

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: P563316

Luminaire Tested: **VHB-9-N-UNV-L835-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563316
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-9-N-UNV-L835-CD
Description: 9000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 80CRI, 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

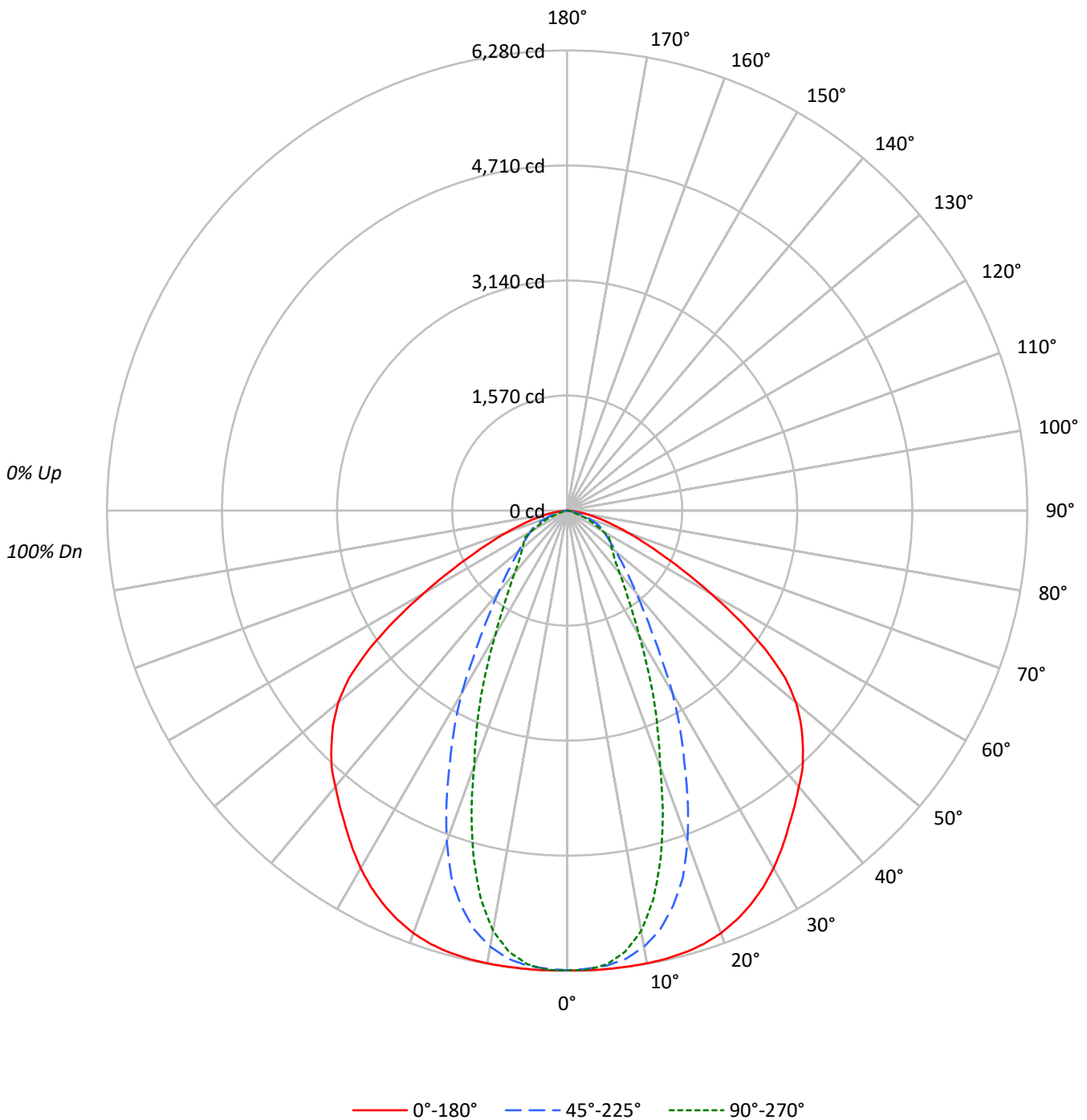
Lumens per Lamp: N/A
Luminaire Lumens: 8849.0 lumens
Efficiency: N/A
Efficacy: 158.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 56
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°	36563	36563	36563
5°	36735	36456	36351
10°	37121	35757	34452
15°	37650	33690	29705
20°	38056	29763	22999
25°	38132	24304	17821
30°	37919	19302	13190
35°	37486	14303	10257
40°	37426	11108	8465
45°	37506	9141	7519
50°	36974	7906	7172
55°	33565	7048	7247
60°	26389	6735	6603
65°	19600	6527	4969
70°	15032	5225	3033
75°	11442	3726	1673
80°	8403	1735	1352
85°	5255	1491	1203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.5	6.7
10°-20°	1551.9	17.5
20°-30°	1874.0	21.2
30°-40°	1675.6	18.9
40°-50°	1312.1	14.8
50°-60°	991.4	11.2
60°-70°	588.8	6.7
70°-80°	226.3	2.6
80°-90°	39.3	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°	4015.4	45.4
0°-40°	5691.0	64.3
0°-60°	7994.6	90.3
0°-90°	8849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6275	6275	6275	6275	6275	
5°	6280	6253	6232	6224	6214	599
15°	6241	6035	5584	5118	4924	1763
25°	5931	5233	3780	2980	2772	2731
35°	5270	3750	2011	1568	1442	3304
45°	4551	1939	1109	937	912	3503
55°	3304	1052	694	691	713	2901
65°	1422	591	473	395	360	1465
75°	508	284	166	82	74	556
85°	79	27	22	20	18	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6274.6	6274.6	6274.6	6274.6	6274.6
2.5°	6280.5	6259.8	6258.2	6271.5	6273.5
5°	6280.1	6252.7	6232.4	6224.2	6214.4
7.5°	6278.2	6236.7	6168.2	6102.5	6072.0
10°	6273.5	6199.9	6043.0	5893.6	5822.4
12.5°	6263.3	6134.2	5857.2	5582.5	5433.0
15°	6241.0	6035.2	5584.5	5117.7	4924.0
17.5°	6200.7	5898.6	5250.3	4591.4	4342.2
20°	6136.9	5724.9	4799.6	3991.3	3708.8
22.5°	6045.3	5498.0	4303.1	3450.9	3225.2
25°	5930.7	5233.1	3780.0	2980.2	2771.7
27.5°	5794.6	4924.0	3329.2	2542.0	2336.6
30°	5635.4	4562.9	2868.7	2128.0	1960.2
32.5°	5457.3	4182.6	2387.9	1812.3	1674.2
35°	5269.5	3749.8	2010.7	1567.8	1441.8
37.5°	5092.6	3286.6	1702.8	1351.4	1263.0
40°	4920.1	2799.9	1460.2	1180.4	1112.8
42.5°	4757.3	2334.3	1274.7	1037.3	993.0
45°	4551.2	1939.1	1109.2	937.1	912.4
47.5°	4332.4	1636.6	977.7	855.7	847.1
50°	4078.5	1394.1	872.1	784.9	791.1
52.5°	3749.0	1202.3	771.9	734.8	753.2
55°	3303.8	1052.1	693.7	690.9	713.3
57.5°	2782.3	908.5	631.9	649.1	674.1
60°	2264.3	793.1	577.9	602.9	566.6
62.5°	1808.8	687.1	526.7	480.8	449.6
65°	1421.5	590.8	473.4	394.8	360.4
67.5°	1133.5	501.2	398.3	314.2	285.6
70°	882.3	421.4	306.7	235.9	178.0
72.5°	676.1	352.2	239.4	134.2	101.3
75°	508.2	284.1	165.5	81.8	74.3
77.5°	362.3	210.9	88.4	59.1	54.8
80°	250.4	135.4	51.7	42.6	40.3
82.5°	155.3	65.4	35.2	30.5	28.6
85°	78.6	27.4	22.3	19.5	18.0
87.5°	26.2	13.3	10.1	9.4	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)