

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: P600908

Luminaire Tested: UHBS-15-MV-L850-U 277V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600908
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 277V
Description: UHB Round Select AT 15000 LUMEN SETTING AND 5000K
Light Source: -
Ballast/Driver: -

Summary

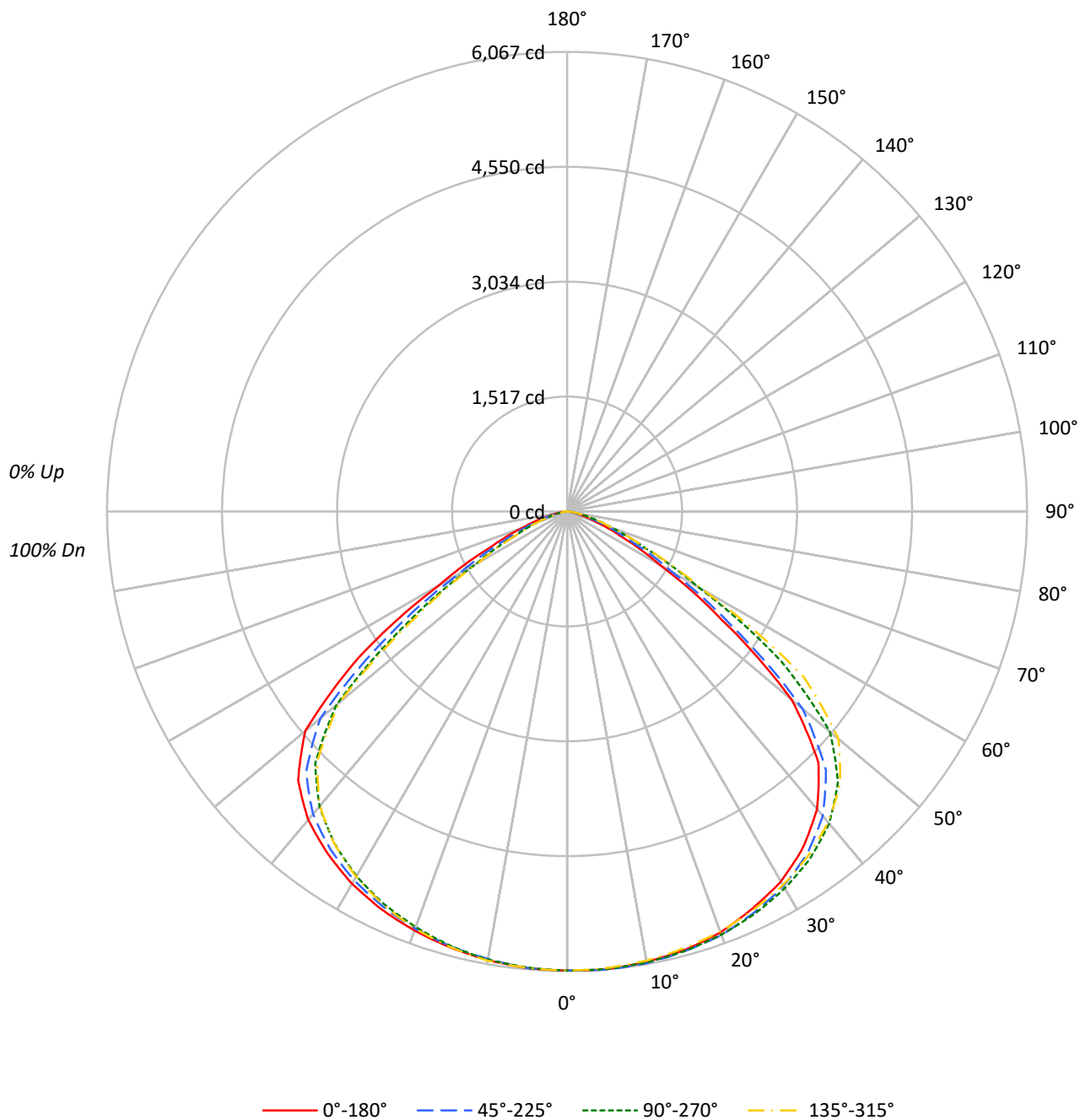
Lumens per Lamp: 16045 (1 lamp)
Luminaire Lumens: 16045.0 lumens
Efficiency: 100.0%
Efficacy: 156.4 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.49
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 102.6
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: P600908
CATALOG NUMBER: UHBS-15-MV-L850-U 277V

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°	83059	83059	83059	83059
5°	83422	83388	83225	83124
10°	83997	84118	83681	83591
15°	85025	85208	84531	84251
20°	86249	86721	85857	85127
25°	87462	88603	87610	86458
30°	89286	90897	89788	87927
35°	90709	93535	92168	89491
40°	91772	96209	95017	90868
45°	90903	97915	97216	91011
50°	82424	96483	96050	84569
55°	59389	82382	79859	61673
60°	38950	54754	53170	37999
65°	26031	36544	35977	24364
70°	16986	25197	24347	15924
75°	10908	17247	15917	9923
80°	5280	10363	9471	5035
85°	6872	5158	5158	6825

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 150°

Vertical Angle: 50°

Luminance: 99764 cd/sqm

TEST NUMBER: P600908
 CATALOG NUMBER: UHBS-15-MV-L850-U 277V

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	576.9	3.6	3.6
10°-20°	1689.2	10.5	10.5
20°-30°	2671.9	16.7	16.7
30°-40°	3420.2	21.3	21.3
40°-50°	3702.1	23.1	23.1
50°-60°	2631.6	16.4	16.4
60°-70°	1002.1	6.2	6.2
70°-80°	294.4	1.8	1.8
80°-90°	56.6	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°	4938.0	30.8	30.8
0°-40°	8358.2	52.1	52.1
0°-60°	14691.9	91.6	91.6
0°-90°	16045.0	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°	16045.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6060	6060	6060	6060	6060	
5°	6064	6061	6050	6042	6064	578
15°	5992	6005	5958	5938	5992	1695
25°	5784	5859	5794	5717	5784	2673
35°	5422	5591	5509	5349	5422	3390
45°	4690	5052	5016	4696	4690	3547
55°	2486	3448	3342	2581	2486	2284
65°	803	1127	1109	751	803	851
75°	206	326	301	187	206	238
85°	44	33	33	43	44	54
90°	43	25	26	43	43	

TEST NUMBER: P600908

CATALOG NUMBER: UHBS-15-MV-L850-U 277V

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	6060.5	6060.5	6060.5	6060.5	6060.5	6060.5	6060.5	6060.5	6060.5	6060.5	6060.5
5°	6063.8	6066.7	6067.4	6061.3	6047.6	6048.7	6049.5	6048.6	6050.2	6042.1	6039.9
10°	6035.8	6054.4	6055.7	6044.5	6032.3	6009.1	6013.1	6008.1	5989.4	6006.6	6008.4
15°	5992.5	6003.5	6013.3	6005.4	5974.4	5960.4	5957.7	5942.3	5941.4	5938.0	5937.7
20°	5913.7	5942.1	5960.4	5946.1	5906.8	5899.7	5886.8	5870.1	5848.7	5836.8	5845.9
25°	5783.8	5830.1	5852.4	5859.3	5808.1	5800.5	5793.6	5772.7	5733.8	5717.4	5712.6
30°	5642.0	5693.2	5726.1	5743.8	5705.3	5685.8	5673.7	5641.6	5597.1	5556.1	5552.0
35°	5421.7	5489.5	5546.6	5590.6	5555.5	5539.3	5508.9	5479.0	5406.6	5348.9	5334.6
40°	5129.6	5205.2	5289.1	5377.6	5363.1	5349.2	5311.0	5255.8	5171.0	5079.1	5060.8
45°	4690.1	4763.1	4894.8	5051.9	5088.1	5090.9	5015.8	4923.0	4811.2	4695.7	4660.4
50°	3865.8	3931.9	4182.6	4525.2	4665.4	4679.1	4504.9	4325.6	4166.2	3966.4	3935.7
55°	2485.5	2588.9	2783.1	3447.8	3793.5	3831.0	3342.2	2993.4	2804.2	2581.1	2432.9
60°	1421.0	1522.3	1687.2	1997.6	2105.6	2054.3	1939.8	1746.2	1534.7	1386.3	1333.3
65°	802.7	883.1	990.6	1126.9	1166.4	1139.3	1109.4	977.0	865.3	751.3	738.4
70°	423.9	490.1	562.7	628.8	632.0	627.3	607.6	539.7	460.2	397.4	394.0
75°	206.0	245.2	288.8	325.7	325.2	318.8	300.6	265.7	218.9	187.4	181.1
80°	66.9	89.1	118.4	131.3	141.6	142.3	120.0	101.8	72.7	63.8	59.8
85°	43.7	44.7	46.2	32.8	34.2	34.8	32.8	30.1	27.8	43.4	43.4
90°	42.9	42.7	42.8	25.3	25.7	26.1	26.3	26.0	25.2	42.8	43.1

TEST NUMBER: P600908
CATALOG NUMBER: UHBS-15-MV-L850-U 277V

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	6060.5	6060.5
5°	6055.0	6063.8
10°	6033.1	6035.8
15°	5967.5	5992.5
20°	5873.0	5913.7
25°	5752.1	5783.8
30°	5580.1	5642.0
35°	5371.9	5421.7
40°	5080.0	5129.6
45°	4653.5	4690.1
50°	3883.9	3865.8
55°	2440.3	2485.5
60°	1322.1	1421.0
65°	720.9	802.7
70°	386.2	423.9
75°	185.8	206.0
80°	58.8	66.9
85°	43.4	43.7
90°	43.1	42.9

(END OF REPORT)