

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: P892977

Luminaire Tested: 2MB-SC3-ASYMR-UNV-CC83-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892977
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-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 5000K CCT, HI luv setting
Light Source: -
Ballast/Driver: -

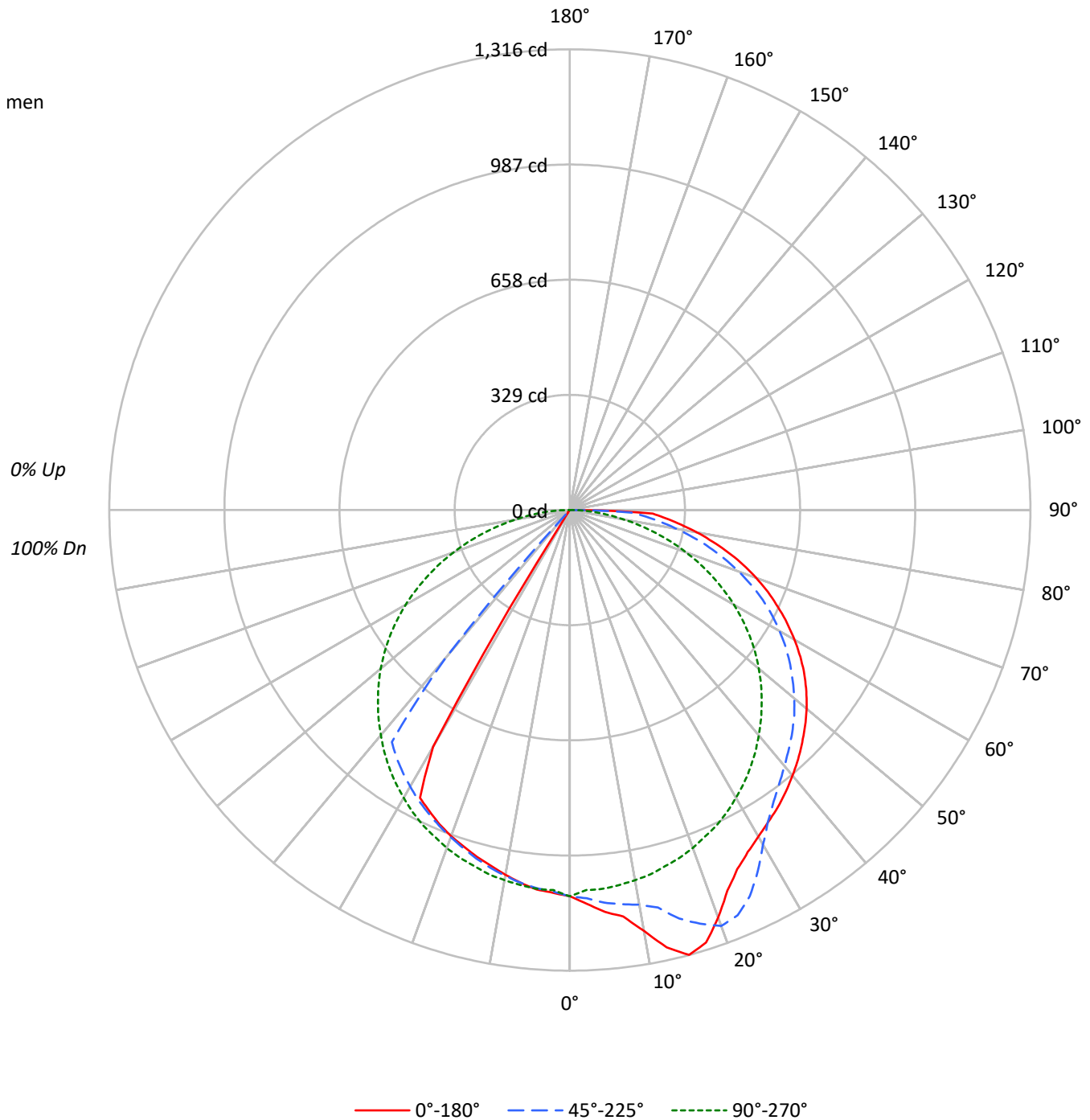
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2985.0 lumens
Efficiency: N/A
Efficacy: 142.1 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°	28805	28805	28805	28805	28805
5°	30204	29510	28467	28417	28517
10°	32364	30355	28462	28125	28043
15°	35559	32656	28470	27856	27718
20°	34427	35129	28545	27633	27545
25°	32618	35058	28614	27539	27341
30°	32480	33279	28612	27506	23545
35°	33029	32363	28659	27509	322
40°	33748	32517	28622	18973	215
45°	34670	33175	28626	351	140
50°	35881	34004	28643	256	53
55°	37247	34976	28562	173	27
60°	38734	36160	28311	68	31
65°	40556	37591	27793	80	80
70°	43266	39167	26916	99	99
75°	47360	41681	25753	252	131
80°	55569	46653	23845	376	195
85°	82707	65483	22347	569	389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 141854 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	3.5
10°-20°	315.7	10.6
20°-30°	485.2	16.3
30°-40°	520.0	17.4
40°-50°	472.3	15.8
50°-60°	430.8	14.4
60°-70°	320.5	10.7
70°-80°	225.6	7.6
80°-90°	109.3	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°	906.6	30.4
0°-40°	1426.6	47.8
0°-60°	2329.7	78.0
0°-90°	2985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2985.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1103	1103	1103	1103	1103	
5°	1152	1126	1086	1084	1088	112
15°	1316	1208	1053	1031	1026	363
25°	1132	1217	993	956	949	527
35°	1036	1015	899	863	10	649
45°	939	898	775	10	4	726
55°	818	768	628	4	1	731
65°	656	608	450	1	1	650
75°	470	413	255	2	1	495
85°	276	219	75	2	1	277
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°	1103.3	1103.3	1103.3	1103.3	1103.3	1103.3	1103.3	1103.3	1103.3
2.5°	1126.0	1113.4	1110.2	1119.1	1086.8	1108.3	1090.6	1094.4	1094.4
5°	1152.5	1134.9	1126.0	1123.5	1086.2	1100.7	1084.3	1084.3	1088.1
7.5°	1170.9	1151.3	1135.5	1129.2	1080.5	1093.2	1074.2	1074.2	1074.2
10°	1220.8	1184.1	1145.0	1133.6	1073.6	1083.0	1060.9	1062.2	1057.8
12.5°	1279.6	1246.7	1163.3	1131.7	1066.0	1070.4	1047.0	1046.4	1041.3
15°	1315.6	1290.9	1208.2	1129.2	1053.3	1057.1	1030.6	1028.7	1025.5
17.5°	1295.4	1291.6	1239.1	1127.3	1042.0	1038.8	1012.3	1010.4	1007.8
20°	1239.1	1248.6	1264.4	1123.5	1027.4	1021.1	994.6	993.3	991.4
22.5°	1176.6	1186.0	1253.0	1129.8	1009.7	1002.2	975.6	974.4	971.8
25°	1132.3	1132.3	1217.0	1145.0	993.3	979.4	956.0	954.1	949.1
27.5°	1101.4	1095.7	1163.3	1162.0	972.5	956.7	935.2	933.3	927.0
30°	1077.4	1067.9	1103.9	1170.2	949.1	932.0	912.4	910.5	781.0
32.5°	1055.9	1045.8	1054.0	1177.2	925.7	905.5	888.4	633.8	27.8
35°	1036.3	1024.9	1015.4	1172.1	899.2	878.9	863.1	18.3	10.1
37.5°	1014.2	1005.3	983.8	1145.6	870.7	850.5	835.3	10.1	8.8
40°	990.2	981.9	954.1	1106.4	839.8	822.7	556.7	8.8	6.3
42.5°	965.5	959.2	926.3	1049.6	808.8	791.7	17.7	7.0	5.1
45°	939.0	933.3	898.5	980.7	775.3	759.5	9.5	5.1	3.8
47.5°	911.8	903.6	869.5	906.7	741.2	725.4	8.2	3.8	2.5
50°	883.4	874.5	837.2	841.7	705.2	689.4	6.3	2.5	1.3
52.5°	851.8	841.0	803.1	782.9	667.3	652.7	5.1	1.3	0.6
55°	818.3	806.3	768.4	731.7	627.5	611.0	3.8	1.3	0.6
57.5°	781.0	767.7	731.7	683.1	585.1	413.2	2.5	1.3	0.6
60°	741.8	728.6	692.5	637.6	542.2	28.4	1.3	1.3	0.6
62.5°	700.1	686.2	651.5	591.4	496.0	23.4	1.3	1.3	1.3
65°	656.5	640.1	608.5	544.0	449.9	19.6	1.3	1.3	1.3
67.5°	612.9	592.1	562.4	495.4	402.5	16.4	1.3	1.3	1.3
70°	566.8	544.0	513.1	446.1	352.6	13.3	1.3	1.3	1.3
72.5°	519.4	497.3	463.8	396.2	305.8	10.1	1.3	1.3	1.3
75°	469.5	449.3	413.2	346.3	255.3	7.6	2.5	1.3	1.3
77.5°	417.7	401.9	361.4	295.1	206.0	5.1	2.5	1.3	1.3
80°	369.6	352.0	310.3	243.3	158.6	3.8	2.5	1.9	1.3
82.5°	320.4	304.6	262.9	195.9	113.7	3.2	2.5	1.9	1.3
85°	276.1	261.0	218.6	152.9	74.6	2.5	1.9	1.9	1.3
87.5°	237.0	223.1	181.3	111.8	42.3	1.9	1.9	1.9	1.3
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	26.21	27.82	26.57	28.14	28.45	21.64	23.25	22.00	23.57	23.88
	3H	28.65	30.12	29.03	30.44	30.80	22.28	23.75	22.66	24.07	24.43
	4H	29.78	31.16	30.18	31.51	31.88	22.43	23.81	22.82	24.16	24.53
	6H	30.87	32.16	31.28	32.52	32.91	22.47	23.75	22.88	24.12	24.51
	8H	31.40	32.63	31.83	33.02	33.42	22.46	23.68	22.88	24.07	24.47
	12H	31.97	33.15	32.40	33.53	33.96	22.44	23.62	22.87	24.00	24.43
4H	2H	26.86	28.25	27.26	28.59	28.97	22.77	24.15	23.16	24.50	24.87
	3H	29.55	30.72	29.96	31.12	31.52	24.11	25.28	24.52	25.67	26.07
	4H	30.85	31.91	31.28	32.32	32.76	24.64	25.71	25.08	26.12	26.56
	6H	32.13	33.06	32.58	33.50	33.96	24.92	25.85	25.37	26.29	26.75
	8H	32.76	33.63	33.22	34.08	34.54	24.96	25.83	25.42	26.28	26.74
	12H	33.44	34.24	33.92	34.71	35.18	24.97	25.76	25.45	26.23	26.70
8H	4H	31.21	32.09	31.67	32.53	33.00	25.59	26.47	26.05	26.91	27.37
	6H	32.69	33.43	33.19	33.92	34.39	26.18	26.92	26.67	27.41	27.88
	8H	33.48	34.14	33.99	34.65	35.13	26.36	27.02	26.87	27.53	28.01
	12H	34.37	34.96	34.87	35.45	36.01	26.46	27.05	26.97	27.54	28.10
12H	4H	31.25	32.04	31.73	32.52	32.99	25.81	26.60	26.29	27.08	27.54
	6H	32.78	33.45	33.29	33.95	34.44	26.53	27.20	27.04	27.70	28.19
	8H	33.66	34.25	34.17	34.74	35.30	26.84	27.44	27.35	27.93	28.48