

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: P600916

Luminaire Tested: UHBS-18-MV-L850-U 347V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600916
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-L850-U 347V
Description: UHB Round Select AT 18000 LUMEN SETTING AND 5000K
Light Source: -
Ballast/Driver: -

Summary

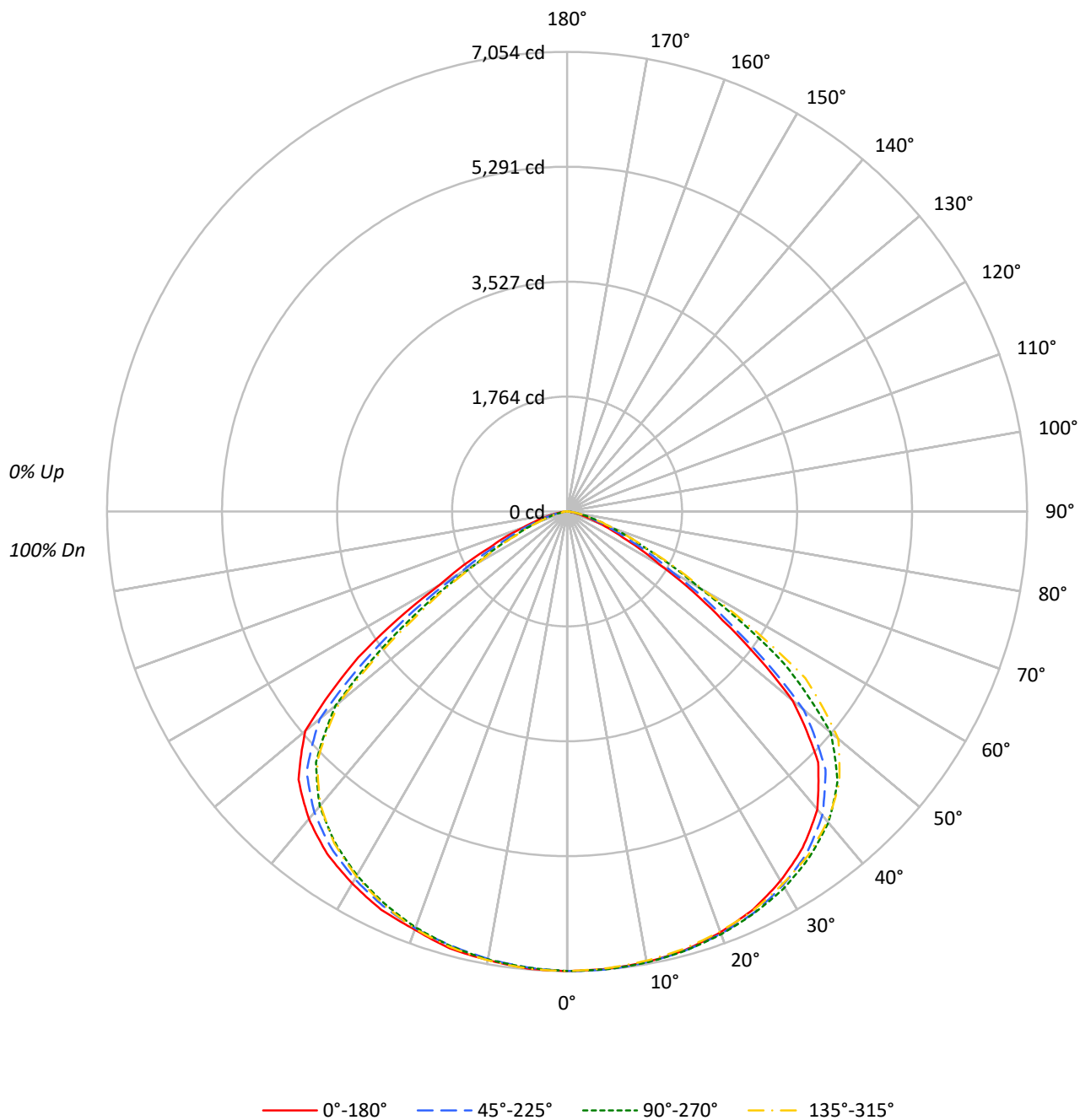
Lumens per Lamp: 18669 (1 lamp)
Luminaire Lumens: 18669.0 lumens
Efficiency: 100.0%
Efficacy: 152.3 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.49
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 122.6
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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	111	107	103	100	108	105	101	98	100	98	95		97	94	92		88
2	102	95	89	84	99	93	88	83	90	85	81		86	83	79		76
3	94	84	77	71	91	83	76	71	80	74	70		77	72	68		65
4	86	75	67	61	84	74	67	61	72	65	60		69	64	59		57
5	80	68	59	53	78	67	59	53	65	58	52		63	57	52		49
6	74	61	53	47	72	60	52	46	58	51	46		57	50	46		43
7	68	55	47	41	67	55	47	41	53	46	41		52	45	41		38
8	63	51	42	37	62	50	42	37	49	42	36		47	41	36		34
9	59	46	38	33	58	46	38	33	45	38	33		44	37	33		31
10	55	43	35	30	54	42	35	30	41	34	30		40	34	30		28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	96663	96663	96663	96663
5°	96930	97008	96853	96650
10°	97727	97830	97284	97170
15°	98902	99060	98533	97973
20°	100265	100721	99601	99053
25°	101967	102825	101995	100371
30°	103601	105527	104296	102013
35°	105417	108385	107291	103784
40°	106800	111546	110201	105542
45°	105517	113653	112872	105526
50°	96300	112525	111666	98741
55°	69620	96857	93380	72829
60°	45520	64024	61963	44300
65°	30509	42680	42475	28437
70°	19975	29284	28514	18545
75°	12788	20069	18703	11533
80°	6140	12083	11041	5848
85°	8020	6007	6007	7941

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 150°

Vertical Angle: 50°

Luminance: 115740 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	670.7	3.6	3.6
10°-20°	1963.3	10.5	10.5
20°-30°	3103.9	16.6	16.6
30°-40°	3968.9	21.3	21.3
40°-50°	4300.1	23.0	23.0
50°-60°	3079.4	16.5	16.5
60°-70°	1172.8	6.3	6.3
70°-80°	344.0	1.8	1.8
80°-90°	65.9	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°	5737.9	30.7	30.7
0°-40°	9706.8	52.0	52.0
0°-60°	17086.3	91.5	91.5
0°-90°	18669.0	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°	18669.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7053	7053	7053	7053	7053	
5°	7046	7051	7040	7025	7046	672
15°	6971	6982	6945	6905	6971	1971
25°	6743	6800	6745	6638	6743	3110
35°	6301	6478	6413	6203	6301	3939
45°	5444	5864	5824	5445	5444	4126
55°	2914	4054	3908	3048	2914	2673
65°	941	1316	1310	877	941	997
75°	242	379	353	218	242	279
85°	51	38	38	50	51	63
90°	50	30	31	50	50	

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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	7053.1	7053.1	7053.1	7053.1	7053.1	7053.1	7053.1	7053.1	7053.1	7053.1	7053.1
5°	7045.7	7062.9	7045.8	7051.3	7032.8	7039.8	7040.1	7017.1	7031.0	7025.3	7038.2
10°	7022.4	7026.2	7026.7	7029.8	7013.7	6988.2	6990.6	6988.2	6957.6	6982.4	6984.3
15°	6970.6	6984.7	6976.1	6981.7	6955.1	6935.5	6944.6	6901.5	6892.2	6905.1	6911.8
20°	6874.7	6896.6	6899.8	6906.0	6871.7	6846.8	6829.2	6817.0	6797.0	6791.6	6807.2
25°	6743.0	6784.2	6797.9	6799.8	6768.1	6743.1	6744.9	6706.1	6652.6	6637.5	6647.2
30°	6546.6	6602.9	6643.4	6668.3	6626.7	6584.6	6590.5	6545.2	6480.4	6446.2	6457.3
35°	6300.8	6372.8	6441.2	6478.2	6459.1	6427.2	6412.8	6356.4	6253.0	6203.2	6197.2
40°	5969.6	6042.8	6135.4	6234.9	6221.7	6202.3	6159.7	6081.7	5975.4	5899.3	5875.1
45°	5444.1	5533.9	5677.0	5863.9	5906.0	5898.4	5823.6	5713.0	5580.3	5444.6	5422.3
50°	4516.6	4592.8	4881.5	5277.6	5427.7	5428.4	5237.3	5042.3	4853.0	4631.1	4593.8
55°	2913.7	3030.3	3280.9	4053.6	4459.7	4455.8	3908.1	3511.2	3303.1	3048.0	2876.8
60°	1660.7	1780.2	1969.0	2335.8	2460.1	2404.2	2260.6	2046.7	1792.2	1616.2	1561.6
65°	940.8	1034.4	1159.6	1316.1	1382.5	1328.9	1309.8	1138.3	1011.2	876.9	865.6
70°	498.5	572.1	657.0	730.8	741.0	733.4	711.6	631.8	538.1	462.8	461.3
75°	241.5	286.4	337.8	379.0	381.0	371.5	353.2	311.6	255.6	217.8	212.0
80°	77.8	103.6	137.9	153.1	165.2	165.9	139.9	118.1	83.9	74.1	69.6
85°	51.0	52.0	53.8	38.2	39.8	40.4	38.2	35.1	32.3	50.5	50.6
90°	50.1	49.7	49.8	29.6	30.0	30.5	30.7	30.4	29.4	49.9	50.3

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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	7053.1	7053.1
5°	7041.8	7045.7
10°	7004.2	7022.4
15°	6931.0	6970.6
20°	6822.0	6874.7
25°	6666.4	6743.0
30°	6470.4	6546.6
35°	6242.6	6300.8
40°	5884.1	5969.6
45°	5408.6	5444.1
50°	4520.1	4516.6
55°	2856.2	2913.7
60°	1554.7	1660.7
65°	842.4	940.8
70°	450.9	498.5
75°	217.7	241.5
80°	68.2	77.8
85°	50.5	51.0
90°	50.2	50.1

(END OF REPORT)