

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P600915

Luminaire Tested: UHBS-18-MV-L840-U 347V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ()
Test Lab: INNOVATION CENTER
Issue Date: 8/26/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: UHBS-18-MV-L840-U 347V
Description: UHB Round Select AT 18000 LUMEN SETTING AND 4000K
Light Source: -
Ballast/Driver: -

Summary

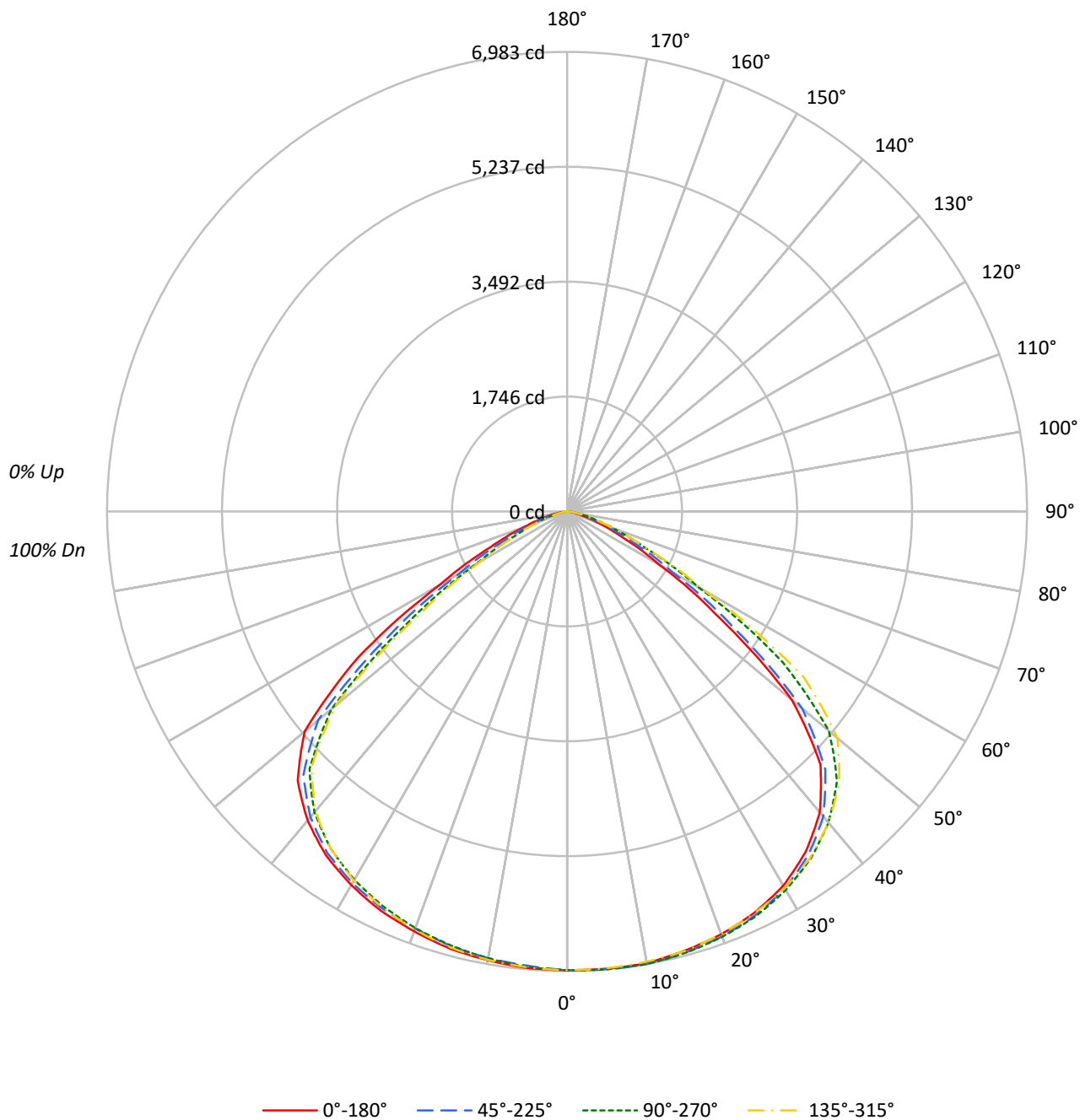
Lumens per Lamp: 18550 (1 lamp)
Luminaire Lumens: 18550.0 lumens
Efficiency: 100.0%
Efficacy: 152.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.4 / 1.5
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 122
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: 24 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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78
3	94	84	77	71	91	83	76	71	80	74	70	77	73	68	75	71	67
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	95517	95517	95517	95517
5°	95922	96049	95780	95541
10°	96974	97145	96365	95930
15°	97997	98514	97560	96839
20°	99724	100323	99012	98219
25°	101728	102584	101212	100026
30°	103912	105094	103712	102236
35°	105645	107806	106732	104626
40°	106777	110409	109627	106727
45°	105426	112297	112074	107135
50°	95072	110647	110858	99474
55°	67603	95523	92568	70604
60°	44191	63227	60974	43209
65°	29760	42404	41331	27707
70°	19454	29268	28058	18344
75°	12491	19884	18427	11258
80°	6306	12194	11255	5927
85°	7894	5897	5975	7847

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 150°

Vertical Angle: 50°

Luminance: 114461 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	663.6	3.6	3.6
10°-20°	1948.3	10.5	10.5
20°-30°	3093.8	16.7	16.7
30°-40°	3969.8	21.4	21.4
40°-50°	4288.8	23.1	23.1
50°-60°	3029.2	16.3	16.3
60°-70°	1153.5	6.2	6.2
70°-80°	337.5	1.8	1.8
80°-90°	65.5	0.4	0.4
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	5705.8	30.8	30.8
0°-40°	9675.5	52.2	52.2
0°-60°	16993.6	91.6	91.6
0°-90°	18550.0	100.0	100.0
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	18550.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6970	6970	6970	6970	6970	
5°	6972	6982	6962	6945	6972	665
15°	6907	6943	6876	6825	6907	1956
25°	6727	6784	6693	6615	6727	3105
35°	6314	6444	6379	6254	6314	3946
45°	5439	5794	5782	5528	5439	4112
55°	2829	3998	3874	2955	2829	2611
65°	918	1308	1274	854	918	970
75°	236	376	348	213	236	273
85°	50	38	38	50	50	63
90°	50	29	30	49	50	

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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5	6969.5
5°	6972.4	6985.9	6978.8	6981.6	6959.0	6971.6	6962.1	6928.1	6928.0	6944.7	6936.6
10°	6968.3	6977.5	6987.9	6980.6	6943.9	6948.7	6924.5	6891.9	6890.0	6893.3	6894.5
15°	6906.8	6938.0	6945.3	6943.2	6929.0	6895.1	6876.0	6841.4	6823.6	6825.2	6831.7
20°	6837.6	6870.4	6877.6	6878.7	6846.9	6816.7	6788.8	6748.2	6737.7	6734.4	6726.4
25°	6727.2	6756.1	6781.2	6783.8	6731.5	6735.3	6693.1	6666.3	6638.7	6614.7	6607.0
30°	6566.2	6603.7	6622.2	6640.9	6612.3	6602.0	6553.6	6540.6	6495.2	6460.3	6443.1
35°	6314.4	6359.4	6399.9	6443.6	6425.1	6431.7	6379.4	6363.8	6313.6	6253.5	6230.4
40°	5968.3	6007.2	6092.3	6171.3	6172.5	6168.7	6127.6	6081.7	6040.1	5965.5	5930.9
45°	5439.4	5475.8	5608.7	5793.9	5847.7	5838.7	5782.4	5706.5	5611.3	5527.6	5484.4
50°	4459.0	4518.2	4799.0	5189.5	5343.2	5368.4	5199.4	5004.2	4858.1	4665.5	4633.4
55°	2829.3	2970.5	3248.6	3997.8	4364.1	4391.7	3874.1	3465.1	3175.7	2954.9	2765.8
60°	1612.2	1759.9	1943.9	2306.7	2423.1	2400.9	2224.5	2003.3	1770.1	1576.4	1521.4
65°	917.7	1010.6	1169.6	1307.6	1357.8	1294.6	1274.5	1140.0	997.7	854.4	850.9
70°	485.5	555.1	655.4	730.4	730.1	708.4	700.2	619.7	520.0	457.8	449.8
75°	235.9	275.6	337.2	375.5	368.6	355.4	348.0	307.4	248.2	212.6	205.6
80°	79.9	105.6	139.8	154.5	157.9	154.8	142.6	121.1	87.5	75.1	68.7
85°	50.2	51.2	53.0	37.5	39.5	40.7	38.0	34.5	31.8	49.9	49.8
90°	49.6	49.2	49.4	29.1	29.5	30.0	30.1	29.8	29.0	49.4	49.7

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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	6969.5	6969.5
5°	6967.6	6972.4
10°	6942.2	6968.3
15°	6880.4	6906.8
20°	6795.4	6837.6
25°	6671.6	6727.2
30°	6502.2	6566.2
35°	6273.9	6314.4
40°	5951.1	5968.3
45°	5478.2	5439.4
50°	4533.3	4459.0
55°	2736.9	2829.3
60°	1494.5	1612.2
65°	830.1	917.7
70°	443.3	485.5
75°	213.0	235.9
80°	69.2	79.9
85°	49.9	50.2
90°	49.9	49.6

(END OF REPORT)