

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: P600932

Luminaire Tested: UHBS-30-MV-L840-U 347V

Issue Date: 8/26/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P600932  
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-30-MV-L840-U 347V  
Description: UHB Round Select AT 30000 LUMEN SETTING AND 4000K  
Light Source: -  
Ballast/Driver: -

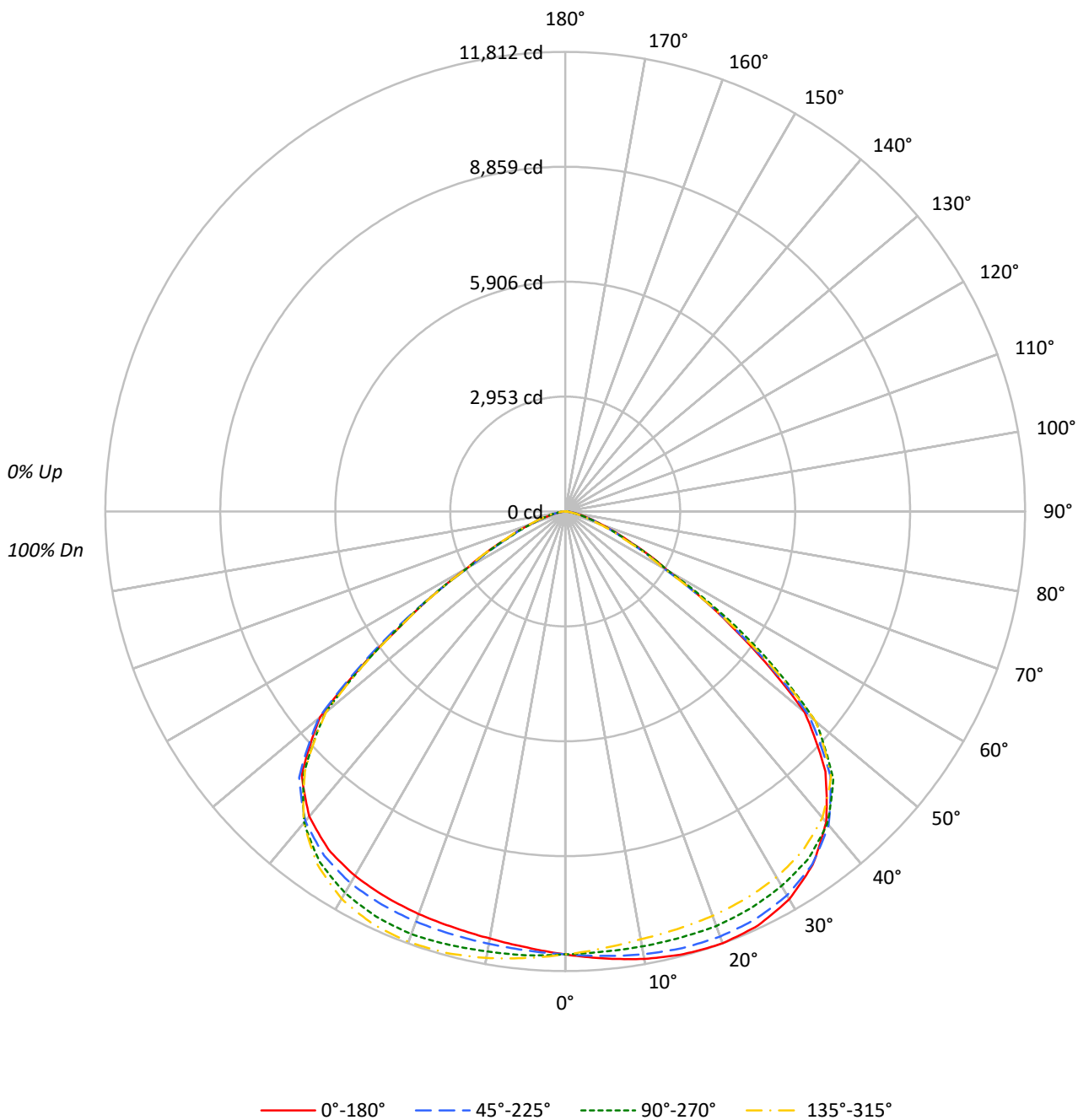
**Summary**

Lumens per Lamp: 30998 (1 lamp)  
Luminaire Lumens: 30998.0 lumens  
Efficiency: 100.0%  
Efficacy: 159.6 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 1.46 / 1.52  
Luminous Opening: Circular (Dia: 1.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 194.2  
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				10	0
RW	70	50	30	10	70	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
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35
9	59	47	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	88201	88201	88201	88201
5°	89691	88294	87488	89070
10°	91862	89315	87676	90325
15°	94464	90996	88773	92494
20°	97389	93481	90767	95316
25°	100338	96241	93397	98228
30°	102940	99434	96709	101257
35°	104843	103006	100307	103999
40°	105460	105932	103421	105555
45°	103557	106695	104874	103965
50°	96747	101277	99032	96772
55°	72553	78647	70549	71066
60°	47144	47433	44943	44373
65°	32992	31536	30634	29644
70°	23022	21296	20120	19969
75°	16123	14659	13234	13974
80°	11601	9744	8281	10026
85°	8285	5138	4809	7930

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 106695 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	1088.3	3.5	3.5
10°-20°	3238.6	10.4	10.4
20°-30°	5240.8	16.9	16.9
30°-40°	6806.1	22.0	22.0
40°-50°	7296.5	23.5	23.5
50°-60°	4884.4	15.8	15.8
60°-70°	1769.1	5.7	5.7
70°-80°	555.8	1.8	1.8
80°-90°	118.4	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°	9567.7	30.9	30.9
0°-40°	16373.8	52.8	52.8
0°-60°	28554.7	92.1	92.1
0°-90°	30998.0	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°	30998.0	100.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	11384	11384	11384	11384	11384	
5°	11532	11353	11249	11452	11532	1104
15°	11777	11345	11068	11531	11777	3335
25°	11737	11258	10925	11490	11737	5411
35°	11085	10891	10605	10996	11085	6916
45°	9451	9738	9571	9488	9451	7212
55°	5371	5822	5223	5261	5371	4858
65°	1800	1720	1671	1617	1800	1890
75°	539	490	442	467	539	620
85°	93	58	54	89	93	144
90°	82	48	48	82	82	



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**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	11384.0	11384.0	11384.0	11384.0	11384.0	11384.0	11384.0	11384.0	11384.0	11384.0	11384.0
5°	11532.3	11503.1	11429.5	11352.7	11294.3	11243.9	11249.0	11296.7	11352.9	11452.5	11506.8
10°	11676.4	11614.2	11495.3	11352.7	11194.2	11134.6	11144.3	11216.0	11347.6	11481.1	11627.2
15°	11777.0	11701.6	11534.6	11344.6	11162.2	11060.9	11067.5	11163.2	11338.1	11531.3	11698.8
20°	11811.9	11717.7	11532.8	11337.9	11120.2	11003.4	11008.7	11115.5	11317.3	11560.4	11727.8
25°	11737.2	11648.0	11479.8	11257.9	11042.1	10915.9	10925.2	11055.2	11241.8	11490.4	11660.6
30°	11506.4	11454.2	11333.9	11114.5	10892.1	10816.1	10809.9	10937.9	11124.5	11318.2	11476.2
35°	11084.8	11090.2	11043.0	10890.6	10677.8	10602.3	10605.2	10724.8	10863.0	10995.5	11083.0
40°	10427.1	10497.8	10550.2	10473.8	10315.9	10238.4	10225.5	10347.9	10425.4	10436.5	10455.5
45°	9451.2	9566.1	9712.5	9737.6	9677.4	9636.2	9571.4	9666.8	9659.4	9488.4	9466.4
50°	8026.5	8145.9	8207.2	8402.4	8408.4	8408.3	8216.1	8310.7	8215.8	8028.6	8022.4
55°	5371.2	5472.4	5512.1	5822.3	5580.3	5506.6	5222.8	5398.6	5474.9	5261.1	5217.5
60°	3042.4	2963.1	2883.9	3061.1	2941.9	2834.1	2900.4	2798.7	2767.2	2863.6	2872.6
65°	1799.6	1713.6	1684.2	1720.2	1679.6	1596.5	1671.0	1601.8	1587.9	1617.0	1685.8
70°	1016.3	963.9	947.2	940.1	907.9	867.1	888.2	874.9	881.1	881.5	952.6
75°	538.6	516.6	507.2	489.7	456.6	433.0	442.1	446.6	450.0	466.8	508.9
80°	260.0	258.0	246.4	218.4	196.5	185.7	185.6	198.0	201.7	224.7	243.3
85°	93.2	91.6	90.0	57.8	55.7	54.9	54.1	54.5	55.5	89.2	92.0
90°	82.1	82.1	81.8	48.2	47.6	47.5	47.5	47.6	47.6	81.8	81.9

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**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	11384.0	11384.0
5°	11532.9	11532.3
10°	11680.5	11676.4
15°	11799.4	11777.0
20°	11810.2	11811.9
25°	11736.3	11737.2
30°	11512.6	11506.4
35°	11094.2	11084.8
40°	10434.9	10427.1
45°	9444.8	9451.2
50°	8011.3	8026.5
55°	5186.5	5371.2
60°	2886.9	3042.4
65°	1706.3	1799.6
70°	967.1	1016.3
75°	522.1	538.6
80°	255.9	260.0
85°	92.8	93.2
90°	82.0	82.1

(END OF REPORT)