

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: P563351

Luminaire Tested: **VHB-24-W-UNV-L750-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364417)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-24-W-UNV-L750-CD
Description: 24000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 70CRI, 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

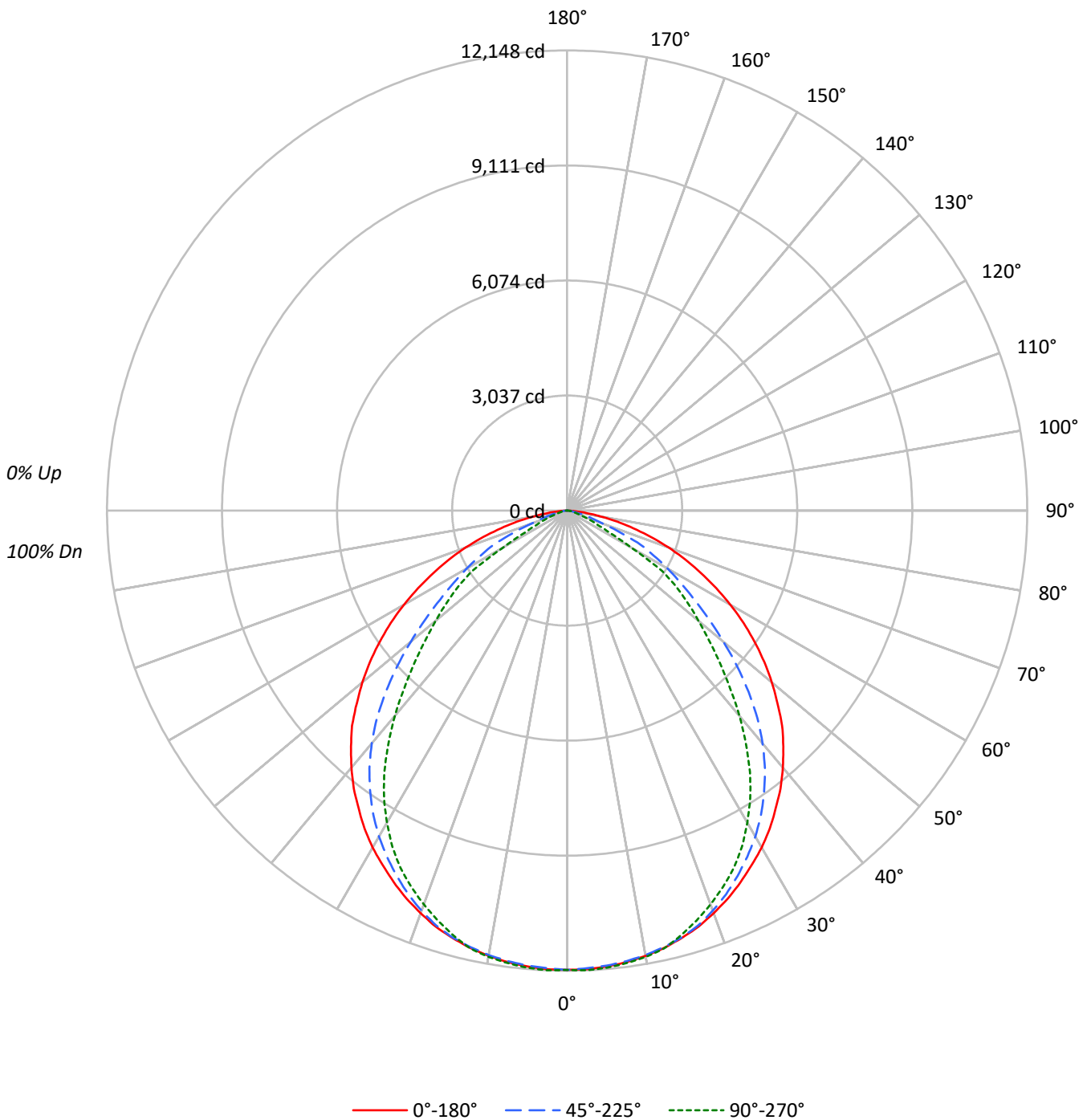
Lumens per Lamp: N/A
Luminaire Lumens: 27273.0 lumens
Efficiency: N/A
Efficacy: 165.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 165
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: P563351

CATALOG NUMBER: VHB-24-W-UNV-L750-CD

Luminous Intensity Polar Plot





TEST NUMBER: P563351

CATALOG NUMBER: VHB-24-W-UNV-L750-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	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89					87				
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77					75				
3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67					65				
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59					57				
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52					50				
6	74	62	53	48	72	61	53	47	59	52	47	57	51	47	56	50	46					44				
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41					39				
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37					36				
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34					32				
10	57	44	36	31	55	43	36	31	42	36	31	42	35	31	41	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	70658	70658	70658
5°	70668	70524	70848
10°	70643	70490	70781
15°	70475	70402	70038
20°	70135	69701	68612
25°	69615	68431	66930
30°	69109	66854	63995
35°	68286	64511	59837
40°	67386	61043	53839
45°	66160	55827	47042
50°	63975	48877	41095
55°	61364	41636	35873
60°	57969	35711	22901
65°	53715	29787	12141
70°	48482	16929	7868
75°	40729	10370	4895
80°	30953	5235	4285
85°	18808	4760	3864



TEST NUMBER: P563351

CATALOG NUMBER: VHB-24-W-UNV-L750-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1148.0	4.2
10°-20°	3284.4	12.0
20°-30°	4895.9	18.0
30°-40°	5638.5	20.7
40°-50°	5247.4	19.2
50°-60°	3992.9	14.6
60°-70°	2143.3	7.9
70°-80°	788.5	2.9
80°-90°	134.1	0.5
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°	9328.3	34.2
0°-40°	14966.7	54.9
0°-60°	24207.1	88.8
0°-90°	27273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12126	12126	12126	12126	12126	
5°	12081	12047	12057	12098	12112	###
15°	11682	11664	11670	11648	11610	3297
25°	10827	10819	10643	10492	10410	4991
35°	9599	9482	9069	8613	8412	6009
45°	8028	7642	6774	5970	5708	6170
55°	6040	5357	4098	3649	3531	5395
65°	3896	2862	2160	1070	880	3863
75°	1809	1185	461	238	217	1939
85°	281	91	71	61	58	375
90°	0	0	0	0	0	



TEST NUMBER: P563351

CATALOG NUMBER: VHB-24-W-UNV-L750-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12125.5	12125.5	12125.5	12125.5	12125.5
2.5°	12116.8	12080.0	12092.4	12131.6	12147.6
5°	12081.2	12046.8	12056.6	12098.5	12112.0
7.5°	12022.3	11989.2	11996.6	12035.8	12049.4
10°	11938.8	11904.5	11913.0	11951.0	11962.1
12.5°	11825.7	11793.9	11801.3	11828.3	11840.5
15°	11682.1	11663.6	11669.9	11647.7	11609.7
17.5°	11521.3	11494.2	11486.8	11388.6	11348.0
20°	11310.0	11300.2	11240.0	11118.4	11064.3
22.5°	11087.7	11069.2	10964.8	10818.7	10753.6
25°	10827.3	10818.7	10643.2	10492.0	10409.7
27.5°	10547.4	10526.4	10300.4	10111.4	9999.5
30°	10270.9	10219.4	9935.7	9670.4	9510.8
32.5°	9957.8	9860.7	9521.8	9182.9	8998.7
35°	9599.2	9482.5	9068.6	8612.9	8411.5
37.5°	9251.6	9076.0	8577.3	8007.5	7749.6
40°	8858.6	8606.8	8024.7	7362.7	7077.7
42.5°	8444.7	8137.6	7436.4	6666.4	6374.0
45°	8028.3	7641.6	6774.4	5970.0	5708.4
47.5°	7533.4	7123.3	6086.7	5305.6	5080.8
50°	7057.0	6578.0	5391.5	4686.7	4533.1
52.5°	6558.3	5977.4	4716.1	4163.4	4014.8
55°	6040.1	5357.1	4098.3	3648.8	3531.0
57.5°	5519.2	4719.8	3550.6	3180.9	2969.7
60°	4974.0	4087.2	3064.2	2585.2	1965.0
62.5°	4437.3	3428.9	2579.1	1621.1	1250.2
65°	3895.7	2861.5	2160.3	1069.7	880.5
67.5°	3378.7	2312.7	1541.3	774.9	659.5
70°	2845.6	1891.3	993.6	555.1	461.8
72.5°	2311.4	1521.7	681.7	364.8	295.9
75°	1809.0	1185.2	460.6	238.3	217.4
77.5°	1355.8	817.9	256.6	176.8	165.8
80°	922.4	490.1	156.0	135.1	127.7
82.5°	552.7	234.6	113.0	99.5	95.8
85°	281.3	90.8	71.2	61.3	57.8
87.5°	83.6	45.4	31.9	24.6	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)