

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: P600913

Luminaire Tested: UHBS-15-MV-L840-U 347V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600913
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-L840-U 347V
Description: UHB Round Select AT 15000 LUMEN SETTING AND 4000K
Light Source: -
Ballast/Driver: -

Summary

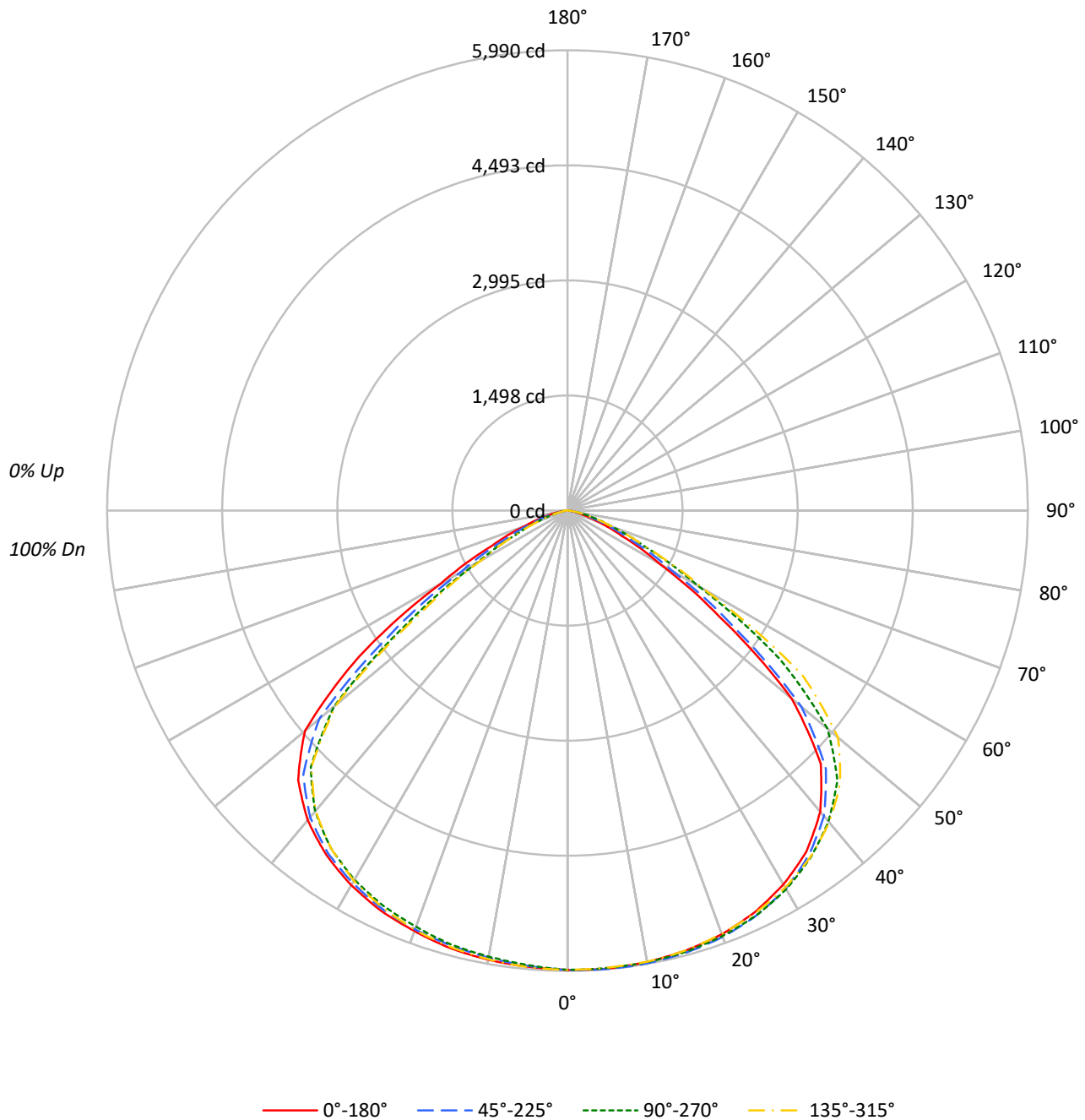
Lumens per Lamp: 15886 (1 lamp)
Luminaire Lumens: 15886.0 lumens
Efficiency: 100.0%
Efficacy: 155.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.4 / 1.5
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 101.9
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	72	91	83	76	71	80	74	70		77	73	68		65
4	86	75	68	61	84	74	67	61	72	65	60		70	64	59		57
5	80	68	59	53	78	67	59	53	65	58	53		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		39
8	64	51	42	37	62	50	42	37	49	42	37		47	41	36		34
9	59	46	39	33	58	46	38	33	45	38	33		44	37	33		31
10	56	43	35	30	54	42	35	30	41	34	30		40	34	30		28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	81921	81921	81921	81921
5°	82327	82207	81990	81691
10°	83014	83049	82601	82019
15°	84122	84365	83661	82966
20°	85585	85954	84936	84058
25°	87211	87909	86887	85798
30°	88923	90074	89082	87760
35°	90679	92269	91546	89767
40°	91554	94506	94076	91393
45°	90314	96258	96062	91533
50°	81215	94140	95063	84417
55°	57795	80678	79025	59628
60°	37853	53737	52183	36861
65°	25304	36126	35150	23670
70°	16513	25012	23930	15696
75°	10649	17024	15669	9616
80°	5438	10434	9518	5083
85°	6746	5048	5126	6683

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 150°

Vertical Angle: 50°

Luminance: 98229 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	568.9	3.6	3.6
10°-20°	1671.1	10.5	10.5
20°-30°	2655.7	16.7	16.7
30°-40°	3405.7	21.4	21.4
40°-50°	3676.1	23.1	23.1
50°-60°	2580.7	16.2	16.2
60°-70°	983.6	6.2	6.2
70°-80°	288.2	1.8	1.8
80°-90°	56.1	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°	4895.6	30.8	30.8
0°-40°	8301.3	52.3	52.3
0°-60°	14558.1	91.6	91.6
0°-90°	15886.0	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°	15886.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5977	5977	5977	5977	5977	
5°	5984	5976	5960	5938	5984	570
15°	5929	5946	5896	5847	5929	1678
25°	5767	5813	5746	5674	5767	2661
35°	5420	5515	5472	5365	5420	3384
45°	4660	4966	4956	4723	4660	3522
55°	2419	3376	3307	2496	2419	2232
65°	780	1114	1084	730	780	827
75°	201	322	296	182	201	233
85°	43	32	33	42	43	54
90°	42	25	26	42	42	

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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	5977.4	5977.4	5977.4	5977.4	5977.4	5977.4	5977.4	5977.4	5977.4	5977.4	5977.4
5°	5984.2	5989.5	5989.6	5975.5	5965.9	5975.9	5959.7	5955.8	5941.1	5938.0	5954.5
10°	5965.2	5985.2	5981.1	5967.7	5968.1	5954.5	5935.5	5922.2	5896.8	5893.7	5916.3
15°	5928.9	5963.4	5951.2	5946.0	5938.1	5917.6	5896.4	5875.0	5846.1	5847.4	5865.0
20°	5868.2	5906.1	5905.2	5893.5	5868.8	5857.5	5823.7	5812.9	5786.7	5763.5	5786.0
25°	5767.2	5809.0	5824.2	5813.4	5791.5	5767.1	5745.8	5731.1	5704.1	5673.8	5677.9
30°	5619.1	5664.6	5699.2	5691.8	5675.4	5656.6	5629.1	5612.1	5574.8	5545.6	5542.6
35°	5419.9	5457.2	5495.9	5514.9	5514.7	5502.2	5471.7	5458.9	5417.8	5365.4	5344.8
40°	5117.4	5156.5	5224.5	5282.4	5307.3	5291.5	5258.4	5231.4	5187.0	5108.4	5091.7
45°	4659.7	4695.1	4815.6	4966.4	5018.4	5015.7	4956.3	4897.8	4824.1	4722.6	4719.2
50°	3809.1	3861.2	4093.7	4415.3	4585.5	4607.1	4458.6	4295.4	4130.0	3959.3	3965.2
55°	2418.8	2534.2	2745.2	3376.5	3711.8	3747.9	3307.3	2937.3	2699.6	2495.5	2348.7
60°	1381.0	1503.5	1656.0	1960.5	2070.9	2034.6	1903.8	1708.7	1511.0	1344.8	1302.1
65°	780.3	865.6	994.2	1114.0	1161.7	1098.8	1083.9	973.1	850.8	729.9	723.4
70°	412.1	474.2	558.4	624.2	625.7	604.0	597.2	529.0	445.2	391.7	382.9
75°	201.1	236.1	287.0	321.5	316.3	303.4	295.9	260.8	212.4	181.6	175.8
80°	68.9	90.8	119.9	132.2	135.6	132.4	120.6	103.6	75.4	64.4	59.1
85°	42.9	43.9	45.4	32.1	33.9	34.9	32.6	29.6	27.2	42.5	42.7
90°	42.4	42.2	42.3	24.8	25.2	25.6	25.7	25.5	24.8	42.1	42.6

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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	5977.4	5977.4
5°	5973.6	5984.2
10°	5943.4	5965.2
15°	5895.2	5928.9
20°	5825.6	5868.2
25°	5721.5	5767.2
30°	5579.0	5619.1
35°	5383.0	5419.9
40°	5104.6	5117.4
45°	4691.7	4659.7
50°	3872.4	3809.1
55°	2324.8	2418.8
60°	1279.3	1381.0
65°	706.6	780.3
70°	378.3	412.1
75°	182.2	201.1
80°	59.5	68.9
85°	42.6	42.9
90°	42.6	42.4

(END OF REPORT)