

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: P600921

Luminaire Tested: UHBS-30-MV-L850-U 120V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600921
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-30-MV-L850-U 120V
Description: UHB Round Select AT 30000 LUMEN SETTING AND 5000K
Light Source: -
Ballast/Driver: -

Summary

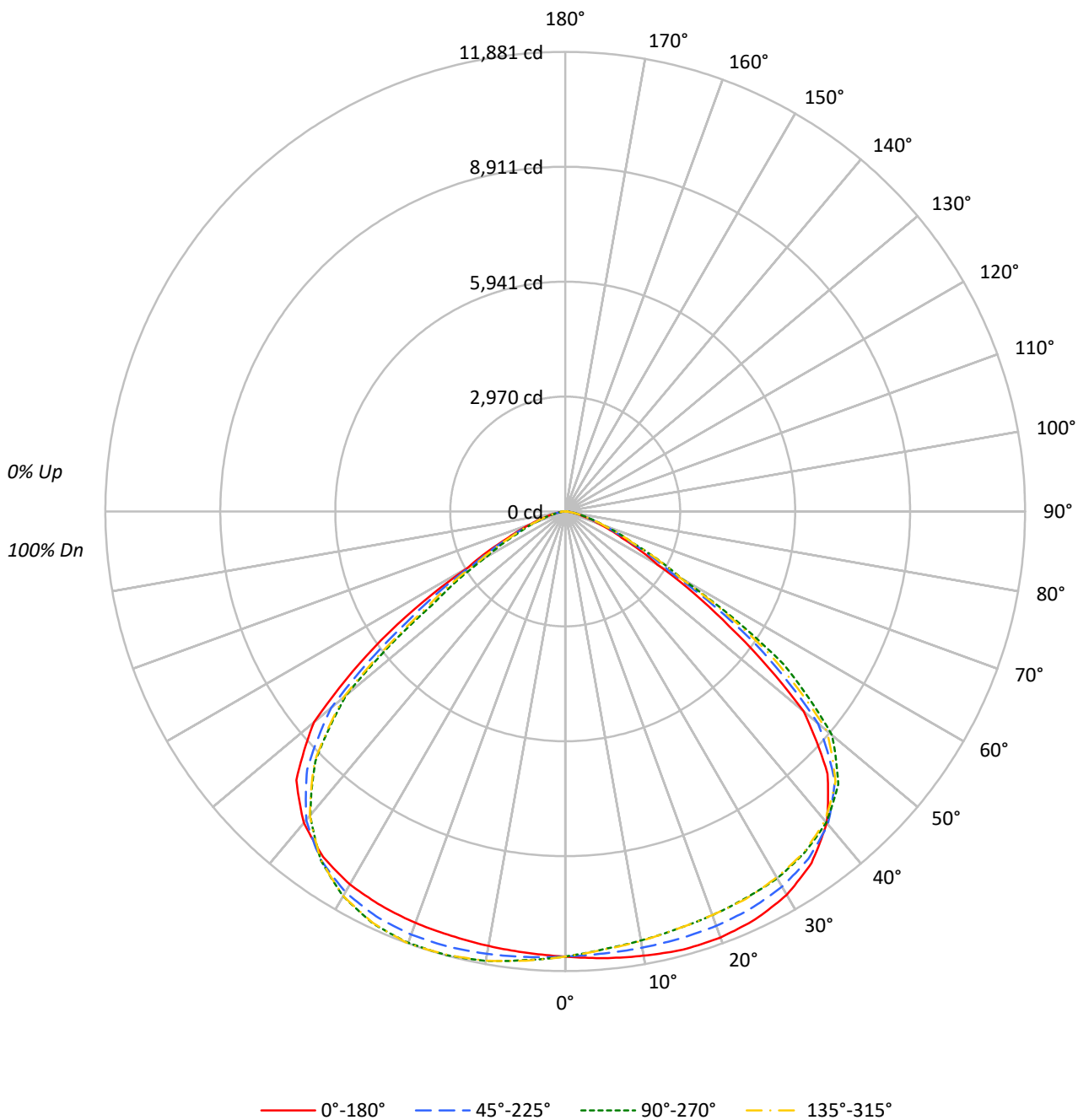
Lumens per Lamp: 31162 (1 lamp)
Luminaire Lumens: 31162.0 lumens
Efficiency: 100.0%
Efficacy: 154.6 lumens/watt
Spacing Criteria (0/90/45): 1.46 / 1.44 / 1.51
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 201.6
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



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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	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	84	74	67	61	72	66	61	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	53	47	59	52	46	57	51	46	56	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	48	41	37	46	41	36	35
9	59	47	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	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	89144	89144	89144	89144
5°	90153	88354	89059	90540
10°	91732	88615	89734	92840
15°	94087	89614	91083	95208
20°	96645	91585	93321	97820
25°	99449	94289	96130	100458
30°	102395	97988	99590	102687
35°	104933	101884	103119	104090
40°	106333	106143	106265	103641
45°	105053	109319	107631	100011
50°	96886	108489	102104	88938
55°	69873	93045	78543	55902
60°	42895	53991	44951	36542
65°	29584	35591	30577	25473
70°	20596	24533	20968	17721
75°	14435	16886	14351	12330
80°	10436	11627	9713	8192
85°	7841	6916	5165	7467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 109319 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	1099.6	3.5	3.5
10°-20°	3266.3	10.5	10.5
20°-30°	5271.8	16.9	16.9
30°-40°	6828.9	21.9	21.9
40°-50°	7300.7	23.4	23.4
50°-60°	4929.5	15.8	15.8
60°-70°	1784.4	5.7	5.7
70°-80°	560.6	1.8	1.8
80°-90°	120.2	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°	9637.7	30.9	30.9
0°-40°	16466.6	52.8	52.8
0°-60°	28696.8	92.1	92.1
0°-90°	31162.0	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°	31162.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11506	11506	11506	11506	11506	
5°	11592	11360	11451	11642	11592	1108
15°	11730	11172	11356	11870	11730	3320
25°	11633	11030	11245	11751	11633	5370
35°	11094	10772	10902	11005	11094	6924
45°	9588	9977	9823	9128	9588	7283
55°	5173	6888	5815	4138	5173	4708
65°	1614	1941	1668	1390	1614	1704
75°	482	564	479	412	482	555
85°	88	78	58	84	88	134
90°	82	48	49	83	82	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	11505.7	11505.7	11505.7	11505.7	11505.7	11505.7	11505.7	11505.7	11505.7	11505.7	11505.7
5°	11591.7	11511.4	11427.2	11360.4	11339.0	11404.2	11451.1	11522.7	11598.2	11641.5	11671.9
10°	11659.9	11521.8	11379.3	11263.7	11248.4	11297.4	11406.0	11541.9	11682.2	11800.7	11806.0
15°	11729.9	11528.5	11331.8	11172.3	11130.0	11214.4	11355.5	11560.1	11741.9	11869.7	11865.5
20°	11721.6	11515.7	11287.8	11107.9	11063.0	11148.0	11318.5	11539.0	11734.8	11864.2	11900.3
25°	11633.2	11446.6	11217.8	11029.6	11009.5	11090.0	11245.0	11461.4	11643.2	11751.2	11763.3
30°	11445.4	11309.5	11094.0	10952.8	10874.6	10968.4	11131.9	11292.8	11427.0	11478.1	11480.5
35°	11094.3	11036.9	10874.7	10771.9	10720.3	10786.3	10902.5	10983.9	11020.5	11005.2	10992.8
40°	10513.4	10595.0	10520.2	10494.7	10408.4	10465.1	10506.7	10458.0	10359.3	10247.3	10209.4
45°	9587.7	9820.9	9876.7	9977.1	9888.3	9860.4	9823.0	9566.6	9289.1	9127.6	9083.3
50°	8038.1	8390.0	8668.0	9000.7	8902.2	8747.1	8471.0	8065.9	7717.2	7378.7	7346.4
55°	5172.8	5806.7	6299.7	6888.2	6595.6	6375.7	5814.6	5337.7	4686.6	4138.5	4273.1
60°	2768.2	2990.8	3343.4	3484.3	3531.0	3352.1	2900.9	2768.5	2660.9	2358.2	2512.6
65°	1613.7	1707.9	1926.8	1941.4	1998.6	1850.8	1667.9	1543.5	1513.3	1389.5	1486.0
70°	909.2	967.2	1070.2	1083.0	1104.4	1025.2	925.6	836.7	823.3	782.3	827.1
75°	482.2	522.1	564.1	564.1	564.3	535.9	479.4	424.7	409.9	411.9	428.5
80°	233.9	257.7	271.3	260.6	252.9	248.6	217.7	185.0	171.7	183.6	187.3
85°	88.2	92.2	97.6	77.8	73.4	66.0	58.1	54.8	53.0	84.0	84.6
90°	82.4	82.6	82.5	48.3	48.5	48.9	48.6	48.6	48.7	82.7	82.6



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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	11505.7	11505.7
5°	11639.1	11591.7
10°	11774.2	11659.9
15°	11852.9	11729.9
20°	11860.9	11721.6
25°	11712.6	11633.2
30°	11463.8	11445.4
35°	11005.6	11094.3
40°	10314.4	10513.4
45°	9234.7	9587.7
50°	7576.5	8038.1
55°	4647.8	5172.8
60°	2620.5	2768.2
65°	1506.7	1613.7
70°	841.0	909.2
75°	446.2	482.2
80°	205.3	233.9
85°	85.9	88.2
90°	82.5	82.4

(END OF REPORT)