

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: P600933

Luminaire Tested: UHBS-30-MV-L850-U 347V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600933
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-L850-U 347V
Description: UHB Round Select AT 30000 LUMEN SETTING AND 5000K
Light Source: -
Ballast/Driver: -

Summary

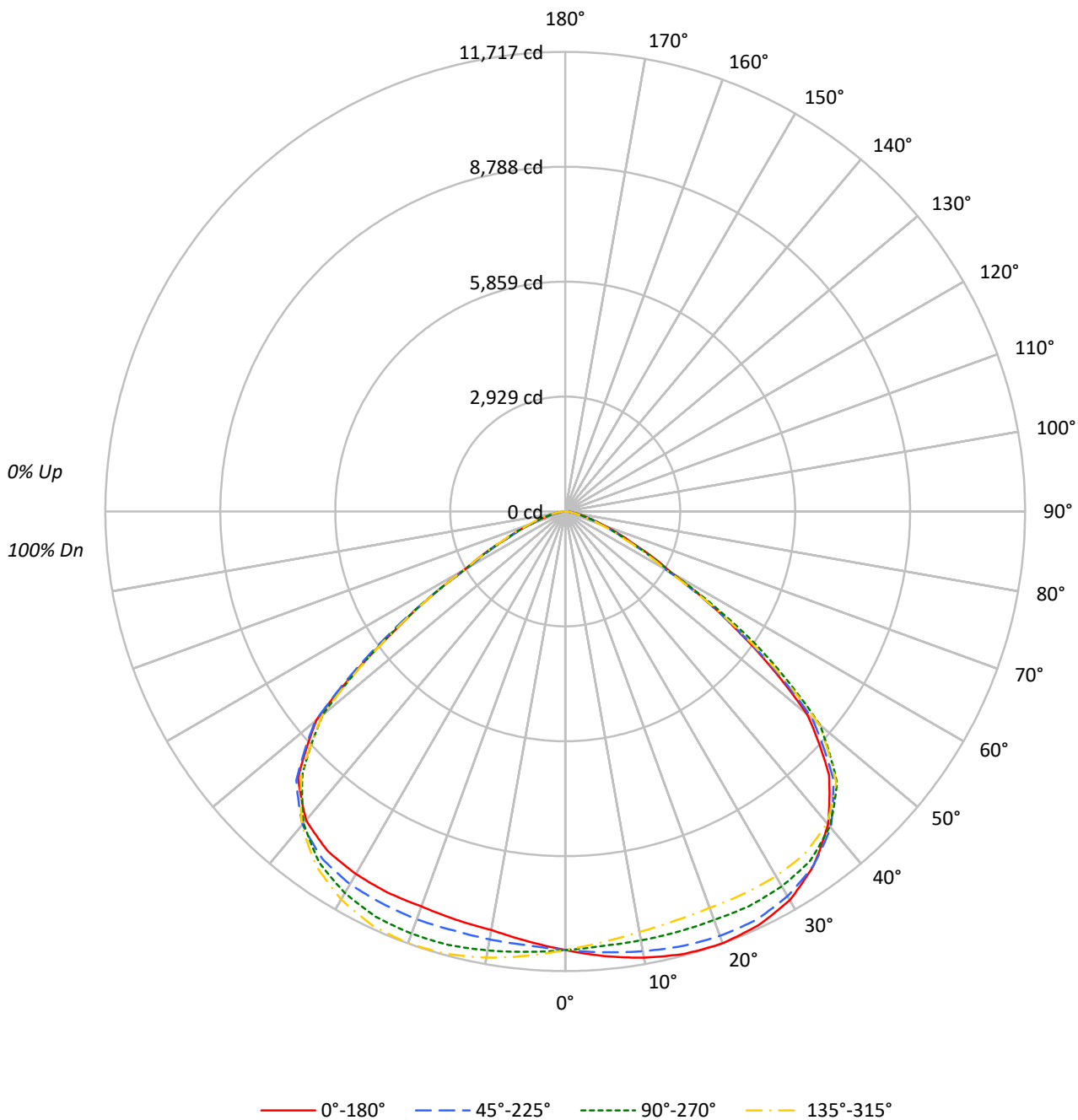
Lumens per Lamp: 31011 (1 lamp)
Luminaire Lumens: 31011.0 lumens
Efficiency: 100.0%
Efficacy: 158.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 1.48 / 1.54
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 195.1
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	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	98	100	98	95	97	94	93	93	91	90	88				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	79	84	81	78	76				
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65				
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57				
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49				
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43				
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38				
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	86626	86626	86626	86626
5°	88512	86446	85529	87658
10°	90874	87343	85241	89385
15°	93675	88974	86410	91781
20°	96608	91378	88331	94443
25°	99523	94874	91608	97485
30°	102386	98720	95465	100465
35°	104330	102887	99882	103361
40°	105359	106052	103895	104885
45°	104186	107337	105447	103740
50°	97062	102137	99691	97156
55°	74319	80646	71963	72684
60°	48470	48046	45566	45301
65°	34053	32051	31063	30464
70°	23795	21699	20481	20771
75°	16617	14953	13438	14495
80°	11984	9910	8303	10244
85°	8312	5165	4880	8018

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 107337 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	1069.2	3.4	3.4
10°-20°	3187.7	10.3	10.3
20°-30°	5183.8	16.7	16.7
30°-40°	6788.4	21.9	21.9
40°-50°	7326.2	23.6	23.6
50°-60°	4960.8	16.0	16.0
60°-70°	1802.6	5.8	5.8
70°-80°	572.1	1.8	1.8
80°-90°	120.3	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°	9440.6	30.4	30.4
0°-40°	16229.0	52.3	52.3
0°-60°	28516.0	92.0	92.0
0°-90°	31011.0	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°	31011.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11181	11181	11181	11181	11181	
5°	11381	11115	10997	11271	11381	1090
15°	11679	11092	10773	11442	11679	3306
25°	11642	11098	10716	11404	11642	5372
35°	11030	10878	10560	10928	11030	6888
45°	9509	9796	9624	9468	9509	7238
55°	5502	5970	5328	5381	5502	4942
65°	1858	1748	1694	1662	1858	1948
75°	555	500	449	484	555	640
85°	94	58	55	90	94	147
90°	83	49	48	82	83	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	11180.7	11180.7	11180.7	11180.7	11180.7	11180.7	11180.7	11180.7	11180.7	11180.7	11180.7
5°	11380.7	11318.8	11242.5	11115.1	11061.6	10974.7	10997.1	11063.5	11134.0	11270.9	11369.5
10°	11550.9	11474.0	11294.9	11102.0	10942.0	10823.2	10834.8	11000.4	11156.6	11361.6	11522.0
15°	11678.6	11574.6	11373.6	11092.5	10878.2	10724.6	10772.8	10945.8	11162.5	11442.4	11635.9
20°	11717.2	11648.8	11381.0	11082.8	10853.2	10656.6	10713.3	10934.2	11197.3	11454.6	11676.1
25°	11641.8	11579.9	11408.2	11098.0	10844.8	10664.8	10716.0	10901.9	11154.7	11403.5	11619.3
30°	11444.4	11384.1	11266.9	11034.6	10817.2	10658.0	10670.8	10861.4	11080.3	11229.7	11396.3
35°	11030.5	11053.0	10992.6	10878.0	10704.5	10591.0	10560.3	10737.4	10863.1	10928.1	11061.3
40°	10417.1	10508.0	10540.9	10485.7	10419.5	10332.6	10272.4	10394.0	10438.0	10370.3	10450.3
45°	9508.6	9599.7	9723.7	9796.2	9783.0	9734.2	9623.7	9711.4	9667.4	9467.9	9509.1
50°	8052.7	8181.6	8248.2	8473.7	8458.7	8429.5	8270.8	8356.5	8258.9	8060.5	8081.7
55°	5501.9	5586.5	5619.6	5970.3	5740.8	5624.9	5327.5	5524.0	5567.6	5380.9	5361.2
60°	3128.0	3004.2	2921.0	3100.6	2991.0	2887.0	2940.6	2826.0	2781.7	2923.5	2923.2
65°	1857.5	1760.3	1713.4	1748.3	1705.1	1633.3	1694.4	1608.7	1608.5	1661.7	1730.3
70°	1050.4	991.0	979.4	957.9	930.1	894.9	904.1	884.6	881.6	916.9	991.1
75°	555.1	544.1	525.8	499.5	472.2	449.7	448.9	457.8	462.4	484.2	525.8
80°	268.6	269.8	255.3	222.1	201.0	190.4	186.1	200.2	204.1	229.6	251.7
85°	93.5	91.9	90.3	58.1	56.1	55.4	54.9	55.2	56.3	90.2	92.7
90°	82.6	82.5	82.0	48.8	48.3	48.0	48.1	48.1	48.2	82.2	82.6

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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	11180.7	11180.7
5°	11373.6	11380.7
10°	11583.4	11550.9
15°	11718.3	11678.6
20°	11746.4	11717.2
25°	11658.3	11641.8
30°	11444.5	11444.4
35°	11030.5	11030.5
40°	10429.0	10417.1
45°	9502.0	9508.6
50°	8035.2	8052.7
55°	5334.9	5501.9
60°	2939.5	3128.0
65°	1733.5	1857.5
70°	996.8	1050.4
75°	544.7	555.1
80°	261.5	268.6
85°	93.2	93.5
90°	82.6	82.6

(END OF REPORT)