

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: P563289

Luminaire Tested: **VHB-30-N-UNV-L835-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563289
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-L835-CD
Description: 30000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 80CRI, 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

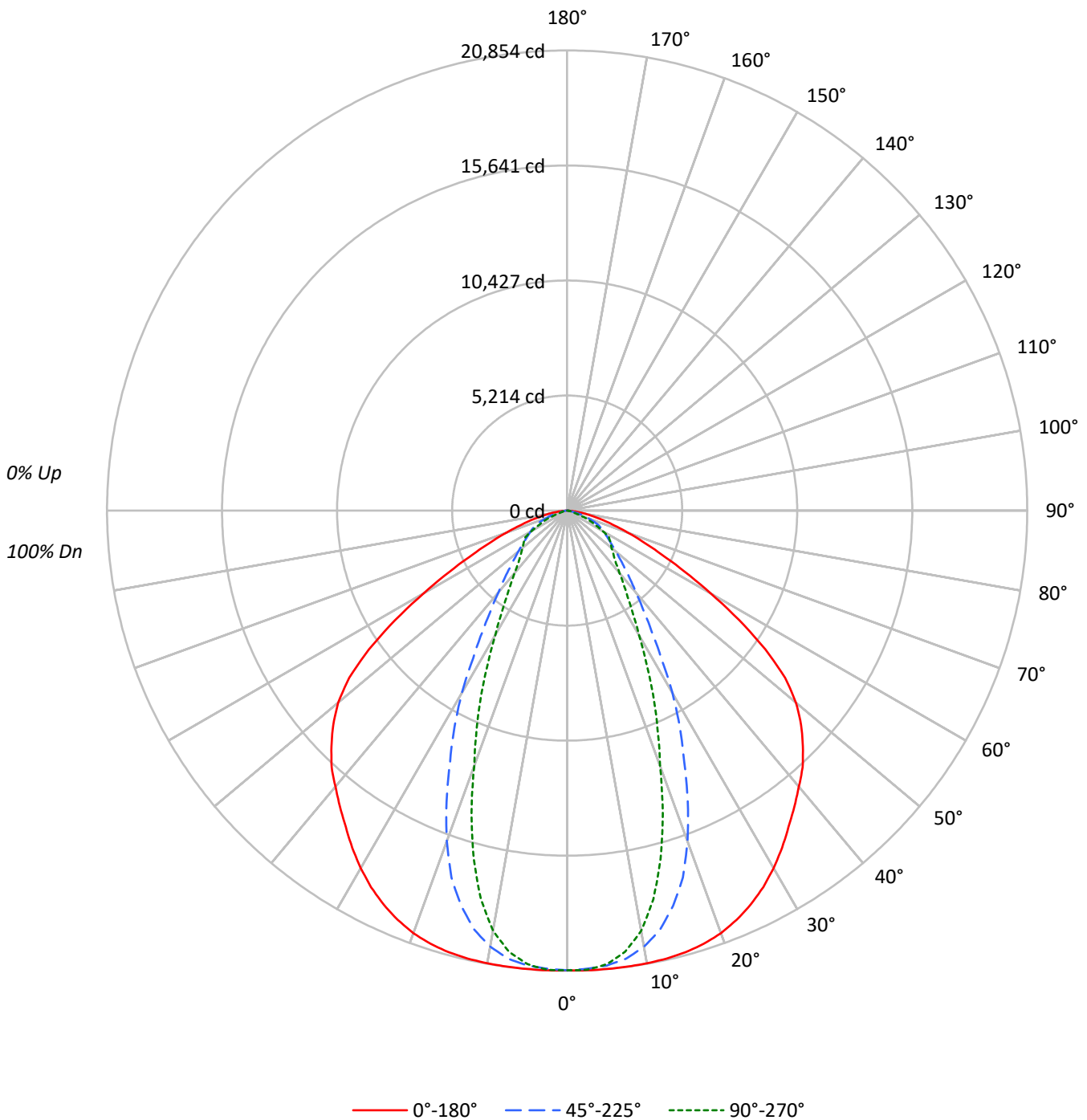
Lumens per Lamp: N/A
Luminaire Lumens: 29383.0 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P563289

CATALOG NUMBER: VHB-30-N-UNV-L835-CD

Luminous Intensity Polar Plot





TEST NUMBER: P563289

CATALOG NUMBER: VHB-30-N-UNV-L835-CD

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°	80939	80939	80939
5°	81319	80702	80468
10°	82173	79155	76264
15°	83345	74578	65757
20°	84243	65886	50911
25°	84412	53800	39449
30°	83938	42730	29197
35°	82980	31663	22704
40°	82851	24588	18738
45°	83025	20235	16645
50°	81847	17501	15876
55°	74301	15600	16042
60°	58415	14909	14617
65°	43387	14450	11000
70°	33277	11567	6715
75°	25330	8251	3704
80°	18600	3839	2991
85°	11638	3298	2661



TEST NUMBER: P563289

CATALOG NUMBER: VHB-30-N-UNV-L835-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1957.5	6.7
10°-20°	5152.9	17.5
20°-30°	6222.7	21.2
30°-40°	5563.9	18.9
40°-50°	4356.9	14.8
50°-60°	3292.0	11.2
60°-70°	1955.2	6.7
70°-80°	751.4	2.6
80°-90°	130.6	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°	13333.1	45.4
0°-40°	18897.0	64.3
0°-60°	26545.9	90.3
0°-90°	29383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29383.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20835	20835	20835	20835	20835	
5°	20853	20762	20695	20667	20635	###
15°	20723	20040	18543	16993	16350	5855
25°	19693	17377	12551	9896	9203	9067
35°	17497	12451	6676	5206	4787	10972
45°	15112	6439	3683	3112	3030	11632
55°	10970	3494	2303	2294	2368	9634
65°	4720	1962	1572	1311	1197	4863
75°	1688	943	550	272	247	1848
85°	261	91	74	65	60	348
90°	0	0	0	0	0	



TEST NUMBER: P563289

CATALOG NUMBER: VHB-30-N-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20834.8	20834.8	20834.8	20834.8	20834.8
2.5°	20854.5	20785.6	20780.2	20824.5	20831.1
5°	20853.0	20762.0	20694.7	20667.4	20634.7
7.5°	20846.6	20708.9	20481.6	20263.3	20162.0
10°	20831.1	20586.8	20065.9	19569.6	19333.1
12.5°	20797.2	20368.5	19448.6	18536.6	18040.3
15°	20723.2	20039.8	18543.3	16993.1	16350.0
17.5°	20589.2	19586.3	17433.6	15245.8	14418.1
20°	20377.6	19009.6	15937.1	13252.9	12314.9
22.5°	20073.5	18256.1	14288.3	11458.7	10709.2
25°	19693.0	17376.6	12551.4	9895.8	9203.3
27.5°	19240.9	16350.0	11054.6	8440.8	7758.6
30°	18712.1	15150.9	9525.6	7066.1	6508.8
32.5°	18120.9	13888.1	7929.0	6017.7	5559.2
35°	17497.3	12451.3	6676.5	5205.7	4787.4
37.5°	16910.0	10913.0	5654.1	4487.5	4193.7
40°	16337.3	9296.9	4848.6	3919.6	3694.9
42.5°	15796.7	7751.0	4232.8	3444.2	3297.2
45°	15112.1	6438.8	3683.1	3111.6	3029.7
47.5°	14385.7	5434.4	3246.6	2841.2	2812.7
50°	13542.5	4629.1	2895.8	2606.2	2626.8
52.5°	12448.6	3992.4	2563.2	2439.8	2501.0
55°	10970.3	3493.6	2303.3	2294.2	2368.5
57.5°	9238.4	3016.7	2098.1	2155.4	2238.4
60°	7518.4	2633.5	1918.9	2002.0	1881.3
62.5°	6006.1	2281.5	1748.8	1596.6	1492.9
65°	4720.0	1961.7	1572.0	1311.0	1196.7
67.5°	3763.8	1664.2	1322.5	1043.3	948.4
70°	2929.7	1399.2	1018.4	783.4	591.2
72.5°	2245.1	1169.4	795.0	445.7	336.5
75°	1687.6	943.2	549.7	271.6	246.8
77.5°	1203.0	700.3	293.5	196.2	181.9
80°	831.4	449.6	171.6	141.6	133.7
82.5°	515.7	217.1	117.0	101.3	94.9
85°	261.1	91.0	74.0	64.9	59.7
87.5°	87.0	44.2	33.7	31.2	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)