

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: P600909

Luminaire Tested: UHBS-18-MV-L840-U 277V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600909
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-18-MV-L840-U 277V
Description: UHB Round Select AT 18000 LUMEN SETTING AND 4000K
Light Source: -
Ballast/Driver: -

Summary

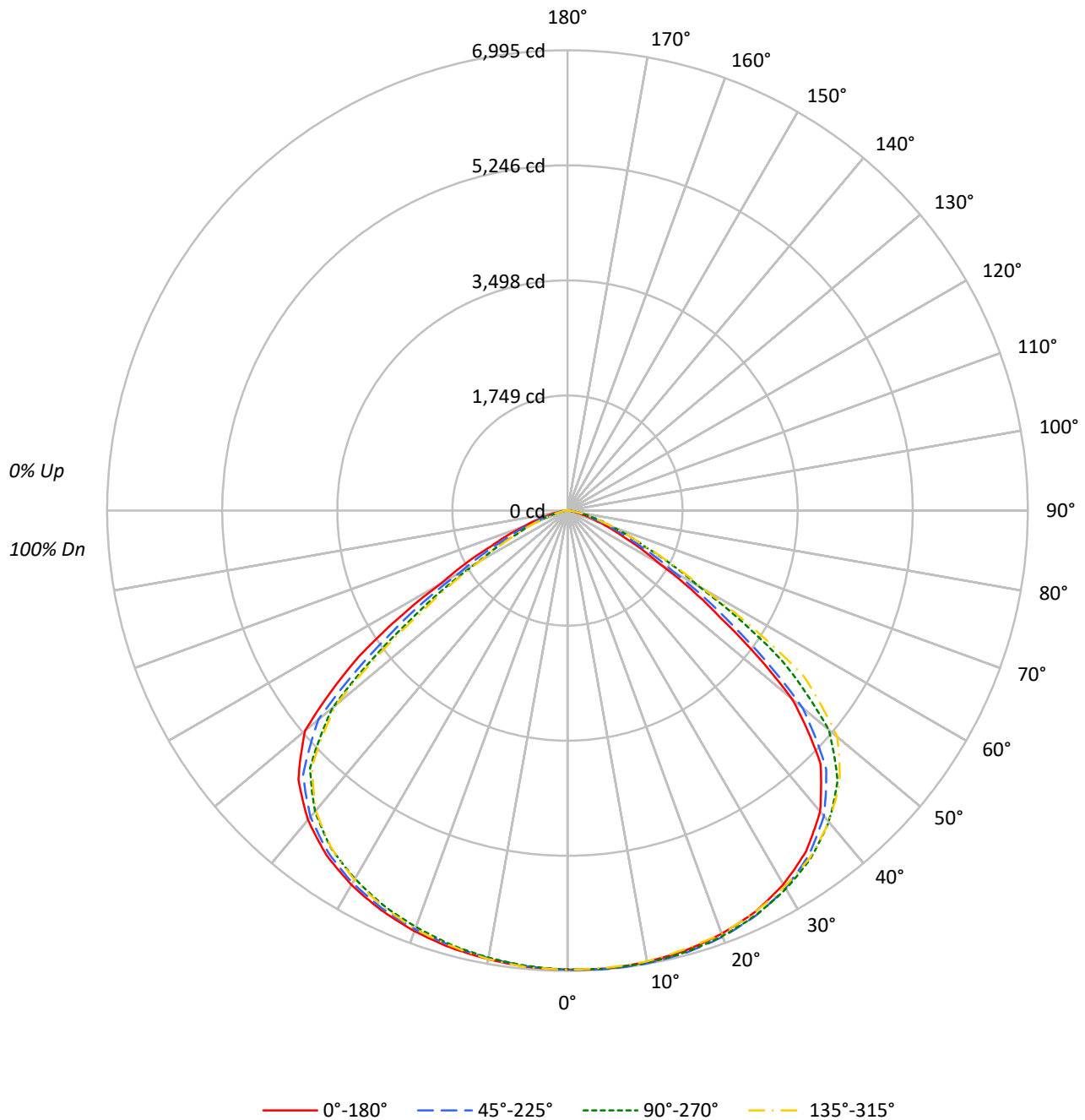
Lumens per Lamp: 18567 (1 lamp)
Luminaire Lumens: 18567.0 lumens
Efficiency: 100.0%
Efficacy: 152.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.4 / 1.5
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 122
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°	95605	95605	95605	95605
5°	96098	96069	95769	95579
10°	96888	97119	96352	96010
15°	98204	98577	97543	96933
20°	99855	100383	99194	98207
25°	101841	102550	101300	100120
30°	103831	105060	103931	102236
35°	105770	107883	106886	104776
40°	106827	110512	109750	106770
45°	105443	112514	112058	107205
50°	95099	110532	110979	99293
55°	67785	95371	92544	70585
60°	44278	63156	61018	43187
65°	29799	42423	41253	27753
70°	19466	29244	28050	18332
75°	12507	19868	18417	11252
80°	6330	12202	11231	5935
85°	7894	5897	5975	7847

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 150°

Vertical Angle: 50°

Luminance: 114318 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	664.4	3.6	3.6
10°-20°	1950.2	10.5	10.5
20°-30°	3097.3	16.7	16.7
30°-40°	3973.8	21.4	21.4
40°-50°	4294.3	23.1	23.1
50°-60°	3029.8	16.3	16.3
60°-70°	1154.0	6.2	6.2
70°-80°	337.6	1.8	1.8
80°-90°	65.5	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°	5711.9	30.8	30.8
0°-40°	9685.7	52.2	52.2
0°-60°	17009.8	91.6	91.6
0°-90°	18567.0	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°	18567.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6976	6976	6976	6976	6976	
5°	6985	6983	6961	6948	6985	666
15°	6921	6948	6875	6832	6921	1958
25°	6735	6782	6699	6621	6735	3107
35°	6322	6448	6389	6262	6322	3948
45°	5440	5805	5782	5531	5440	4113
55°	2837	3991	3873	2954	2837	2616
65°	919	1308	1272	856	919	972
75°	236	375	348	212	236	273
85°	50	38	38	50	50	63
90°	50	29	30	49	50	

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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	6975.9	6975.9	6975.9	6975.9	6975.9	6975.9	6975.9	6975.9	6975.9	6975.9	6975.9
5°	6985.2	6989.6	6999.5	6983.1	6965.5	6981.0	6961.3	6954.0	6950.9	6947.5	6945.6
10°	6962.1	6980.2	6990.6	6978.7	6962.8	6951.3	6923.6	6908.6	6904.2	6899.0	6903.3
15°	6921.4	6950.0	6964.5	6947.7	6905.2	6893.6	6874.8	6855.3	6836.3	6831.8	6819.4
20°	6846.6	6886.6	6899.8	6882.8	6846.7	6842.7	6801.3	6778.8	6764.8	6733.6	6735.6
25°	6734.7	6775.2	6800.0	6781.6	6744.2	6722.7	6698.9	6682.3	6656.0	6620.9	6604.2
30°	6561.1	6606.8	6645.0	6638.8	6608.4	6587.4	6567.4	6548.0	6520.6	6460.3	6450.1
35°	6321.9	6364.5	6420.7	6448.2	6445.9	6418.6	6388.6	6359.1	6325.0	6262.5	6232.0
40°	5971.1	6018.6	6105.4	6177.1	6167.3	6188.3	6134.5	6097.1	6051.6	5967.9	5936.8
45°	5440.3	5488.4	5633.2	5805.1	5847.4	5854.2	5781.6	5720.2	5641.6	5531.2	5497.3
50°	4460.3	4523.9	4805.2	5184.1	5343.0	5361.7	5205.1	5019.8	4857.6	4657.0	4641.2
55°	2836.9	2975.3	3251.3	3991.4	4360.4	4388.7	3873.1	3469.6	3180.1	2954.1	2765.0
60°	1615.4	1759.1	1946.2	2304.1	2422.4	2397.3	2226.1	2008.9	1774.3	1575.6	1523.3
65°	918.9	1012.1	1169.3	1308.2	1358.9	1294.3	1272.1	1140.6	998.8	855.8	850.8
70°	485.8	556.0	657.8	729.8	730.6	707.8	700.0	620.6	521.0	457.5	449.5
75°	236.2	275.8	337.8	375.2	368.5	355.0	347.8	307.8	248.5	212.5	205.5
80°	80.2	105.7	140.2	154.6	158.0	154.9	142.3	121.5	87.7	75.2	68.8
85°	50.2	51.3	53.2	37.5	39.5	40.8	38.0	34.6	31.9	49.9	49.9
90°	49.6	49.3	49.6	29.1	29.5	30.0	30.1	29.9	29.1	49.4	49.7

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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	6975.9	6975.9
5°	6986.8	6985.2
10°	6939.9	6962.1
15°	6875.2	6921.4
20°	6794.4	6846.6
25°	6671.5	6734.7
30°	6501.2	6561.1
35°	6278.7	6321.9
40°	5958.6	5971.1
45°	5470.7	5440.3
50°	4524.4	4460.3
55°	2731.0	2836.9
60°	1496.5	1615.4
65°	830.1	918.9
70°	443.9	485.8
75°	213.0	236.2
80°	69.3	80.2
85°	49.9	50.2
90°	49.9	49.6

(END OF REPORT)