

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: P600900

Luminaire Tested: UHBS-12-MV-L850-U 120V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600900
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-12-MV-L850-U 120V
Description: UHB Round Select AT 12000 LUMEN SETTING AND 5000K
Light Source: -
Ballast/Driver: -

Summary

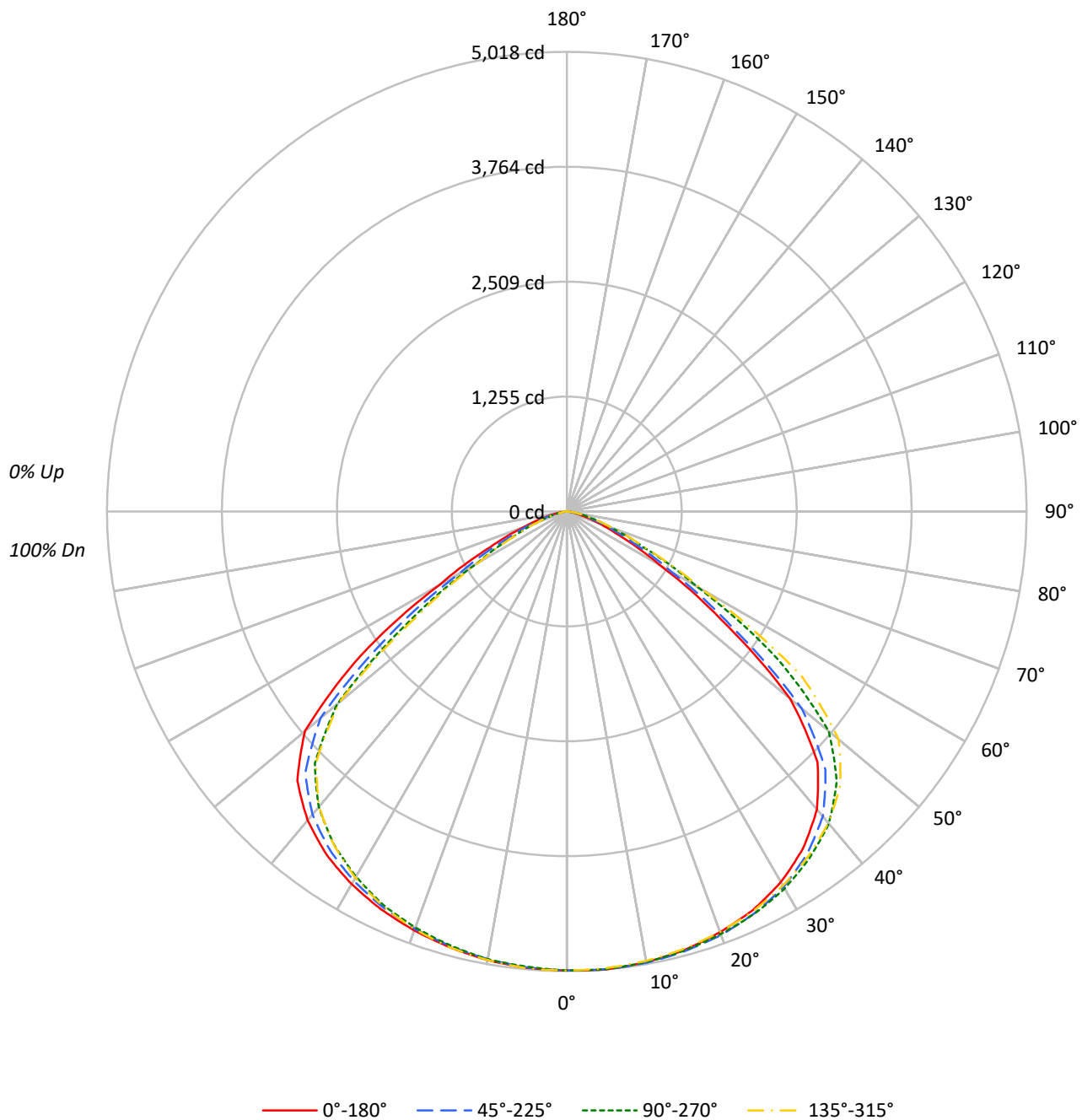
Lumens per Lamp: 13264 (1 lamp)
Luminaire Lumens: 13264.0 lumens
Efficiency: 100.0%
Efficacy: 161.0 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.49
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 82.4
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			102
1	111	107	103	100	108	105	101	98		100	98	95			97	94	92			93
2	102	95	89	84	100	93	88	83		90	85	81			86	83	79			84
3	94	84	77	71	91	83	76	71		80	74	70			77	73	68			75
4	86	75	68	61	84	74	67	61		72	65	60			70	64	59			67
5	80	68	59	53	78	67	59	53		65	58	52			63	57	52			61
6	74	61	53	47	72	60	52	47		58	51	46			57	51	46			55
7	68	55	47	41	67	55	47	41		53	46	41			52	45	41			50
8	64	51	42	37	62	50	42	37		49	42	37			47	41	36			46
9	59	46	38	33	58	46	38	33		45	38	33			44	37	33			43
10	56	43	35	30	54	42	35	30		41	34	30			40	34	30			39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	68686	68686	68686	68686
5°	69037	68989	68805	68638
10°	69534	69510	69218	69080
15°	70335	70396	69903	69606
20°	71298	71612	70991	70487
25°	72636	73285	72491	71675
30°	73943	75246	74336	72832
35°	75191	77288	76506	74184
40°	75987	79612	78719	75348
45°	75000	80764	80599	75355
50°	67908	79556	79513	69657
55°	48933	67195	65752	50536
60°	31999	44939	43889	31023
65°	21371	30000	29705	20064
70°	13961	20717	20043	13147
75°	8954	14186	13090	8202
80°	4365	8540	7813	4175
85°	5661	4261	4261	5614

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 150°

Vertical Angle: 50°

Luminance: 82741 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	477.0	3.6	3.6
10°-20°	1397.3	10.5	10.5
20°-30°	2213.1	16.7	16.7
30°-40°	2833.7	21.4	21.4
40°-50°	3064.7	23.1	23.1
50°-60°	2164.3	16.3	16.3
60°-70°	824.8	6.2	6.2
70°-80°	242.4	1.8	1.8
80°-90°	46.7	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°	4087.4	30.8	30.8
0°-40°	6921.1	52.2	52.2
0°-60°	12150.1	91.6	91.6
0°-90°	13264.0	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°	13264.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5012	5012	5012	5012	5012	
5°	5018	5015	5001	4989	5018	478
15°	4957	4962	4927	4906	4957	1402
25°	4803	4846	4794	4740	4803	2216
35°	4494	4620	4573	4434	4494	2808
45°	3870	4167	4158	3888	3870	2928
55°	2048	2812	2752	2115	2048	1881
65°	659	925	916	619	659	699
75°	169	268	247	155	169	195
85°	36	27	27	36	36	44
90°	35	21	22	35	35	

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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	5011.7	5011.7	5011.7	5011.7	5011.7	5011.7	5011.7	5011.7	5011.7	5011.7	5011.7
5°	5018.2	5013.8	5016.9	5014.7	5004.7	5003.7	5001.3	4998.0	4994.3	4989.2	5000.0
10°	4996.5	5004.9	5003.3	4994.8	4984.4	4980.4	4973.8	4963.5	4963.6	4963.9	4964.1
15°	4957.2	4967.5	4975.4	4961.5	4949.4	4936.0	4926.7	4917.6	4908.9	4905.8	4919.2
20°	4888.6	4918.8	4923.4	4910.1	4893.2	4878.6	4867.5	4854.2	4843.3	4833.0	4839.5
25°	4803.4	4830.4	4853.0	4846.3	4822.1	4805.8	4793.8	4775.4	4749.4	4739.8	4736.0
30°	4672.5	4717.6	4747.8	4754.8	4725.0	4708.9	4697.3	4673.1	4632.0	4602.3	4600.4
35°	4494.2	4541.9	4595.7	4619.5	4604.4	4588.4	4572.8	4539.2	4480.5	4434.0	4426.3
40°	4247.3	4306.4	4385.7	4449.9	4447.3	4432.1	4400.0	4353.2	4283.4	4211.6	4197.0
45°	3869.6	3938.2	4048.1	4167.0	4225.6	4218.0	4158.5	4077.7	3992.9	3887.9	3862.9
50°	3185.0	3247.6	3451.4	3731.3	3865.9	3880.7	3729.3	3570.7	3442.3	3267.0	3251.6
55°	2047.9	2125.8	2283.5	2812.2	3121.5	3128.9	2751.8	2456.1	2299.2	2115.0	1985.0
60°	1167.4	1252.1	1390.2	1639.5	1738.0	1690.2	1601.2	1439.2	1266.6	1131.8	1093.1
65°	659.0	728.0	814.4	925.1	962.1	939.7	916.0	803.1	711.7	618.7	607.1
70°	348.4	403.1	462.2	517.0	521.2	516.9	500.2	443.2	378.6	328.1	324.0
75°	169.1	201.7	236.9	267.9	268.8	261.9	247.2	218.3	180.8	154.9	149.4
80°	55.3	73.6	97.9	108.2	117.0	117.2	99.0	84.1	60.3	52.9	49.5
85°	36.0	36.8	38.1	27.1	28.3	28.7	27.1	24.8	22.9	35.7	35.8
90°	35.4	35.2	35.3	20.8	21.1	21.5	21.6	21.4	20.8	35.3	35.6

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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	5011.7	5011.7
5°	5014.5	5018.2
10°	4982.0	4996.5
15°	4933.3	4957.2
20°	4865.7	4888.6
25°	4769.7	4803.4
30°	4629.7	4672.5
35°	4448.6	4494.2
40°	4214.1	4247.3
45°	3866.1	3869.6
50°	3213.2	3185.0
55°	1993.5	2047.9
60°	1085.7	1167.4
65°	594.9	659.0
70°	318.8	348.4
75°	153.5	169.1
80°	48.7	55.3
85°	35.8	36.0
90°	35.6	35.4

(END OF REPORT)