

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: P563371

Luminaire Tested: **VHB-36-W-UNV-L840-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563371
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-36-W-UNV-L840-CD
Description: 36000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 80CRI, 4000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

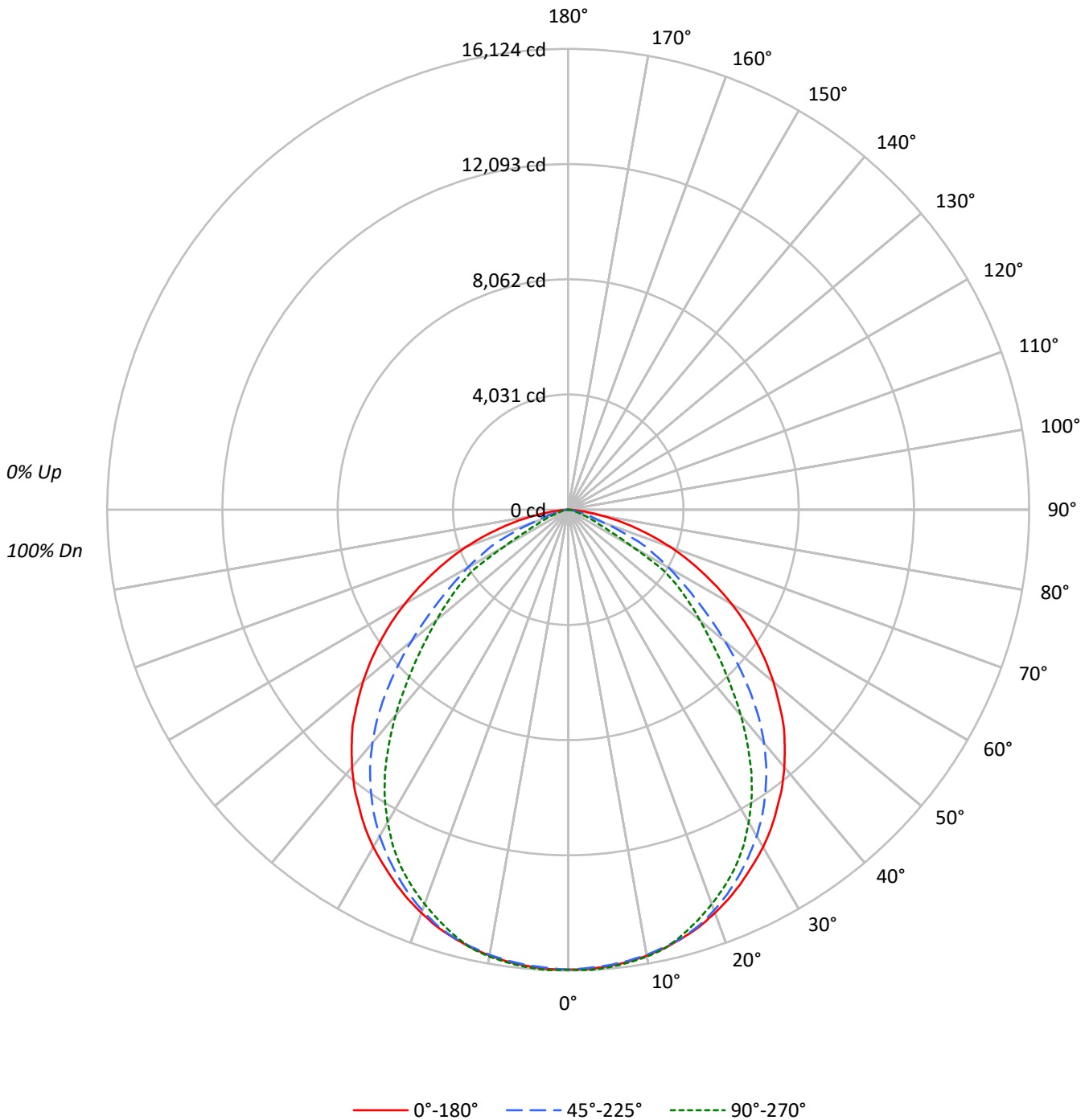
Lumens per Lamp: N/A
Luminaire Lumens: 36201.0 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 246
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	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°	62526	62526	62526
5°	62535	62408	62694
10°	62512	62377	62634
15°	62364	62299	61977
20°	62063	61679	60715
25°	61603	60555	59227
30°	61156	59159	56629
35°	60427	57086	52950
40°	59630	54017	47643
45°	58546	49402	41628
50°	56612	43252	36365
55°	54301	36845	31744
60°	51297	31601	20265
65°	47532	26359	10744
70°	42902	14979	6962
75°	36041	9177	4330
80°	27390	4633	3792
85°	16639	4212	3419



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1523.8	4.2
10°-20°	4359.5	12.0
20°-30°	6498.6	18.0
30°-40°	7484.2	20.7
40°-50°	6965.2	19.2
50°-60°	5300.0	14.6
60°-70°	2844.9	7.9
70°-80°	1046.7	2.9
80°-90°	178.0	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°	12381.9	34.2
0°-40°	19866.2	54.9
0°-60°	32131.4	88.8
0°-90°	36201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	36201.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16095	16095	16095	16095	16095	
5°	16036	15990	16003	16059	16077	###
15°	15506	15482	15490	15461	15410	4377
25°	14372	14360	14127	13927	13817	6625
35°	12742	12587	12037	11432	11165	7976
45°	10656	10143	8992	7924	7577	8189
55°	8017	7111	5440	4843	4687	7161
65°	5171	3798	2868	1420	1169	5128
75°	2401	1573	611	316	288	2574
85°	373	120	94	81	77	498
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16094.9	16094.9	16094.9	16094.9	16094.9
2.5°	16083.4	16034.4	16050.9	16103.0	16124.2
5°	16036.1	15990.4	16003.4	16059.0	16076.9
7.5°	15957.9	15913.9	15923.7	15975.9	15993.8
10°	15847.0	15801.5	15812.8	15863.2	15878.0
12.5°	15697.0	15654.7	15664.5	15700.4	15716.6
15°	15506.3	15481.8	15490.1	15460.6	15410.2
17.5°	15292.8	15256.9	15247.1	15116.7	15062.9
20°	15012.4	14999.4	14919.5	14758.1	14686.3
22.5°	14717.3	14692.8	14554.3	14360.2	14273.9
25°	14371.8	14360.2	14127.3	13926.6	13817.4
27.5°	14000.1	13972.3	13672.3	13421.4	13272.9
30°	13633.2	13564.8	13188.2	12836.0	12624.2
32.5°	13217.5	13088.7	12638.8	12188.9	11944.4
35°	12741.6	12586.6	12037.2	11432.4	11165.1
37.5°	12280.2	12047.0	11385.2	10628.8	10286.5
40°	11758.5	11424.3	10651.7	9772.9	9394.7
42.5°	11209.1	10801.5	9870.8	8848.6	8460.6
45°	10656.4	10143.1	8992.1	7924.3	7577.1
47.5°	9999.5	9455.1	8079.3	7042.4	6744.0
50°	9367.1	8731.3	7156.5	6220.9	6017.0
52.5°	8705.2	7934.2	6260.0	5526.3	5329.1
55°	8017.3	7110.8	5440.0	4843.3	4686.9
57.5°	7326.0	6264.9	4712.9	4222.3	3941.9
60°	6602.3	5425.2	4067.3	3431.5	2608.3
62.5°	5889.8	4551.4	3423.4	2151.8	1659.5
65°	5170.9	3798.3	2867.5	1419.9	1168.8
67.5°	4484.7	3069.7	2045.8	1028.6	875.4
70°	3777.1	2510.5	1318.8	736.9	612.9
72.5°	3068.0	2019.8	904.8	484.3	392.8
75°	2401.2	1573.1	611.4	316.3	288.5
77.5°	1799.7	1085.7	340.7	234.7	220.1
80°	1224.3	650.5	207.1	179.3	169.5
82.5°	733.7	311.4	150.0	132.1	127.2
85°	373.3	120.5	94.5	81.4	76.7
87.5°	110.9	60.3	42.3	32.7	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)