

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: P600927

Luminaire Tested: UHBS-30-MV-L850-U 277V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600927
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-30-MV-L850-U 277V
Description: UHB Round Select AT 30000 LUMEN SETTING AND 5000K
Light Source: -
Ballast/Driver: -

Summary

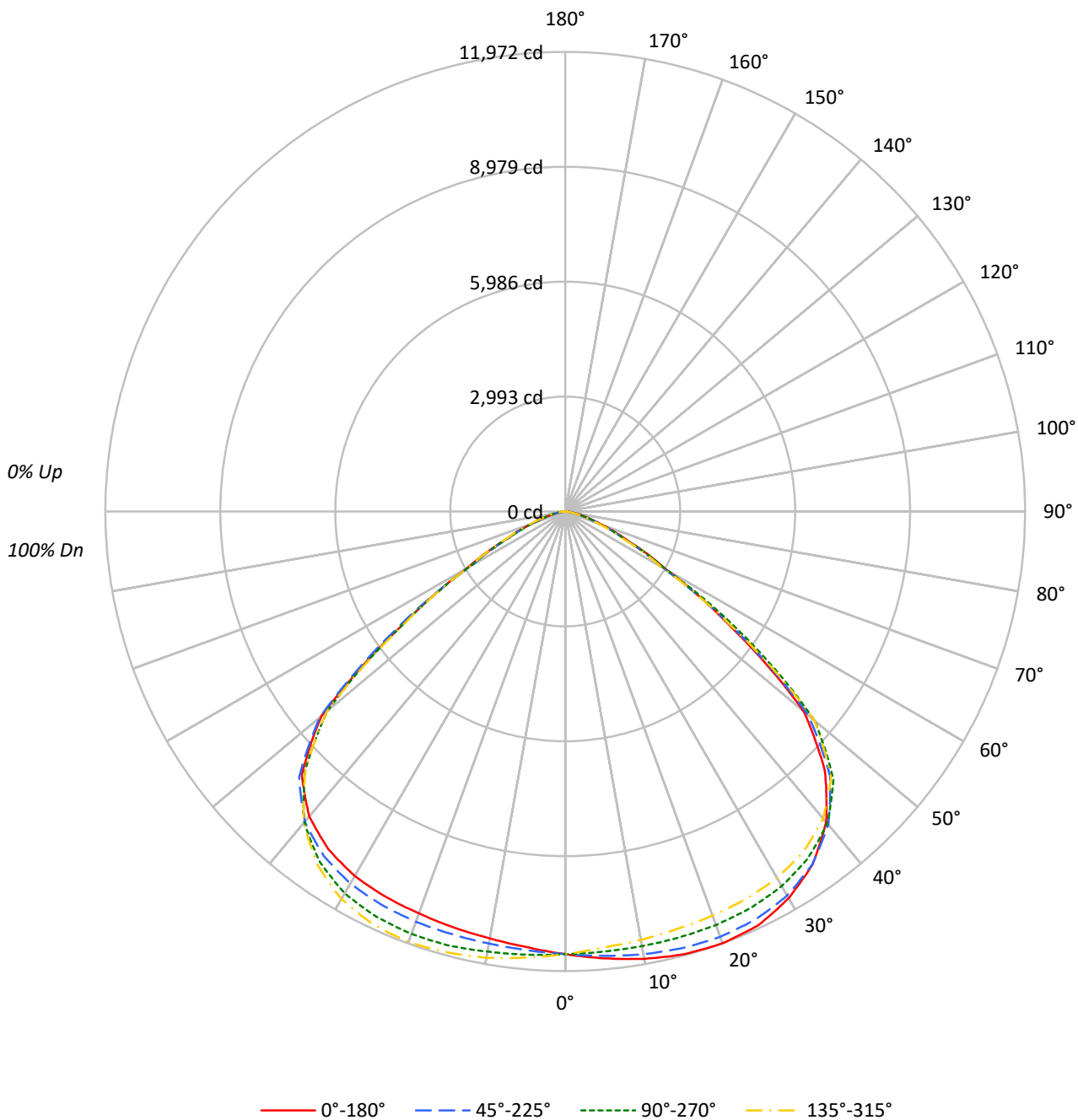
Lumens per Lamp: 31313 (1 lamp)
Luminaire Lumens: 31313.0 lumens
Efficiency: 100.0%
Efficacy: 160.3 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 1.46 / 1.52
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 195.4
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



TEST NUMBER: P600927
CATALOG NUMBER: UHBS-30-MV-L850-U 277V

Luminous Intensity Polar Plot





TEST NUMBER: P600927
 CATALOG NUMBER: UHBS-30-MV-L850-U 277V

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	100
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	68	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	59	47	39	33	58	46	38	33	45	38	33	44	38	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	41	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	89342	89342	89342	89342
5°	90872	89497	88611	90124
10°	93094	90459	88841	91594
15°	95786	92116	89998	93888
20°	98708	94513	91856	96550
25°	101670	97451	94663	99548
30°	104085	100834	98088	102753
35°	106191	104260	101624	105386
40°	106888	107361	104851	106898
45°	104825	108206	106250	105025
50°	97777	102210	99826	97366
55°	72097	77867	70220	70245
60°	47297	47212	45348	44130
65°	32898	31384	30647	29450
70°	23043	21369	20120	19930
75°	16123	14719	13210	13929
80°	11627	9794	8312	10030
85°	8365	5183	4836	7983

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 108206 cd/sqm



TEST NUMBER: P600927
 CATALOG NUMBER: UHBS-30-MV-L850-U 277V

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	1102.5	3.5	3.5
10°-20°	3281.8	10.5	10.5
20°-30°	5313.0	17.0	17.0
30°-40°	6901.9	22.0	22.0
40°-50°	7384.7	23.6	23.6
50°-60°	4883.6	15.6	15.6
60°-70°	1769.8	5.7	5.7
70°-80°	556.8	1.8	1.8
80°-90°	119.0	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°	9697.3	31.0	31.0
0°-40°	16599.1	53.0	53.0
0°-60°	28867.4	92.2	92.2
0°-90°	31313.0	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°	31313.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11531	11531	11531	11531	11531	
5°	11684	11507	11393	11588	11684	1119
15°	11942	11484	11220	11705	11942	3381
25°	11893	11400	11073	11645	11893	5480
35°	11227	11023	10744	11142	11227	7003
45°	9567	9876	9697	9585	9567	7300
55°	5337	5765	5198	5200	5337	4864
65°	1794	1712	1672	1606	1794	1890
75°	539	492	441	465	539	621
85°	94	58	54	90	94	145
90°	83	48	48	82	83	



TEST NUMBER: P600927
 CATALOG NUMBER: UHBS-30-MV-L850-U 277V

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	11531.3	11531.3	11531.3	11531.3	11531.3	11531.3	11531.3	11531.3	11531.3	11531.3	11531.3
5°	11684.2	11661.8	11577.2	11507.3	11417.8	11378.3	11393.4	11445.1	11494.4	11588.0	11644.9
10°	11833.0	11790.7	11628.8	11498.1	11373.6	11292.6	11292.5	11376.9	11479.9	11642.4	11789.0
15°	11941.8	11864.2	11684.1	11484.2	11318.1	11200.3	11220.2	11324.0	11476.0	11705.1	11839.9
20°	11971.8	11887.4	11694.3	11463.0	11267.4	11145.1	11140.8	11283.6	11457.5	11710.1	11900.4
25°	11893.0	11814.2	11638.6	11399.5	11196.5	11075.1	11073.4	11219.2	11395.4	11644.8	11841.5
30°	11634.3	11625.0	11480.2	11270.9	11088.0	10958.4	10964.0	11109.0	11268.6	11485.4	11631.5
35°	11227.3	11252.0	11182.9	11023.1	10870.9	10758.2	10744.4	10892.1	11021.3	11142.2	11249.9
40°	10568.3	10630.1	10679.4	10615.1	10468.8	10415.5	10366.9	10518.7	10574.0	10569.3	10590.7
45°	9566.9	9682.2	9819.3	9875.5	9799.0	9775.5	9697.0	9811.5	9781.8	9585.2	9580.4
50°	8112.0	8235.2	8286.5	8479.8	8467.5	8479.4	8282.0	8377.8	8290.0	8077.9	8098.8
55°	5337.4	5463.2	5464.7	5764.6	5518.2	5468.4	5198.5	5381.3	5483.0	5200.3	5154.0
60°	3052.3	2966.5	2894.5	3046.8	2939.8	2824.8	2926.5	2807.9	2776.3	2847.9	2874.9
65°	1794.5	1710.1	1689.6	1711.9	1678.3	1598.8	1671.7	1606.9	1596.2	1606.4	1687.8
70°	1017.2	964.1	947.5	943.3	909.3	868.9	888.2	880.1	882.7	879.8	955.3
75°	538.6	516.2	508.1	491.7	457.4	435.1	441.3	447.7	451.5	465.3	509.6
80°	260.6	258.9	247.7	219.5	197.7	186.2	186.3	199.1	202.1	224.8	244.2
85°	94.1	92.5	90.8	58.3	56.1	55.4	54.4	54.9	55.9	89.8	92.9
90°	82.8	82.9	82.4	48.3	47.9	47.8	47.8	47.9	47.9	82.3	82.7

TEST NUMBER: P600927
CATALOG NUMBER: UHBS-30-MV-L850-U 277V

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	11531.3	11531.3
5°	11686.5	11684.2
10°	11822.6	11833.0
15°	11938.0	11941.8
20°	11967.3	11971.8
25°	11880.5	11893.0
30°	11677.0	11634.3
35°	11235.7	11227.3
40°	10573.8	10568.3
45°	9553.4	9566.9
50°	8078.9	8112.0
55°	5138.8	5337.4
60°	2885.9	3052.3
65°	1705.3	1794.5
70°	968.4	1017.2
75°	523.3	538.6
80°	256.8	260.6
85°	93.6	94.1
90°	82.7	82.8

(END OF REPORT)