

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: P600902

Luminaire Tested: UHBS-15-MV-L850-U 120V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600902
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-L850-U 120V
Description: UHB Round Select AT 15000 LUMEN SETTING AND 5000K
Light Source: -
Ballast/Driver: -

Summary

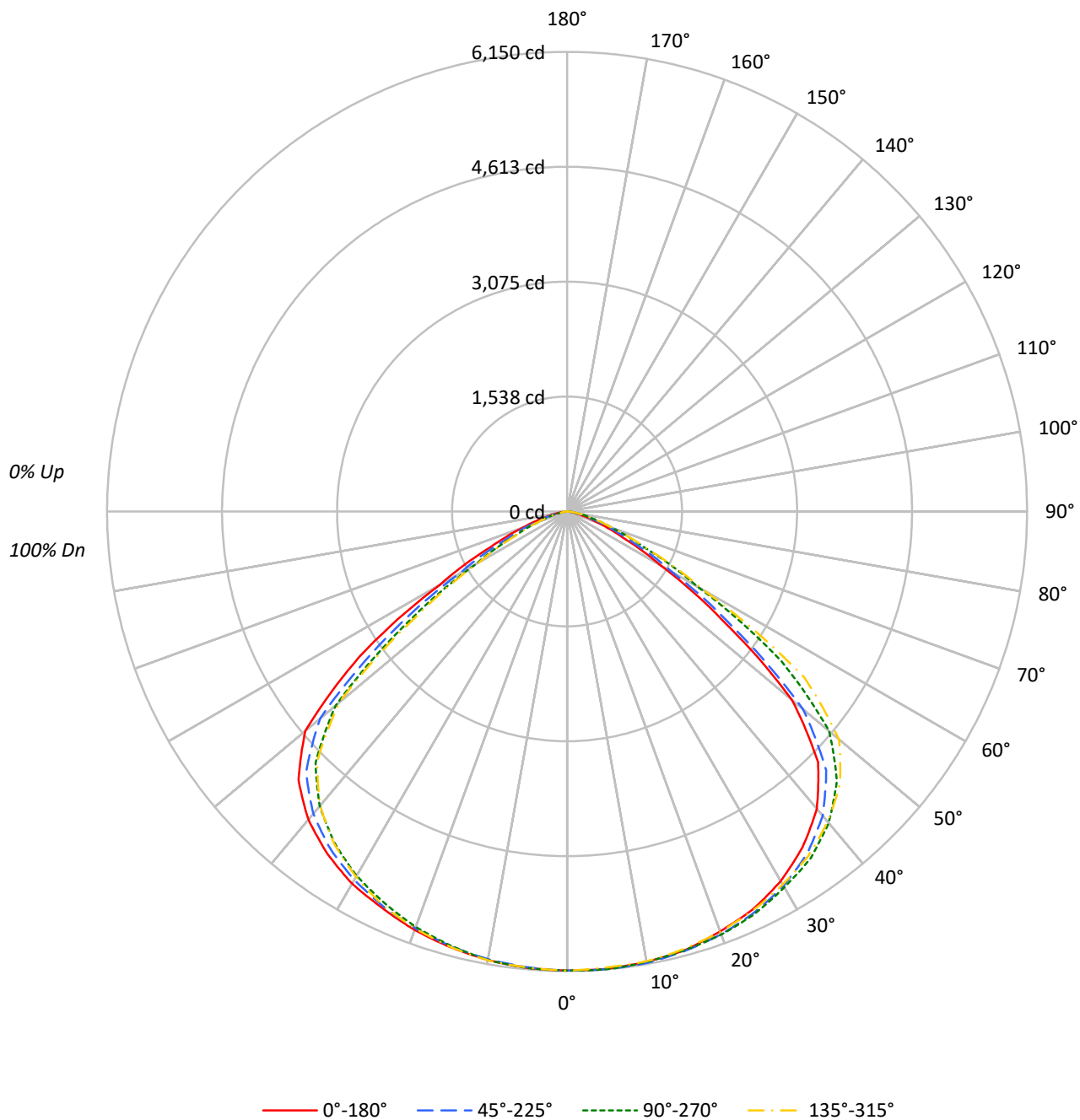
Lumens per Lamp: 16265 (1 lamp)
Luminaire Lumens: 16265.0 lumens
Efficiency: 100.0%
Efficacy: 154.2 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.49
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 105.5
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



TEST NUMBER: P600902
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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	71	91	83	76	71	80	74	70		77	73	68		65
4	86	75	67	61	84	74	67	61	72	65	60		69	64	59		57
5	80	68	59	53	78	67	59	53	65	58	52		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		38
8	63	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	55	43	35	30	54	42	35	30	41	34	30		40	34	30		28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	84194	84194	84194	84194
5°	84501	84602	84326	84369
10°	85149	85173	84814	84819
15°	86263	86228	85630	85317
20°	87225	87897	86920	86280
25°	88865	89827	88508	87403
30°	90403	91929	91006	89049
35°	91798	94880	93503	90641
40°	92938	97334	96273	92026
45°	91988	98861	98417	92155
50°	83680	97568	97351	86050
55°	60373	83662	80994	62789
60°	39528	55333	53957	38492
65°	26339	36975	36401	24734
70°	17271	25445	24688	16141
75°	11056	17405	16166	10077
80°	5335	10465	9597	5106
85°	6950	5205	5205	6903

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 150°

Vertical Angle: 50°

Luminance: 101242 cd/sqm

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 CATALOG NUMBER: UHBS-15-MV-L850-U 120V

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	584.6	3.6	3.6
10°-20°	1711.8	10.5	10.5
20°-30°	2707.4	16.6	16.6
30°-40°	3465.4	21.3	21.3
40°-50°	3752.0	23.1	23.1
50°-60°	2671.7	16.4	16.4
60°-70°	1016.3	6.2	6.2
70°-80°	298.4	1.8	1.8
80°-90°	57.3	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°	5003.9	30.8	30.8
0°-40°	8469.2	52.1	52.1
0°-60°	14893.0	91.6	91.6
0°-90°	16265.0	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°	16265.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6143	6143	6143	6143	6143	
5°	6142	6150	6130	6133	6142	585
15°	6080	6077	6035	6013	6080	1718
25°	5877	5940	5853	5780	5877	2710
35°	5487	5671	5589	5418	5487	3431
45°	4746	5101	5078	4755	4746	3593
55°	2527	3501	3390	2628	2527	2320
65°	812	1140	1122	763	812	863
75°	209	329	305	190	209	241
85°	44	33	33	44	44	54
90°	44	26	27	43	44	

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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3	6143.3
5°	6142.2	6144.8	6147.7	6149.6	6123.1	6124.4	6129.5	6121.2	6123.9	6132.6	6106.4
10°	6118.6	6134.0	6139.0	6120.3	6108.4	6116.5	6094.5	6085.1	6081.4	6094.9	6089.5
15°	6079.8	6084.4	6093.1	6077.3	6059.6	6058.7	6035.2	6026.4	6015.3	6013.1	6008.8
20°	5980.6	6014.1	6027.9	6026.7	5979.9	5987.4	5959.7	5943.2	5927.0	5915.8	5913.7
25°	5876.6	5903.0	5941.6	5940.2	5887.4	5888.2	5853.0	5843.8	5812.5	5779.9	5794.0
30°	5712.6	5763.2	5810.6	5809.0	5774.8	5755.9	5750.7	5711.5	5670.7	5627.0	5618.0
35°	5486.8	5558.3	5627.2	5671.0	5633.5	5618.9	5588.7	5548.2	5480.7	5417.6	5408.7
40°	5194.8	5268.9	5363.8	5440.5	5422.2	5419.5	5381.2	5318.4	5237.3	5143.8	5113.4
45°	4746.1	4826.8	4973.7	5100.7	5155.3	5165.8	5077.8	4990.4	4878.1	4754.7	4721.8
50°	3924.7	3989.6	4245.9	4576.1	4745.4	4748.4	4565.9	4385.8	4231.1	4035.9	3995.0
55°	2526.7	2617.5	2827.1	3501.4	3857.1	3878.2	3389.7	3042.6	2858.1	2627.8	2477.8
60°	1442.1	1540.2	1711.1	2018.7	2133.0	2092.5	1968.5	1774.6	1558.6	1404.3	1350.2
65°	812.2	895.9	1006.1	1140.2	1184.6	1155.5	1122.5	990.5	878.8	762.7	749.5
70°	431.0	495.5	570.7	635.0	641.2	636.6	616.1	547.7	467.3	402.8	398.8
75°	208.8	247.7	293.5	328.7	330.2	323.2	305.3	270.5	222.4	190.3	183.9
80°	67.6	89.8	119.9	132.6	143.3	144.0	121.6	103.0	73.6	64.7	60.4
85°	44.2	45.2	46.8	33.1	34.5	35.2	33.1	30.5	28.2	43.9	43.9
90°	43.5	43.2	43.4	25.6	26.0	26.5	26.6	26.4	25.6	43.3	43.6

TEST NUMBER: P600902
CATALOG NUMBER: UHBS-15-MV-L850-U 120V

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	6143.3	6143.3
5°	6145.2	6142.2
10°	6106.9	6118.6
15°	6053.5	6079.8
20°	5962.4	5980.6
25°	5845.9	5876.6
30°	5668.7	5712.6
35°	5447.7	5486.8
40°	5157.6	5194.8
45°	4721.9	4746.1
50°	3945.2	3924.7
55°	2475.7	2526.7
60°	1348.6	1442.1
65°	730.6	812.2
70°	391.1	431.0
75°	188.3	208.8
80°	59.4	67.6
85°	44.0	44.2
90°	43.8	43.5

(END OF REPORT)