

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: P894290

Luminaire Tested: 4MB-SC3-RFLW-UNV-CC93-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894290
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-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 5000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

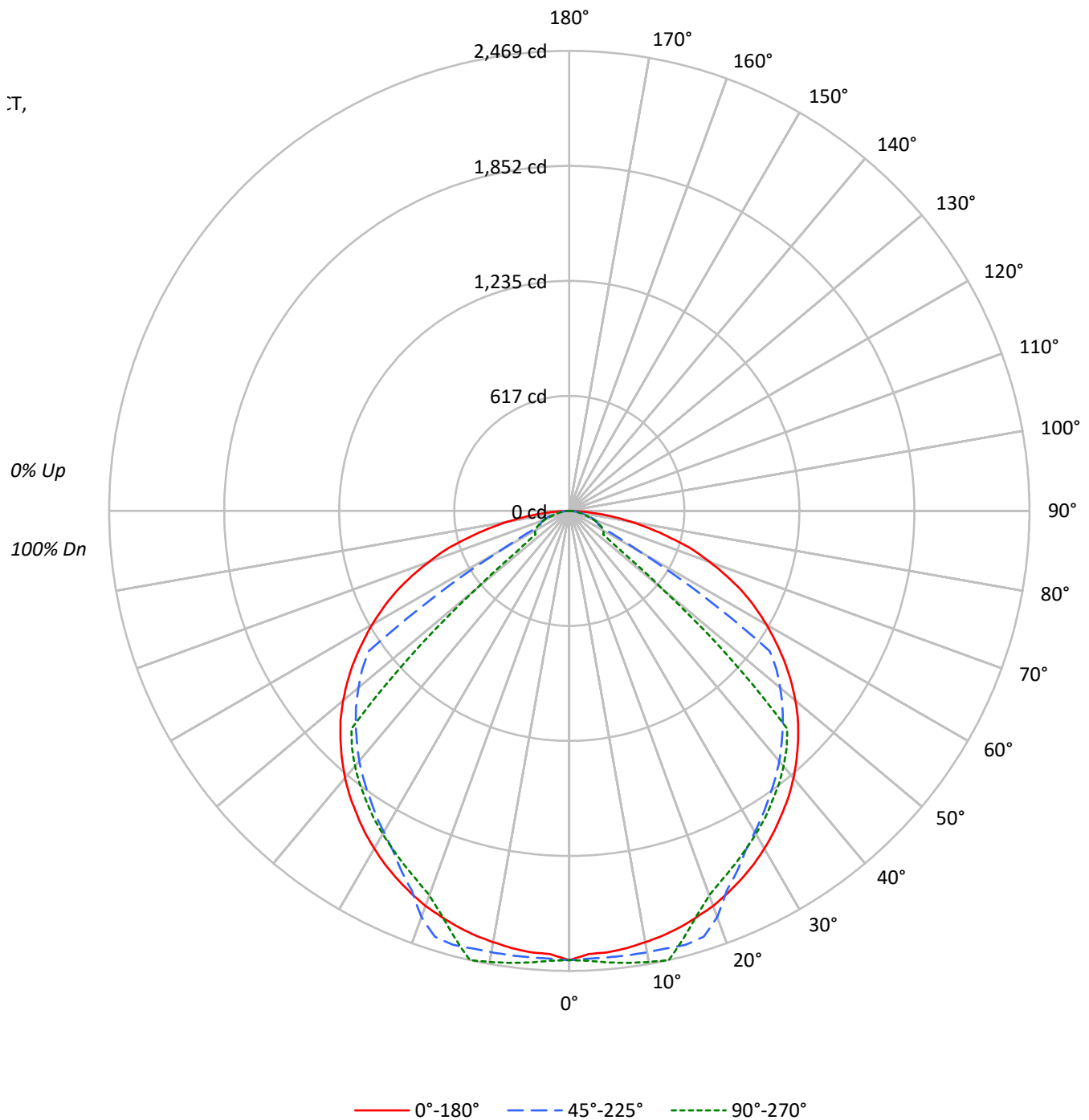
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5880.0 lumens
Efficiency: N/A
Efficacy: 116.0 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): 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

TEST NUMBER: P894290
CATALOG NUMBER: 4MB-SC3-RFLW-UNV-CC93-HI-5000K

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°	31304	31304	31304
5°	30993	31352	31713
10°	30986	31715	32407
15°	31071	32409	31888
20°	31174	32053	30334
25°	31254	30540	30026
30°	31381	29847	30013
35°	31510	29670	30109
40°	31727	29711	30322
45°	31885	29751	30361
50°	32003	29825	13125
55°	31921	29729	5008
60°	31736	11344	5456
65°	31515	5266	5607
70°	30441	5668	5247
75°	28437	5408	4576
80°	25013	4756	3926
85°	19771	4112	3293

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 32003 cd/sqm



TEST NUMBER: P894290

CATALOG NUMBER: 4MB-SC3-RFLW-UNV-CC93-HI-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.2	3.9
10°-20°	668.5	11.4
20°-30°	997.5	17.0
30°-40°	1209.1	20.6
40°-50°	1238.0	21.1
50°-60°	823.3	14.0
60°-70°	469.3	8.0
70°-80°	197.1	3.4
80°-90°	47.0	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°	1896.2	32.2
0°-40°	3105.3	52.8
0°-60°	5166.6	87.9
0°-90°	5880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2411	2411	2411	2411	2411	
5°	2378	2425	2405	2411	2433	226
15°	2311	2375	2411	2403	2372	653
25°	2181	2286	2132	2085	2096	1006
35°	1988	2024	1872	1880	1899	1245
45°	1736	1631	1620	1640	1653	1339
55°	1410	1291	1313	288	221	1259
65°	1026	918	171	182	182	1009
75°	567	119	108	94	91	602
85°	133	33	28	22	22	159
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2410.8	2410.8	2410.8	2410.8	2410.8
2.5°	2380.4	2430.2	2405.3	2408.1	2416.4
5°	2377.7	2424.7	2405.3	2410.8	2433.0
7.5°	2366.6	2416.4	2405.3	2421.9	2446.8
10°	2350.0	2408.1	2405.3	2433.0	2457.8
12.5°	2333.4	2391.5	2405.3	2446.8	2468.9
15°	2311.3	2374.9	2410.8	2402.6	2372.1
17.5°	2283.7	2358.3	2397.0	2278.1	2275.4
20°	2256.0	2336.2	2319.6	2206.3	2195.2
22.5°	2220.1	2314.1	2206.3	2128.8	2142.7
25°	2181.4	2286.4	2131.6	2084.6	2095.7
27.5°	2139.9	2258.8	2051.4	2034.8	2048.7
30°	2092.9	2220.1	1990.6	1985.1	2001.7
32.5°	2043.1	2145.4	1932.5	1935.3	1954.7
35°	1987.8	2023.8	1871.7	1880.0	1899.4
37.5°	1932.5	1910.4	1813.7	1827.5	1846.8
40°	1871.7	1822.0	1752.8	1766.7	1788.8
42.5°	1805.4	1728.0	1686.5	1705.8	1725.2
45°	1736.3	1631.2	1620.1	1639.5	1653.3
47.5°	1664.4	1548.2	1551.0	1564.8	1172.2
50°	1584.2	1465.3	1476.4	1023.0	649.7
52.5°	1498.5	1379.6	1401.7	569.5	329.0
55°	1410.0	1291.1	1313.2	287.5	221.2
57.5°	1316.0	1202.7	857.1	207.4	218.4
60°	1222.0	1108.7	436.8	204.6	210.1
62.5°	1125.2	1014.7	207.4	196.3	199.1
65°	1025.7	917.9	171.4	182.5	182.5
67.5°	915.1	815.6	163.1	163.1	160.4
70°	801.8	677.4	149.3	141.0	138.2
72.5°	696.7	259.9	129.9	116.1	113.4
75°	566.8	118.9	107.8	94.0	91.2
77.5°	450.7	99.5	85.7	74.6	71.9
80°	334.5	77.4	63.6	55.3	52.5
82.5°	232.2	52.5	44.2	35.9	35.9
85°	132.7	33.2	27.6	22.1	22.1
87.5°	52.5	16.6	13.8	8.3	8.3
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	24.89	26.41	25.26	26.73	27.04	12.66	14.18	13.02	14.49	14.81
	3H	26.91	28.27	27.29	28.60	28.96	14.97	16.33	15.35	16.66	17.02
	4H	27.37	28.64	27.77	28.99	29.37	15.68	16.96	16.08	17.30	17.68
	6H	27.78	28.95	28.19	29.32	29.71	16.17	17.34	16.58	17.71	18.10
	8H	27.93	29.04	28.36	29.43	29.84	16.31	17.42	16.73	17.81	18.21
	12H	28.03	29.09	28.46	29.48	29.91	16.39	17.46	16.82	17.84	18.27
4H	2H	24.73	26.00	25.13	26.35	26.73	13.46	14.73	13.86	15.08	15.45
	3H	26.94	27.98	27.35	28.38	28.78	15.97	17.01	16.38	17.41	17.81
	4H	27.38	28.32	27.82	28.74	29.18	16.79	17.72	17.22	18.14	18.58
	6H	27.85	28.66	28.31	29.11	29.57	17.38	18.19	17.84	18.64	19.10
	8H	28.04	28.80	28.50	29.25	29.71	17.55	18.31	18.01	18.75	19.22
	12H	28.19	28.87	28.67	29.35	29.82	17.66	18.34	18.15	18.82	19.29
8H	4H	27.30	28.06	27.77	28.51	28.97	17.62	18.39	18.09	18.83	19.30
	6H	27.76	28.39	28.26	28.88	29.36	18.25	18.88	18.74	19.37	19.84
	8H	27.96	28.53	28.48	29.04	29.52	18.45	19.01	18.96	19.52	20.01
	12H	28.15	28.65	28.66	29.14	29.70	18.60	19.10	19.11	19.60	20.16
12H	4H	27.27	27.95	27.75	28.43	28.90	17.70	18.37	18.18	18.85	19.32
	6H	27.71	28.28	28.23	28.79	29.28	18.34	18.91	18.85	19.42	19.90
	8H	27.94	28.44	28.45	28.93	29.50	18.59	19.09	19.10	19.59	20.15