

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: P600928

Luminaire Tested: UHBS-36-MV-L840-U 277V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600928
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 277V
Description: UHB Round Select AT 36000 LUMEN SETTING AND 4000K
Light Source: -
Ballast/Driver: -

Summary

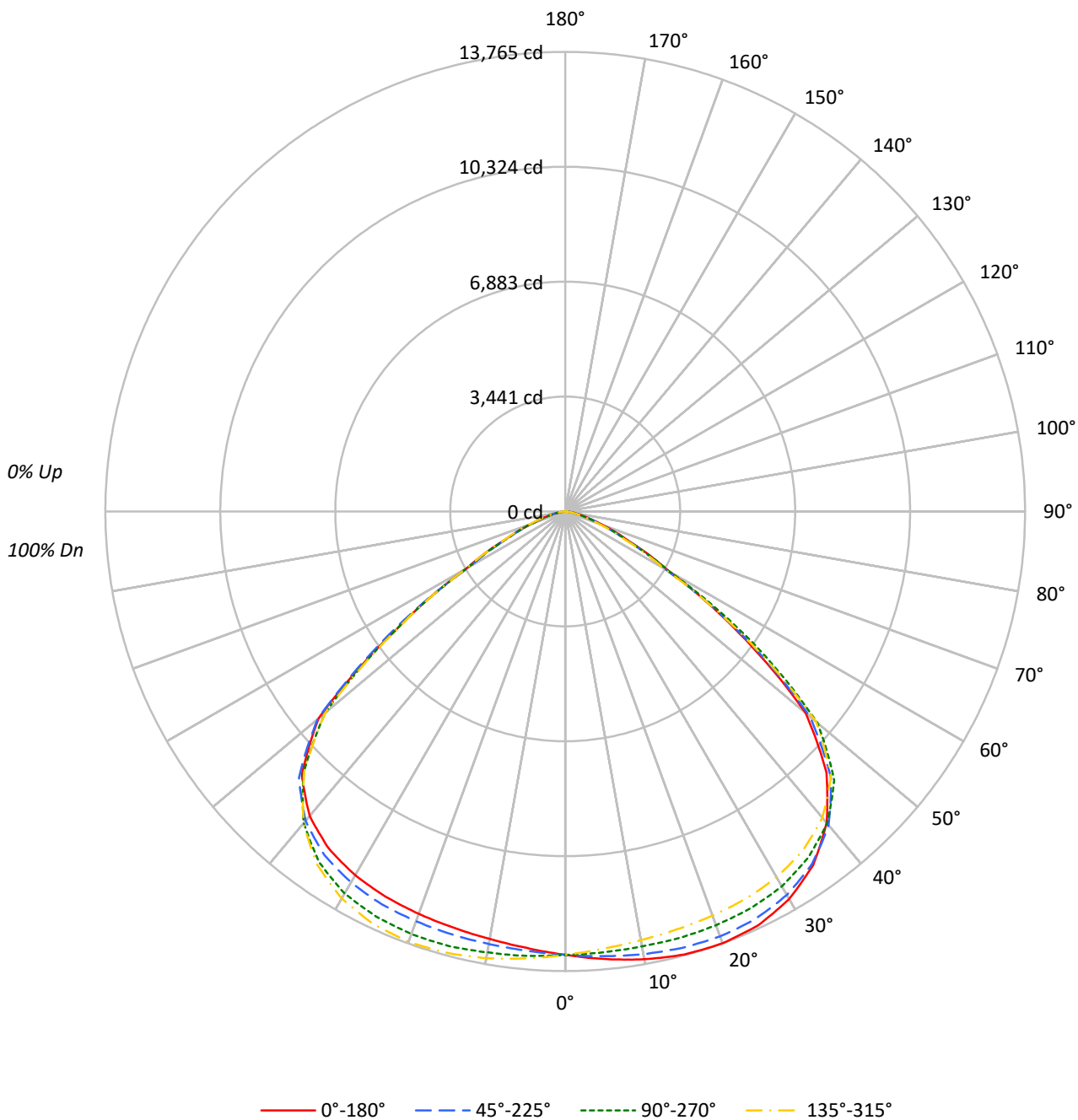
Lumens per Lamp: 36216 (1 lamp)
Luminaire Lumens: 36216.0 lumens
Efficiency: 100.0%
Efficacy: 154.1 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 1.46 / 1.52
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 235
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	53	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	37	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°	102890	102890	102890	102890
5°	104654	103072	102067	103927
10°	107153	104052	102267	105499
15°	110199	106064	103522	108070
20°	113489	108733	105732	111025
25°	116900	112120	108808	114434
30°	119922	116001	112534	118182
35°	122346	119797	116638	121363
40°	123142	123339	120377	123170
45°	121144	124757	122164	121381
50°	113213	118826	116115	112991
55°	85840	92571	83849	83753
60°	55507	55739	52851	52205
65°	38913	37089	35996	34830
70°	27088	25025	23675	23355
75°	18916	17159	15485	16380
80°	13604	11355	9637	11708
85°	9636	5983	5592	9245

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 124757 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	1269.3	3.5	3.5
10°-20°	3774.8	10.4	10.4
20°-30°	6104.5	16.9	16.9
30°-40°	7929.4	21.9	21.9
40°-50°	8516.2	23.5	23.5
50°-60°	5750.8	15.9	15.9
60°-70°	2081.3	5.7	5.7
70°-80°	651.6	1.8	1.8
80°-90°	138.1	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°	11148.6	30.8	30.8
0°-40°	19078.0	52.7	52.7
0°-60°	33345.0	92.1	92.1
0°-90°	36216.0	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°	36216.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	13280	13280	13280	13280	13280	
5°	13456	13253	13124	13363	13456	1288
15°	13739	13223	12906	13473	13739	3890
25°	13674	13115	12728	13386	13674	6305
35°	12935	12666	12332	12831	12935	8068
45°	11056	11386	11149	11078	11056	8434
55°	6355	6853	6207	6200	6355	5721
65°	2123	2023	1964	1900	2123	2227
75°	632	573	517	547	632	728
85°	108	67	63	104	108	168
90°	96	56	56	96	96	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	13280.0	13280.0	13280.0	13280.0	13280.0	13280.0	13280.0	13280.0	13280.0	13280.0	13280.0
5°	13456.2	13406.9	13329.1	13252.8	13166.6	13125.2	13123.6	13169.4	13241.3	13362.7	13413.3
10°	13620.0	13537.2	13389.7	13225.9	13075.7	12999.2	12999.0	13079.4	13225.6	13409.8	13546.1
15°	13738.7	13628.9	13430.4	13223.2	13014.8	12897.0	12906.2	13013.2	13217.0	13473.2	13638.8
20°	13764.6	13646.1	13446.1	13187.7	12943.6	12817.3	12823.7	12944.4	13172.9	13465.7	13657.2
25°	13674.5	13566.2	13367.7	13115.4	12858.2	12738.9	12728.0	12869.6	13102.5	13386.1	13574.9
30°	13404.6	13339.4	13189.1	12966.3	12703.6	12595.9	12578.8	12727.2	12927.3	13210.1	13355.5
35°	12935.3	12926.3	12847.0	12665.8	12441.3	12356.9	12331.8	12470.8	12665.2	12831.4	12924.5
40°	12175.4	12241.3	12288.9	12194.9	12003.2	11946.7	11902.0	12041.1	12140.8	12178.2	12205.9
45°	11056.3	11164.3	11328.9	11386.0	11266.2	11232.3	11149.4	11274.5	11265.4	11077.9	11063.9
50°	9392.6	9523.6	9588.9	9858.3	9806.7	9817.1	9633.4	9736.3	9609.5	9374.2	9367.4
55°	6354.8	6462.6	6537.3	6853.1	6601.4	6528.1	6207.4	6422.5	6464.1	6200.3	6147.1
60°	3582.1	3480.7	3402.2	3597.1	3453.5	3353.6	3410.7	3314.9	3258.3	3369.0	3394.5
65°	2122.6	2012.0	1973.9	2023.1	1969.7	1878.8	1963.5	1883.8	1869.2	1899.9	1979.2
70°	1195.8	1128.6	1112.2	1104.7	1067.5	1015.8	1045.1	1029.3	1034.6	1031.0	1118.4
75°	631.9	604.6	593.2	573.2	534.9	505.9	517.3	524.3	527.6	547.2	595.8
80°	304.9	299.7	288.6	254.5	229.6	215.8	216.0	230.8	234.2	262.4	285.0
85°	108.4	106.5	104.8	67.3	64.8	64.0	62.9	63.5	64.6	104.0	107.1
90°	96.0	96.0	95.6	56.4	55.8	55.7	55.7	55.8	55.8	95.6	95.8



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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	13280.0	13280.0
5°	13457.5	13456.2
10°	13625.8	13620.0
15°	13736.4	13738.7
20°	13768.2	13764.6
25°	13673.1	13674.5
30°	13403.9	13404.6
35°	12936.8	12935.3
40°	12171.6	12175.4
45°	11036.6	11056.3
50°	9362.1	9392.6
55°	6145.6	6354.8
60°	3406.1	3582.1
65°	2009.6	2122.6
70°	1139.0	1195.8
75°	613.3	631.9
80°	299.6	304.9
85°	108.1	108.4
90°	96.0	96.0

(END OF REPORT)