

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: P892976

Luminaire Tested: 2MB-SC3-ASYMR-UNV-CC83-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892976
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-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 4000K CCT, HI luv setting
Light Source: -
Ballast/Driver: -

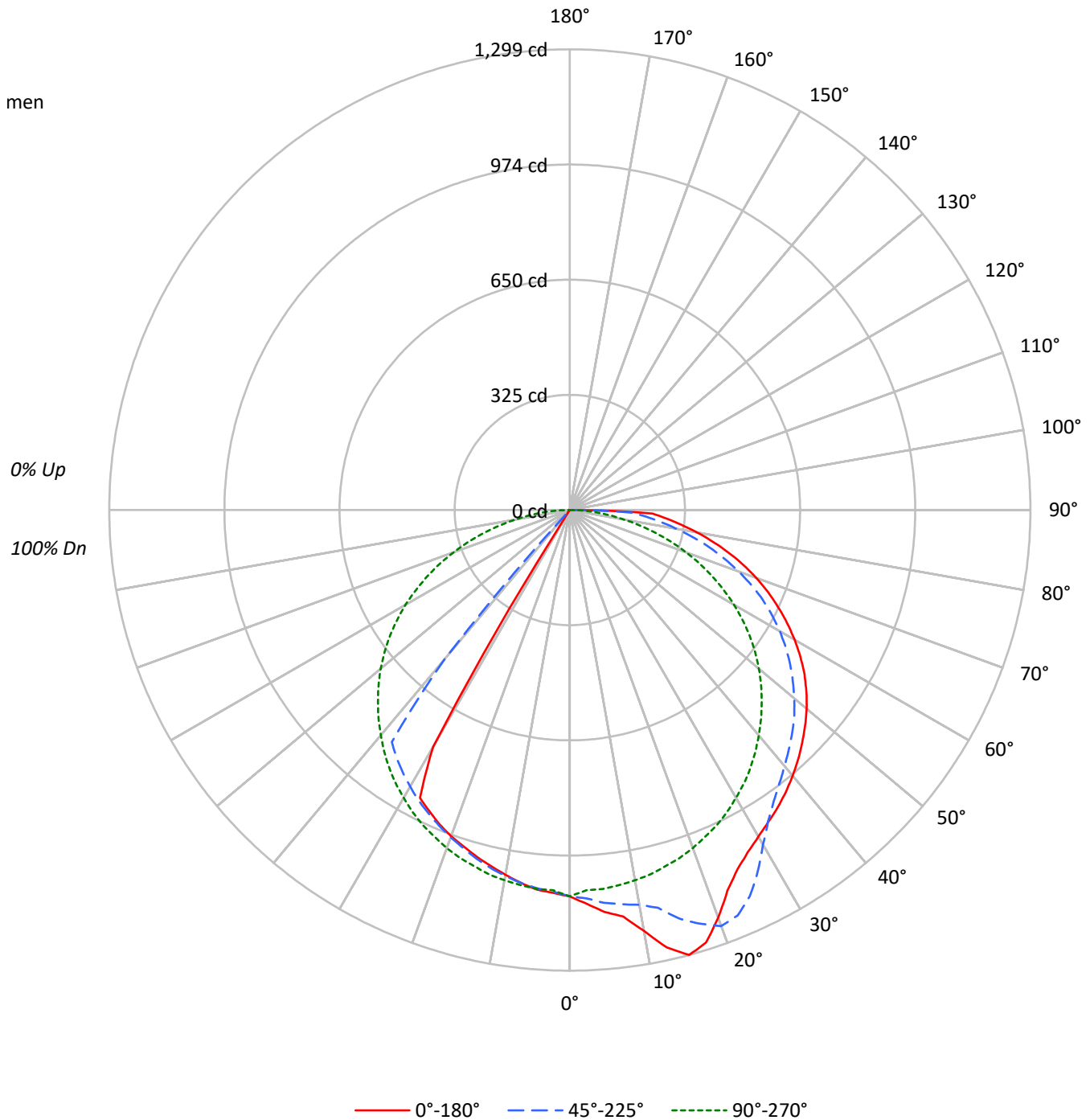
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2947.0 lumens
Efficiency: N/A
Efficacy: 140.3 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°	28437	28437	28437	28437	28437
5°	29822	29135	28105	28055	28152
10°	31953	29968	28099	27767	27685
15°	35105	32240	28107	27502	27367
20°	33988	34682	28184	27281	27194
25°	32203	34612	28251	27191	26992
30°	32064	32854	28248	27156	23246
35°	32608	31952	28293	27161	319
40°	33318	32105	28257	18731	211
45°	34227	32754	28260	347	137
50°	35422	33574	28277	252	49
55°	36774	34530	28198	168	27
60°	38243	35700	27951	63	31
65°	40044	37115	27441	74	74
70°	42717	38671	26572	92	92
75°	46755	41156	25420	252	121
80°	54863	46052	23545	376	180
85°	81659	64644	22047	569	359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 139998 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.5
10°-20°	311.6	10.6
20°-30°	479.0	16.3
30°-40°	513.4	17.4
40°-50°	466.3	15.8
50°-60°	425.3	14.4
60°-70°	316.4	10.7
70°-80°	222.7	7.6
80°-90°	107.9	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°	895.1	30.4
0°-40°	1408.4	47.8
0°-60°	2300.0	78.0
0°-90°	2947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2947.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1089	1089	1089	1089	1089	
5°	1138	1112	1072	1070	1074	110
15°	1299	1193	1040	1018	1012	359
25°	1118	1202	981	944	937	520
35°	1023	1002	888	852	10	641
45°	927	887	765	9	4	716
55°	808	759	620	4	1	722
65°	648	601	444	1	1	642
75°	464	408	252	2	1	489
85°	273	216	74	2	1	274
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°	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2	1089.2
2.5°	1111.7	1099.2	1096.1	1104.8	1073.0	1094.2	1076.7	1080.5	1080.5
5°	1137.9	1120.4	1111.7	1109.2	1072.4	1086.7	1070.5	1070.5	1074.2
7.5°	1156.0	1136.6	1121.0	1114.8	1066.8	1079.2	1060.5	1060.5	1060.5
10°	1205.3	1169.1	1130.4	1119.2	1059.9	1069.3	1047.4	1048.7	1044.3
12.5°	1263.3	1230.8	1148.5	1117.3	1052.4	1056.8	1033.7	1033.1	1028.1
15°	1298.8	1274.5	1192.8	1114.8	1039.9	1043.7	1017.5	1015.6	1012.5
17.5°	1278.9	1275.1	1223.3	1112.9	1028.7	1025.6	999.4	997.5	995.0
20°	1223.3	1232.7	1248.3	1109.2	1014.4	1008.1	981.9	980.7	978.8
22.5°	1161.6	1170.9	1237.1	1115.4	996.9	989.4	963.2	962.0	959.5
25°	1117.9	1117.9	1201.5	1130.4	980.7	966.9	943.9	942.0	937.0
27.5°	1087.3	1081.7	1148.5	1147.2	960.1	944.5	923.3	921.4	915.2
30°	1063.6	1054.3	1089.8	1155.3	937.0	920.2	900.8	898.9	771.1
32.5°	1042.4	1032.4	1040.6	1162.2	913.9	894.0	877.1	625.7	27.4
35°	1023.1	1011.9	1002.5	1157.2	887.7	867.8	852.2	18.1	10.0
37.5°	1001.3	992.5	971.3	1131.0	859.6	839.7	824.7	10.0	8.7
40°	977.6	969.4	942.0	1092.3	829.1	812.2	549.6	8.7	6.2
42.5°	953.2	947.0	914.5	1036.2	798.5	781.7	17.5	6.9	5.0
45°	927.0	921.4	887.1	968.2	765.4	749.9	9.4	5.0	3.7
47.5°	900.2	892.1	858.4	895.2	731.8	716.2	8.1	3.7	2.5
50°	872.1	863.4	826.6	830.9	696.2	680.6	6.2	2.5	1.2
52.5°	840.9	830.3	792.9	772.9	658.8	644.4	5.0	1.2	0.6
55°	807.9	796.0	758.6	722.4	619.5	603.2	3.7	1.2	0.6
57.5°	771.1	758.0	722.4	674.4	577.7	408.0	2.5	1.2	0.6
60°	732.4	719.3	683.7	629.5	535.3	28.1	1.2	1.2	0.6
62.5°	691.2	677.5	643.2	583.9	489.7	23.1	1.2	1.2	1.2
65°	648.2	631.9	600.8	537.1	444.2	19.3	1.2	1.2	1.2
67.5°	605.1	584.5	555.2	489.1	397.4	16.2	1.2	1.2	1.2
70°	559.6	537.1	506.6	440.4	348.1	13.1	1.2	1.2	1.2
72.5°	512.8	491.0	457.9	391.1	301.9	10.0	1.2	1.2	1.2
75°	463.5	443.5	408.0	341.9	252.0	7.5	2.5	1.2	1.2
77.5°	412.4	396.8	356.8	291.3	203.4	5.0	2.5	1.2	1.2
80°	364.9	347.5	306.3	240.2	156.6	3.7	2.5	1.9	1.2
82.5°	316.3	300.7	259.5	193.4	112.3	3.1	2.5	1.9	1.2
85°	272.6	257.6	215.8	151.0	73.6	2.5	1.9	1.9	1.2
87.5°	233.9	220.2	179.0	110.4	41.8	1.9	1.9	1.9	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	26.16	27.78	26.53	28.09	28.41	21.60	23.21	21.96	23.52	23.84
	3H	28.61	30.07	28.99	30.40	30.76	22.24	23.70	22.61	24.03	24.39
	4H	29.73	31.12	30.13	31.46	31.84	22.38	23.77	22.78	24.11	24.49
	6H	30.83	32.11	31.24	32.48	32.87	22.42	23.71	22.83	24.07	24.46
	8H	31.36	32.58	31.78	32.97	33.37	22.41	23.64	22.84	24.03	24.43
	12H	31.92	33.10	32.35	33.48	33.91	22.39	23.57	22.82	23.95	24.38
4H	2H	26.82	28.20	27.22	28.55	28.93	22.72	24.11	23.12	24.45	24.83
	3H	29.51	30.68	29.92	31.07	31.47	24.06	25.23	24.47	25.63	26.03
	4H	30.80	31.87	31.24	32.28	32.72	24.60	25.66	25.03	26.08	26.51
	6H	32.09	33.02	32.54	33.46	33.91	24.88	25.81	25.33	26.25	26.70
	8H	32.71	33.59	33.17	34.03	34.50	24.91	25.79	25.37	26.23	26.70
	12H	33.40	34.19	33.88	34.67	35.13	24.92	25.72	25.40	26.19	26.66
8H	4H	31.17	32.04	31.63	32.49	32.95	25.55	26.42	26.01	26.87	27.33
	6H	32.65	33.39	33.14	33.87	34.35	26.14	26.87	26.63	27.36	27.84
	8H	33.43	34.10	33.94	34.60	35.09	26.32	26.98	26.82	27.48	27.97
	12H	34.32	34.92	34.83	35.41	35.96	26.42	27.01	26.92	27.50	28.06
12H	4H	31.21	32.00	31.69	32.47	32.94	25.76	26.56	26.24	27.03	27.50
	6H	32.74	33.40	33.25	33.91	34.39	26.49	27.15	26.99	27.66	28.14
	8H	33.62	34.21	34.12	34.70	35.26	26.80	27.39	27.30	27.88	28.44