

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P892975

Luminaire Tested: 2MB-SC3-ASYMR-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-ASYMR-UNV-CC83-HI-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 3500K CCT, HI luv setting
Light Source: -
Ballast/Driver: -

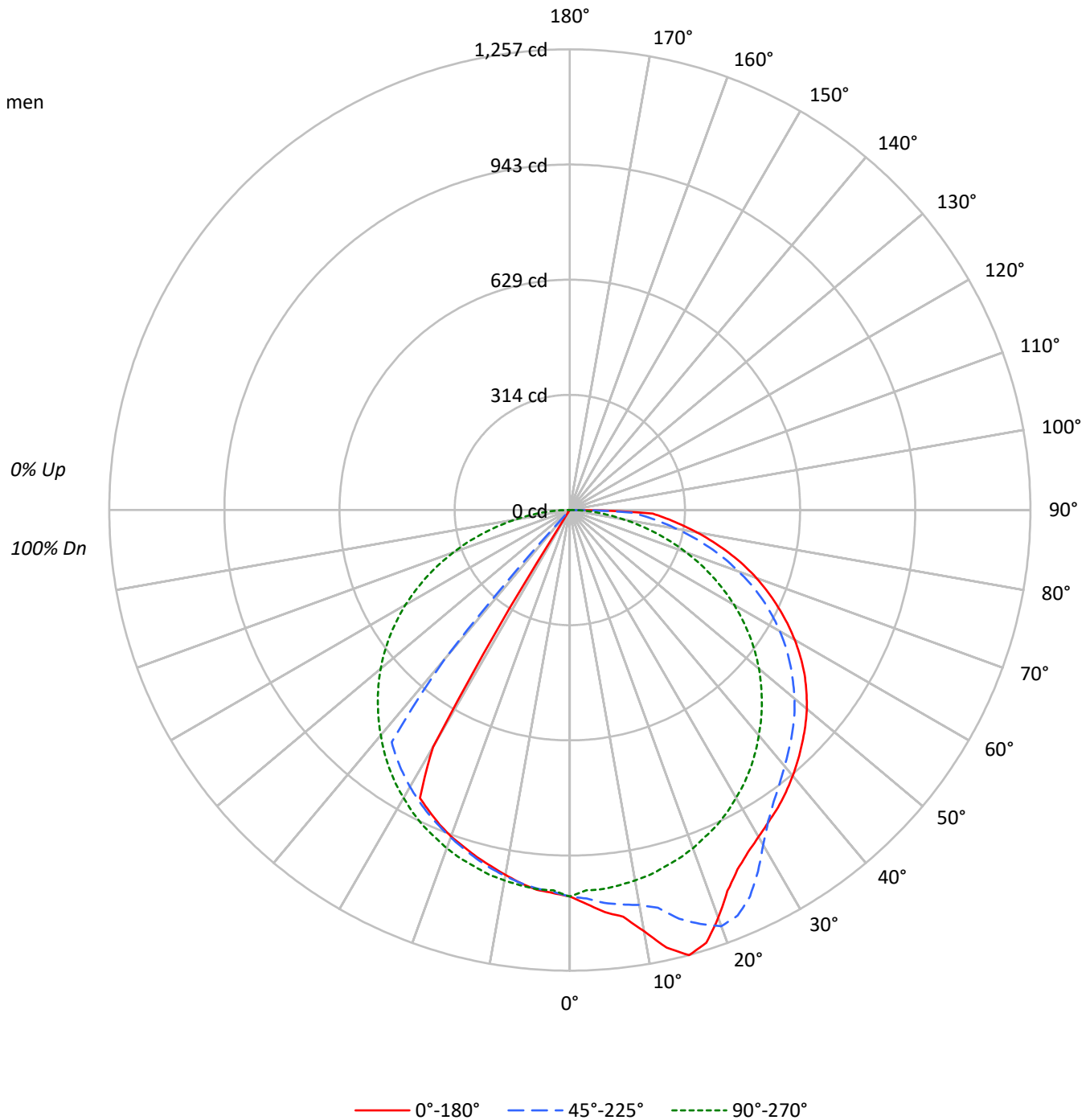
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2853.0 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	71	71	71	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	41	41	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	33	33	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	27531	27531	27531	27531	27531
5°	28870	28205	27209	27162	27256
10°	30933	29011	27203	26882	26802
15°	33986	31210	27213	26623	26494
20°	32904	33576	27283	26411	26328
25°	31178	33508	27349	26324	26131
30°	31042	31808	27346	26291	22505
35°	31569	30932	27391	26294	309
40°	32255	31079	27354	18135	204
45°	33138	31709	27359	336	133
50°	34293	32502	27376	244	49
55°	35599	33428	27297	164	27
60°	37021	34562	27058	63	31
65°	38765	35929	26564	74	74
70°	41350	37434	25725	92	92
75°	45262	39845	24613	242	121
80°	53119	44579	22793	361	180
85°	79053	62607	21358	539	359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 135569 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	3.5
10°-20°	301.7	10.6
20°-30°	463.8	16.3
30°-40°	497.0	17.4
40°-50°	451.4	15.8
50°-60°	411.7	14.4
60°-70°	306.3	10.7
70°-80°	215.6	7.6
80°-90°	104.4	3.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	866.5	30.4
0°-40°	1363.5	47.8
0°-60°	2226.6	78.0
0°-90°	2853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2853.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1054	1054	1054	1054	1054	
5°	1102	1076	1038	1036	1040	107
15°	1257	1155	1007	985	980	347
25°	1082	1163	949	914	907	503
35°	990	970	859	825	10	620
45°	898	859	741	9	4	693
55°	782	734	600	4	1	698
65°	628	582	430	1	1	621
75°	449	395	244	2	1	473
85°	264	209	71	2	1	265
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1054.5	1054.5	1054.5	1054.5	1054.5	1054.5	1054.5	1054.5	1054.5
2.5°	1076.2	1064.1	1061.1	1069.6	1038.8	1059.3	1042.4	1046.0	1046.0
5°	1101.6	1084.7	1076.2	1073.8	1038.2	1052.1	1036.4	1036.4	1040.0
7.5°	1119.1	1100.4	1085.3	1079.2	1032.7	1044.8	1026.7	1026.7	1026.7
10°	1166.8	1131.8	1094.3	1083.5	1026.1	1035.1	1014.0	1015.2	1011.0
12.5°	1223.0	1191.6	1111.8	1081.7	1018.8	1023.1	1000.7	1000.1	995.3
15°	1257.4	1233.8	1154.7	1079.2	1006.8	1010.4	985.0	983.2	980.2
17.5°	1238.1	1234.4	1184.3	1077.4	995.9	992.9	967.5	965.7	963.3
20°	1184.3	1193.4	1208.5	1073.8	982.0	976.0	950.6	949.4	947.6
22.5°	1124.5	1133.6	1197.6	1079.8	965.1	957.8	932.5	931.3	928.9
25°	1082.3	1082.3	1163.2	1094.3	949.4	936.1	913.8	911.9	907.1
27.5°	1052.7	1047.2	1111.8	1110.6	929.5	914.4	893.8	892.0	886.0
30°	1029.7	1020.7	1055.1	1118.5	907.1	890.8	872.1	870.3	746.5
32.5°	1009.2	999.5	1007.4	1125.1	884.8	865.4	849.1	605.7	26.6
35°	990.5	979.6	970.5	1120.3	859.4	840.1	825.0	17.5	9.7
37.5°	969.3	960.9	940.3	1094.9	832.2	812.9	798.4	9.7	8.5
40°	946.4	938.5	911.9	1057.5	802.6	786.3	532.1	8.5	6.0
42.5°	922.8	916.8	885.4	1003.1	773.0	756.7	16.9	6.6	4.8
45°	897.5	892.0	858.8	937.3	741.0	725.9	9.1	4.8	3.6
47.5°	871.5	863.6	831.0	866.7	708.4	693.3	7.9	3.6	2.4
50°	844.3	835.8	800.2	804.4	674.0	658.9	6.0	2.4	1.2
52.5°	814.1	803.8	767.6	748.3	637.8	623.9	4.8	1.2	0.6
55°	782.1	770.6	734.4	699.4	599.7	584.0	3.6	1.2	0.6
57.5°	746.5	733.8	699.4	652.9	559.2	395.0	2.4	1.2	0.6
60°	709.0	696.3	661.9	609.4	518.2	27.2	1.2	1.2	0.6
62.5°	669.2	655.9	622.7	565.3	474.1	22.3	1.2	1.2	1.2
65°	627.5	611.8	581.6	520.0	430.0	18.7	1.2	1.2	1.2
67.5°	585.8	565.9	537.5	473.5	384.7	15.7	1.2	1.2	1.2
70°	541.7	520.0	490.4	426.4	337.0	12.7	1.2	1.2	1.2
72.5°	496.4	475.3	443.3	378.7	292.3	9.7	1.2	1.2	1.2
75°	448.7	429.4	395.0	331.0	244.0	7.2	2.4	1.2	1.2
77.5°	399.2	384.1	345.5	282.0	196.9	4.8	2.4	1.2	1.2
80°	353.3	336.4	296.5	232.5	151.6	3.6	2.4	1.8	1.2
82.5°	306.2	291.1	251.2	187.2	108.7	3.0	2.4	1.8	1.2
85°	263.9	249.4	209.0	146.2	71.3	2.4	1.8	1.8	1.2
87.5°	226.5	213.2	173.3	106.9	40.5	1.8	1.8	1.8	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	26.05	27.66	26.42	27.98	28.29	21.48	23.10	21.85	23.41	23.73
	3H	28.50	29.96	28.87	30.29	30.65	22.12	23.59	22.50	23.92	24.28
	4H	29.62	31.00	30.02	31.35	31.73	22.27	23.65	22.67	24.00	24.38
	6H	30.71	32.00	31.12	32.36	32.75	22.31	23.59	22.72	23.96	24.35
	8H	31.24	32.47	31.67	32.86	33.26	22.30	23.53	22.72	23.91	24.31
	12H	31.81	32.99	32.24	33.37	33.80	22.28	23.46	22.71	23.84	24.27
4H	2H	26.71	28.09	27.11	28.44	28.81	22.61	23.99	23.01	24.34	24.72
	3H	29.40	30.56	29.81	30.96	31.36	23.95	25.12	24.36	25.52	25.92
	4H	30.69	31.75	31.12	32.17	32.60	24.49	25.55	24.92	25.96	26.40
	6H	31.97	32.91	32.43	33.35	33.80	24.76	25.70	25.22	26.14	26.59
	8H	32.60	33.48	33.06	33.92	34.38	24.80	25.68	25.26	26.12	26.58
	12H	33.29	34.08	33.77	34.55	35.02	24.81	25.60	25.29	26.08	26.55
8H	4H	31.06	31.93	31.51	32.37	32.84	25.43	26.31	25.89	26.75	27.22
	6H	32.54	33.27	33.03	33.76	34.24	26.02	26.76	26.52	27.25	27.72
	8H	33.32	33.99	33.83	34.49	34.98	26.20	26.87	26.71	27.37	27.86
	12H	34.21	34.80	34.72	35.29	35.85	26.30	26.90	26.81	27.39	27.94
12H	4H	31.10	31.89	31.57	32.36	32.83	25.65	26.44	26.13	26.92	27.39
	6H	32.63	33.29	33.13	33.80	34.28	26.37	27.04	26.88	27.55	28.03
	8H	33.51	34.10	34.01	34.59	35.15	26.69	27.28	27.19	27.77	28.33