

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: P563266

Luminaire Tested: **VHB-15-N-UNV-L940-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563266
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-15-N-UNV-L940-CD
Description: 15000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 90CRI, 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

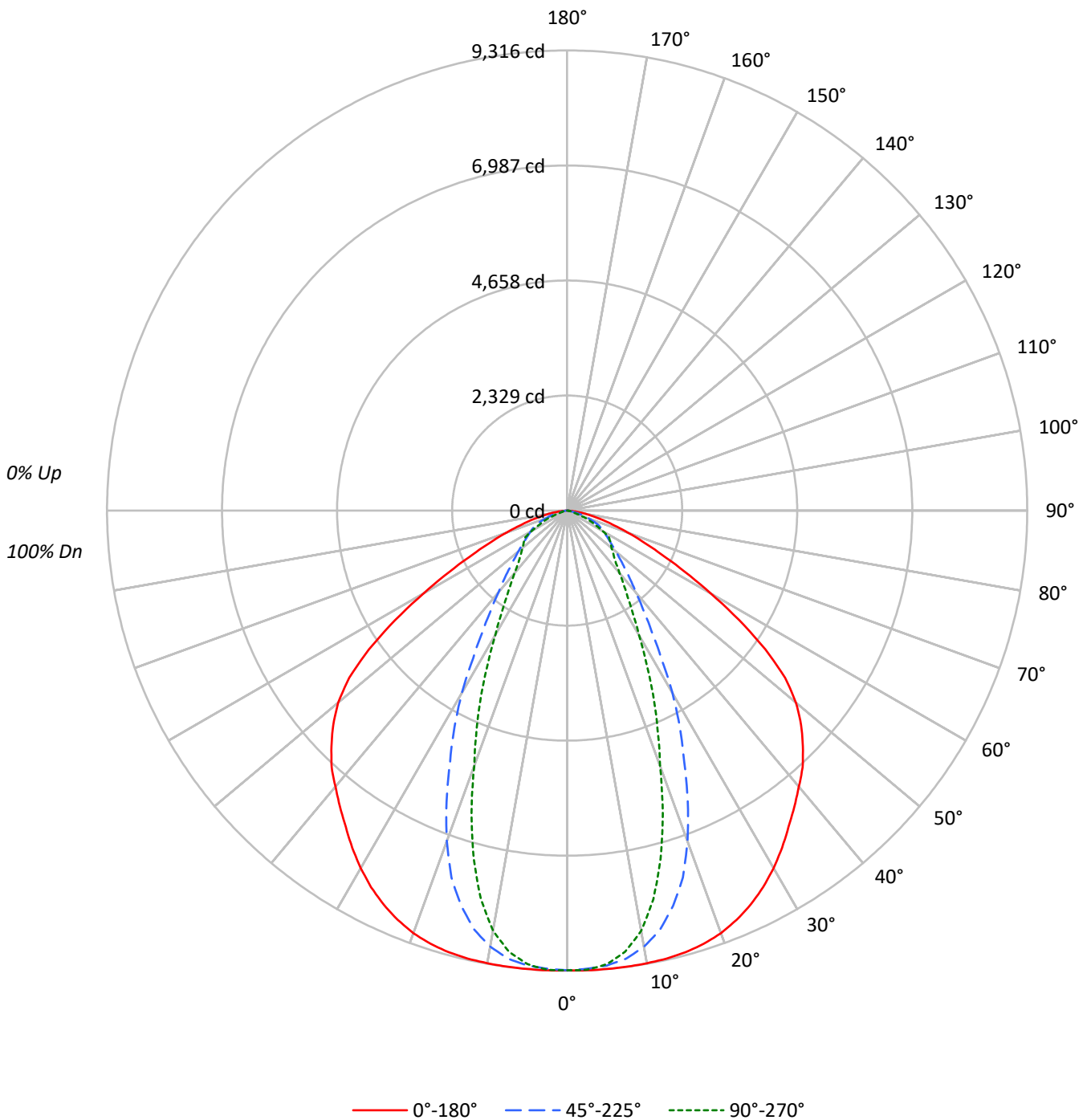
Lumens per Lamp: N/A
Luminaire Lumens: 13126.0 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 104
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: P563266

CATALOG NUMBER: VHB-15-N-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P563266

CATALOG NUMBER: VHB-15-N-UNV-L940-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°	54235	54235	54235
5°	54491	54076	53920
10°	55063	53040	51103
15°	55848	49973	44063
20°	56450	44149	34114
25°	56563	36051	26434
30°	56246	28632	19564
35°	55603	21217	15213
40°	55516	16476	12556
45°	55633	13559	11153
50°	54844	11727	10638
55°	49787	10454	10750
60°	39142	9990	9794
65°	29073	9684	7371
70°	22299	7752	4500
75°	16974	5527	2483
80°	12463	2570	2003
85°	7796	2213	1785



TEST NUMBER: P563266

CATALOG NUMBER: VHB-15-N-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	874.5	6.7
10°-20°	2301.9	17.5
20°-30°	2779.8	21.2
30°-40°	2485.5	18.9
40°-50°	1946.3	14.8
50°-60°	1470.6	11.2
60°-70°	873.4	6.7
70°-80°	335.7	2.6
80°-90°	58.3	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°	5956.2	45.4
0°-40°	8441.7	64.3
0°-60°	11858.6	90.3
0°-90°	13126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13126.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9307	9307	9307	9307	9307	
5°	9316	9275	9245	9233	9218	889
15°	9258	8952	8284	7591	7304	2616
25°	8797	7762	5607	4421	4111	4051
35°	7816	5562	2982	2326	2139	4902
45°	6751	2876	1645	1390	1353	5196
55°	4901	1561	1029	1025	1058	4304
65°	2108	876	702	586	535	2173
75°	754	421	246	121	110	825
85°	117	41	33	29	27	155
90°	0	0	0	0	0	



TEST NUMBER: P563266

CATALOG NUMBER: VHB-15-N-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9307.3	9307.3	9307.3	9307.3	9307.3
2.5°	9316.1	9285.4	9283.0	9302.7	9305.7
5°	9315.5	9274.8	9244.7	9232.6	9218.0
7.5°	9312.6	9251.1	9149.5	9052.0	9006.8
10°	9305.7	9196.5	8963.8	8742.1	8636.5
12.5°	9290.5	9099.0	8688.1	8280.7	8059.0
15°	9257.5	8952.2	8283.7	7591.2	7303.9
17.5°	9197.6	8749.6	7788.0	6810.6	6440.9
20°	9103.1	8492.0	7119.4	5920.4	5501.3
22.5°	8967.2	8155.4	6382.9	5118.8	4784.0
25°	8797.3	7762.5	5607.0	4420.6	4111.3
27.5°	8595.3	7303.9	4938.3	3770.7	3465.9
30°	8359.1	6768.2	4255.3	3156.6	2907.6
32.5°	8095.0	6204.1	3542.0	2688.2	2483.4
35°	7816.4	5562.3	2982.5	2325.5	2138.6
37.5°	7554.1	4875.1	2525.8	2004.6	1873.4
40°	7298.2	4153.1	2166.0	1751.0	1650.6
42.5°	7056.7	3462.5	1890.9	1538.6	1472.9
45°	6750.9	2876.3	1645.3	1390.0	1353.4
47.5°	6426.4	2427.6	1450.3	1269.2	1256.5
50°	6049.7	2067.9	1293.6	1164.2	1173.5
52.5°	5561.1	1783.5	1145.0	1089.9	1117.2
55°	4900.6	1560.7	1029.0	1024.9	1058.1
57.5°	4127.0	1347.6	937.3	962.8	1000.0
60°	3358.6	1176.4	857.2	894.3	840.4
62.5°	2683.1	1019.2	781.2	713.2	666.9
65°	2108.5	876.3	702.3	585.6	534.6
67.5°	1681.4	743.4	590.8	466.0	423.7
70°	1308.8	625.1	455.0	350.0	264.1
72.5°	1002.9	522.4	355.1	199.1	150.3
75°	753.9	421.4	245.5	121.3	110.3
77.5°	537.4	312.9	131.1	87.6	81.3
80°	371.4	200.8	76.6	63.3	59.7
82.5°	230.4	97.0	52.3	45.2	42.4
85°	116.6	40.6	33.1	29.0	26.7
87.5°	38.9	19.8	15.0	13.9	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)