

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: P600905

Luminaire Tested: UHBS-12-MV-L840-U 277V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600905
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 277V
Description: UHB Round Select AT 12000 LUMEN SETTING AND 4000K
Light Source: -
Ballast/Driver: -

Summary

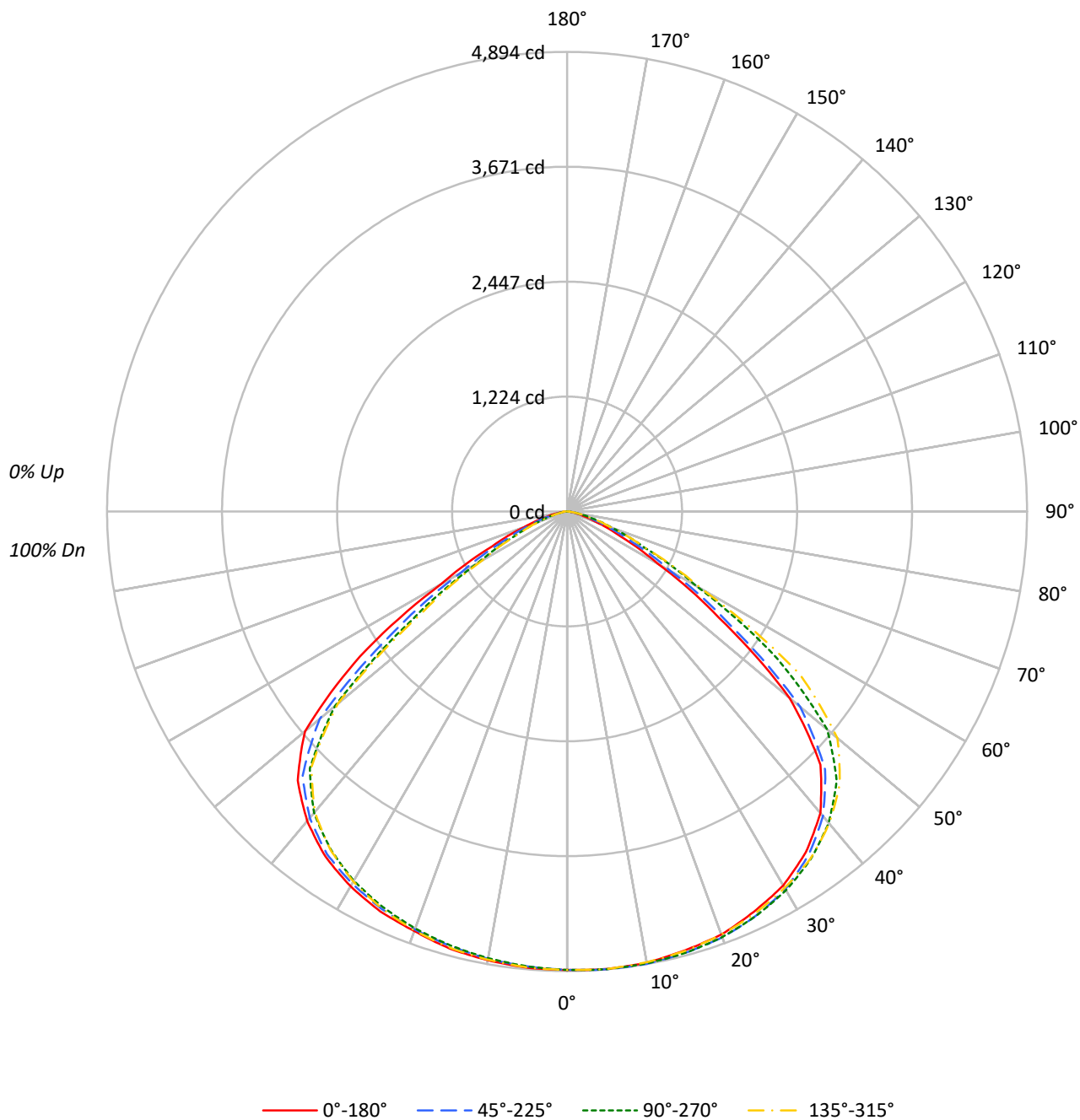
Lumens per Lamp: 12966 (1 lamp)
Luminaire Lumens: 12966.0 lumens
Efficiency: 100.0%
Efficacy: 159.5 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.4 / 1.5
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 81.3
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: P600905
CATALOG NUMBER: UHBS-12-MV-L840-U 277V

Luminous Intensity Polar Plot



TEST NUMBER: P600905

CATALOG NUMBER: UHBS-12-MV-L840-U 277V

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	92	83	76	71	80	74	70		77	73	69		65
4	86	76	68	62	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°	66907	66907	66907	66907
5°	67276	67298	67088	66883
10°	67896	68004	67531	67217
15°	68654	69046	68377	67886
20°	69943	70350	69329	68908
25°	71117	71877	71061	70236
30°	72779	73720	72921	71837
35°	74127	75628	75036	73420
40°	74998	77456	76948	74924
45°	73928	78621	78533	75017
50°	65932	77023	77605	68689
55°	47112	65173	64239	48113
60°	30677	43645	42401	29839
65°	20372	29475	28463	19289
70°	13380	20412	19426	12779
75°	8615	13826	12687	7848
80°	4428	8500	7790	4167
85°	5488	4120	4183	5456

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 150°

Vertical Angle: 50°

Luminance: 80166 cd/sqm

TEST NUMBER: P600905
 CATALOG NUMBER: UHBS-12-MV-L840-U 277V

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	465.2	3.6	3.6
10°-20°	1366.3	10.5	10.5
20°-30°	2171.3	16.7	16.7
30°-40°	2787.0	21.5	21.5
40°-50°	3003.8	23.2	23.2
50°-60°	2094.7	16.2	16.2
60°-70°	798.0	6.2	6.2
70°-80°	234.2	1.8	1.8
80°-90°	45.7	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°	4002.7	30.9	30.9
0°-40°	6789.7	52.4	52.4
0°-60°	11888.2	91.7	91.7
0°-90°	12966.0	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°	12966.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4882	4882	4882	4882	4882	
5°	4890	4892	4876	4862	4890	466
15°	4839	4866	4819	4785	4839	1370
25°	4703	4753	4699	4645	4703	2173
35°	4431	4520	4485	4388	4431	2768
45°	3814	4056	4052	3870	3814	2878
55°	1972	2728	2688	2014	1972	1816
65°	628	909	878	595	628	668
75°	163	261	240	148	163	188
85°	35	26	27	35	35	44
90°	34	20	21	34	34	

TEST NUMBER: P600905

CATALOG NUMBER: UHBS-12-MV-L840-U 277V

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	4881.9	4881.9	4881.9	4881.9	4881.9	4881.9	4881.9	4881.9	4881.9	4881.9	4881.9
5°	4890.2	4892.9	4894.6	4891.8	4894.6	4883.4	4876.5	4861.6	4864.0	4861.6	4869.6
10°	4878.8	4889.4	4892.8	4886.6	4881.9	4865.2	4852.6	4835.2	4840.8	4830.0	4839.6
15°	4838.7	4862.9	4868.2	4866.3	4857.8	4830.6	4819.2	4794.8	4787.0	4784.6	4808.8
20°	4795.7	4824.1	4829.8	4823.6	4810.8	4780.3	4753.6	4742.2	4733.8	4724.7	4732.8
25°	4702.9	4746.6	4758.1	4753.2	4738.6	4713.0	4699.2	4685.8	4652.0	4644.7	4653.8
30°	4598.9	4629.9	4659.2	4658.4	4644.4	4615.0	4607.9	4584.8	4564.8	4539.4	4537.3
35°	4430.6	4454.2	4494.0	4520.3	4521.6	4506.9	4484.9	4464.6	4441.1	4388.3	4384.8
40°	4192.0	4204.8	4265.2	4329.4	4340.4	4337.0	4301.0	4269.4	4245.4	4187.9	4170.8
45°	3814.3	3836.2	3930.7	4056.4	4110.9	4094.5	4051.9	4006.8	3949.0	3870.5	3855.5
50°	3092.3	3135.7	3339.2	3612.5	3750.2	3759.9	3639.8	3502.7	3366.8	3221.6	3212.9
55°	1971.7	2054.3	2223.7	2727.6	3016.3	3032.2	2688.5	2379.2	2176.8	2013.6	1898.7
60°	1119.2	1215.5	1347.6	1592.3	1684.1	1641.0	1546.9	1387.8	1218.7	1088.6	1059.6
65°	628.2	702.2	806.5	908.9	943.0	891.0	877.7	791.0	688.2	594.8	588.8
70°	333.9	384.4	454.9	509.4	509.7	490.3	484.8	429.9	360.7	318.9	313.3
75°	162.7	190.7	232.9	261.1	256.7	245.3	239.6	211.4	172.7	148.2	143.3
80°	56.1	73.9	97.8	107.7	110.2	107.5	98.7	84.3	61.7	52.8	48.3
85°	34.9	35.7	37.0	26.2	27.7	28.4	26.6	24.1	22.2	34.7	34.8
90°	34.5	34.3	34.4	20.1	20.5	20.8	20.9	20.7	20.1	34.4	34.7

TEST NUMBER: P600905
CATALOG NUMBER: UHBS-12-MV-L840-U 277V

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	4881.9	4881.9
5°	4877.0	4890.2
10°	4852.5	4878.8
15°	4811.1	4838.7
20°	4762.1	4795.7
25°	4674.8	4702.9
30°	4562.0	4598.9
35°	4402.0	4430.6
40°	4178.4	4192.0
45°	3832.0	3814.3
50°	3149.5	3092.3
55°	1878.2	1971.7
60°	1026.4	1119.2
65°	573.1	628.2
70°	307.1	333.9
75°	148.3	162.7
80°	48.6	56.1
85°	34.7	34.9
90°	34.7	34.5

(END OF REPORT)