

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: P600934

Luminaire Tested: UHBS-36-MV-L840-U 347V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600934
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-L840-U 347V
Description: UHB Round Select AT 36000 LUMEN SETTING AND 4000K
Light Source: -
Ballast/Driver: -

Summary

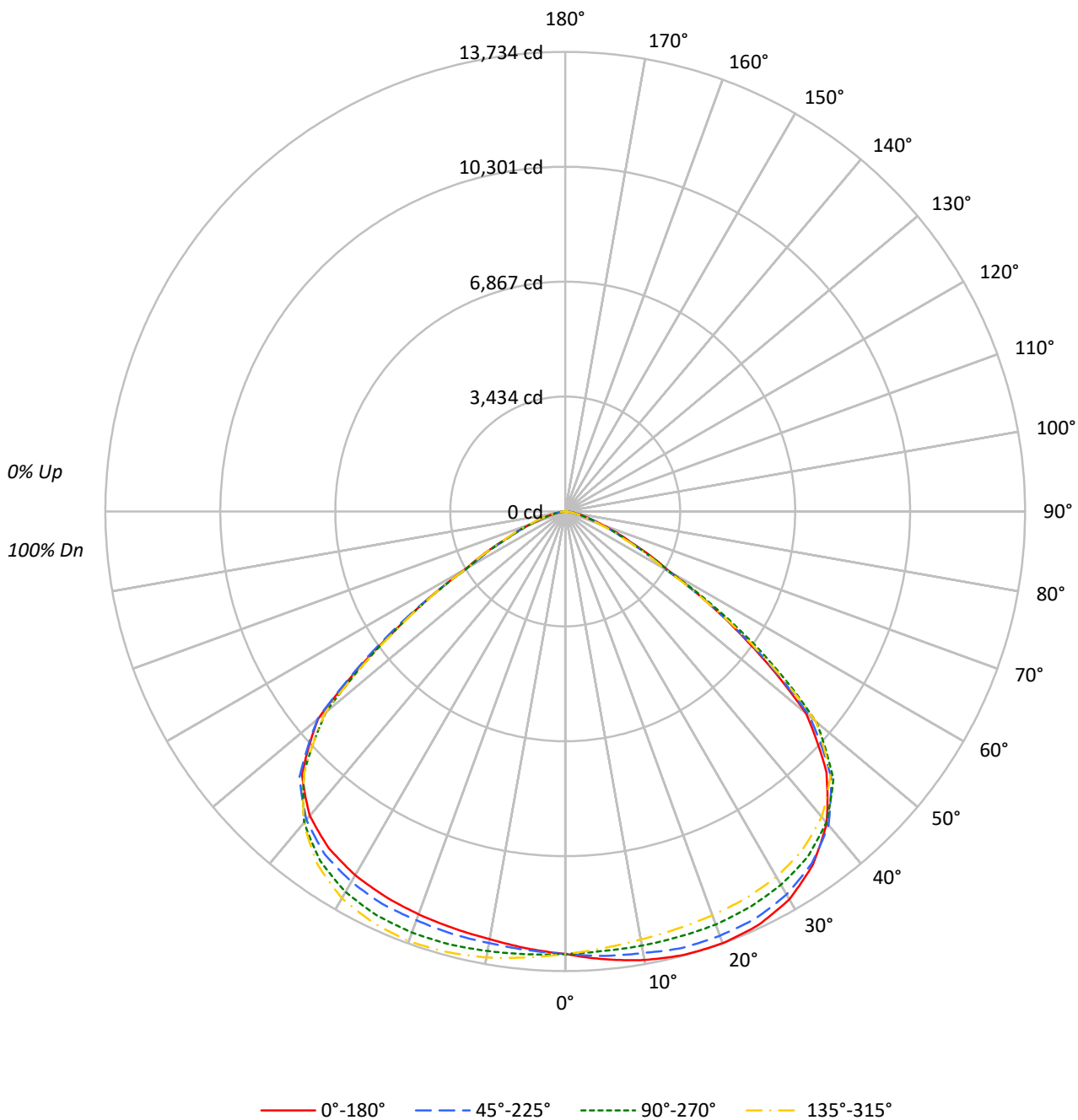
Lumens per Lamp: 36117 (1 lamp)
Luminaire Lumens: 36117.0 lumens
Efficiency: 100.0%
Efficacy: 154.0 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 1.46 / 1.52
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 234.5
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	99	100	98	95	97	95	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	75	70	78	73	69	75	71	68	66
4	86	76	68	62	84	74	67	61	72	66	60	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	60	52	47	59	52	46	57	51	46	55	50	46	44
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	59	46	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	102460	102460	102460	102460
5°	104481	102521	101926	103294
10°	107080	103649	102092	104923
15°	110045	105531	103422	107398
20°	113234	108317	105614	110378
25°	116622	111513	108598	113855
30°	119752	115272	112250	117429
35°	121945	119273	116289	120607
40°	122934	122676	120034	122661
45°	120908	124095	121832	120848
50°	113163	118080	116126	112410
55°	86318	92395	84169	83874
60°	55669	55620	53038	52226
65°	39111	37041	36158	34909
70°	27208	24995	23763	23421
75°	18979	17141	15545	16395
80°	13662	11333	9682	11721
85°	9654	5983	5618	9227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 124095 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	1264.6	3.5	3.5
10°-20°	3761.6	10.4	10.4
20°-30°	6082.2	16.8	16.8
30°-40°	7898.9	21.9	21.9
40°-50°	8488.1	23.5	23.5
50°-60°	5747.9	15.9	15.9
60°-70°	2082.9	5.8	5.8
70°-80°	652.6	1.8	1.8
80°-90°	138.2	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°	11108.4	30.8	30.8
0°-40°	19007.3	52.6	52.6
0°-60°	33243.3	92.0	92.0
0°-90°	36117.0	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°	36117.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	13224	13224	13224	13224	13224	
5°	13434	13182	13105	13281	13434	1286
15°	13720	13157	12894	13389	13720	3884
25°	13642	13044	12703	13318	13642	6292
35°	12893	12610	12295	12752	12893	8049
45°	11035	11326	11119	11029	11035	8421
55°	6390	6840	6231	6209	6390	5738
65°	2133	2020	1972	1904	2133	2236
75°	634	573	519	548	634	731
85°	109	67	63	104	109	169
90°	96	56	56	95	96	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	13224.4	13224.4	13224.4	13224.4	13224.4	13224.4	13224.4	13224.4	13224.4	13224.4	13224.4
5°	13434.0	13366.2	13300.4	13181.9	13129.8	13069.2	13105.4	13123.0	13187.0	13281.3	13372.2
10°	13610.8	13474.8	13320.3	13174.6	13044.6	12932.8	12976.7	13023.2	13168.0	13336.6	13494.2
15°	13719.5	13591.0	13420.3	13156.7	12983.0	12839.2	12893.7	12972.5	13160.8	13389.4	13584.1
20°	13733.6	13601.1	13384.1	13137.3	12925.8	12759.2	12809.4	12881.5	13112.3	13387.2	13622.3
25°	13642.0	13523.7	13335.0	13044.4	12834.9	12676.5	12703.4	12815.1	13058.2	13318.4	13530.0
30°	13385.6	13285.9	13149.7	12884.8	12676.3	12544.6	12547.0	12671.3	12877.8	13125.9	13322.6
35°	12892.9	12867.9	12807.7	12610.4	12405.4	12291.7	12294.9	12417.3	12614.8	12751.5	12889.7
40°	12154.8	12196.2	12263.6	12129.3	11948.4	11885.1	11868.1	11964.0	12088.8	12127.8	12166.0
45°	11034.8	11154.5	11309.5	11325.6	11222.5	11182.1	11119.1	11239.0	11211.2	11029.3	11030.6
50°	9388.5	9490.6	9573.9	9796.4	9778.8	9781.7	9634.3	9721.0	9574.6	9326.0	9359.7
55°	6390.2	6458.5	6539.6	6840.1	6599.7	6540.8	6231.1	6424.7	6450.5	6209.3	6160.8
60°	3592.6	3472.7	3406.8	3589.4	3449.8	3352.8	3422.8	3309.4	3253.4	3370.4	3399.7
65°	2133.4	2014.2	1975.8	2020.5	1974.8	1875.6	1972.3	1881.0	1868.8	1904.2	1984.4
70°	1201.1	1131.2	1111.8	1103.4	1069.3	1016.5	1049.0	1029.1	1033.0	1033.9	1122.4
75°	634.0	605.4	593.6	572.6	536.1	506.3	519.3	524.7	528.1	547.7	597.0
80°	306.2	300.7	288.8	254.0	230.2	216.1	217.0	230.3	234.5	262.7	285.6
85°	108.6	106.5	104.7	67.3	65.0	64.0	63.2	63.5	64.7	103.8	107.2
90°	96.0	95.8	95.4	56.3	55.8	55.6	55.8	55.7	55.7	95.3	95.8



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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	13224.4	13224.4
5°	13383.2	13434.0
10°	13569.4	13610.8
15°	13679.6	13719.5
20°	13706.8	13733.6
25°	13591.4	13642.0
30°	13362.9	13385.6
35°	12890.6	12892.9
40°	12130.8	12154.8
45°	11003.3	11034.8
50°	9336.4	9388.5
55°	6149.4	6390.2
60°	3406.4	3592.6
65°	2008.3	2133.4
70°	1141.1	1201.1
75°	614.1	634.0
80°	299.9	306.2
85°	107.9	108.6
90°	95.7	96.0

(END OF REPORT)