

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: P600926

Luminaire Tested: UHBS-30-MV-L840-U 277V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600926
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-L840-U 277V
Description: UHB Round Select AT 30000 LUMEN SETTING AND 4000K
Light Source: -
Ballast/Driver: -

Summary

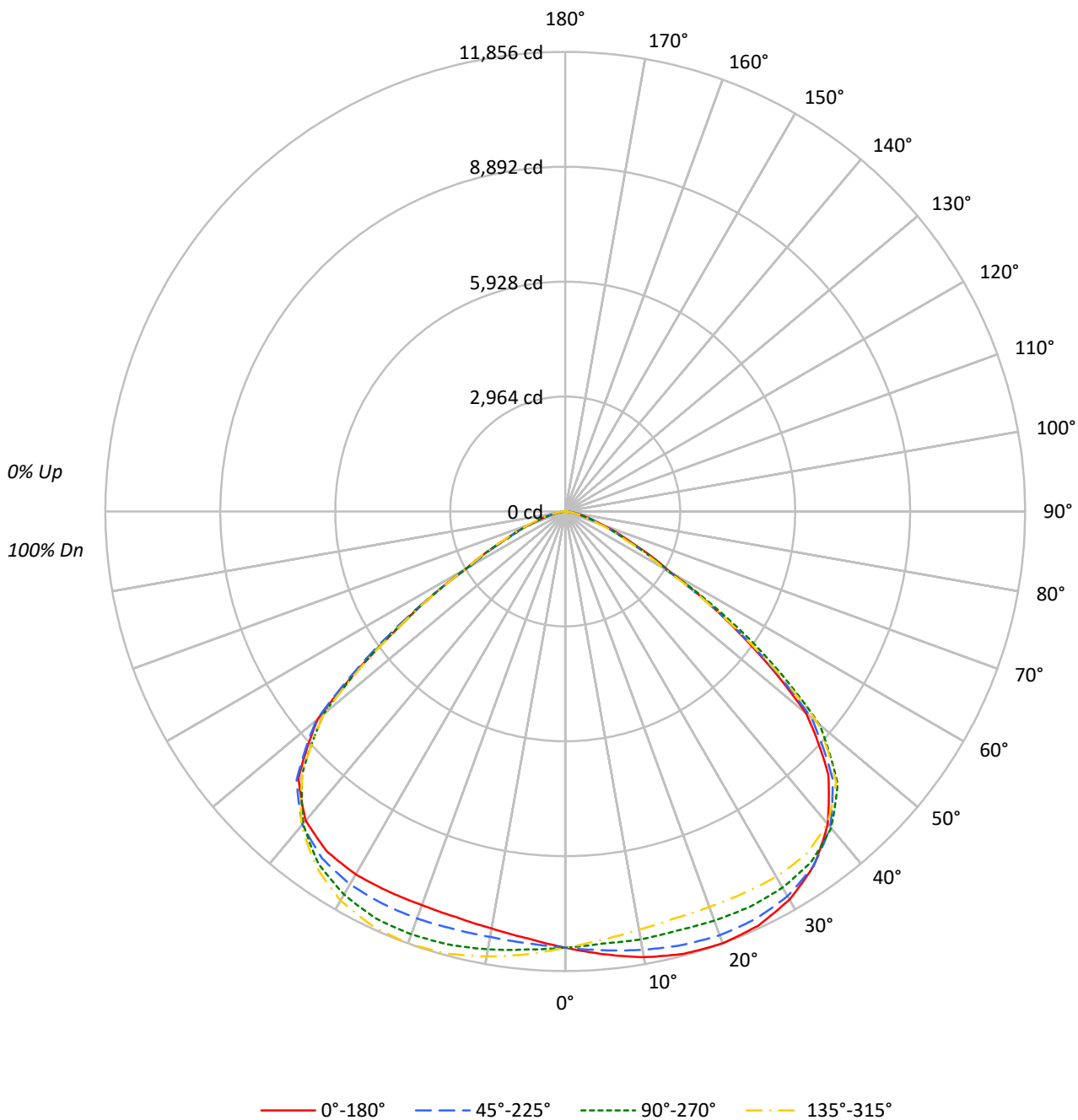
Lumens per Lamp: 31275 (1 lamp)
Luminaire Lumens: 31275.0 lumens
Efficiency: 100.0%
Efficacy: 159.4 lumens/watt
Spacing Criteria (0/90/45): 1.48 / 1.49 / 1.54
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 196.2
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	98	100	98	95	97	94	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	74	70	78	73	69	75	71	67	65
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57
5	80	68	60	53	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	45	44
7	68	56	47	41	67	55	47	41	53	46	41	52	45	41	51	45	40	39
8	64	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	55	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°	87171	87171	87171	87171
5°	89167	86998	85999	88234
10°	91855	88174	85933	90237
15°	94743	89756	86906	92798
20°	97750	92610	89078	95692
25°	100741	96197	92419	98980
30°	103432	100226	96672	102048
35°	105638	104474	101278	104932
40°	106499	107824	105283	106312
45°	105091	108845	106562	105131
50°	97800	103186	100267	97878
55°	74270	80087	71590	72559
60°	48534	47912	45670	45179
65°	33991	31881	31052	30363
70°	23697	21763	20451	20626
75°	16593	14959	13408	14453
80°	12002	9923	8312	10240
85°	8374	5192	4898	8081

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 108845 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	1077.1	3.4	3.4
10°-20°	3217.6	10.3	10.3
20°-30°	5245.4	16.8	16.8
30°-40°	6877.4	22.0	22.0
40°-50°	7403.6	23.7	23.7
50°-60°	4961.5	15.9	15.9
60°-70°	1800.3	5.8	5.8
70°-80°	571.5	1.8	1.8
80°-90°	120.7	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°	9540.1	30.5	30.5
0°-40°	16417.4	52.5	52.5
0°-60°	28782.5	92.0	92.0
0°-90°	31275.0	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°	31275.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11251	11251	11251	11251	11251	
5°	11465	11186	11058	11345	11465	1099
15°	11812	11190	10835	11569	11812	3344
25°	11784	11253	10811	11578	11784	5434
35°	11169	11046	10708	11094	11169	6967
45°	9591	9934	9726	9595	9591	7303
55°	5498	5929	5300	5372	5498	4955
65°	1854	1739	1694	1656	1854	1947
75°	554	500	448	483	554	639
85°	94	58	55	91	94	147
90°	83	49	48	83	83	



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	11251.1	11251.1	11251.1	11251.1	11251.1	11251.1	11251.1	11251.1	11251.1	11251.1	11251.1
5°	11464.9	11411.7	11312.8	11186.1	11098.5	11071.0	11057.6	11127.8	11232.3	11345.0	11442.2
10°	11675.6	11569.9	11396.1	11207.7	11000.7	10907.0	10922.8	11048.6	11241.8	11469.9	11600.3
15°	11811.8	11693.3	11469.7	11190.0	10922.3	10817.9	10834.7	11013.8	11284.5	11569.2	11747.0
20°	11855.7	11738.3	11528.8	11232.2	10925.8	10786.3	10803.9	11025.5	11318.0	11606.0	11791.5
25°	11784.3	11688.9	11513.9	11252.8	10934.2	10808.0	10810.9	11023.2	11298.9	11578.3	11749.1
30°	11561.3	11511.4	11408.0	11203.0	10934.9	10825.8	10805.7	10994.3	11210.6	11406.7	11541.1
35°	11168.8	11172.0	11139.0	11045.8	10860.3	10754.6	10707.9	10852.1	10996.0	11094.2	11166.4
40°	10529.9	10601.8	10664.3	10660.9	10531.7	10507.5	10409.6	10506.3	10575.6	10511.4	10552.4
45°	9591.2	9691.1	9813.2	9933.8	9885.0	9869.6	9725.5	9802.5	9782.2	9594.9	9573.7
50°	8113.9	8244.9	8316.9	8560.7	8510.5	8526.9	8318.6	8421.2	8323.5	8120.4	8125.0
55°	5498.3	5603.2	5584.1	5928.9	5647.8	5580.6	5299.9	5493.7	5569.8	5371.6	5311.2
60°	3132.1	3007.6	2918.8	3092.0	2974.4	2886.1	2947.3	2829.5	2789.0	2915.6	2900.3
65°	1854.1	1757.6	1716.0	1739.0	1695.7	1634.0	1693.8	1609.0	1611.1	1656.2	1721.6
70°	1046.1	990.9	977.0	960.7	929.9	892.6	902.8	884.5	884.6	910.5	985.5
75°	554.3	543.8	524.0	499.7	470.6	450.7	447.9	457.7	463.4	482.8	523.2
80°	269.0	269.6	255.3	222.4	200.2	190.2	186.3	200.4	204.0	229.5	251.1
85°	94.2	92.4	90.8	58.4	56.3	55.8	55.1	55.4	56.6	90.9	93.1
90°	83.1	83.0	82.6	49.0	48.4	48.3	48.3	48.3	48.4	82.8	83.0



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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	11251.1	11251.1
5°	11498.5	11464.9
10°	11710.6	11675.6
15°	11863.4	11811.8
20°	11914.7	11855.7
25°	11826.5	11784.3
30°	11630.6	11561.3
35°	11208.2	11168.8
40°	10598.6	10529.9
45°	9591.5	9591.2
50°	8109.7	8113.9
55°	5306.9	5498.3
60°	2940.5	3132.1
65°	1736.5	1854.1
70°	997.5	1046.1
75°	545.8	554.3
80°	262.9	269.0
85°	94.1	94.2
90°	83.3	83.1

(END OF REPORT)