

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: P600899

Luminaire Tested: UHBS-12-MV-L840-U 120V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600899
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-L840-U 120V
Description: UHB Round Select AT 12000 LUMEN SETTING AND 4000K
Light Source: -
Ballast/Driver: -

Summary

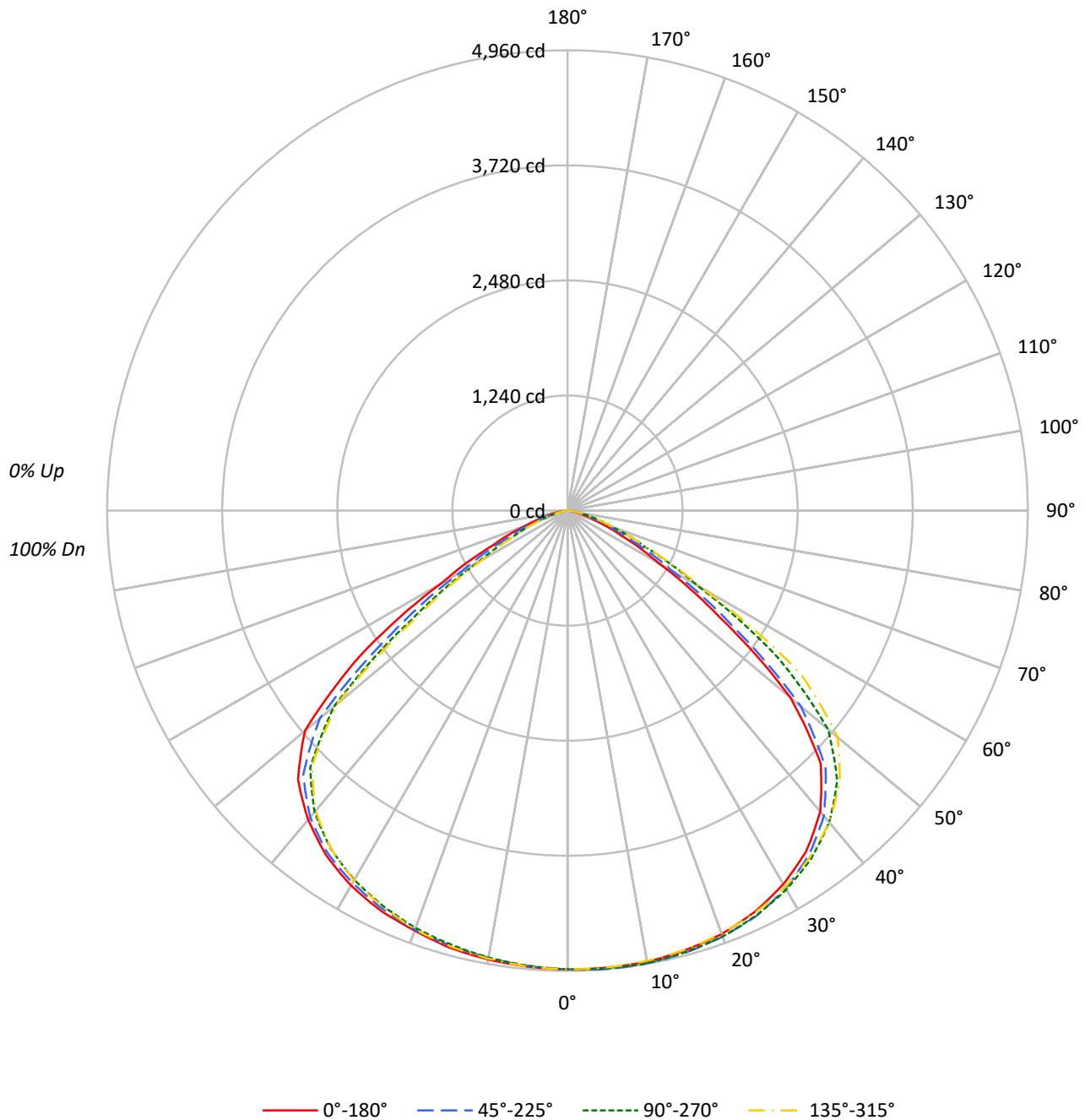
Lumens per Lamp: 13134 (1 lamp)
Luminaire Lumens: 13134.0 lumens
Efficiency: 100.0%
Efficacy: 160.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.4 / 1.5
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 82
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



TEST NUMBER: P600899
CATALOG NUMBER: UHBS-12-MV-L840-U 120V

Luminous Intensity Polar Plot



TEST NUMBER: P600899

CATALOG NUMBER: UHBS-12-MV-L840-U 120V

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	67766	67766	67766	67766
5°	68008	68140	67871	67730
10°	68701	68914	68372	68067
15°	69588	69894	69234	68716
20°	70827	71243	70242	69808
25°	72169	72807	71957	71100
30°	73598	74622	73826	72715
35°	75019	76602	75861	74405
40°	75799	78483	77781	75833
45°	74791	79657	79570	75965
50°	66870	78104	78695	69893
55°	47628	66306	65128	49093
60°	31130	44325	43094	30335
65°	20754	29867	28910	19584
70°	13560	20729	19719	12979
75°	8748	13995	12857	7959
80°	4475	8587	7885	4222
85°	5567	4151	4230	5535

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 150°

Vertical Angle: 50°

Luminance: 81168 cd/sqm

TEST NUMBER: P600899
 CATALOG NUMBER: UHBS-12-MV-L840-U 120V

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	470.9	3.6	3.6
10°-20°	1383.2	10.5	10.5
20°-30°	2198.4	16.7	16.7
30°-40°	2820.4	21.5	21.5
40°-50°	3041.6	23.2	23.2
50°-60°	2126.0	16.2	16.2
60°-70°	809.9	6.2	6.2
70°-80°	237.3	1.8	1.8
80°-90°	46.2	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°	4052.5	30.9	30.9
0°-40°	6872.9	52.3	52.3
0°-60°	12040.5	91.7	91.7
0°-90°	13134.0	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°	13134.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4945	4945	4945	4945	4945	
5°	4943	4953	4933	4923	4943	472
15°	4904	4926	4880	4843	4904	1388
25°	4772	4815	4758	4702	4772	2202
35°	4484	4578	4534	4447	4484	2800
45°	3859	4110	4105	3919	3859	2912
55°	1993	2775	2726	2055	1993	1839
65°	640	921	892	604	640	679
75°	165	264	243	150	165	191
85°	35	26	27	35	35	44
90°	35	20	21	35	35	

TEST NUMBER: P600899

CATALOG NUMBER: UHBS-12-MV-L840-U 120V

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	4944.6	4944.6	4944.6	4944.6	4944.6	4944.6	4944.6	4944.6	4944.6	4944.6	4944.6
5°	4943.4	4956.1	4962.9	4953.0	4944.6	4940.3	4933.4	4927.3	4921.5	4923.2	4927.1
10°	4936.7	4943.9	4964.4	4952.0	4933.3	4921.0	4913.0	4889.6	4898.3	4891.1	4894.9
15°	4904.5	4925.0	4936.9	4926.1	4907.8	4889.3	4879.6	4857.9	4854.8	4843.1	4852.9
20°	4856.3	4878.4	4894.0	4884.8	4860.1	4840.5	4816.2	4807.9	4806.2	4786.4	4785.1
25°	4772.5	4811.7	4825.0	4814.7	4792.9	4770.6	4758.5	4744.7	4717.5	4701.8	4699.5
30°	4650.7	4690.9	4713.5	4715.4	4696.5	4677.2	4665.1	4642.8	4622.4	4594.9	4585.0
35°	4483.9	4514.0	4554.0	4578.5	4563.5	4551.6	4534.2	4512.5	4501.5	4447.2	4431.4
40°	4236.8	4260.8	4331.8	4386.8	4389.0	4382.4	4347.6	4328.5	4298.1	4238.7	4215.5
45°	3858.8	3883.3	3986.2	4109.9	4147.8	4146.8	4105.4	4049.3	4001.2	3919.4	3900.3
50°	3136.3	3177.1	3385.3	3663.2	3792.2	3806.9	3690.9	3543.8	3417.6	3278.1	3270.3
55°	1993.3	2083.5	2256.6	2775.0	3061.5	3073.1	2725.7	2414.5	2214.9	2054.6	1929.2
60°	1135.7	1232.7	1367.7	1617.1	1703.5	1671.2	1572.2	1409.3	1240.6	1106.7	1071.7
65°	640.0	711.5	819.3	921.0	955.6	904.6	891.5	803.0	700.8	603.9	596.3
70°	338.4	389.5	461.9	517.3	515.9	497.3	492.1	435.3	366.3	323.9	315.8
75°	165.2	193.6	236.1	264.3	260.3	248.6	242.8	214.3	175.5	150.3	145.0
80°	56.7	74.7	98.8	108.8	111.4	109.0	99.9	85.4	62.6	53.5	48.8
85°	35.4	36.1	37.5	26.4	27.9	28.7	26.9	24.4	22.5	35.2	35.2
90°	34.9	34.7	34.9	20.4	20.7	21.0	21.1	20.9	20.4	34.8	35.1

TEST NUMBER: P600899
CATALOG NUMBER: UHBS-12-MV-L840-U 120V

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	4944.6	4944.6
5°	4935.7	4943.4
10°	4911.2	4936.7
15°	4875.2	4904.5
20°	4816.5	4856.3
25°	4726.4	4772.5
30°	4619.0	4650.7
35°	4454.1	4483.9
40°	4225.1	4236.8
45°	3878.7	3858.8
50°	3193.0	3136.3
55°	1913.0	1993.3
60°	1043.1	1135.7
65°	581.3	640.0
70°	311.6	338.4
75°	149.9	165.2
80°	49.1	56.7
85°	35.2	35.4
90°	35.1	34.9

(END OF REPORT)