

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: P893083

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893083
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-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

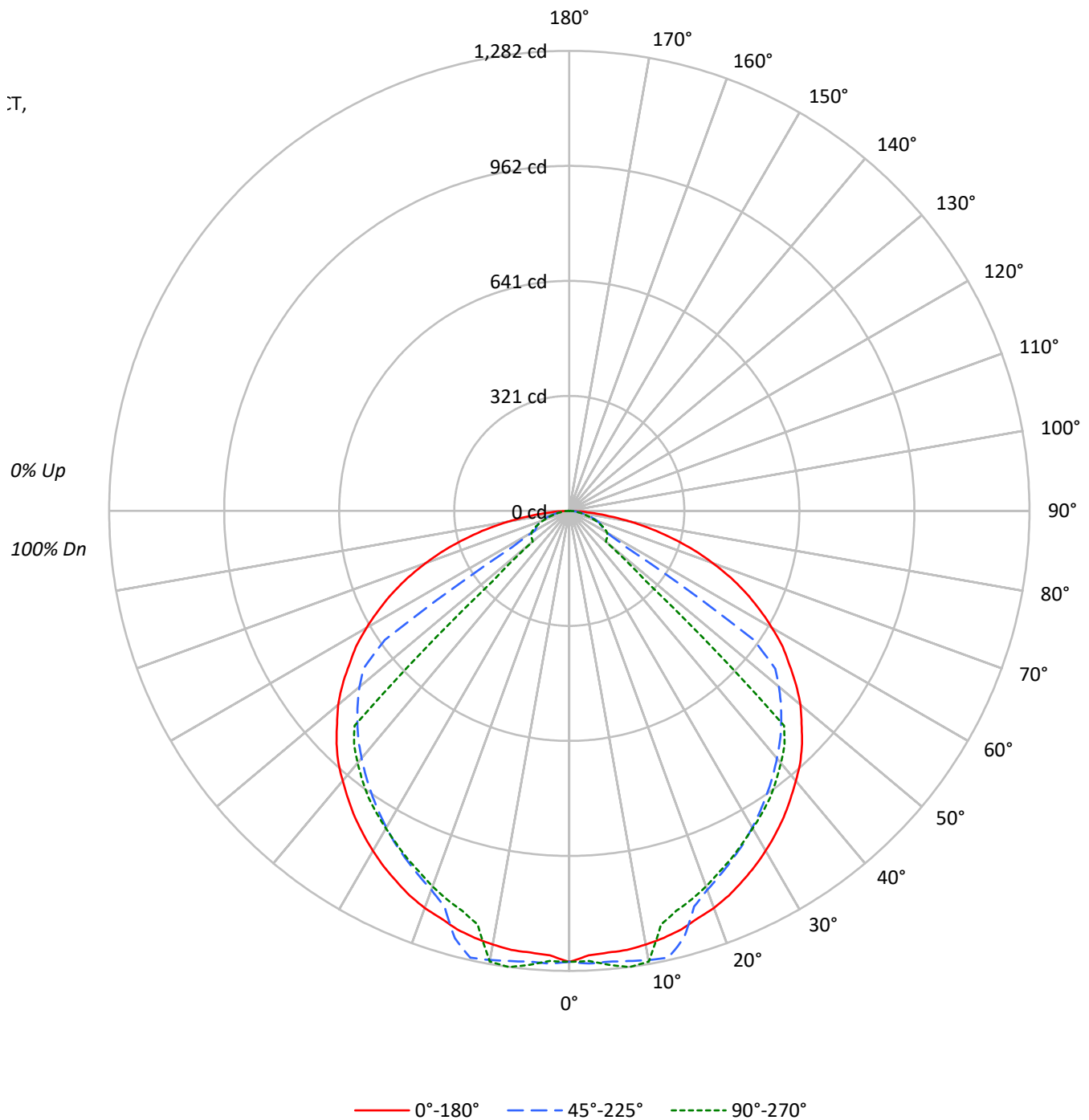
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2951.0 lumens
Efficiency: N/A
Efficacy: 140.5 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°	32810	32810	32810
5°	32380	33048	33271
10°	32529	33692	33804
15°	32629	33319	31175
20°	32715	31220	30945
25°	32820	30904	30780
30°	32981	30720	30804
35°	33198	30629	31078
40°	33475	30677	31256
45°	33861	30830	31247
50°	34147	30982	5402
55°	34079	28540	5863
60°	34066	5765	6355
65°	33662	6122	6295
70°	32519	6374	5832
75°	30262	5992	5134
80°	25965	5322	4465
85°	17374	5092	3804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 34247 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	4.1
10°-20°	339.6	11.5
20°-30°	508.1	17.2
30°-40°	612.6	20.8
40°-50°	616.9	20.9
50°-60°	384.9	13.0
60°-70°	242.0	8.2
70°-80°	100.6	3.4
80°-90°	25.8	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°	968.1	32.8
0°-40°	1580.8	53.6
0°-60°	2582.6	87.5
0°-90°	2951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1257	1257	1257	1257	1257	
5°	1236	1261	1261	1262	1270	118
15°	1207	1244	1233	1153	1153	341
25°	1139	1183	1073	1064	1068	526
35°	1042	975	961	967	975	652
45°	917	829	835	846	846	707
55°	749	660	627	123	129	671
65°	545	471	99	103	102	537
75°	300	72	59	52	51	317
85°	58	21	17	13	13	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1256.7	1256.7	1256.7	1256.7	1256.7
2.5°	1239.8	1262.4	1262.4	1256.7	1255.3
5°	1235.5	1261.0	1261.0	1262.4	1269.5
7.5°	1234.1	1258.2	1265.2	1273.7	1282.2
10°	1227.0	1255.3	1270.9	1282.2	1275.1
12.5°	1218.5	1249.7	1275.1	1203.0	1180.3
15°	1207.2	1244.0	1232.7	1153.4	1153.4
17.5°	1190.2	1235.5	1156.3	1133.6	1135.0
20°	1177.5	1228.4	1123.7	1111.0	1113.8
22.5°	1160.5	1214.3	1098.2	1086.9	1089.7
25°	1139.3	1183.1	1072.8	1064.3	1068.5
27.5°	1118.0	1119.5	1047.3	1041.6	1044.5
30°	1094.0	1058.6	1019.0	1017.6	1021.8
32.5°	1068.5	1013.3	990.7	993.5	999.2
35°	1041.6	975.1	961.0	966.6	975.1
37.5°	1011.9	939.7	931.2	941.1	946.8
40°	982.2	902.9	900.1	910.0	917.1
42.5°	952.5	867.5	869.0	878.9	887.4
45°	917.1	829.3	835.0	846.3	846.3
47.5°	877.5	788.3	799.6	775.6	287.3
50°	840.7	747.2	762.8	229.3	133.0
52.5°	796.8	703.4	723.2	126.0	130.2
55°	748.7	659.5	627.0	123.1	128.8
57.5°	704.8	614.2	186.8	121.7	126.0
60°	652.4	568.9	110.4	118.9	121.7
62.5°	598.6	520.8	104.7	113.2	113.2
65°	544.9	471.3	99.1	103.3	101.9
67.5°	486.8	420.3	93.4	90.6	89.2
70°	426.0	259.0	83.5	77.8	76.4
72.5°	365.1	89.2	72.2	65.1	63.7
75°	300.0	72.2	59.4	52.4	50.9
77.5°	236.3	59.4	46.7	41.0	39.6
80°	172.7	45.3	35.4	31.1	29.7
82.5°	111.8	32.6	26.9	21.2	19.8
85°	58.0	21.2	17.0	12.7	12.7
87.5°	22.6	12.7	8.5	5.7	4.2
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	25.12	26.63	25.49	26.95	27.26	13.76	15.27	14.12	15.59	15.90
	3H	27.04	28.39	27.42	28.72	29.08	15.89	17.24	16.27	17.57	17.93
	4H	27.53	28.79	27.93	29.14	29.52	16.58	17.84	16.98	18.19	18.57
	6H	27.96	29.13	28.37	29.50	29.89	17.04	18.20	17.45	18.57	18.96
	8H	28.10	29.21	28.53	29.60	30.00	17.17	18.28	17.60	18.67	19.07
	12H	28.18	29.24	28.61	29.62	30.05	17.26	18.32	17.69	18.70	19.13
4H	2H	24.97	26.23	25.37	26.58	26.96	14.51	15.78	14.91	16.13	16.50
	3H	26.99	28.04	27.41	28.44	28.84	16.85	17.90	17.26	18.30	18.70
	4H	27.48	28.42	27.92	28.84	29.27	17.65	18.58	18.08	19.00	19.44
	6H	27.99	28.81	28.45	29.25	29.71	18.22	19.03	18.68	19.47	19.93
	8H	28.18	28.94	28.65	29.38	29.85	18.39	19.15	18.85	19.59	20.06
	12H	28.31	28.98	28.79	29.46	29.93	18.51	19.19	18.99	19.66	20.14
8H	4H	27.41	28.17	27.87	28.61	29.08	18.23	18.99	18.70	19.44	19.91
	6H	27.92	28.54	28.42	29.04	29.51	18.89	19.51	19.38	20.00	20.48
	8H	28.12	28.68	28.63	29.19	29.68	19.11	19.67	19.62	20.18	20.67
	12H	28.28	28.78	28.79	29.27	29.83	19.28	19.78	19.79	20.27	20.84
12H	4H	27.38	28.05	27.86	28.53	29.00	18.32	18.99	18.80	19.47	19.94
	6H	27.87	28.44	28.39	28.95	29.44	19.00	19.56	19.51	20.07	20.56
	8H	28.10	28.60	28.61	29.09	29.65	19.28	19.78	19.79	20.27	20.84