

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: P893030

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-LVR-UNV-CC83-HI-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 4000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

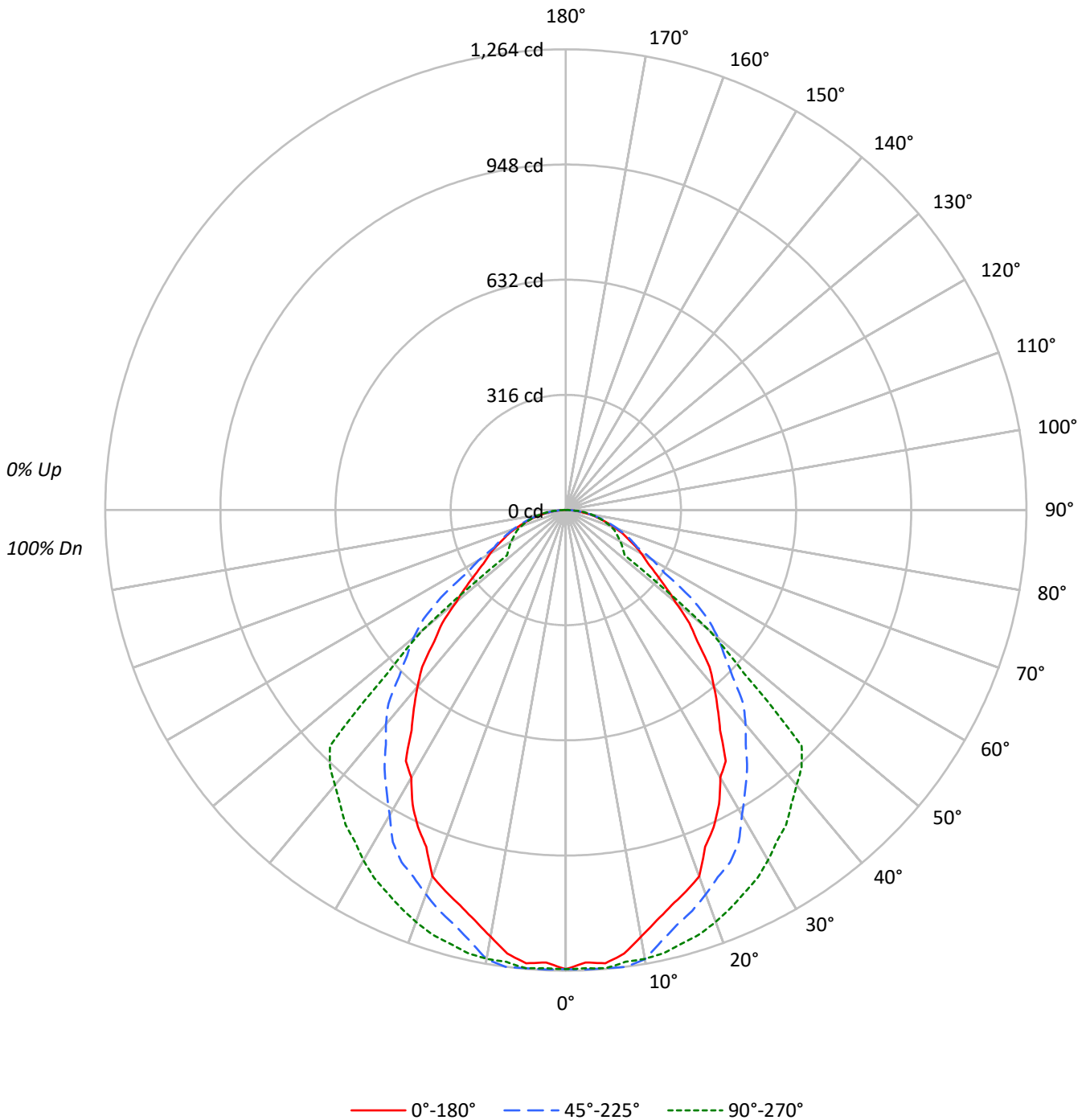
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2628.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.3 / 1.26
Luminous Opening: Rectangular (W 0.38' 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

TEST NUMBER: P893030
CATALOG NUMBER: 2MB-SC3-LVR-UNV-CC83-HI-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P893030

CATALOG NUMBER: 2MB-SC3-LVR-UNV-CC83-HI-4000K

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	100	97	100	97	94	96	94	91	92	90	89	89	89	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	42	42	42	40
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	38	38	38	37
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18019	18019	18019
5°	17924	18121	18121
10°	17267	18181	18165
15°	16621	17452	18231
20°	16285	17085	18305
25°	15151	16831	18294
30°	14004	15968	18332
35°	12887	15145	18402
40°	11815	14336	18396
45°	10324	13100	18517
50°	8733	12145	11457
55°	7420	10443	4794
60°	6875	7922	4944
65°	6391	6739	5189
70°	6031	6366	5454
75°	5566	6008	5627
80°	5091	5561	5940
85°	4514	5072	6385

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 18517 cd/sqm



TEST NUMBER: P893030
 CATALOG NUMBER: 2MB-SC3-LVR-UNV-CC83-HI-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	4.5
10°-20°	334.4	12.7
20°-30°	486.1	18.5
30°-40°	550.4	20.9
40°-50°	514.1	19.6
50°-60°	292.1	11.1
60°-70°	183.6	7.0
70°-80°	112.6	4.3
80°-90°	35.3	1.3
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°	939.9	35.8
0°-40°	1490.2	56.7
0°-60°	2296.5	87.4
0°-90°	2628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1260	1260	1260	1260	1260	
5°	1248	1261	1262	1257	1262	117
15°	1122	1142	1178	1242	1231	317
25°	960	978	1066	1114	1159	440
35°	738	787	867	980	1054	465
45°	510	563	648	823	915	397
55°	298	325	419	220	192	272
65°	189	196	199	173	153	189
75°	101	104	109	111	102	108
85°	28	29	31	34	39	31
90°	0	0	0	0	0	



TEST NUMBER: P893030

CATALOG NUMBER: 2MB-SC3-LVR-UNV-CC83-HI-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1259.6	1259.6	1259.6	1259.6	1259.6
2.5°	1242.5	1256.2	1261.9	1260.8	1258.5
5°	1248.2	1260.8	1261.9	1257.3	1261.9
7.5°	1227.6	1257.3	1264.2	1252.8	1250.5
10°	1188.7	1205.9	1251.6	1256.2	1250.5
12.5°	1153.2	1173.8	1211.6	1256.2	1244.8
15°	1122.3	1141.8	1178.4	1242.5	1231.0
17.5°	1097.2	1104.0	1153.2	1227.6	1220.7
20°	1069.7	1083.4	1122.3	1191.0	1202.4
22.5°	999.9	1037.7	1090.3	1159.0	1181.8
25°	959.9	978.2	1066.3	1114.3	1159.0
27.5°	910.7	943.9	1027.4	1080.0	1138.4
30°	847.8	885.5	966.7	1044.5	1109.8
32.5°	816.9	830.6	915.3	1015.9	1077.7
35°	737.9	787.1	867.2	980.5	1053.7
37.5°	684.2	713.9	811.2	946.2	1017.1
40°	632.7	667.0	767.7	908.4	985.1
42.5°	583.5	614.4	720.8	870.6	957.6
45°	510.3	562.9	647.5	822.6	915.3
47.5°	459.9	493.1	590.3	764.2	663.6
50°	392.4	432.5	545.7	524.0	514.8
52.5°	343.2	365.0	492.0	442.8	203.6
55°	297.5	324.9	418.7	219.7	192.2
57.5°	263.1	281.4	321.5	203.6	183.1
60°	240.3	244.8	276.9	194.5	172.8
62.5°	215.1	219.7	220.8	184.2	162.5
65°	188.8	195.6	199.1	172.8	153.3
67.5°	169.3	170.5	175.0	160.2	144.2
70°	144.2	146.4	152.2	146.4	130.4
72.5°	122.4	125.8	129.3	130.4	116.7
75°	100.7	104.1	108.7	111.0	101.8
77.5°	82.4	83.5	88.1	93.8	87.0
80°	61.8	65.2	67.5	73.2	72.1
82.5°	44.6	45.8	49.2	53.8	56.1
85°	27.5	28.6	30.9	34.3	38.9
87.5°	11.4	12.6	13.7	16.0	18.3
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P893030
 CATALOG NUMBER: 2MB-SC3-LVR-UNV-CC83-HI-4000K

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	17.76	19.24	18.13	19.55	19.87	15.51	16.99	15.87	17.30	17.62
	3H	19.35	20.67	19.73	21.00	21.36	17.84	19.17	18.22	19.50	19.86
	4H	19.95	21.19	20.35	21.54	21.92	18.79	20.03	19.19	20.38	20.76
	6H	20.41	21.56	20.83	21.93	22.32	19.58	20.72	19.99	21.09	21.48
	8H	20.57	21.65	20.99	22.04	22.45	19.89	20.98	20.32	21.37	21.77
	12H	20.67	21.71	21.10	22.09	22.52	20.13	21.18	20.56	21.56	21.99
4H	2H	18.33	19.57	18.73	19.92	20.30	16.67	17.91	17.07	18.25	18.63
	3H	20.15	21.18	20.57	21.58	21.98	19.10	20.13	19.52	20.53	20.93
	4H	20.89	21.81	21.32	22.23	22.67	20.15	21.08	20.59	21.49	21.93
	6H	21.48	22.28	21.94	22.73	23.19	21.05	21.85	21.51	22.29	22.76
	8H	21.68	22.43	22.14	22.87	23.34	21.39	22.14	21.86	22.59	23.06
	12H	21.82	22.49	22.30	22.97	23.44	21.68	22.35	22.16	22.83	23.30
8H	4H	21.19	21.94	21.66	22.39	22.86	20.56	21.31	21.02	21.75	22.22
	6H	21.92	22.54	22.41	23.03	23.51	21.60	22.22	22.10	22.71	23.19
	8H	22.19	22.75	22.70	23.26	23.75	22.04	22.60	22.55	23.11	23.60
	12H	22.41	22.90	22.92	23.40	23.96	22.42	22.92	22.93	23.41	23.98
12H	4H	21.23	21.90	21.71	22.38	22.85	20.59	21.26	21.08	21.74	22.21
	6H	21.98	22.54	22.50	23.05	23.54	21.67	22.23	22.18	22.74	23.23
	8H	22.31	22.81	22.82	23.30	23.87	22.17	22.67	22.68	23.16	23.73