	17580.0	12698.3	10011.6	9311.0
27.5°	19466.2	16541.5	11184.0	8539.6	7849.4
30°	18931.2	15328.3	9637.1	7148.8	6585.0
32.5°	18333.1	14050.7	8021.8	6088.1	5624.3
35°	17702.1	12597.1	6754.7	5266.7	4843.4
37.5°	17108.0	11040.7	5720.3	4540.0	4242.8
40°	16528.5	9405.8	4905.3	3965.5	3738.2
42.5°	15981.6	7841.7	4282.3	3484.5	3335.8
45°	15289.0	6514.2	3726.3	3148.0	3065.2
47.5°	14554.1	5498.0	3284.6	2874.5	2845.6
50°	13701.1	4683.2	2929.7	2636.7	2657.6
52.5°	12594.4	4039.1	2593.2	2468.3	2530.3
55°	11098.7	3534.5	2330.3	2321.1	2396.2
57.5°	9346.6	3052.0	2122.6	2180.6	2264.7
60°	7606.5	2664.3	1941.3	2025.4	1903.3
62.5°	6076.5	2308.2	1769.2	1615.3	1510.3
65°	4775.3	1984.6	1590.4	1326.3	1210.7
67.5°	3807.8	1683.7	1338.0	1055.5	959.5
70°	2964.0	1415.6	1030.4	792.6	598.1
72.5°	2271.4	1183.1	804.3	450.9	340.5
75°	1707.3	954.3	556.1	274.8	249.7
77.5°	1217.1	708.5	296.9	198.5	184.0
80°	841.1	454.9	173.6	143.3	135.3
82.5°	521.8	219.6	118.4	102.5	96.0
85°	264.1	92.0	74.9	65.7	60.4
87.5°	88.0	44.8	34.1	31.6	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)