

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: P894286

Luminaire Tested: 4MB-SC3-RFLW-UNV-CC83-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894286
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-4000K
Description: Selectable 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 4000K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

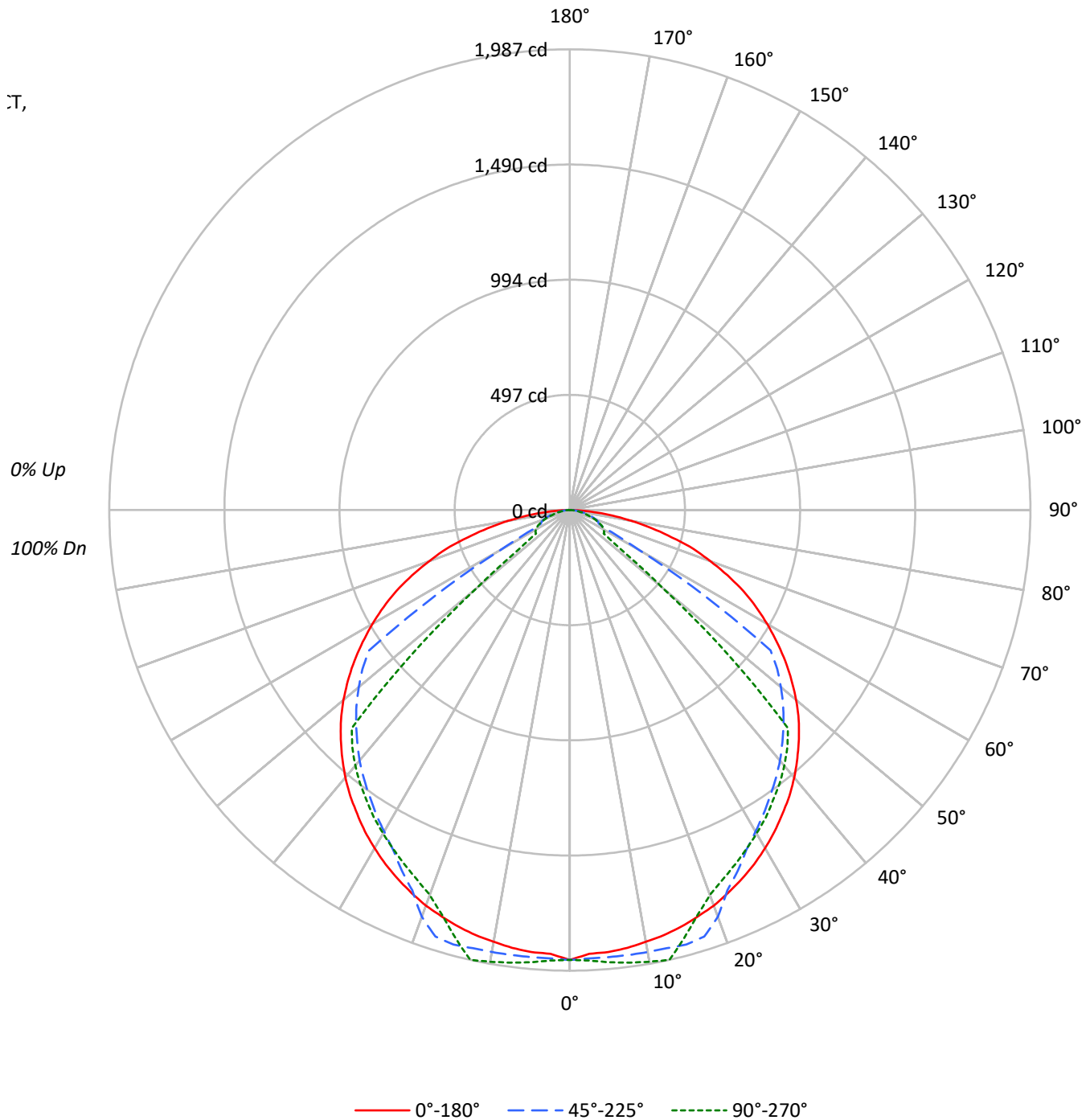
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4732.0 lumens
Efficiency: N/A
Efficacy: 141.3 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				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°	25194	25194	25194
5°	24942	25231	25522
10°	24936	25523	26081
15°	25006	26082	25663
20°	25089	25795	24412
25°	25152	24577	24163
30°	25254	24020	24154
35°	25358	23878	24230
40°	25533	23911	24401
45°	25660	23943	24433
50°	25755	24001	10563
55°	25688	23927	4030
60°	25539	9129	4392
65°	25364	4237	4510
70°	24496	4560	4222
75°	22883	4355	3683
80°	20130	3829	3163
85°	15912	3308	2652

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 25755 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	3.9
10°-20°	538.0	11.4
20°-30°	802.7	17.0
30°-40°	973.0	20.6
40°-50°	996.3	21.1
50°-60°	662.6	14.0
60°-70°	377.6	8.0
70°-80°	158.6	3.4
80°-90°	37.8	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°	1526.0	32.2
0°-40°	2499.0	52.8
0°-60°	4157.9	87.9
0°-90°	4732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4732.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1940	1940	1940	1940	1940	
5°	1914	1951	1936	1940	1958	182
15°	1860	1911	1940	1934	1909	525
25°	1756	1840	1715	1678	1686	810
35°	1600	1629	1506	1513	1528	1002
45°	1397	1313	1304	1319	1330	1078
55°	1135	1039	1057	231	178	1013
65°	826	739	138	147	147	812
75°	456	96	87	76	73	484
85°	107	27	22	18	18	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1940.2	1940.2	1940.2	1940.2	1940.2
2.5°	1915.7	1955.7	1935.7	1937.9	1944.6
5°	1913.5	1951.3	1935.7	1940.2	1958.0
7.5°	1904.6	1944.6	1935.7	1949.1	1969.1
10°	1891.2	1937.9	1935.7	1958.0	1978.0
12.5°	1877.9	1924.6	1935.7	1969.1	1986.9
15°	1860.1	1911.2	1940.2	1933.5	1909.0
17.5°	1837.8	1897.9	1929.0	1833.4	1831.1
20°	1815.6	1880.1	1866.7	1775.5	1766.6
22.5°	1786.6	1862.3	1775.5	1713.2	1724.3
25°	1755.5	1840.0	1715.4	1677.6	1686.5
27.5°	1722.1	1817.8	1650.9	1637.6	1648.7
30°	1684.3	1786.6	1602.0	1597.5	1610.9
32.5°	1644.2	1726.6	1555.2	1557.5	1573.0
35°	1599.7	1628.7	1506.3	1513.0	1528.5
37.5°	1555.2	1537.4	1459.6	1470.7	1486.3
40°	1506.3	1466.2	1410.6	1421.7	1439.5
42.5°	1452.9	1390.6	1357.2	1372.8	1388.4
45°	1397.3	1312.7	1303.8	1319.4	1330.5
47.5°	1339.4	1246.0	1248.2	1259.3	943.4
50°	1274.9	1179.2	1188.1	823.2	522.9
52.5°	1205.9	1110.2	1128.0	458.3	264.8
55°	1134.7	1039.1	1056.9	231.4	178.0
57.5°	1059.1	967.9	689.7	166.9	175.8
60°	983.4	892.2	351.5	164.6	169.1
62.5°	905.6	816.6	166.9	158.0	160.2
65°	825.5	738.7	137.9	146.8	146.8
67.5°	736.5	656.4	131.3	131.3	129.0
70°	645.2	545.1	120.1	113.5	111.2
72.5°	560.7	209.1	104.6	93.4	91.2
75°	456.1	95.7	86.8	75.6	73.4
77.5°	362.7	80.1	69.0	60.1	57.8
80°	269.2	62.3	51.2	44.5	42.3
82.5°	186.9	42.3	35.6	28.9	28.9
85°	106.8	26.7	22.2	17.8	17.8
87.5°	42.3	13.3	11.1	6.7	6.7
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	24.14	25.66	24.50	25.97	26.29	11.90	13.42	12.27	13.74	14.05
	3H	26.16	27.51	26.53	27.84	28.20	14.22	15.58	14.59	15.90	16.26
	4H	26.62	27.89	27.02	28.24	28.62	14.93	16.20	15.33	16.55	16.93
	6H	27.03	28.20	27.44	28.57	28.96	15.41	16.59	15.82	16.95	17.34
	8H	27.17	28.29	27.60	28.68	29.08	15.55	16.67	15.98	17.06	17.46
	12H	27.27	28.34	27.70	28.72	29.15	15.64	16.70	16.07	17.09	17.52
4H	2H	23.98	25.25	24.38	25.60	25.98	12.70	13.97	13.10	14.32	14.70
	3H	26.18	27.23	26.59	27.63	28.03	15.21	16.26	15.62	16.66	17.06
	4H	26.63	27.57	27.06	27.98	28.42	16.03	16.97	16.46	17.39	17.82
	6H	27.09	27.91	27.55	28.35	28.81	16.62	17.44	17.08	17.88	18.34
	8H	27.29	28.05	27.75	28.49	28.96	16.79	17.55	17.26	18.00	18.47
	12H	27.44	28.12	27.92	28.60	29.07	16.91	17.59	17.39	18.07	18.54
8H	4H	26.55	27.31	27.01	27.75	28.22	16.87	17.63	17.33	18.07	18.54
	6H	27.01	27.63	27.50	28.13	28.60	17.49	18.12	17.99	18.61	19.09
	8H	27.21	27.77	27.72	28.28	28.77	17.69	18.26	18.21	18.77	19.26
	12H	27.39	27.89	27.90	28.38	28.95	17.85	18.35	18.36	18.84	19.41
12H	4H	26.52	27.20	27.00	27.67	28.15	16.94	17.62	17.42	18.10	18.57
	6H	26.96	27.53	27.47	28.04	28.52	17.58	18.15	18.10	18.66	19.15
	8H	27.18	27.68	27.69	28.18	28.74	17.84	18.34	18.35	18.83	19.40