

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: P600901

Luminaire Tested: UHBS-15-MV-L840-U 120V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600901
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-15-MV-L840-U 120V
Description: UHB Round Select AT 15000 LUMEN SETTING AND 4000K
Light Source: -
Ballast/Driver: -

Summary

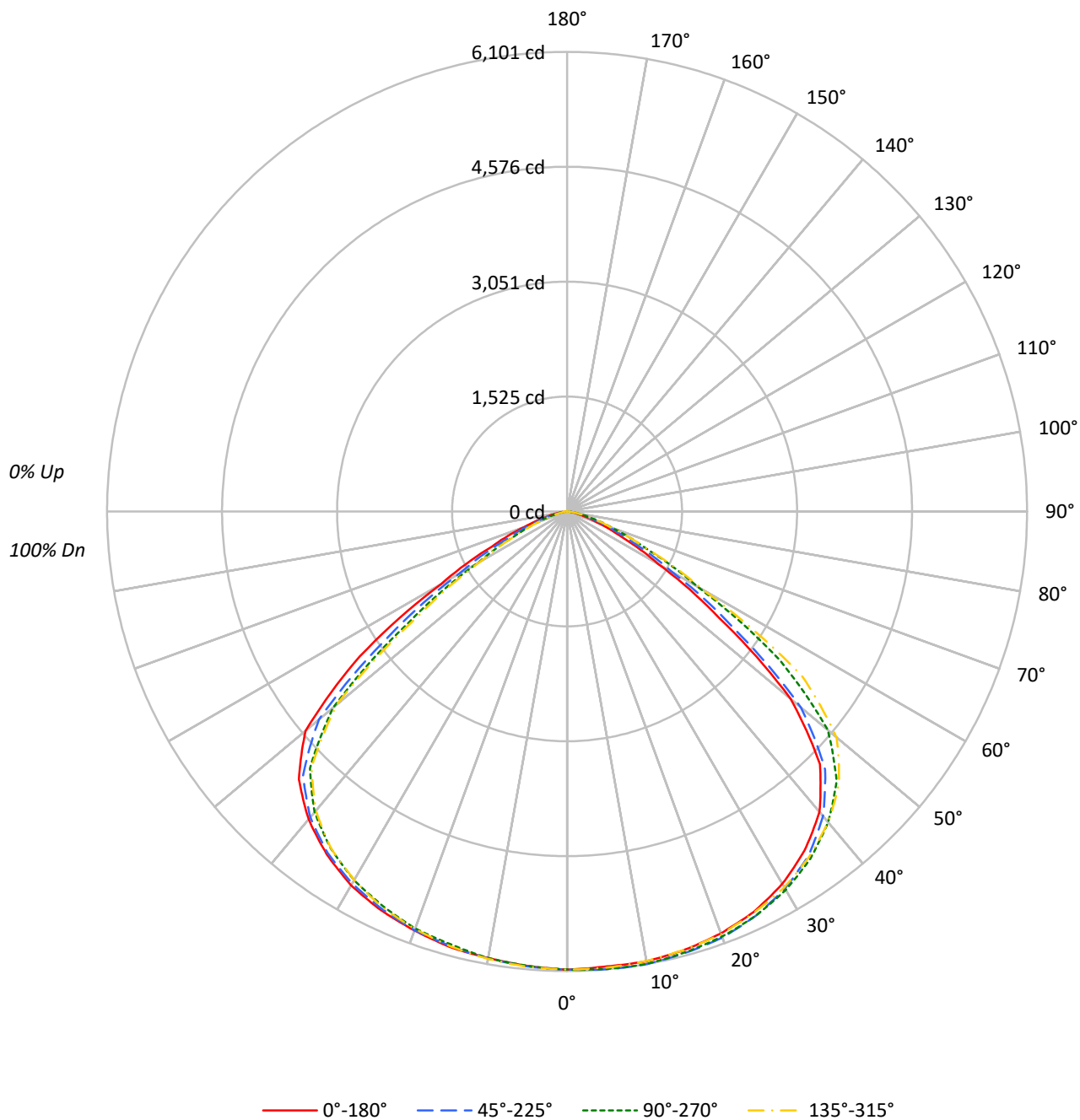
Lumens per Lamp: 16168 (1 lamp)
Luminaire Lumens: 16168.0 lumens
Efficiency: 100.0%
Efficacy: 153.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.4 / 1.5
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 105.1
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				0
RW	70	50	30	10	70	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		100
1	111	107	103	100	108	105	101	98	100	98	95		97	94	92		88
2	102	95	89	84	100	93	88	83	90	85	81		86	83	79		76
3	94	84	77	72	91	83	76	71	80	74	70		77	73	68		65
4	86	75	68	61	84	74	67	61	72	65	60		70	64	59		57
5	80	68	59	53	78	67	59	53	65	58	53		63	57	52		49
6	74	61	53	47	72	60	52	47	58	51	46		57	51	46		43
7	68	55	47	41	67	55	47	41	53	46	41		52	45	41		39
8	64	51	42	37	62	50	42	37	49	42	37		47	41	36		34
9	59	46	38	33	58	46	38	33	45	38	33		44	37	33		31
10	56	43	35	30	54	42	35	30	41	34	30		40	34	30		28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	83340	83340	83340	83340
5°	83390	83854	83298	83287
10°	84378	84865	83781	83765
15°	85477	85964	84957	84423
20°	86937	87592	86331	85895
25°	88668	89550	88319	87412
30°	90348	91812	90664	89411
35°	91894	94116	92958	91388
40°	93192	96370	95418	93178
45°	91942	97993	97498	93461
50°	82577	96244	96519	86336
55°	58760	82456	80188	60978
60°	38333	54774	52921	37650
65°	25706	36888	35691	24143
70°	16754	25505	24255	15944
75°	10797	17289	15870	9796
80°	5509	10600	9652	5177
85°	6840	5111	5173	6825

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 150°

Vertical Angle: 50°

Luminance: 99713 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	579.1	3.6	3.6
10°-20°	1700.8	10.5	10.5
20°-30°	2702.4	16.7	16.7
30°-40°	3464.6	21.4	21.4
40°-50°	3741.3	23.1	23.1
50°-60°	2629.0	16.3	16.3
60°-70°	1000.9	6.2	6.2
70°-80°	293.0	1.8	1.8
80°-90°	56.9	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°	4982.2	30.8	30.8
0°-40°	8446.9	52.2	52.2
0°-60°	14817.2	91.6	91.6
0°-90°	16168.0	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°	16168.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6081	6081	6081	6081	6081	
5°	6062	6095	6055	6054	6062	579
15°	6024	6059	5988	5950	6024	1705
25°	5864	5922	5840	5780	5864	2705
35°	5492	5625	5556	5462	5492	3435
45°	4744	5056	5030	4822	4744	3584
55°	2459	3451	3356	2552	2459	2269
65°	793	1138	1101	744	793	839
75°	204	326	300	185	204	236
85°	44	32	33	43	44	54
90°	43	25	26	43	43	

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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	6081.0	6081.0	6081.0	6081.0	6081.0	6081.0	6081.0	6081.0	6081.0	6081.0	6081.0
5°	6061.5	6099.4	6102.2	6095.2	6087.5	6068.0	6054.8	6064.0	6061.5	6054.0	6061.9
10°	6063.2	6086.7	6115.1	6098.2	6061.1	6055.4	6020.3	6024.3	6025.7	6019.1	6019.0
15°	6024.4	6058.1	6075.3	6058.7	6031.2	6012.0	5987.7	5976.1	5970.0	5950.1	5960.3
20°	5960.9	6023.0	6017.1	6005.8	5988.3	5951.6	5919.3	5930.2	5898.2	5889.4	5882.1
25°	5863.6	5910.0	5933.6	5921.9	5894.4	5851.4	5840.5	5828.7	5808.3	5780.5	5783.2
30°	5709.1	5761.0	5797.0	5801.6	5776.5	5747.3	5729.1	5718.5	5681.4	5649.9	5630.6
35°	5492.5	5557.7	5603.2	5625.3	5604.7	5587.9	5556.1	5553.3	5517.8	5462.3	5455.7
40°	5209.0	5242.6	5318.6	5386.6	5396.0	5379.0	5333.4	5318.0	5277.7	5208.2	5177.7
45°	4743.7	4772.6	4910.7	5055.9	5107.8	5094.0	5030.4	4982.8	4920.3	4822.1	4802.3
50°	3873.0	3925.9	4174.4	4514.0	4661.0	4676.7	4526.9	4362.2	4225.8	4049.3	4031.8
55°	2459.2	2575.6	2800.9	3450.9	3785.3	3816.6	3356.0	3009.9	2753.6	2552.0	2398.5
60°	1398.5	1529.4	1685.9	1998.3	2100.2	2075.8	1930.7	1747.6	1540.8	1373.6	1325.4
65°	792.7	878.2	1013.3	1137.5	1179.0	1119.3	1100.6	991.4	866.4	744.5	737.8
70°	418.1	481.5	569.9	636.5	636.3	615.3	605.3	538.3	453.0	397.9	390.4
75°	203.9	239.3	292.7	326.5	321.1	308.7	299.7	265.4	216.3	185.0	178.9
80°	69.8	91.8	121.7	134.3	137.5	134.5	122.3	105.3	76.8	65.6	60.0
85°	43.5	44.6	46.2	32.5	34.3	35.4	32.9	30.1	27.7	43.4	43.4
90°	43.0	42.9	43.1	25.3	25.6	26.0	26.1	25.9	25.3	43.0	43.3

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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	6081.0	6081.0
5°	6069.3	6061.5
10°	6042.7	6063.2
15°	5991.2	6024.4
20°	5911.0	5960.9
25°	5811.8	5863.6
30°	5663.2	5709.1
35°	5461.0	5492.5
40°	5188.7	5209.0
45°	4776.3	4743.7
50°	3936.2	3873.0
55°	2364.5	2459.2
60°	1294.7	1398.5
65°	717.3	792.7
70°	384.3	418.1
75°	184.5	203.9
80°	60.1	69.8
85°	43.3	43.5
90°	43.3	43.0

(END OF REPORT)