

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: P894288

Luminaire Tested: 4MB-SC3-RFLW-UNV-CC93-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894288
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-CC93-HI-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

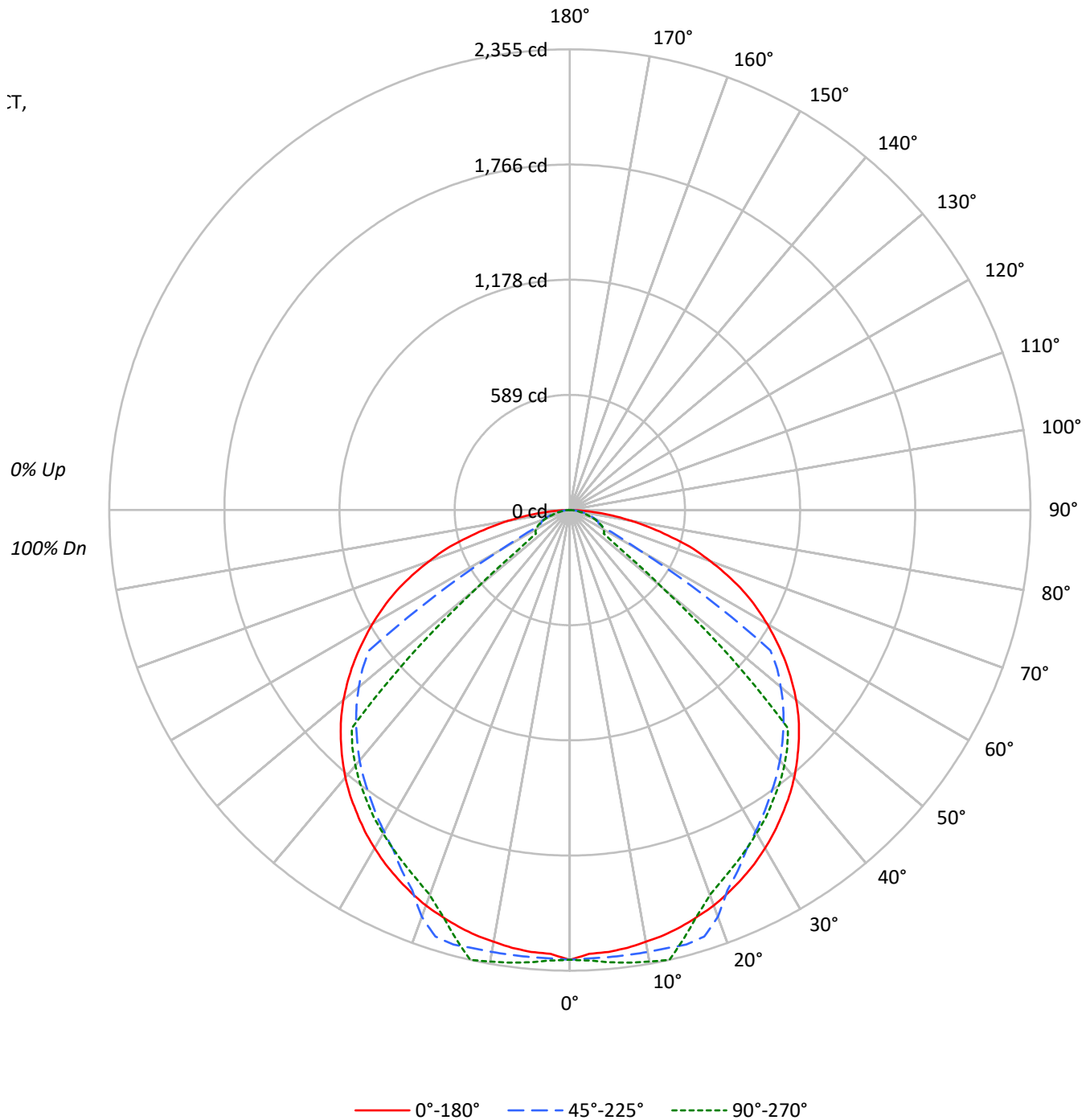
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5608.0 lumens
Efficiency: N/A
Efficacy: 110.6 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): 50.7
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	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°	29857	29857	29857
5°	29559	29902	30246
10°	29552	30247	30908
15°	29634	30910	30414
20°	29733	30571	28930
25°	29808	29128	28636
30°	29929	28466	28625
35°	30054	28297	28716
40°	30259	28338	28918
45°	30408	28376	28956
50°	30522	28445	12519
55°	30445	28355	4775
60°	30268	10819	5204
65°	30059	5024	5346
70°	29032	5406	5004
75°	27122	5158	4365
80°	23862	4532	3746
85°	18862	3933	3144

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 30522 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.6	3.9
10°-20°	637.6	11.4
20°-30°	951.3	17.0
30°-40°	1153.1	20.6
40°-50°	1180.7	21.1
50°-60°	785.2	14.0
60°-70°	447.5	8.0
70°-80°	188.0	3.4
80°-90°	44.8	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°	1808.5	32.2
0°-40°	2961.7	52.8
0°-60°	4927.6	87.9
0°-90°	5608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5608.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2299	2299	2299	2299	2299	
5°	2268	2312	2294	2299	2320	216
15°	2204	2265	2299	2291	2262	623
25°	2080	2181	2033	1988	1999	960
35°	1896	1930	1785	1793	1812	1188
45°	1656	1556	1545	1564	1577	1278
55°	1345	1231	1252	274	211	1201
65°	978	875	164	174	174	963
75°	541	113	103	90	87	574
85°	127	32	26	21	21	152
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2299.3	2299.3	2299.3	2299.3	2299.3
2.5°	2270.3	2317.8	2294.0	2296.7	2304.6
5°	2267.7	2312.5	2294.0	2299.3	2320.4
7.5°	2257.1	2304.6	2294.0	2309.9	2333.6
10°	2241.3	2296.7	2294.0	2320.4	2344.1
12.5°	2225.5	2280.9	2294.0	2333.6	2354.7
15°	2204.4	2265.0	2299.3	2291.4	2262.4
17.5°	2178.0	2249.2	2286.1	2172.8	2170.1
20°	2151.7	2228.1	2212.3	2104.2	2093.6
22.5°	2117.4	2207.0	2104.2	2030.4	2043.5
25°	2080.5	2180.7	2033.0	1988.2	1998.7
27.5°	2040.9	2154.3	1956.5	1940.7	1953.9
30°	1996.1	2117.4	1898.5	1893.2	1909.1
32.5°	1948.6	2046.2	1843.1	1845.8	1864.2
35°	1895.9	1930.2	1785.1	1793.0	1811.5
37.5°	1843.1	1822.1	1729.8	1743.0	1761.4
40°	1785.1	1737.7	1671.8	1684.9	1706.0
42.5°	1721.9	1648.0	1608.5	1626.9	1645.4
45°	1655.9	1555.7	1545.2	1563.6	1576.8
47.5°	1587.4	1476.6	1479.3	1492.5	1118.0
50°	1510.9	1397.5	1408.1	975.6	619.7
52.5°	1429.2	1315.8	1336.9	543.2	313.8
55°	1344.8	1231.4	1252.5	274.2	210.9
57.5°	1255.1	1147.0	817.4	197.8	208.3
60°	1165.5	1057.4	416.6	195.1	200.4
62.5°	1073.2	967.7	197.8	187.2	189.9
65°	978.3	875.4	163.5	174.0	174.0
67.5°	872.8	777.9	155.6	155.6	152.9
70°	764.7	646.0	142.4	134.5	131.8
72.5°	664.5	247.9	123.9	110.7	108.1
75°	540.6	113.4	102.8	89.7	87.0
77.5°	429.8	94.9	81.7	71.2	68.6
80°	319.1	73.8	60.6	52.7	50.1
82.5°	221.5	50.1	42.2	34.3	34.3
85°	126.6	31.6	26.4	21.1	21.1
87.5°	50.1	15.8	13.2	7.9	7.9
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	24.73	26.25	25.09	26.56	26.88	12.49	14.01	12.86	14.33	14.64
	3H	26.75	28.10	27.12	28.43	28.79	14.81	16.17	15.18	16.49	16.86
	4H	27.21	28.48	27.61	28.83	29.21	15.52	16.79	15.92	17.14	17.52
	6H	27.62	28.79	28.03	29.16	29.55	16.00	17.18	16.42	17.54	17.94
	8H	27.76	28.88	28.19	29.27	29.67	16.14	17.26	16.57	17.65	18.05
	12H	27.86	28.93	28.29	29.31	29.74	16.23	17.30	16.66	17.68	18.11
4H	2H	24.57	25.84	24.97	26.19	26.57	13.29	14.56	13.69	14.91	15.29
	3H	26.77	27.82	27.18	28.22	28.62	15.80	16.85	16.21	17.25	17.65
	4H	27.22	28.16	27.65	28.57	29.01	16.62	17.56	17.05	17.98	18.42
	6H	27.68	28.50	28.14	28.94	29.40	17.21	18.03	17.67	18.47	18.93
	8H	27.88	28.64	28.34	29.08	29.55	17.38	18.14	17.85	18.59	19.06
	12H	28.03	28.71	28.51	29.19	29.66	17.50	18.18	17.98	18.66	19.13
8H	4H	27.14	27.90	27.60	28.34	28.81	17.46	18.22	17.92	18.67	19.13
	6H	27.60	28.22	28.09	28.72	29.19	18.08	18.71	18.58	19.20	19.68
	8H	27.80	28.36	28.31	28.87	29.36	18.28	18.85	18.80	19.36	19.85
	12H	27.98	28.48	28.49	28.97	29.54	18.44	18.94	18.95	19.43	20.00
12H	4H	27.11	27.79	27.59	28.26	28.74	17.53	18.21	18.01	18.69	19.16
	6H	27.55	28.12	28.06	28.63	29.11	18.17	18.74	18.69	19.25	19.74
	8H	27.77	28.27	28.28	28.77	29.33	18.43	18.93	18.94	19.42	19.99