

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: P600925

Luminaire Tested: UHBS-24-MV-L850-U 277V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600925
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-24-MV-L850-U 277V
Description: UHB Round Select AT 24000 LUMEN SETTING AND 5000K
Light Source: -
Ballast/Driver: -

Summary

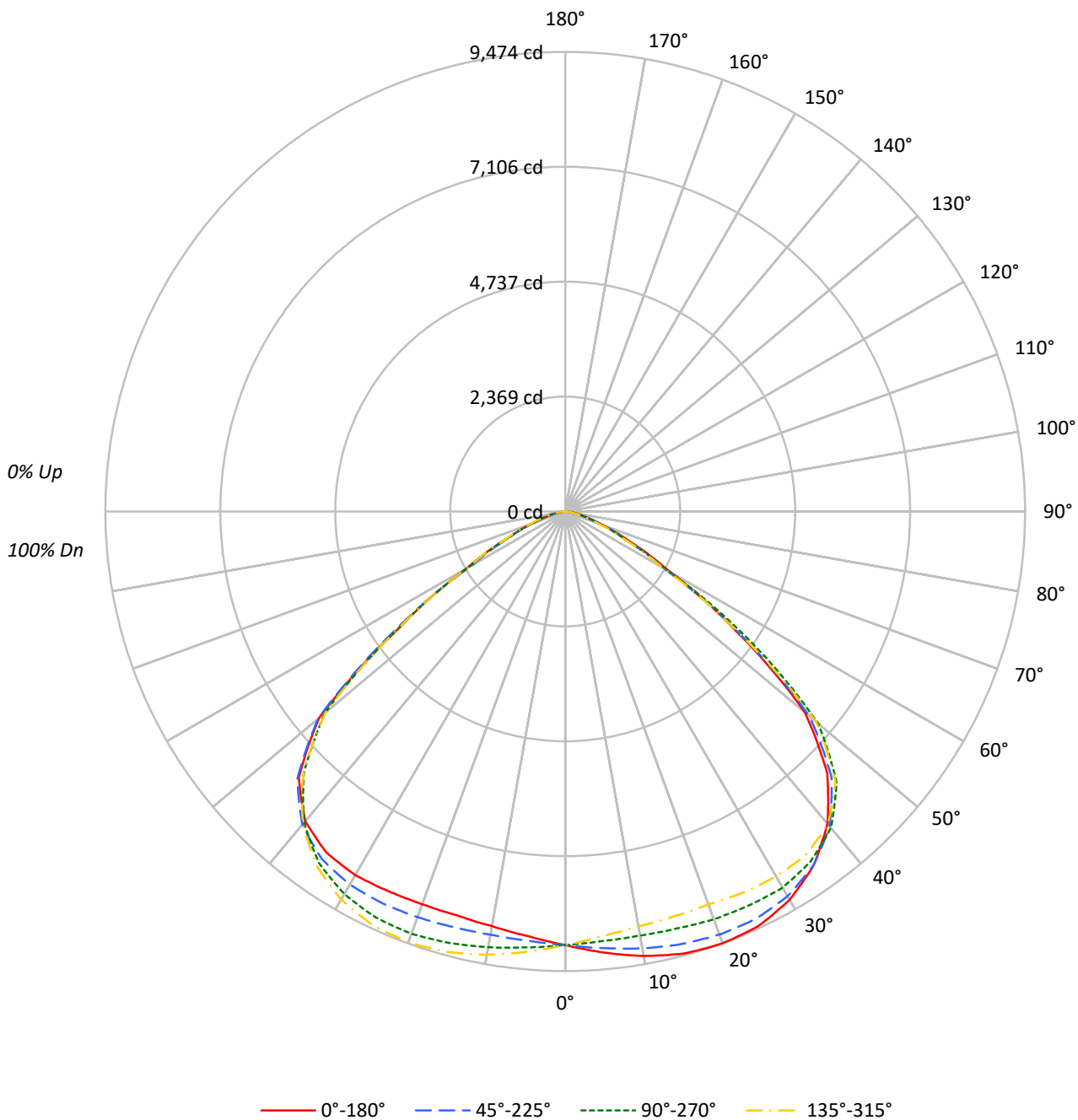
Lumens per Lamp: 24867 (1 lamp)
Luminaire Lumens: 24867.0 lumens
Efficiency: 100.0%
Efficacy: 165.4 lumens/watt
Spacing Criteria (0/90/45): 1.48 / 1.49 / 1.54
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 150.3
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	52	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	47	41	36	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	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	69249	69249	69249	69249
5°	70993	69121	68342	70150
10°	73200	69833	68287	71762
15°	75678	71374	69143	73873
20°	78114	73766	71037	76377
25°	80588	76591	73805	78947
30°	82709	80119	77424	81442
35°	84331	83321	81155	83662
40°	85008	86138	84277	84663
45°	83628	86648	85046	83400
50°	77712	82003	79710	77800
55°	58113	62849	56026	56756
60°	38398	37495	36115	35507
65°	26826	25107	24564	23873
70°	18702	17185	16215	16256
75°	13148	11806	10651	11435
80°	9508	7897	6652	8169
85°	6694	4143	3911	6427

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 86648 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	855.9	3.4	3.4
10°-20°	2561.7	10.3	10.3
20°-30°	4186.3	16.8	16.8
30°-40°	5493.0	22.1	22.1
40°-50°	5895.0	23.7	23.7
50°-60°	3905.3	15.7	15.7
60°-70°	1420.9	5.7	5.7
70°-80°	452.9	1.8	1.8
80°-90°	96.1	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°	7603.9	30.6	30.6
0°-40°	13096.9	52.7	52.7
0°-60°	22897.2	92.1	92.1
0°-90°	24867.0	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°	24867.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8938	8938	8938	8938	8938	
5°	9128	8888	8787	9020	9128	875
15°	9435	8898	8620	9210	9435	2670
25°	9427	8959	8633	9235	9427	4345
35°	8916	8809	8580	8845	8916	5564
45°	7632	7908	7762	7612	7632	5814
55°	4302	4653	4148	4202	4302	3905
65°	1463	1370	1340	1302	1463	1538
75°	439	394	356	382	439	505
85°	75	47	44	72	75	117
90°	66	39	38	66	66	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	8937.9	8937.9	8937.9	8937.9	8937.9	8937.9	8937.9	8937.9	8937.9	8937.9	8937.9
5°	9128.2	9075.5	8994.1	8887.5	8798.3	8769.0	8787.3	8838.0	8925.7	9019.7	9088.0
10°	9304.4	9219.6	9073.0	8876.4	8723.0	8646.0	8679.9	8780.9	8937.9	9121.5	9240.9
15°	9434.9	9328.0	9139.3	8898.3	8690.5	8597.1	8620.2	8762.0	8979.0	9209.8	9353.5
20°	9474.1	9366.6	9196.7	8946.7	8689.4	8550.6	8615.7	8777.1	9020.6	9263.4	9410.6
25°	9426.9	9344.5	9200.4	8959.3	8732.4	8606.0	8633.4	8800.2	9024.0	9235.0	9384.3
30°	9245.0	9197.3	9116.7	8955.5	8736.3	8636.4	8654.2	8789.0	8968.7	9103.4	9211.6
35°	8916.1	8922.2	8899.5	8809.3	8666.7	8620.1	8580.3	8689.8	8797.5	8845.4	8905.7
40°	8405.0	8446.5	8507.1	8516.7	8425.2	8406.9	8332.7	8405.1	8451.0	8370.9	8405.5
45°	7632.4	7706.1	7810.9	7908.0	7871.0	7876.2	7761.8	7816.9	7792.5	7611.6	7622.0
50°	6447.3	6536.5	6611.7	6803.3	6769.8	6750.5	6613.1	6681.2	6610.1	6454.6	6449.4
55°	4302.2	4393.6	4372.1	4652.8	4401.4	4349.6	4147.7	4264.1	4341.7	4201.7	4169.1
60°	2478.0	2377.6	2309.6	2419.7	2353.7	2274.5	2330.7	2223.1	2194.1	2291.4	2283.6
65°	1463.3	1395.9	1356.3	1369.5	1340.1	1292.8	1339.9	1271.6	1267.9	1302.2	1356.2
70°	825.6	788.9	773.7	758.6	734.5	706.3	715.8	699.6	698.8	717.6	777.0
75°	439.2	433.3	417.0	394.4	372.1	359.8	355.8	363.8	367.0	382.0	414.1
80°	213.1	215.4	204.6	177.0	158.8	152.2	149.1	160.0	162.5	183.1	199.8
85°	75.3	73.9	72.6	46.6	44.9	44.4	44.0	44.2	45.1	72.3	74.2
90°	66.1	65.9	65.6	38.8	38.3	38.2	38.3	38.3	38.3	65.7	65.9

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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	8937.9	8937.9
5°	9137.8	9128.2
10°	9315.8	9304.4
15°	9445.4	9434.9
20°	9489.3	9474.1
25°	9422.9	9426.9
30°	9258.2	9245.0
35°	8935.9	8916.1
40°	8413.1	8405.0
45°	7638.8	7632.4
50°	6417.6	6447.3
55°	4159.6	4302.2
60°	2318.2	2478.0
65°	1372.0	1463.3
70°	787.0	825.6
75°	431.9	439.2
80°	208.6	213.1
85°	75.0	75.3
90°	66.1	66.1

(END OF REPORT)