

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: P563291

Luminaire Tested: **VHB-30-N-UNV-L850-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563291
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-L850-CD
Description: 30000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 80CRI, 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

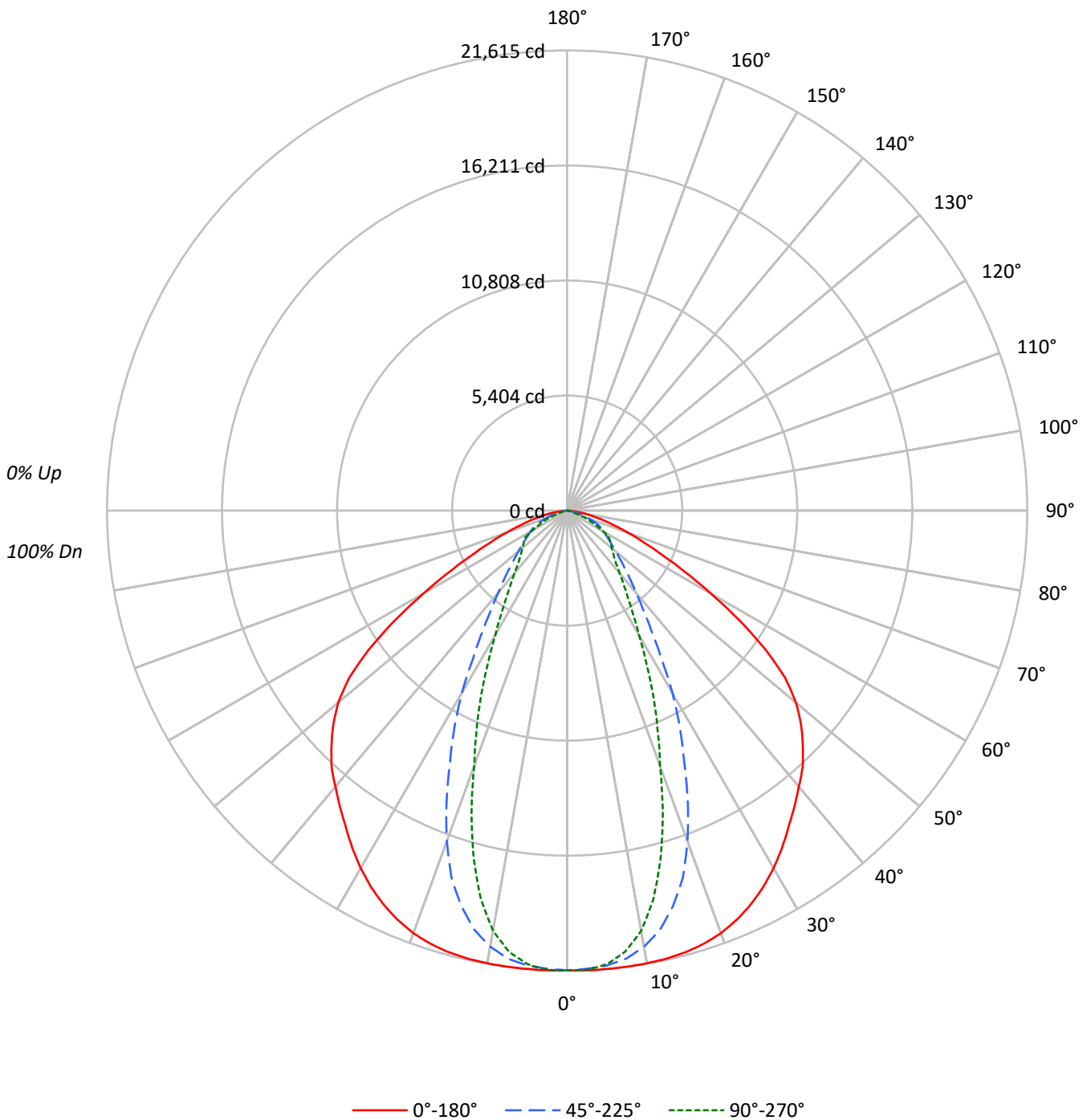
Lumens per Lamp: N/A
Luminaire Lumens: 30455.0 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

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°	83892	83892	83892
5°	84286	83646	83404
10°	85171	82042	79046
15°	86386	77299	68157
20°	87317	68289	52769
25°	87492	55763	40888
30°	87001	44289	30262
35°	86008	32818	23532
40°	85873	25486	19421
45°	86054	20973	17253
50°	84833	18140	16455
55°	77012	16170	16627
60°	60546	15453	15150
65°	44970	14978	11401
70°	34491	11990	6960
75°	26254	8551	3839
80°	19278	3978	3101
85°	12061	3419	2759



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2028.9	6.7
10°-20°	5340.9	17.5
20°-30°	6449.7	21.2
30°-40°	5766.9	18.9
40°-50°	4515.9	14.8
50°-60°	3412.1	11.2
60°-70°	2026.5	6.7
70°-80°	778.8	2.6
80°-90°	135.3	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°	13819.6	45.4
0°-40°	19586.4	64.3
0°-60°	27514.3	90.3
0°-90°	30455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30455.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21595	21595	21595	21595	21595	
5°	21614	21520	21450	21421	21388	###
15°	21479	20771	19220	17613	16947	6069
25°	20411	18011	13009	10257	9539	9398
35°	18136	12906	6920	5396	4962	11373
45°	15663	6674	3818	3225	3140	12057
55°	11370	3621	2387	2378	2455	9985
65°	4892	2033	1629	1359	1240	5041
75°	1749	978	570	282	256	1915
85°	271	94	77	67	62	361
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21594.9	21594.9	21594.9	21594.9	21594.9
2.5°	21615.3	21544.0	21538.4	21584.2	21591.1
5°	21613.8	21519.5	21449.7	21421.4	21387.5
7.5°	21607.2	21464.5	21228.8	21002.5	20897.6
10°	21591.1	21337.8	20797.9	20283.5	20038.4
12.5°	21555.9	21111.6	20158.2	19212.9	18698.5
15°	21479.3	20770.9	19219.8	17613.1	16946.6
17.5°	21340.4	20300.9	18069.7	15802.0	14944.2
20°	21121.0	19703.1	16518.5	13736.5	12764.2
22.5°	20805.8	18922.2	14809.6	11876.8	11099.9
25°	20411.4	18010.6	13009.3	10256.8	9539.1
27.5°	19942.9	16946.6	11457.9	8748.7	8041.7
30°	19394.8	15703.7	9873.1	7323.9	6746.3
32.5°	18782.1	14394.8	8218.2	6237.2	5762.1
35°	18135.7	12905.6	6920.1	5395.7	4962.0
37.5°	17527.0	11311.1	5860.4	4651.2	4346.7
40°	16933.3	9636.1	5025.5	4062.6	3829.7
42.5°	16373.0	8033.8	4387.2	3569.9	3417.5
45°	15663.4	6673.7	3817.5	3225.1	3140.3
47.5°	14910.5	5632.6	3365.0	2944.9	2915.3
50°	14036.6	4797.9	3001.4	2701.3	2722.7
52.5°	12902.8	4138.0	2656.7	2528.8	2592.2
55°	11370.5	3621.1	2387.4	2377.9	2454.9
57.5°	9575.5	3126.8	2174.6	2234.0	2320.1
60°	7792.7	2729.6	1988.9	2075.0	1949.9
62.5°	6225.3	2364.7	1812.6	1654.9	1547.3
65°	4892.2	2033.2	1629.4	1358.8	1240.3
67.5°	3901.1	1724.9	1370.8	1081.3	983.0
70°	3036.6	1450.3	1055.6	812.0	612.8
72.5°	2327.0	1212.0	824.0	461.9	348.8
75°	1749.1	977.6	569.7	281.5	255.8
77.5°	1246.9	725.9	304.2	203.3	188.5
80°	861.7	466.0	177.8	146.8	138.6
82.5°	534.5	225.0	121.3	105.0	98.3
85°	270.6	94.3	76.7	67.3	61.9
87.5°	90.2	45.9	34.9	32.4	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)