

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: P892670

Luminaire Tested: 2MB-3SL-RFLW-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892670
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-3SL-RFLW-UNV-L835
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K
Light Source: -
Ballast/Driver: -

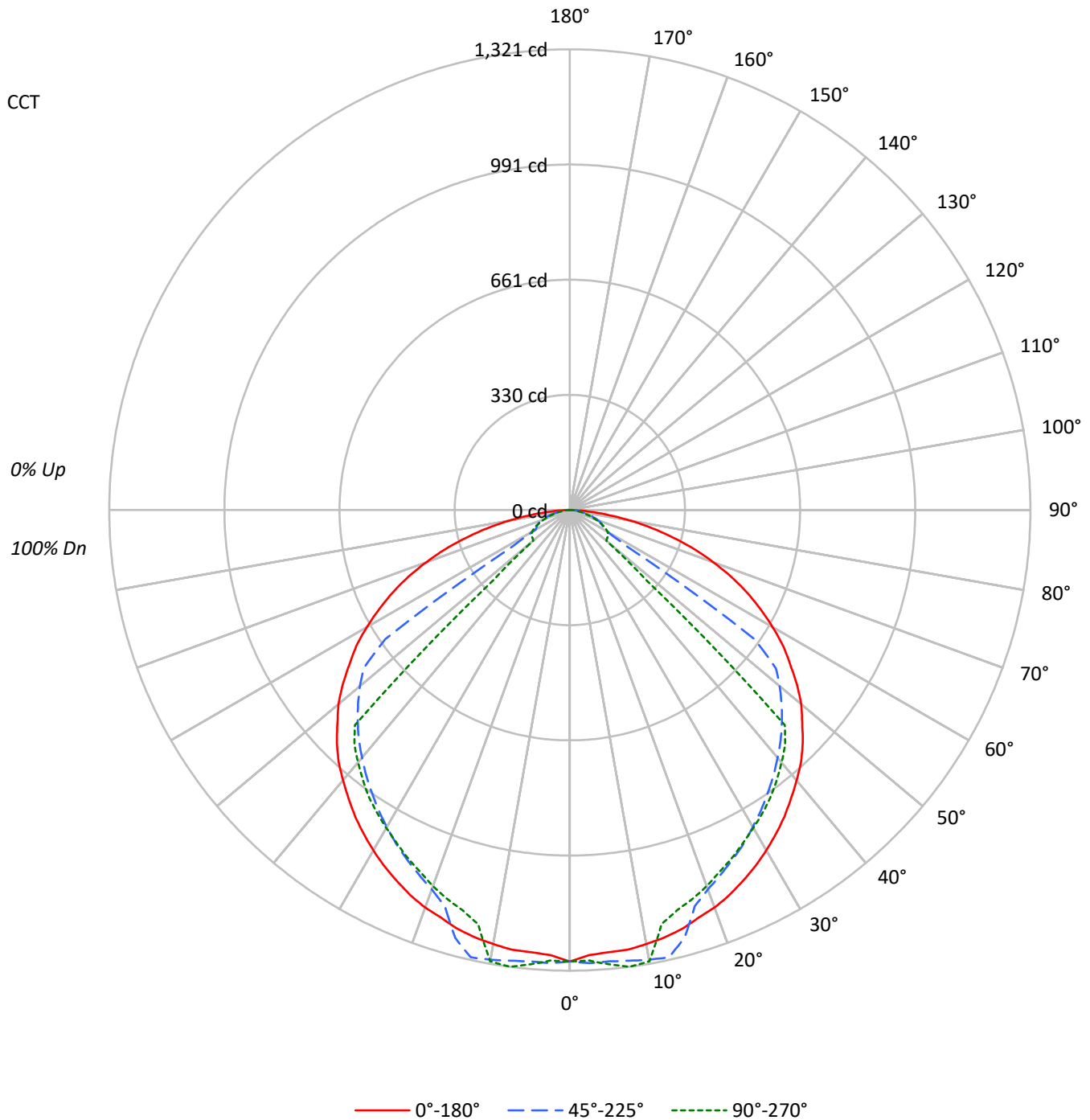
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3040.0 lumens
Efficiency: N/A
Efficacy: 144.8 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 (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 8
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P892670
CATALOG NUMBER: 2MB-3SL-RFLW-UNV-L835

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°	33799	33799	33799
5°	33357	34044	34274
10°	33510	34708	34824
15°	33613	34324	32116
20°	33701	32162	31879
25°	33808	31835	31708
30°	33976	31645	31733
35°	34199	31550	32015
40°	34484	31600	32197
45°	34880	31760	32189
50°	35174	31917	5564
55°	35103	29400	6040
60°	35094	5937	6548
65°	34675	6307	6487
70°	33496	6565	6008
75°	31180	6173	5296
80°	26747	5473	4601
85°	17913	5242	3924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 35277 cd/sqm



TEST NUMBER: P892670
 CATALOG NUMBER: 2MB-3SL-RFLW-UNV-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	4.1
10°-20°	349.8	11.5
20°-30°	523.5	17.2
30°-40°	631.1	20.8
40°-50°	635.5	20.9
50°-60°	396.5	13.0
60°-70°	249.3	8.2
70°-80°	103.7	3.4
80°-90°	26.6	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°	997.3	32.8
0°-40°	1628.5	53.6
0°-60°	2660.5	87.5
0°-90°	3040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1295	1295	1295	1295	1295	
5°	1273	1299	1299	1300	1308	121
15°	1244	1282	1270	1188	1188	351
25°	1174	1219	1105	1096	1101	542
35°	1073	1004	990	996	1004	672
45°	945	854	860	872	872	728
55°	771	679	646	127	133	691
65°	561	486	102	106	105	553
75°	309	74	61	54	52	326
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°	1294.6	1294.6	1294.6	1294.6	1294.6
2.5°	1277.1	1300.5	1300.5	1294.6	1293.2
5°	1272.8	1299.0	1299.0	1300.5	1307.8
7.5°	1271.3	1296.1	1303.4	1312.1	1320.9
10°	1264.0	1293.2	1309.2	1320.9	1313.6
12.5°	1255.3	1287.4	1313.6	1239.2	1215.9
15°	1243.6	1281.5	1269.9	1188.2	1188.2
17.5°	1226.1	1272.8	1191.1	1167.8	1169.3
20°	1213.0	1265.5	1157.6	1144.5	1147.4
22.5°	1195.5	1250.9	1131.4	1119.7	1122.6
25°	1173.6	1218.8	1105.1	1096.4	1100.7
27.5°	1151.8	1153.2	1078.9	1073.0	1076.0
30°	1127.0	1090.5	1049.7	1048.3	1052.6
32.5°	1100.7	1043.9	1020.6	1023.5	1029.3
35°	1073.0	1004.5	989.9	995.8	1004.5
37.5°	1042.4	968.1	959.3	969.5	975.4
40°	1011.8	930.2	927.2	937.4	944.7
42.5°	981.2	893.7	895.2	905.4	914.1
45°	944.7	854.3	860.2	871.8	871.8
47.5°	903.9	812.1	823.7	798.9	296.0
50°	866.0	769.8	785.8	236.2	137.0
52.5°	820.8	724.6	745.0	129.8	134.1
55°	771.2	679.4	645.9	126.8	132.7
57.5°	726.0	632.7	192.4	125.4	129.8
60°	672.1	586.1	113.7	122.5	125.4
62.5°	616.7	536.5	107.9	116.6	116.6
65°	561.3	485.5	102.1	106.4	105.0
67.5°	501.5	433.0	96.2	93.3	91.8
70°	438.8	266.8	86.0	80.2	78.7
72.5°	376.1	91.8	74.4	67.1	65.6
75°	309.1	74.4	61.2	53.9	52.5
77.5°	243.5	61.2	48.1	42.3	40.8
80°	177.9	46.7	36.4	32.1	30.6
82.5°	115.2	33.5	27.7	21.9	20.4
85°	59.8	21.9	17.5	13.1	13.1
87.5°	23.3	13.1	8.7	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	25.22	26.74	25.59	27.05	27.36	13.86	15.38	14.23	15.69	16.01
	3H	27.14	28.50	27.52	28.82	29.19	15.99	17.35	16.37	17.67	18.04
	4H	27.63	28.89	28.03	29.24	29.62	16.68	17.95	17.08	18.29	18.67
	6H	28.06	29.23	28.48	29.60	29.99	17.14	18.31	17.55	18.68	19.07
	8H	28.20	29.31	28.63	29.70	30.11	17.28	18.39	17.70	18.78	19.18
	12H	28.28	29.34	28.71	29.72	30.15	17.36	18.42	17.79	18.81	19.24
4H	2H	25.07	26.34	25.47	26.68	27.06	14.62	15.88	15.02	16.23	16.61
	3H	27.10	28.14	27.51	28.54	28.94	16.96	18.00	17.37	18.40	18.80
	4H	27.59	28.52	28.02	28.94	29.38	17.75	18.69	18.18	19.10	19.54
	6H	28.10	28.91	28.56	29.35	29.81	18.32	19.13	18.78	19.58	20.04
	8H	28.28	29.04	28.75	29.49	29.96	18.49	19.25	18.96	19.70	20.16
	12H	28.41	29.09	28.89	29.57	30.04	18.61	19.29	19.10	19.77	20.24
8H	4H	27.51	28.27	27.97	28.71	29.18	18.34	19.10	18.80	19.54	20.01
	6H	28.02	28.65	28.52	29.14	29.62	18.99	19.62	19.49	20.11	20.59
	8H	28.22	28.78	28.74	29.29	29.78	19.21	19.78	19.73	20.29	20.78
	12H	28.38	28.88	28.89	29.37	29.94	19.39	19.89	19.90	20.38	20.94
12H	4H	27.48	28.16	27.96	28.64	29.11	18.42	19.10	18.90	19.57	20.05
	6H	27.98	28.54	28.49	29.05	29.54	19.10	19.66	19.62	20.17	20.66
	8H	28.20	28.70	28.71	29.19	29.76	19.38	19.88	19.89	20.38	20.94