

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: P893084

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-RFLW-UNV-CC83-HI-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 4000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

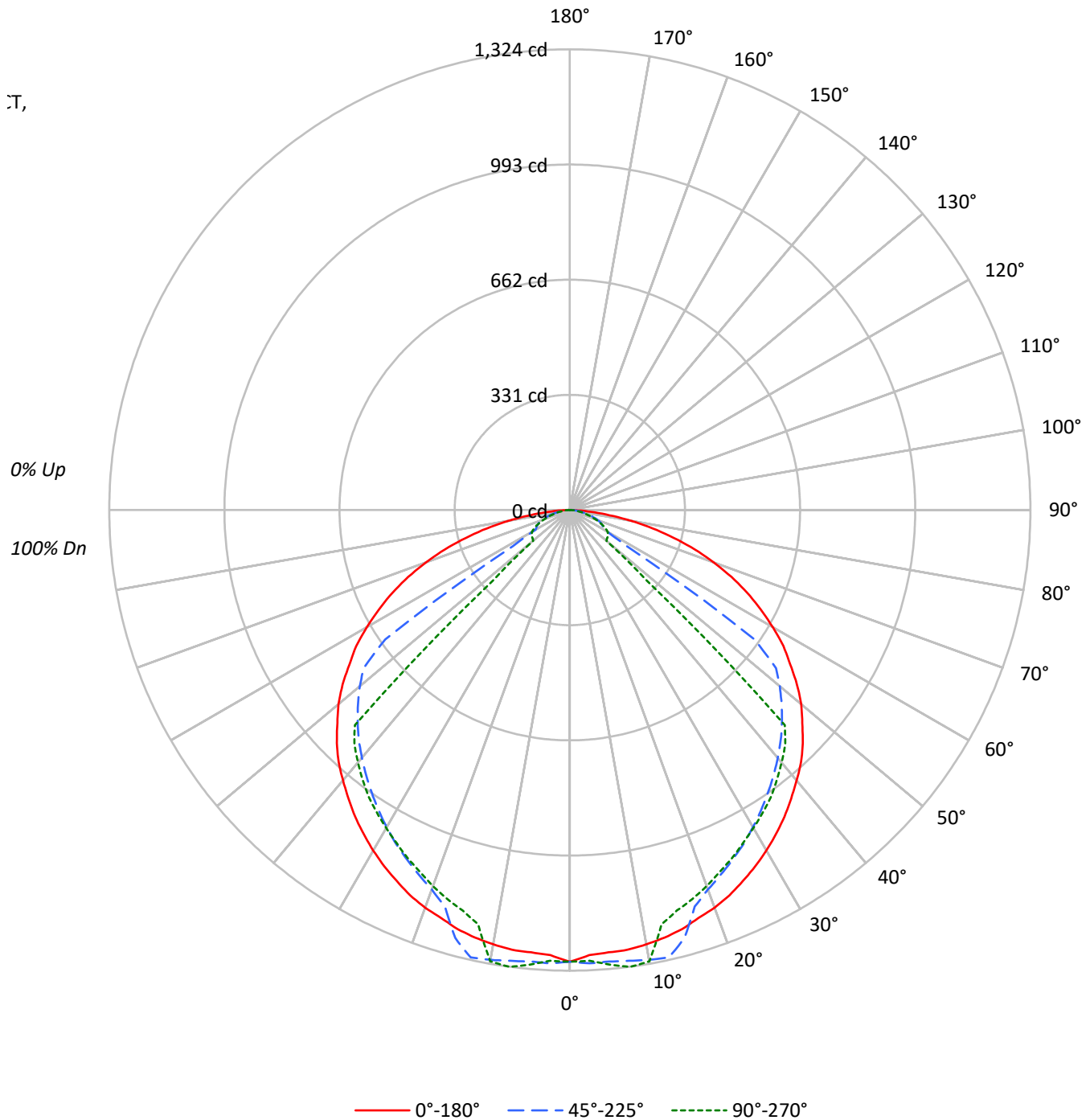
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3048.0 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.37
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V): 120
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	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	77	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	67	67	67	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	58	58	58	56
5	80	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	51	51	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	46	46	46	44
7	69	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	41	41	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	37	37	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	30	30	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33888	33888	33888
5°	33444	34133	34363
10°	33600	34801	34917
15°	33702	34413	32200
20°	33790	32246	31962
25°	33897	31918	31791
30°	34063	31730	31817
35°	34291	31633	32101
40°	34576	31686	32282
45°	34973	31842	32274
50°	35268	32002	5581
55°	35199	29477	6054
60°	35188	5953	6564
65°	34768	6320	6499
70°	33587	6580	6023
75°	31261	6194	5306
80°	26807	5488	4616
85°	17943	5242	3954

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 35374 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	4.1
10°-20°	350.7	11.5
20°-30°	524.8	17.2
30°-40°	632.8	20.8
40°-50°	637.2	20.9
50°-60°	397.5	13.0
60°-70°	249.9	8.2
70°-80°	103.9	3.4
80°-90°	26.7	0.9
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°	1000.0	32.8
0°-40°	1632.7	53.6
0°-60°	2667.5	87.5
0°-90°	3048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1276	1302	1302	1304	1311	122
15°	1247	1285	1273	1191	1191	352
25°	1177	1222	1108	1099	1104	543
35°	1076	1007	992	998	1007	673
45°	947	857	862	874	874	730
55°	773	681	648	127	133	693
65°	563	487	102	107	105	555
75°	310	75	61	54	53	327
85°	60	22	18	13	13	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1298.0	1298.0	1298.0	1298.0	1298.0
2.5°	1280.5	1303.9	1303.9	1298.0	1296.6
5°	1276.1	1302.4	1302.4	1303.9	1311.2
7.5°	1274.7	1299.5	1306.8	1315.6	1324.4
10°	1267.4	1296.6	1312.7	1324.4	1317.1
12.5°	1258.6	1290.7	1317.1	1242.5	1219.1
15°	1246.9	1284.9	1273.2	1191.3	1191.3
17.5°	1229.3	1276.1	1194.3	1170.9	1172.3
20°	1216.2	1268.8	1160.6	1147.5	1150.4
22.5°	1198.6	1254.2	1134.3	1122.6	1125.6
25°	1176.7	1222.0	1108.0	1099.2	1103.6
27.5°	1154.8	1156.3	1081.7	1075.9	1078.8
30°	1129.9	1093.4	1052.5	1051.0	1055.4
32.5°	1103.6	1046.6	1023.2	1026.2	1032.0
35°	1075.9	1007.2	992.5	998.4	1007.2
37.5°	1045.2	970.6	961.8	972.1	977.9
40°	1014.5	932.6	929.7	939.9	947.2
42.5°	983.8	896.1	897.5	907.8	916.5
45°	947.2	856.6	862.4	874.1	874.1
47.5°	906.3	814.2	825.9	801.0	296.7
50°	868.3	771.8	787.9	236.8	137.4
52.5°	823.0	726.5	747.0	130.1	134.5
55°	773.3	681.2	647.6	127.2	133.0
57.5°	728.0	634.4	193.0	125.7	130.1
60°	673.9	587.6	114.0	122.8	125.7
62.5°	618.3	537.9	108.2	116.9	116.9
65°	562.8	486.8	102.3	106.7	105.2
67.5°	502.8	434.1	96.5	93.6	92.1
70°	440.0	267.5	86.2	80.4	78.9
72.5°	377.1	92.1	74.6	67.2	65.8
75°	309.9	74.6	61.4	54.1	52.6
77.5°	244.1	61.4	48.2	42.4	40.9
80°	178.3	46.8	36.5	32.2	30.7
82.5°	115.5	33.6	27.8	21.9	20.5
85°	59.9	21.9	17.5	13.2	13.2
87.5°	23.4	13.2	8.8	5.8	4.4
90°	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	25.23	26.75	25.60	27.06	27.37	13.87	15.38	14.24	15.70	16.01
	3H	27.15	28.51	27.53	28.83	29.20	16.00	17.35	16.38	17.68	18.04
	4H	27.64	28.90	28.04	29.25	29.63	16.69	17.95	17.09	18.30	18.68
	6H	28.07	29.24	28.49	29.61	30.00	17.15	18.32	17.56	18.68	19.08
	8H	28.21	29.32	28.64	29.71	30.11	17.28	18.40	17.71	18.79	19.19
	12H	28.29	29.35	28.72	29.73	30.16	17.37	18.44	17.80	18.82	19.25
4H	2H	25.08	26.34	25.48	26.69	27.07	14.62	15.89	15.02	16.24	16.62
	3H	27.11	28.15	27.52	28.55	28.95	16.96	18.01	17.38	18.41	18.81
	4H	27.59	28.53	28.03	28.95	29.39	17.76	18.69	18.19	19.11	19.55
	6H	28.11	28.92	28.57	29.36	29.82	18.33	19.14	18.79	19.59	20.05
	8H	28.29	29.05	28.76	29.50	29.96	18.50	19.26	18.97	19.71	20.17
	12H	28.42	29.10	28.90	29.57	30.05	18.62	19.30	19.11	19.78	20.25
8H	4H	27.52	28.28	27.98	28.72	29.19	18.35	19.11	18.81	19.55	20.02
	6H	28.03	28.66	28.53	29.15	29.63	19.00	19.63	19.50	20.12	20.60
	8H	28.23	28.79	28.74	29.30	29.79	19.22	19.79	19.74	20.30	20.79
	12H	28.39	28.89	28.90	29.38	29.95	19.40	19.90	19.91	20.39	20.95
12H	4H	27.49	28.17	27.97	28.64	29.12	18.43	19.10	18.91	19.58	20.06
	6H	27.99	28.55	28.50	29.06	29.55	19.11	19.67	19.62	20.18	20.67
	8H	28.21	28.71	28.72	29.20	29.77	19.39	19.89	19.90	20.38	20.95