

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: P600929

Luminaire Tested: UHBS-36-MV-L850-U 277V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600929
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-36-MV-L850-U 277V
Description: UHB Round Select AT 36000 LUMEN SETTING AND 5000K
Light Source: -
Ballast/Driver: -

Summary

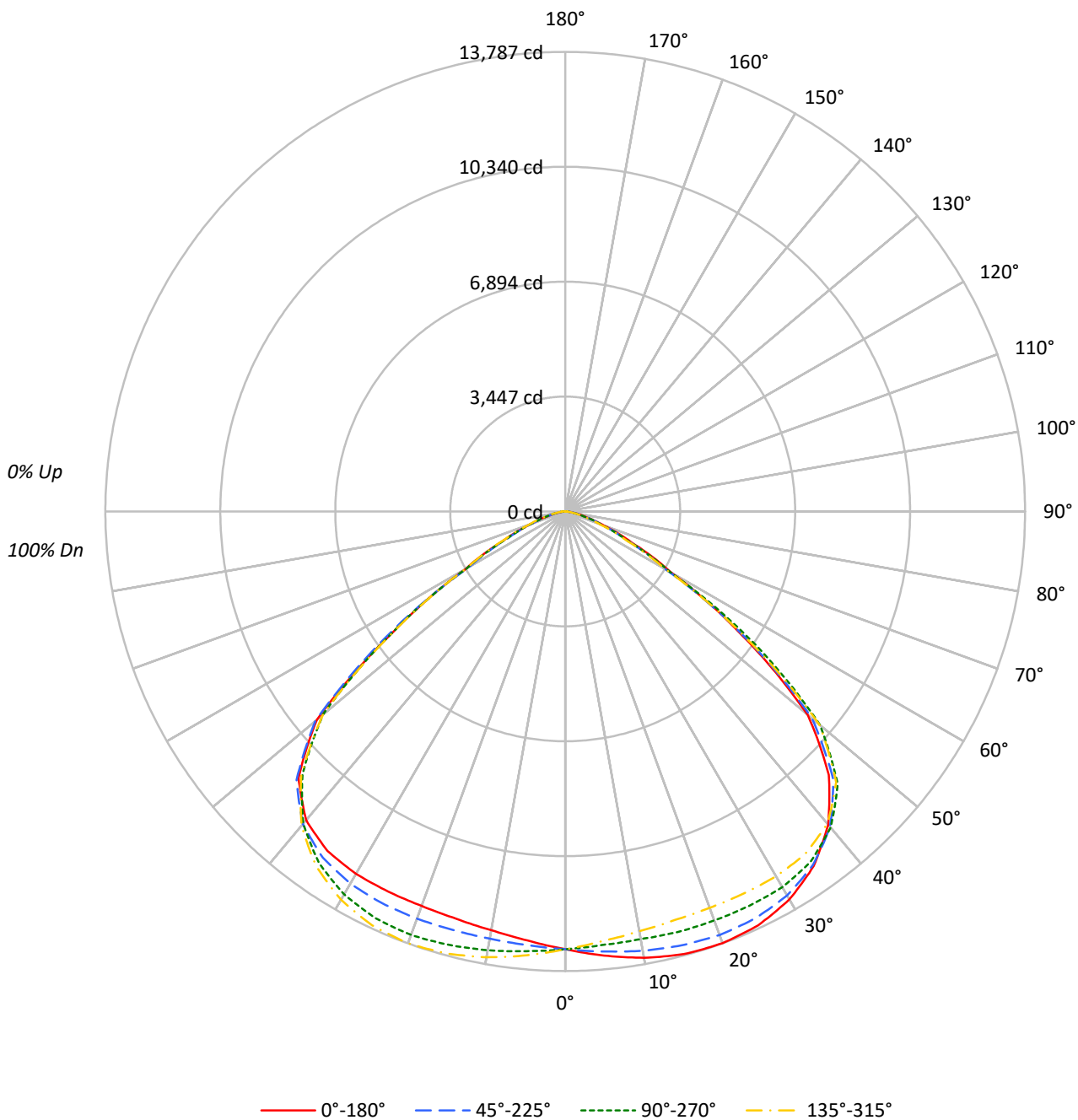
Lumens per Lamp: 36462 (1 lamp)
Luminaire Lumens: 36462.0 lumens
Efficiency: 100.0%
Efficacy: 154.1 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 1.48 / 1.54
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 236.6
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



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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				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	98	100	98	95	97	94	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65
4	86	76	68	62	84	74	67	61	72	65	60	70	64	59	67	63	59	57
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	101752	101752	101752	101752
5°	104013	101502	100481	102968
10°	106965	102481	100339	105154
15°	110278	104747	101426	107984
20°	113636	107668	103814	111464
25°	117098	111587	107517	115094
30°	120251	116429	112264	118647
35°	122860	121341	117563	121738
40°	124043	125182	122230	123630
45°	122457	126592	123877	122017
50°	114354	120164	117140	114167
55°	87420	94001	84804	84987
60°	57196	56080	53554	52869
65°	40010	37370	36526	35553
70°	27936	25455	24021	24153
75°	19467	17470	15761	16904
80°	14068	11601	9713	11962
85°	9761	6054	5716	9405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 126592 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	1256.4	3.4	3.4
10°-20°	3747.7	10.3	10.3
20°-30°	6096.6	16.7	16.7
30°-40°	7987.8	21.9	21.9
40°-50°	8620.0	23.6	23.6
50°-60°	5827.3	16.0	16.0
60°-70°	2114.9	5.8	5.8
70°-80°	670.3	1.8	1.8
80°-90°	141.0	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°	11100.7	30.4	30.4
0°-40°	19088.5	52.4	52.4
0°-60°	33535.8	92.0	92.0
0°-90°	36462.0	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°	36462.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	13133	13133	13133	13133	13133	
5°	13374	13051	12920	13239	13374	1282
15°	13748	13059	12645	13462	13748	3891
25°	13698	13053	12577	13463	13698	6317
35°	12990	12829	12430	12871	12990	8106
45°	11176	11554	11306	11136	11176	8516
55°	6472	6959	6278	6292	6472	5819
65°	2182	2038	1992	1939	2182	2293
75°	650	584	526	565	650	751
85°	110	68	64	106	110	172
90°	97	57	56	97	97	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	13133.1	13133.1	13133.1	13133.1	13133.1	13133.1	13133.1	13133.1	13133.1	13133.1	13133.1
5°	13373.8	13299.6	13198.7	13051.0	12961.9	12908.4	12919.6	13002.8	13112.3	13239.4	13348.9
10°	13596.2	13480.0	13283.9	13026.2	12854.2	12717.2	12753.9	12901.5	13120.7	13366.0	13543.4
15°	13748.5	13595.6	13355.7	13058.9	12768.7	12607.6	12644.9	12844.8	13148.0	13462.5	13668.8
20°	13782.4	13641.3	13398.7	13058.6	12749.4	12554.3	12591.1	12836.5	13157.5	13519.0	13753.8
25°	13697.7	13569.2	13373.6	13053.0	12743.9	12557.0	12577.0	12814.5	13126.9	13463.3	13657.0
30°	13441.3	13369.5	13236.0	13014.1	12716.8	12555.6	12548.6	12762.3	13012.7	13262.0	13418.7
35°	12989.7	12967.1	12933.1	12829.1	12613.6	12478.9	12429.6	12586.9	12760.1	12871.0	12992.8
40°	12264.5	12326.9	12383.5	12377.1	12263.2	12187.9	12085.2	12188.5	12280.1	12223.6	12308.7
45°	11176.1	11287.5	11437.9	11553.5	11500.6	11475.8	11305.7	11395.4	11387.6	11136.0	11190.3
50°	9487.3	9615.5	9715.0	9969.3	9956.2	9929.8	9718.4	9831.0	9724.7	9471.8	9499.9
55°	6471.8	6596.1	6617.9	6959.0	6680.8	6591.2	6278.1	6503.7	6576.4	6291.7	6254.3
60°	3691.1	3539.1	3451.0	3619.1	3496.7	3399.5	3456.1	3334.6	3288.0	3411.9	3421.8
65°	2182.4	2065.8	2017.0	2038.4	1991.3	1915.4	1992.4	1890.0	1895.4	1939.3	2019.0
70°	1233.2	1162.7	1151.0	1123.7	1089.4	1045.5	1060.4	1039.3	1038.4	1066.2	1155.8
75°	650.3	638.4	616.0	583.6	551.5	527.4	526.5	536.6	543.2	564.7	614.5
80°	315.3	315.7	299.4	260.0	234.2	222.4	217.7	234.3	239.2	268.1	296.3
85°	109.8	107.7	105.9	68.1	65.7	65.1	64.3	64.7	66.0	105.8	108.7
90°	97.1	96.9	96.5	57.3	56.6	56.5	56.5	56.6	56.7	96.6	97.0

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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	13133.1	13133.1
5°	13386.1	13373.8
10°	13617.4	13596.2
15°	13784.8	13748.5
20°	13820.3	13782.4
25°	13738.1	13697.7
30°	13478.0	13441.3
35°	13019.3	12989.7
40°	12292.3	12264.5
45°	11183.2	11176.1
50°	9451.4	9487.3
55°	6249.7	6471.8
60°	3439.8	3691.1
65°	2033.9	2182.4
70°	1170.2	1233.2
75°	639.4	650.3
80°	307.4	315.3
85°	109.5	109.8
90°	97.1	97.1

(END OF REPORT)