

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: P600914

Luminaire Tested: UHBS-15-MV-L850-U 347V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600914
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 347V
Description: UHB Round Select AT 15000 LUMEN SETTING AND 5000K
Light Source: -
Ballast/Driver: -

Summary

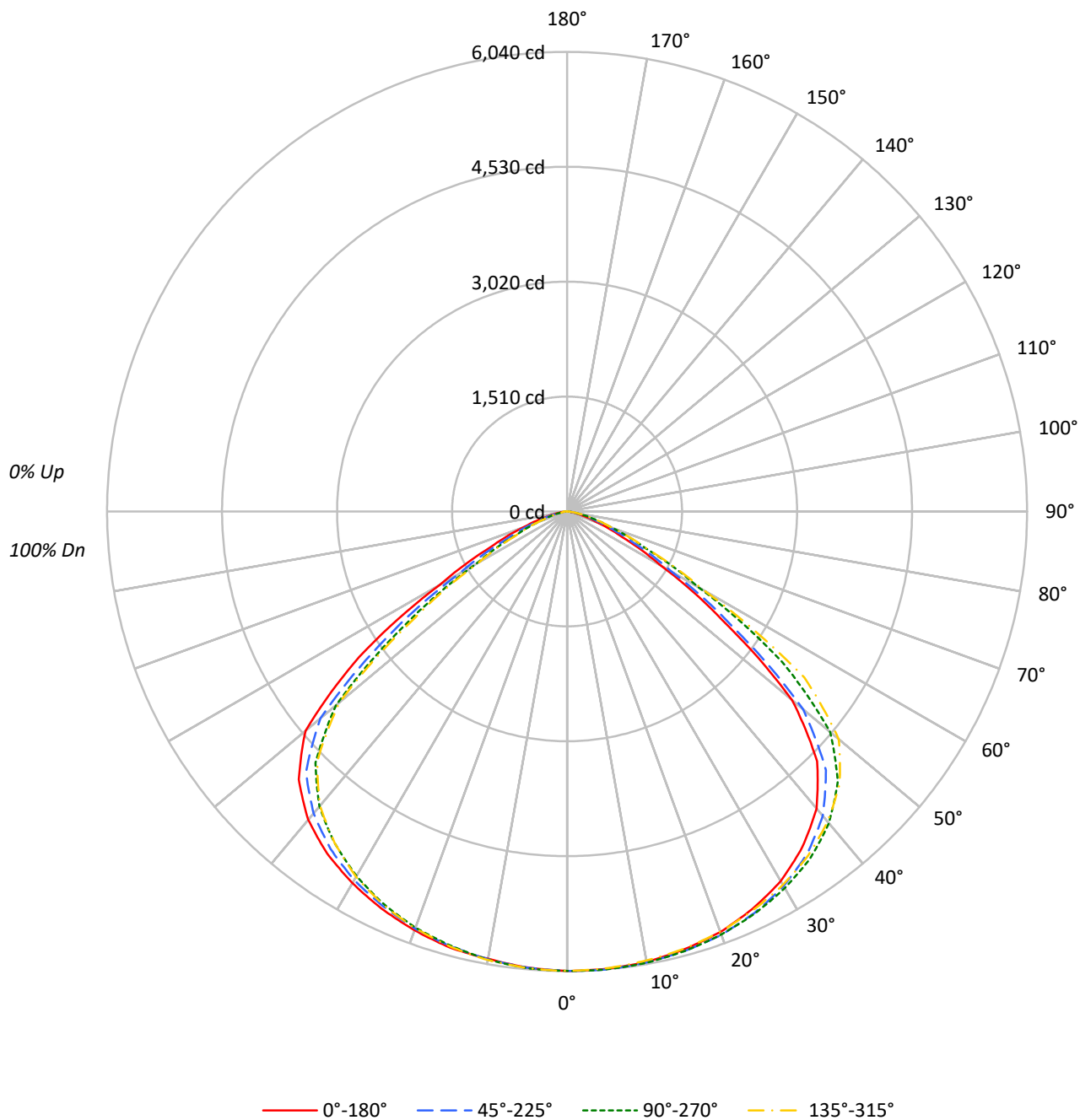
Lumens per Lamp: 15976 (1 lamp)
Luminaire Lumens: 15976.0 lumens
Efficiency: 100.0%
Efficacy: 156.0 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.49
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 102.4
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	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°	82759	82759	82759	82759
5°	82982	83093	82766	82880
10°	83638	83815	83070	83225
15°	84524	84836	84205	83819
20°	85785	86294	85415	84881
25°	87137	88175	87103	86104
30°	88789	90470	89224	87529
35°	90117	93135	91850	89018
40°	91201	95679	94606	90480
45°	90019	97421	96562	90548
50°	82221	96180	95564	84396
55°	59300	82396	79541	61814
60°	38887	54658	52838	37947
65°	25995	36418	35805	24286
70°	16994	25092	24279	15868
75°	10892	17178	15896	9902
80°	5264	10331	9439	5012
85°	6840	5158	5126	6793

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 150°

Vertical Angle: 50°

Luminance: 99413 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	574.3	3.6	3.6
10°-20°	1681.1	10.5	10.5
20°-30°	2659.5	16.6	16.6
30°-40°	3402.6	21.3	21.3
40°-50°	3684.0	23.1	23.1
50°-60°	2624.8	16.4	16.4
60°-70°	999.6	6.3	6.3
70°-80°	293.7	1.8	1.8
80°-90°	56.4	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°	4914.9	30.8	30.8
0°-40°	8317.5	52.1	52.1
0°-60°	14626.3	91.6	91.6
0°-90°	15976.0	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°	15976.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6039	6039	6039	6039	6039	
5°	6032	6040	6016	6024	6032	575
15°	5957	5979	5935	5908	5957	1686
25°	5762	5831	5760	5694	5762	2661
35°	5386	5567	5490	5321	5386	3369
45°	4644	5026	4982	4672	4644	3522
55°	2482	3448	3329	2587	2482	2280
65°	802	1123	1104	749	802	850
75°	206	324	300	187	206	238
85°	44	33	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°	6038.6	6038.6	6038.6	6038.6	6038.6	6038.6	6038.6	6038.6	6038.6	6038.6	6038.6
5°	6031.8	6039.9	6041.1	6039.9	6029.3	6022.1	6016.1	6017.6	6016.8	6024.4	6018.0
10°	6010.0	6015.3	6020.9	6022.7	6004.9	5981.5	5969.2	5975.0	5974.2	5980.3	5981.5
15°	5957.2	5980.9	5976.6	5979.2	5951.5	5943.6	5934.7	5917.2	5908.8	5907.5	5912.9
20°	5881.9	5909.9	5931.1	5916.8	5886.7	5868.7	5856.5	5844.4	5823.6	5819.9	5817.8
25°	5762.3	5803.5	5838.9	5831.0	5791.3	5769.1	5760.1	5728.5	5713.8	5694.0	5685.7
30°	5610.6	5656.1	5716.0	5716.8	5683.0	5652.2	5638.1	5611.1	5572.7	5531.0	5526.7
35°	5386.3	5465.0	5523.1	5566.7	5529.0	5511.2	5489.9	5440.8	5387.4	5320.6	5310.1
40°	5097.7	5179.0	5267.2	5348.0	5327.2	5315.0	5288.0	5216.3	5136.2	5057.4	5034.7
45°	4644.5	4734.8	4880.8	5026.4	5063.1	5057.1	4982.1	4891.2	4804.7	4671.8	4638.3
50°	3856.3	3921.1	4174.3	4511.0	4652.5	4662.6	4482.1	4303.3	4150.8	3958.3	3925.2
55°	2481.8	2577.9	2778.6	3448.4	3797.1	3806.4	3328.9	2970.4	2799.9	2587.0	2434.1
60°	1418.7	1510.2	1683.7	1994.1	2101.9	2052.5	1927.7	1745.2	1529.9	1384.4	1329.2
65°	801.6	880.3	991.7	1123.0	1164.6	1135.2	1104.1	971.9	861.7	748.9	736.4
70°	424.1	488.8	562.2	626.2	632.0	625.6	605.9	538.0	460.3	396.0	392.9
75°	205.7	244.8	288.8	324.4	324.6	317.4	300.2	264.7	218.6	187.0	180.9
80°	66.7	88.6	118.6	130.9	141.3	141.8	119.6	101.3	72.3	63.5	59.6
85°	43.5	44.5	46.1	32.8	34.1	34.7	32.6	30.0	27.7	43.2	43.2
90°	42.7	42.5	42.7	25.3	25.6	26.0	26.2	25.9	25.2	42.6	42.9

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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	6038.6	6038.6
5°	6026.9	6031.8
10°	5990.4	6010.0
15°	5927.6	5957.2
20°	5839.5	5881.9
25°	5723.9	5762.3
30°	5557.4	5610.6
35°	5327.0	5386.3
40°	5056.9	5097.7
45°	4635.7	4644.5
50°	3870.2	3856.3
55°	2433.7	2481.8
60°	1327.7	1418.7
65°	719.0	801.6
70°	385.1	424.1
75°	185.2	205.7
80°	58.5	66.7
85°	43.2	43.5
90°	43.0	42.7

(END OF REPORT)