

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: P600907

Luminaire Tested: UHBS-15-MV-L840-U 277V

Issue Date: 8/26/2022

Test Information

Test Method: LM-79-2019
Report Number: P600907
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 277V
Description: UHB Round Select AT 15000 LUMEN SETTING AND 4000K
Light Source: -
Ballast/Driver: -

Summary

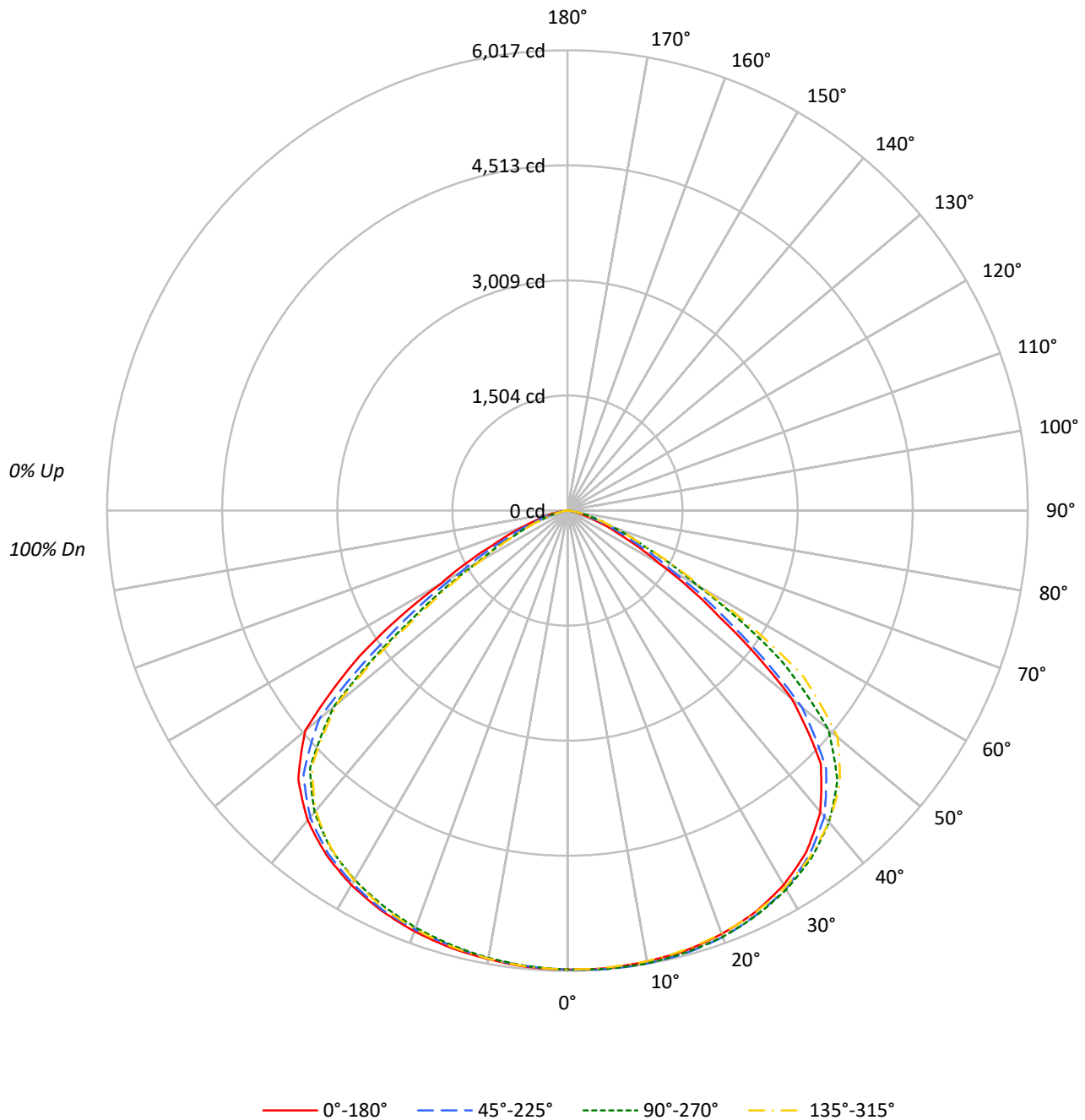
Lumens per Lamp: 15952 (1 lamp)
Luminaire Lumens: 15952.0 lumens
Efficiency: 100.0%
Efficacy: 156.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.4 / 1.5
Luminous Opening: Circular (Dia: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 102.1
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	93		88
2	102	95	89	84	100	93	88	83	90	85	81		86	83	79		76
3	94	85	77	72	91	83	76	71	80	74	70		77	73	69		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	43	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°	82238	82238	82238	82238
5°	82598	82701	82403	82240
10°	83276	83630	82863	82633
15°	84538	84869	83939	83384
20°	85921	86507	85371	84595
25°	87657	88343	87203	86207
30°	89428	90525	89433	88151
35°	91111	92903	91944	90232
40°	91976	95151	94520	92028
45°	90723	96690	96427	92209
50°	81575	94845	95340	84906
55°	57981	81132	79161	59678
60°	37930	53951	52394	37053
65°	25337	36359	35253	23767
70°	16573	25156	23990	15744
75°	10675	17088	15663	9674
80°	5454	10473	9558	5114
85°	6777	5079	5142	6730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 150°

Vertical Angle: 50°

Luminance: 98406 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	571.5	3.6	3.6
10°-20°	1678.5	10.5	10.5
20°-30°	2667.4	16.7	16.7
30°-40°	3421.7	21.4	21.4
40°-50°	3692.4	23.1	23.1
50°-60°	2588.8	16.2	16.2
60°-70°	986.4	6.2	6.2
70°-80°	289.0	1.8	1.8
80°-90°	56.2	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°	4917.4	30.8	30.8
0°-40°	8339.0	52.3	52.3
0°-60°	14620.3	91.7	91.7
0°-90°	15952.0	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°	15952.0	100.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6001	6001	6001	6001	6001	
5°	6004	6011	5990	5978	6004	572
15°	5958	5982	5916	5877	5958	1685
25°	5797	5842	5767	5701	5797	2675
35°	5446	5553	5496	5393	5446	3400
45°	4681	4989	4975	4758	4681	3538
55°	2427	3396	3313	2498	2427	2240
65°	781	1121	1087	733	781	829
75°	202	323	296	183	202	233
85°	43	32	33	43	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°	6000.6	6000.6	6000.6	6000.6	6000.6	6000.6	6000.6	6000.6	6000.6	6000.6	6000.6
5°	6003.9	6013.7	6020.8	6011.4	6000.2	5991.2	5989.7	5983.4	5976.1	5977.9	5978.0
10°	5984.0	6008.2	6014.6	6009.4	5995.4	5972.7	5954.3	5950.7	5942.3	5937.8	5940.3
15°	5958.2	5988.7	5989.9	5981.5	5957.2	5932.0	5916.0	5895.5	5877.5	5876.9	5884.9
20°	5891.2	5924.4	5946.7	5931.4	5896.9	5873.0	5853.5	5839.3	5813.3	5800.3	5807.3
25°	5796.7	5821.6	5850.0	5842.1	5814.0	5788.8	5766.7	5763.0	5736.5	5700.8	5705.5
30°	5651.0	5706.4	5716.5	5720.3	5699.4	5674.3	5651.3	5635.3	5614.7	5570.3	5564.1
35°	5445.7	5478.7	5531.7	5552.8	5533.3	5522.9	5495.5	5472.1	5452.7	5393.2	5373.2
40°	5141.0	5185.9	5259.4	5318.5	5324.2	5311.1	5283.2	5251.0	5210.7	5143.9	5117.2
45°	4680.8	4724.9	4839.7	4988.7	5036.8	5034.2	4975.1	4916.8	4842.3	4757.5	4732.9
50°	3826.0	3877.8	4116.7	4448.4	4600.0	4615.4	4471.6	4306.8	4161.1	3982.2	3968.3
55°	2426.6	2538.3	2757.8	3395.5	3721.0	3763.0	3313.0	2945.3	2700.3	2497.6	2354.7
60°	1383.8	1506.5	1665.7	1968.3	2069.4	2036.7	1911.5	1717.2	1515.6	1351.8	1304.2
65°	781.3	867.9	996.5	1121.2	1162.5	1101.1	1087.1	977.6	853.0	732.9	726.3
70°	413.6	475.7	562.3	627.8	626.7	605.1	598.7	531.6	445.9	392.9	384.1
75°	201.6	236.0	288.9	322.7	316.3	304.1	295.8	261.7	213.1	182.7	176.4
80°	69.1	90.7	120.5	132.7	135.7	132.4	121.1	104.2	75.6	64.8	59.4
85°	43.1	44.0	45.6	32.3	34.0	35.0	32.7	29.7	27.4	42.8	42.8
90°	42.5	42.3	42.5	24.9	25.3	25.7	25.8	25.6	24.9	42.4	42.7

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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	6000.6	6000.6
5°	5991.5	6003.9
10°	5957.8	5984.0
15°	5911.4	5958.2
20°	5838.3	5891.2
25°	5737.3	5796.7
30°	5592.6	5651.0
35°	5400.1	5445.7
40°	5121.9	5141.0
45°	4707.0	4680.8
50°	3880.9	3826.0
55°	2326.1	2426.6
60°	1276.5	1383.8
65°	707.2	781.3
70°	378.5	413.6
75°	182.2	201.6
80°	59.6	69.1
85°	42.8	43.1
90°	42.7	42.5

(END OF REPORT)