

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: P563321

Luminaire Tested: **VHB-9-N-UNV-L950-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563321
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-L950-CD
Description: 9000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 90CRI, 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

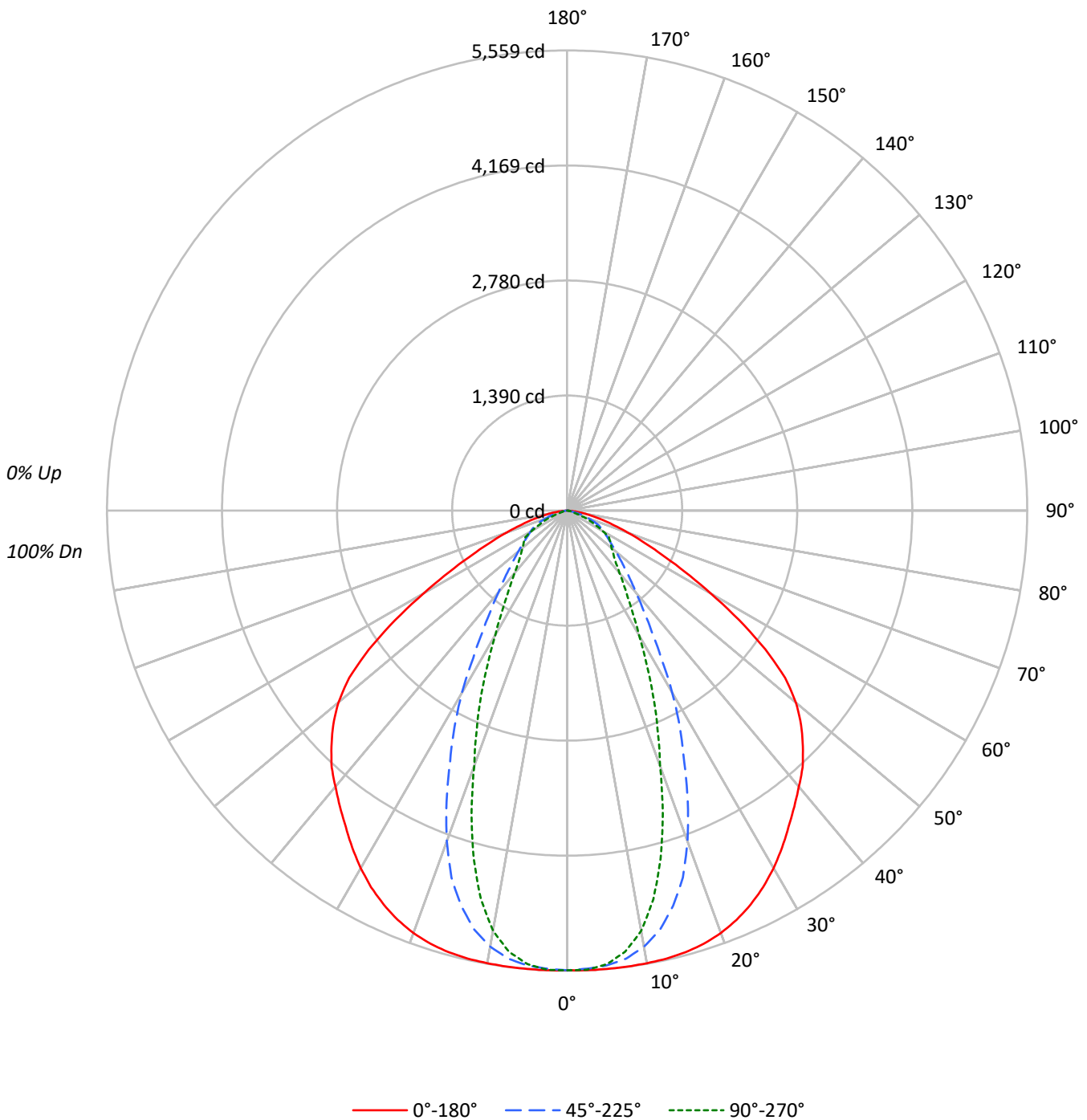
Lumens per Lamp: N/A
Luminaire Lumens: 7832.0 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

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°	32361	32361	32361
5°	32513	32266	32173
10°	32855	31648	30492
15°	33323	29818	26291
20°	33682	26343	20355
25°	33750	21511	15772
30°	33561	17084	11674
35°	33178	12660	9078
40°	33126	9831	7492
45°	33195	8090	6655
50°	32724	6998	6348
55°	29707	6238	6414
60°	23355	5961	5844
65°	17347	5777	4398
70°	13305	4626	2685
75°	10127	3298	1481
80°	7436	1534	1195
85°	4653	1317	1063



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.8	6.7
10°-20°	1373.5	17.5
20°-30°	1658.7	21.2
30°-40°	1483.0	18.9
40°-50°	1161.3	14.8
50°-60°	877.5	11.2
60°-70°	521.2	6.7
70°-80°	200.3	2.6
80°-90°	34.8	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°	3553.9	45.4
0°-40°	5037.0	64.3
0°-60°	7075.8	90.3
0°-90°	7832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5554	5554	5554	5554	5554	
5°	5558	5534	5516	5509	5500	530
15°	5524	5342	4943	4530	4358	1561
25°	5249	4632	3346	2638	2453	2417
35°	4664	3319	1780	1388	1276	2925
45°	4028	1716	982	829	808	3101
55°	2924	931	614	612	631	2568
65°	1258	523	419	349	319	1296
75°	450	251	146	72	66	492
85°	70	24	20	17	16	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5553.5	5553.5	5553.5	5553.5	5553.5
2.5°	5558.7	5540.4	5538.9	5550.7	5552.5
5°	5558.3	5534.1	5516.1	5508.9	5500.2
7.5°	5556.6	5519.9	5459.3	5401.1	5374.2
10°	5552.5	5487.4	5348.5	5216.2	5153.2
12.5°	5543.5	5429.2	5184.0	4940.9	4808.6
15°	5523.7	5341.6	4942.7	4529.5	4358.1
17.5°	5488.0	5220.7	4646.9	4063.8	3843.1
20°	5431.6	5067.0	4248.0	3532.6	3282.5
22.5°	5350.6	4866.1	3808.5	3054.3	2854.5
25°	5249.1	4631.7	3345.6	2637.7	2453.1
27.5°	5128.6	4358.1	2946.6	2249.9	2068.0
30°	4987.7	4038.5	2539.0	1883.5	1734.9
32.5°	4830.1	3701.9	2113.5	1604.0	1481.8
35°	4663.9	3318.9	1779.6	1387.6	1276.1
37.5°	4507.3	2908.8	1507.1	1196.1	1117.8
40°	4354.7	2478.1	1292.4	1044.8	984.9
42.5°	4210.6	2066.0	1128.2	918.0	878.9
45°	4028.1	1716.3	981.7	829.4	807.6
47.5°	3834.5	1448.5	865.4	757.3	749.7
50°	3609.7	1233.9	771.9	694.7	700.2
52.5°	3318.2	1064.2	683.2	650.3	666.6
55°	2924.1	931.2	614.0	611.5	631.3
57.5°	2462.5	804.1	559.2	574.5	596.7
60°	2004.0	702.0	511.5	533.6	501.4
62.5°	1600.9	608.1	466.1	425.6	397.9
65°	1258.1	522.9	419.0	349.4	319.0
67.5°	1003.2	443.6	352.5	278.1	252.8
70°	780.9	373.0	271.5	208.8	157.6
72.5°	598.4	311.7	211.9	118.8	89.7
75°	449.8	251.4	146.5	72.4	65.8
77.5°	320.7	186.7	78.2	52.3	48.5
80°	221.6	119.8	45.7	37.7	35.6
82.5°	137.5	57.9	31.2	27.0	25.3
85°	69.6	24.2	19.7	17.3	15.9
87.5°	23.2	11.8	9.0	8.3	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)