

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: P893085

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893085
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-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 5000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

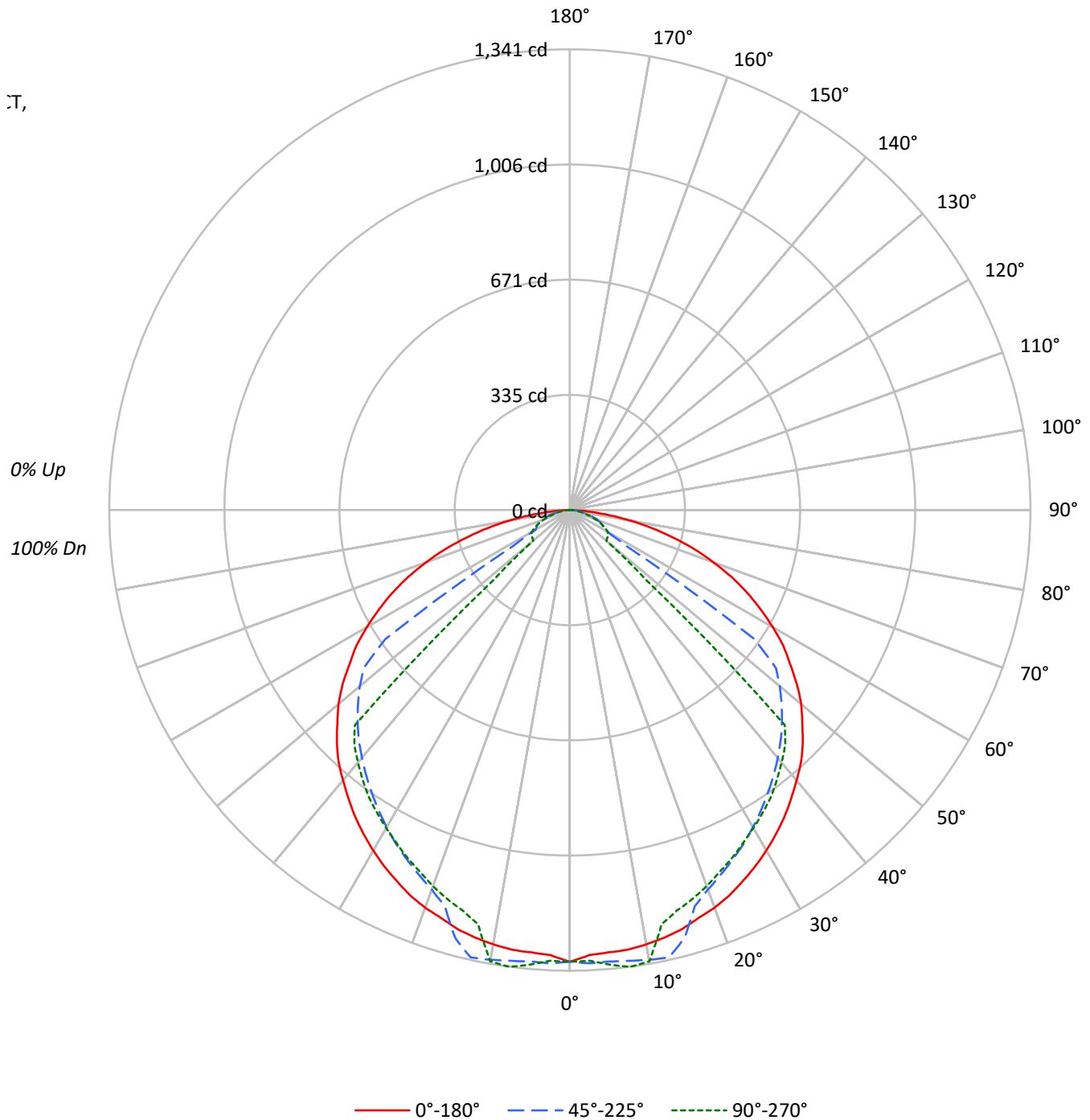
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3087.0 lumens
Efficiency: N/A
Efficacy: 147.0 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°	34324	34324	34324
5°	33871	34571	34804
10°	34029	35246	35363
15°	34132	34854	32613
20°	34224	32659	32371
25°	34332	32327	32200
30°	34500	32134	32224
35°	34728	32038	32509
40°	35015	32091	32694
45°	35419	32252	32687
50°	35718	32412	5654
55°	35650	29851	6131
60°	35637	6031	6647
65°	35213	6400	6585
70°	34015	6664	6099
75°	31664	6274	5377
80°	27153	5563	4676
85°	18183	5332	3984

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 35826 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	4.1
10°-20°	355.2	11.5
20°-30°	531.6	17.2
30°-40°	640.9	20.8
40°-50°	645.4	20.9
50°-60°	402.6	13.0
60°-70°	253.1	8.2
70°-80°	105.3	3.4
80°-90°	27.0	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°	1012.8	32.8
0°-40°	1653.6	53.6
0°-60°	2701.6	87.5
0°-90°	3087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1315	1315	1315	1315	1315	
5°	1292	1319	1319	1321	1328	123
15°	1263	1301	1290	1207	1207	356
25°	1192	1238	1122	1113	1118	550
35°	1090	1020	1005	1011	1020	682
45°	959	868	874	885	885	739
55°	783	690	656	129	135	701
65°	570	493	104	108	107	562
75°	314	76	62	55	53	331
85°	61	22	18	13	13	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.7	1314.7	1314.7	1314.7	1314.7
2.5°	1296.9	1320.6	1320.6	1314.7	1313.2
5°	1292.4	1319.1	1319.1	1320.6	1328.0
7.5°	1291.0	1316.1	1323.5	1332.4	1341.3
10°	1283.6	1313.2	1329.5	1341.3	1333.9
12.5°	1274.7	1307.3	1333.9	1258.4	1234.7
15°	1262.8	1301.3	1289.5	1206.6	1206.6
17.5°	1245.1	1292.4	1209.5	1185.9	1187.3
20°	1231.8	1285.0	1175.5	1162.2	1165.1
22.5°	1214.0	1270.2	1148.8	1137.0	1140.0
25°	1191.8	1237.7	1122.2	1113.3	1117.8
27.5°	1169.6	1171.1	1095.5	1089.6	1092.6
30°	1144.4	1107.4	1065.9	1064.5	1068.9
32.5°	1117.8	1060.0	1036.3	1039.3	1045.2
35°	1089.6	1020.0	1005.2	1011.2	1020.0
37.5°	1058.5	983.0	974.1	984.5	990.4
40°	1027.4	944.5	941.6	951.9	959.3
42.5°	996.4	907.5	909.0	919.4	928.3
45°	959.3	867.6	873.5	885.3	885.3
47.5°	917.9	824.6	836.5	811.3	300.5
50°	879.4	781.7	798.0	239.8	139.2
52.5°	833.5	735.8	756.5	131.8	136.2
55°	783.2	689.9	655.8	128.8	134.7
57.5°	737.3	642.5	195.4	127.3	131.8
60°	682.5	595.1	115.5	124.4	127.3
62.5°	626.2	544.8	109.6	118.4	118.4
65°	570.0	493.0	103.6	108.1	106.6
67.5°	509.3	439.7	97.7	94.8	93.3
70°	445.6	270.9	87.3	81.4	79.9
72.5°	382.0	93.3	75.5	68.1	66.6
75°	313.9	75.5	62.2	54.8	53.3
77.5°	247.2	62.2	48.9	42.9	41.5
80°	180.6	47.4	37.0	32.6	31.1
82.5°	117.0	34.1	28.1	22.2	20.7
85°	60.7	22.2	17.8	13.3	13.3
87.5°	23.7	13.3	8.9	5.9	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	25.28	26.79	25.64	27.10	27.42	13.92	15.43	14.28	15.74	16.06
	3H	27.20	28.55	27.58	28.88	29.24	16.05	17.40	16.42	17.73	18.09
	4H	27.68	28.95	28.08	29.30	29.68	16.73	18.00	17.13	18.35	18.73
	6H	28.12	29.29	28.53	29.65	30.04	17.20	18.36	17.61	18.73	19.12
	8H	28.26	29.37	28.68	29.76	30.16	17.33	18.44	17.76	18.83	19.23
	12H	28.33	29.40	28.76	29.78	30.21	17.42	18.48	17.85	18.86	19.29
4H	2H	25.12	26.39	25.52	26.74	27.12	14.67	15.93	15.07	16.28	16.66
	3H	27.15	28.19	27.56	28.60	29.00	17.01	18.05	17.42	18.45	18.85
	4H	27.64	28.58	28.07	28.99	29.43	17.80	18.74	18.24	19.16	19.59
	6H	28.15	28.96	28.61	29.41	29.87	18.38	19.19	18.83	19.63	20.09
	8H	28.34	29.10	28.80	29.54	30.01	18.55	19.30	19.01	19.75	20.22
	12H	28.46	29.14	28.95	29.62	30.09	18.67	19.34	19.15	19.82	20.29
8H	4H	27.56	28.32	28.03	28.77	29.23	18.39	19.15	18.86	19.59	20.06
	6H	28.07	28.70	28.57	29.19	29.67	19.04	19.67	19.54	20.16	20.64
	8H	28.27	28.84	28.79	29.35	29.84	19.27	19.83	19.78	20.34	20.83
	12H	28.43	28.93	28.94	29.43	29.99	19.44	19.94	19.95	20.43	21.00
12H	4H	27.53	28.21	28.02	28.69	29.16	18.47	19.15	18.96	19.63	20.10
	6H	28.03	28.59	28.54	29.10	29.59	19.15	19.72	19.67	20.23	20.72
	8H	28.25	28.75	28.76	29.25	29.81	19.44	19.94	19.95	20.43	20.99