

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: P600906

Luminaire Tested: UHBS-12-MV-L850-U 277V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600906
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 277V
Description: UHB Round Select AT 12000 LUMEN SETTING AND 5000K
Light Source: -
Ballast/Driver: -

Summary

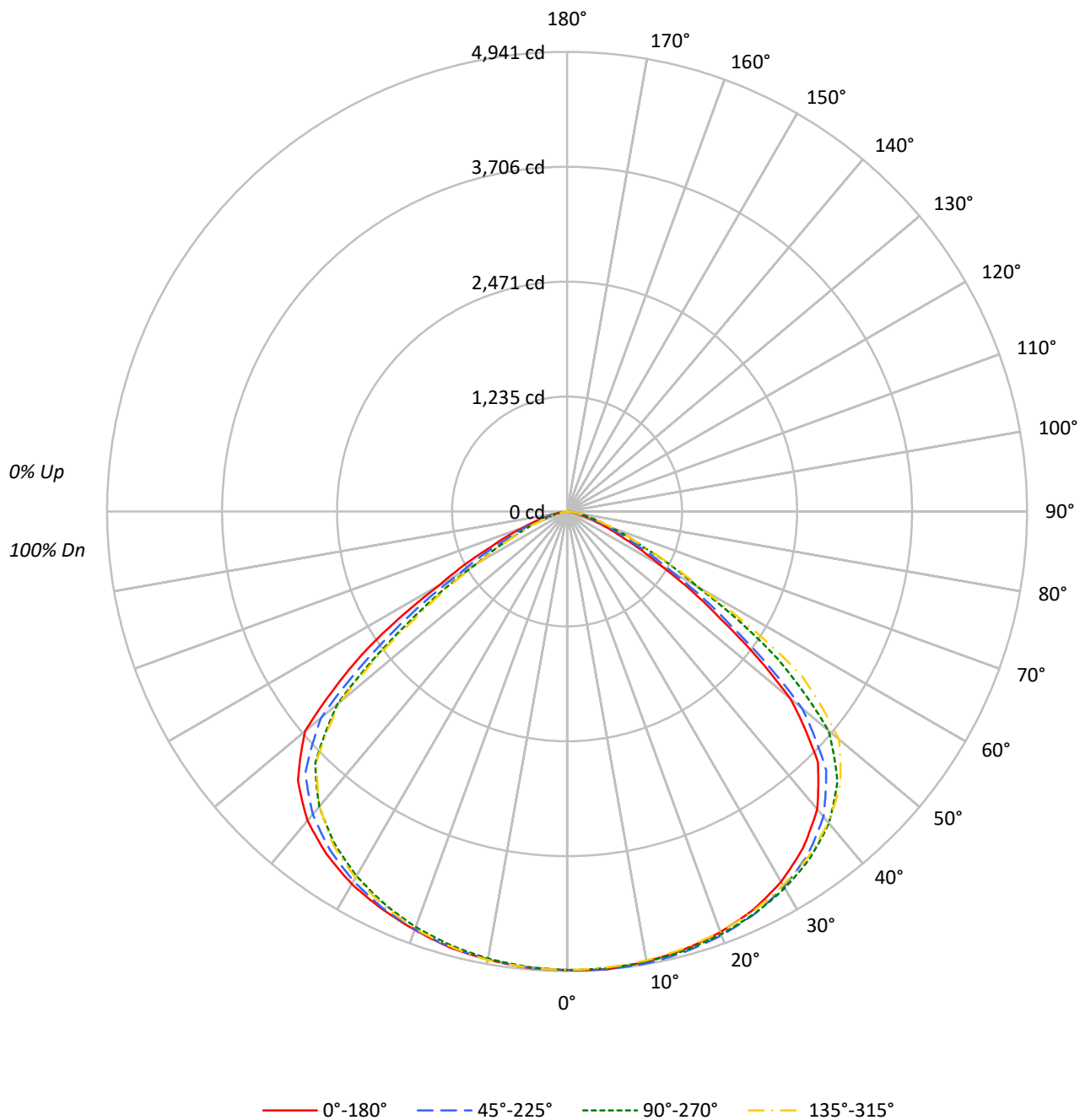
Lumens per Lamp: 13053 (1 lamp)
Luminaire Lumens: 13053.0 lumens
Efficiency: 100.0%
Efficacy: 160.0 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.49
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 81.6
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



TEST NUMBER: P600906
CATALOG NUMBER: UHBS-12-MV-L850-U 277V

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	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	90	90	88
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	78	78	76
3	94	84	77	71	91	83	76	71	80	74	70	77	73	68	75	71	67	67	67	65
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	59	59	57
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	51	51	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	45	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	40	38
8	64	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	36	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	33	33	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	67562	67562	67562	67562
5°	67979	67781	67737	67607
10°	68365	68413	68082	67914
15°	69142	69321	68878	68485
20°	70188	70541	69802	69331
25°	71472	72116	71254	70347
30°	72763	74013	73177	71585
35°	73932	76117	75287	72876
40°	74774	78290	77594	74069
45°	73835	79603	79233	74114
50°	66746	78240	78279	68588
55°	48134	65979	64566	49573
60°	31508	44188	43220	30466
65°	21024	29552	29189	19733
70°	13764	20388	19703	12907
75°	8817	13942	12883	8059
80°	4293	8405	7679	4104
85°	5567	4183	4183	5519

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 150°

Vertical Angle: 50°

Luminance: 81471 cd/sqm

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 CATALOG NUMBER: UHBS-12-MV-L850-U 277V

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	469.4	3.6	3.6
10°-20°	1375.6	10.5	10.5
20°-30°	2178.5	16.7	16.7
30°-40°	2789.8	21.4	21.4
40°-50°	3016.3	23.1	23.1
50°-60°	2127.7	16.3	16.3
60°-70°	811.1	6.2	6.2
70°-80°	238.6	1.8	1.8
80°-90°	46.0	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°	4023.5	30.8	30.8
0°-40°	6813.3	52.2	52.2
0°-60°	11957.4	91.6	91.6
0°-90°	13053.0	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°	13053.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4930	4930	4930	4930	4930	
5°	4941	4927	4924	4914	4941	471
15°	4873	4886	4854	4827	4873	1379
25°	4726	4769	4712	4652	4726	2180
35°	4419	4550	4500	4356	4419	2762
45°	3810	4107	4088	3824	3810	2882
55°	2014	2761	2702	2075	2014	1850
65°	648	911	900	608	648	688
75°	166	263	243	152	166	192
85°	35	27	27	35	35	44
90°	35	20	21	35	35	

TEST NUMBER: P600906

CATALOG NUMBER: UHBS-12-MV-L850-U 277V

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	4929.7	4929.7	4929.7	4929.7	4929.7	4929.7	4929.7	4929.7	4929.7	4929.7	4929.7
5°	4941.3	4938.2	4939.6	4926.9	4919.3	4921.1	4923.7	4914.3	4921.2	4914.2	4913.3
10°	4912.5	4933.8	4933.9	4916.0	4906.1	4897.4	4892.2	4891.5	4889.0	4880.1	4890.7
15°	4873.1	4900.2	4899.9	4885.7	4861.5	4862.6	4854.5	4843.3	4850.7	4826.8	4833.7
20°	4812.5	4840.6	4858.2	4836.7	4818.2	4799.4	4786.0	4782.4	4777.8	4753.7	4762.3
25°	4726.4	4756.3	4787.8	4769.0	4743.2	4730.9	4712.0	4704.9	4692.1	4652.0	4656.1
30°	4597.9	4634.3	4684.5	4676.9	4643.1	4638.7	4624.1	4604.0	4571.1	4523.5	4531.6
35°	4418.9	4478.5	4535.1	4549.5	4531.8	4518.7	4499.9	4464.5	4417.5	4355.8	4364.7
40°	4179.5	4247.4	4321.7	4376.0	4372.0	4358.1	4337.1	4285.9	4211.2	4140.1	4130.2
45°	3809.5	3878.2	3995.5	4107.1	4150.1	4151.6	4088.0	4017.1	3932.5	3823.9	3812.0
50°	3130.5	3194.1	3404.2	3669.6	3805.1	3821.1	3671.4	3512.4	3382.0	3216.9	3188.5
55°	2014.5	2090.5	2247.0	2761.3	3069.0	3078.0	2702.2	2410.9	2266.0	2074.7	1948.8
60°	1149.5	1227.8	1369.0	1612.1	1708.9	1662.6	1576.8	1417.0	1244.7	1111.5	1076.6
65°	648.3	716.2	799.9	911.3	943.4	926.0	900.1	789.9	700.4	608.5	596.6
70°	343.5	397.0	455.5	508.8	512.8	509.2	491.7	436.9	373.1	322.1	318.9
75°	166.5	198.0	233.7	263.3	264.1	257.6	243.3	215.0	178.3	152.2	147.3
80°	54.4	72.3	96.2	106.5	114.9	115.5	97.3	82.9	59.5	52.0	48.8
85°	35.4	36.2	37.6	26.6	27.8	28.3	26.6	24.5	22.6	35.1	35.2
90°	34.8	34.6	34.8	20.5	20.8	21.1	21.2	21.0	20.4	34.7	35.0

TEST NUMBER: P600906
CATALOG NUMBER: UHBS-12-MV-L850-U 277V

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	4929.7	4929.7
5°	4926.4	4941.3
10°	4903.2	4912.5
15°	4850.0	4873.1
20°	4783.4	4812.5
25°	4685.5	4726.4
30°	4555.8	4597.9
35°	4386.6	4418.9
40°	4140.6	4179.5
45°	3799.5	3809.5
50°	3158.2	3130.5
55°	1948.6	2014.5
60°	1065.5	1149.5
65°	583.9	648.3
70°	312.7	343.5
75°	150.9	166.5
80°	47.9	54.4
85°	35.2	35.4
90°	35.0	34.8

(END OF REPORT)