

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: P894287

Luminaire Tested: 4MB-SC3-RFLW-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

**Test Information**

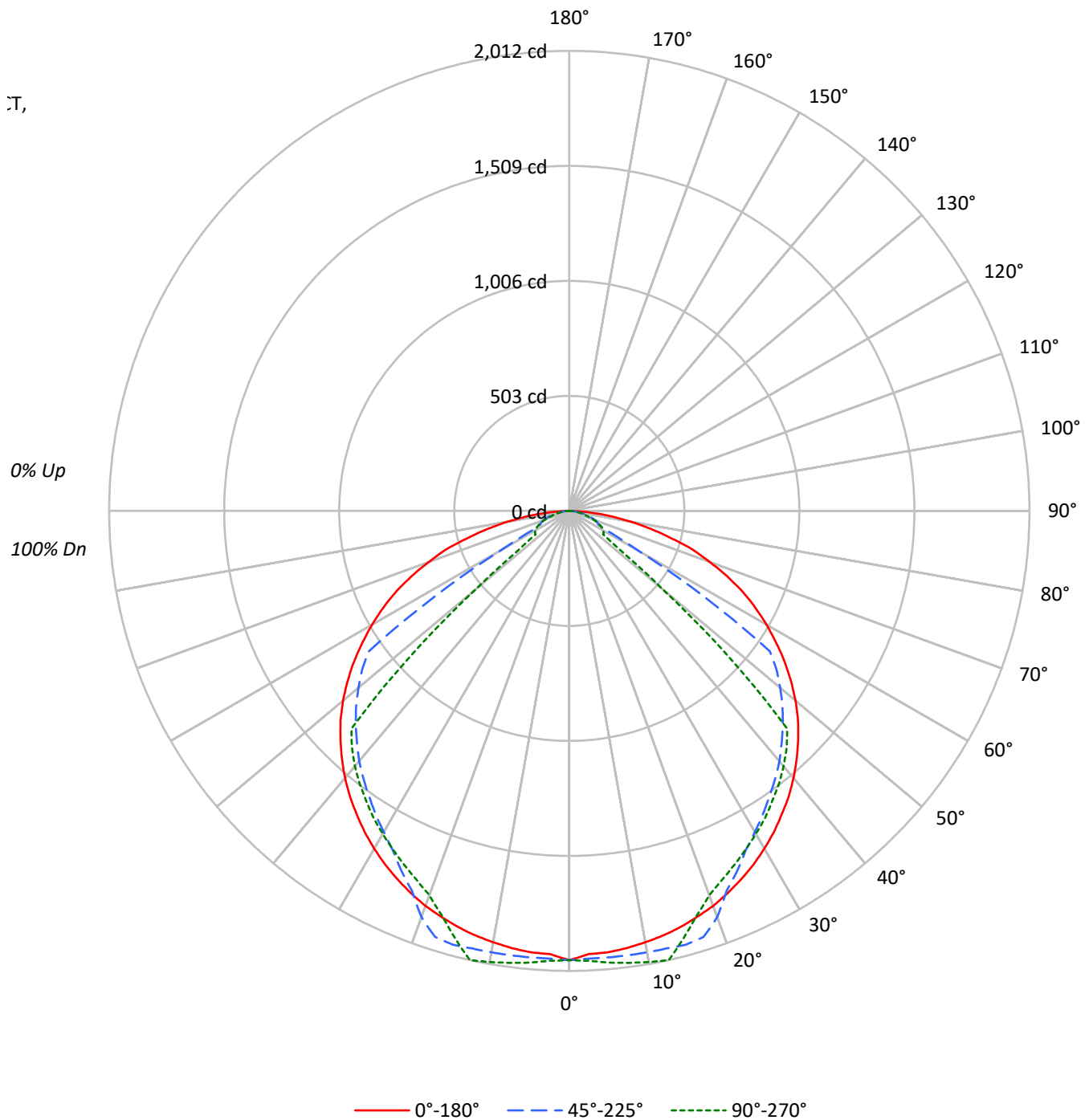
Test Method: LM-79-2019  
Report Number: P894287  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-SC3-RFLW-UNV-CC83-MID-5000K  
Description: Selectable 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 5000K CC  
MID lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4792.0 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38  
Luminous Opening: Rectangular (W 0.21' x L: 3.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9948  
Total Harmonic Distortion (THDi): 5.65231997856897  
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	79	77	77	77	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	58	58	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	51	51	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	45	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	40	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	36	36	36	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	33	33	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	25513	25513	25513
5°	25257	25552	25845
10°	25253	25847	26412
15°	25321	26413	25988
20°	25407	26122	24721
25°	25470	24890	24470
30°	25574	24325	24460
35°	25680	24180	24537
40°	25857	24214	24711
45°	25985	24247	24743
50°	26082	24306	10697
55°	26014	24230	4082
60°	25864	9245	4446
65°	25683	4292	4569
70°	24807	4620	4279
75°	23174	4410	3733
80°	20385	3874	3201
85°	16120	3352	2682

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 26082 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.6	3.9
10°-20°	544.8	11.4
20°-30°	812.9	17.0
30°-40°	985.3	20.6
40°-50°	1008.9	21.1
50°-60°	671.0	14.0
60°-70°	382.4	8.0
70°-80°	160.7	3.4
80°-90°	38.3	0.8
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°	1545.4	32.2
0°-40°	2530.7	52.8
0°-60°	4210.6	87.9
0°-90°	4792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4792.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1965	1965	1965	1965	1965	
5°	1938	1976	1960	1965	1983	184
15°	1884	1936	1965	1958	1933	532
25°	1778	1863	1737	1699	1708	820
35°	1620	1649	1525	1532	1548	1015
45°	1415	1329	1320	1336	1347	1092
55°	1149	1052	1070	234	180	1026
65°	836	748	140	149	149	823
75°	462	97	88	77	74	490
85°	108	27	22	18	18	130
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1964.8	1964.8	1964.8	1964.8	1964.8
2.5°	1940.0	1980.5	1960.3	1962.5	1969.3
5°	1937.7	1976.0	1960.3	1964.8	1982.8
7.5°	1928.7	1969.3	1960.3	1973.8	1994.0
10°	1915.2	1962.5	1960.3	1982.8	2003.1
12.5°	1901.7	1949.0	1960.3	1994.0	2012.1
15°	1883.6	1935.5	1964.8	1958.0	1933.2
17.5°	1861.1	1921.9	1953.5	1856.6	1854.4
20°	1838.6	1903.9	1890.4	1798.0	1789.0
22.5°	1809.3	1885.9	1798.0	1734.9	1746.2
25°	1777.7	1863.4	1737.2	1698.9	1707.9
27.5°	1743.9	1840.8	1671.8	1658.3	1669.6
30°	1705.6	1809.3	1622.3	1617.8	1631.3
32.5°	1665.1	1748.5	1575.0	1577.2	1593.0
35°	1620.0	1649.3	1525.4	1532.1	1547.9
37.5°	1575.0	1556.9	1478.1	1489.3	1505.1
40°	1525.4	1484.8	1428.5	1439.8	1457.8
42.5°	1471.3	1408.2	1374.4	1390.2	1406.0
45°	1415.0	1329.4	1320.4	1336.1	1347.4
47.5°	1356.4	1261.8	1264.0	1275.3	955.3
50°	1291.1	1194.2	1203.2	833.7	529.5
52.5°	1221.2	1124.3	1142.4	464.2	268.1
55°	1149.1	1052.2	1070.3	234.3	180.3
57.5°	1072.5	980.1	698.5	169.0	178.0
60°	995.9	903.5	356.0	166.7	171.2
62.5°	917.0	826.9	169.0	160.0	162.2
65°	835.9	748.0	139.7	148.7	148.7
67.5°	745.8	664.7	132.9	132.9	130.7
70°	653.4	552.0	121.7	114.9	112.7
72.5°	567.8	211.8	105.9	94.6	92.4
75°	461.9	96.9	87.9	76.6	74.4
77.5°	367.3	81.1	69.8	60.8	58.6
80°	272.6	63.1	51.8	45.1	42.8
82.5°	189.3	42.8	36.1	29.3	29.3
85°	108.2	27.0	22.5	18.0	18.0
87.5°	42.8	13.5	11.3	6.8	6.8
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	24.18	25.70	24.54	26.01	26.33	11.95	13.47	12.31	13.78	14.09
	3H	26.20	27.56	26.58	27.89	28.25	14.26	15.62	14.64	15.95	16.31
	4H	26.66	27.93	27.06	28.28	28.66	14.97	16.25	15.37	16.59	16.97
	6H	27.07	28.24	27.48	28.61	29.00	15.46	16.63	15.87	17.00	17.39
	8H	27.22	28.33	27.64	28.72	29.12	15.60	16.71	16.02	17.10	17.50
	12H	27.32	28.38	27.75	28.77	29.20	15.68	16.75	16.11	17.13	17.56
4H	2H	24.02	25.29	24.42	25.64	26.02	12.74	14.02	13.14	14.36	14.74
	3H	26.22	27.27	26.64	27.67	28.07	15.25	16.30	15.67	16.70	17.10
	4H	26.67	27.61	27.10	28.03	28.47	16.07	17.01	16.51	17.43	17.87
	6H	27.14	27.95	27.60	28.40	28.86	16.67	17.48	17.12	17.92	18.39
	8H	27.33	28.09	27.79	28.53	29.00	16.84	17.60	17.30	18.04	18.51
	12H	27.48	28.16	27.96	28.64	29.11	16.95	17.63	17.44	18.11	18.58
8H	4H	26.59	27.35	27.05	27.80	28.26	16.91	17.67	17.38	18.12	18.59
	6H	27.05	27.68	27.55	28.17	28.65	17.54	18.16	18.03	18.66	19.13
	8H	27.25	27.81	27.76	28.33	28.81	17.74	18.30	18.25	18.81	19.30
	12H	27.43	27.94	27.94	28.43	28.99	17.89	18.39	18.40	18.89	19.45
12H	4H	26.56	27.24	27.04	27.72	28.19	16.98	17.66	17.47	18.14	18.61
	6H	27.00	27.57	27.52	28.08	28.57	17.63	18.19	18.14	18.71	19.19
	8H	27.23	27.73	27.74	28.22	28.78	17.88	18.38	18.39	18.88	19.44