

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: P600935

Luminaire Tested: UHBS-36-MV-L850-U 347V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600935
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 347V
Description: UHB Round Select AT 36000 LUMEN SETTING AND 5000K
Light Source: -
Ballast/Driver: -

Summary

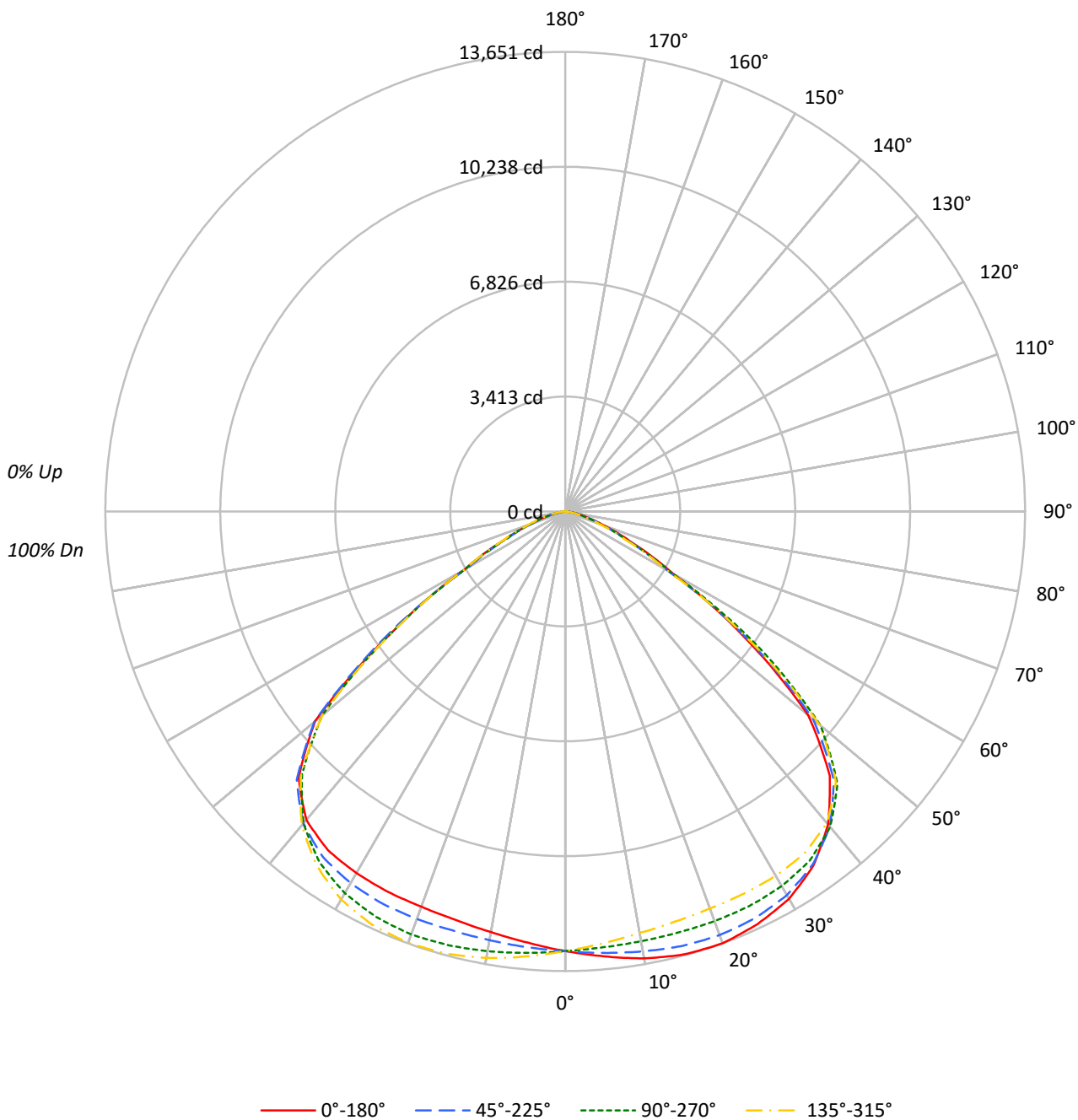
Lumens per Lamp: 36189 (1 lamp)
Luminaire Lumens: 36189.0 lumens
Efficiency: 100.0%
Efficacy: 153.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 1.48 / 1.53
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 235.5
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	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65
4	86	75	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57
5	80	68	59	53	78	67	59	53	65	58	52	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	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	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°	101160	101160	101160	101160
5°	103163	101056	99965	102362
10°	106041	101953	99795	104349
15°	109260	103863	100736	107003
20°	112554	106765	102983	110219
25°	115561	110544	106556	113588
30°	118851	114958	110925	117091
35°	121486	119719	116178	120277
40°	122751	123732	120920	122269
45°	121656	125196	122605	121025
50°	113572	119258	116754	113424
55°	87350	94449	85549	85186
60°	56988	56205	53536	53207
65°	40030	37584	36556	35815
70°	27999	25553	24121	24368
75°	19476	17503	15815	16991
80°	14019	11592	9727	11975
85°	9690	6027	5707	9370

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 125196 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	1248.4	3.4	3.4
10°-20°	3716.4	10.3	10.3
20°-30°	6032.7	16.7	16.7
30°-40°	7895.6	21.8	21.8
40°-50°	8540.8	23.6	23.6
50°-60°	5824.6	16.1	16.1
60°-70°	2118.7	5.9	5.9
70°-80°	671.1	1.9	1.9
80°-90°	140.7	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°	10997.5	30.4	30.4
0°-40°	18893.1	52.2	52.2
0°-60°	33258.5	91.9	91.9
0°-90°	36189.0	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°	36189.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	13057	13057	13057	13057	13057	
5°	13264	12994	12853	13162	13264	1271
15°	13622	12949	12559	13340	13622	3855
25°	13518	12931	12464	13287	13518	6241
35°	12844	12658	12283	12717	12844	8016
45°	11103	11426	11190	11045	11103	8450
55°	6467	6992	6333	6306	6467	5800
65°	2184	2050	1994	1954	2184	2291
75°	651	585	528	568	651	751
85°	109	68	64	105	109	171
90°	96	57	56	96	96	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	13056.6	13056.6	13056.6	13056.6	13056.6	13056.6	13056.6	13056.6	13056.6	13056.6	13056.6
5°	13264.5	13194.9	13129.4	12993.6	12896.0	12854.3	12853.3	12938.5	13041.6	13161.5	13249.9
10°	13478.7	13347.7	13185.7	12959.1	12765.9	12656.0	12684.8	12813.0	13042.6	13263.7	13431.5
15°	13621.6	13473.9	13249.9	12948.7	12695.3	12528.3	12558.9	12737.9	13038.1	13340.2	13556.2
20°	13651.2	13508.3	13272.7	12949.1	12638.1	12462.1	12490.3	12708.2	13045.0	13368.0	13589.5
25°	13517.9	13420.6	13240.5	12931.1	12614.6	12439.7	12464.5	12679.7	13023.8	13287.1	13503.2
30°	13284.8	13211.5	13105.7	12849.7	12580.3	12415.3	12398.9	12612.7	12876.0	13088.1	13270.5
35°	12844.4	12818.6	12793.5	12657.6	12452.5	12323.0	12283.2	12427.9	12642.9	12716.6	12841.6
40°	12136.7	12184.3	12254.6	12233.7	12122.9	12032.6	11955.7	12041.3	12144.0	12089.1	12150.3
45°	11103.0	11202.3	11346.2	11426.1	11384.8	11349.0	11189.6	11283.8	11257.0	11045.4	11084.7
50°	9422.4	9551.4	9681.0	9894.1	9867.9	9846.5	9686.4	9767.1	9670.8	9410.1	9416.7
55°	6466.6	6582.5	6640.0	6992.2	6746.2	6638.7	6333.3	6512.5	6556.9	6306.4	6283.6
60°	3677.7	3536.8	3453.1	3627.2	3505.2	3397.0	3454.9	3333.0	3298.3	3433.7	3433.3
65°	2183.5	2065.0	2015.8	2050.1	2000.0	1917.0	1994.0	1885.9	1898.4	1953.6	2027.7
70°	1236.0	1163.4	1152.2	1128.0	1091.3	1045.1	1064.8	1036.8	1039.1	1075.7	1158.1
75°	650.6	638.1	616.5	584.7	552.6	525.5	528.3	534.9	542.3	567.6	614.8
80°	314.2	315.3	299.3	259.8	235.3	222.3	218.0	232.9	239.4	268.4	296.6
85°	109.0	107.1	105.3	67.8	65.5	64.8	64.2	64.4	65.8	105.4	108.0
90°	96.5	96.3	96.0	57.1	56.4	56.3	56.3	56.3	56.4	96.1	96.4



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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	13056.6	13056.6
5°	13284.0	13264.5
10°	13505.1	13478.7
15°	13637.4	13621.6
20°	13674.7	13651.2
25°	13590.6	13517.9
30°	13344.8	13284.8
35°	12859.8	12844.4
40°	12179.4	12136.7
45°	11093.6	11103.0
50°	9392.4	9422.4
55°	6283.4	6466.6
60°	3450.3	3677.7
65°	2041.3	2183.5
70°	1174.6	1236.0
75°	641.2	650.6
80°	307.4	314.2
85°	108.9	109.0
90°	96.6	96.5

(END OF REPORT)