

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: P894281

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894281
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-HI-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 5000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

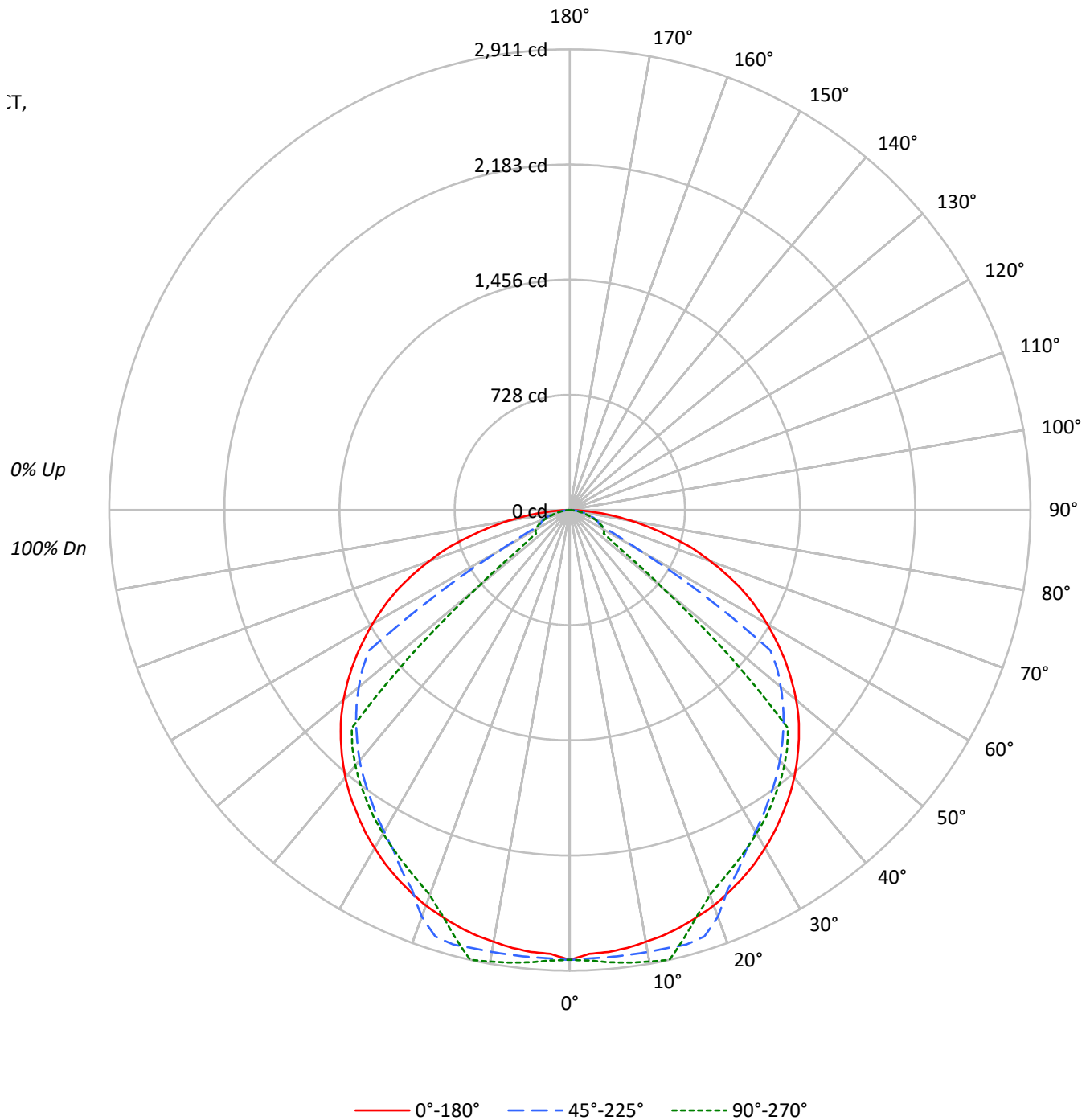
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6932.0 lumens
Efficiency: N/A
Efficacy: 136.7 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: P894281
CATALOG NUMBER: 4MB-SC3-RFLW-UNV-CC83-HI-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P894281

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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°	36906	36906	36906
5°	36538	36962	37386
10°	36530	37390	38206
15°	36630	38208	37594
20°	36751	37788	35761
25°	36844	36005	35397
30°	36994	35186	35383
35°	37149	34979	35495
40°	37404	35027	35746
45°	37589	35075	35793
50°	37728	35160	15474
55°	37632	35049	5902
60°	37413	13375	6433
65°	37153	6210	6609
70°	35885	6682	6188
75°	33524	6377	5398
80°	29492	5608	4629
85°	23302	4857	3889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 37728 cd/sqm



TEST NUMBER: P894281

CATALOG NUMBER: 4MB-SC3-RFLW-UNV-CC83-HI-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.4	3.9
10°-20°	788.1	11.4
20°-30°	1176.0	17.0
30°-40°	1425.4	20.6
40°-50°	1459.5	21.1
50°-60°	970.6	14.0
60°-70°	553.2	8.0
70°-80°	232.4	3.4
80°-90°	55.4	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°	2235.5	32.2
0°-40°	3660.9	52.8
0°-60°	6091.0	87.9
0°-90°	6932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6932.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2842	2842	2842	2842	2842	
5°	2803	2858	2836	2842	2868	267
15°	2725	2800	2842	2832	2796	770
25°	2572	2696	2513	2458	2471	1186
35°	2344	2386	2207	2216	2239	1468
45°	2047	1923	1910	1933	1949	1579
55°	1662	1522	1548	339	261	1484
65°	1209	1082	202	215	215	1190
75°	668	140	127	111	108	709
85°	156	39	33	26	26	187
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2842.2	2842.2	2842.2	2842.2	2842.2
2.5°	2806.3	2865.0	2835.7	2838.9	2848.7
5°	2803.1	2858.5	2835.7	2842.2	2868.2
7.5°	2790.0	2848.7	2835.7	2855.2	2884.5
10°	2770.5	2838.9	2835.7	2868.2	2897.6
12.5°	2750.9	2819.4	2835.7	2884.5	2910.6
15°	2724.8	2799.8	2842.2	2832.4	2796.5
17.5°	2692.2	2780.2	2825.9	2685.7	2682.5
20°	2659.6	2754.2	2734.6	2601.0	2587.9
22.5°	2617.3	2728.1	2601.0	2509.7	2526.0
25°	2571.6	2695.5	2513.0	2457.6	2470.6
27.5°	2522.8	2662.9	2418.5	2398.9	2415.2
30°	2467.3	2617.3	2346.7	2340.2	2359.8
32.5°	2408.7	2529.3	2278.3	2281.6	2304.4
35°	2343.5	2385.9	2206.6	2216.4	2239.2
37.5°	2278.3	2252.2	2138.1	2154.4	2177.3
40°	2206.6	2147.9	2066.4	2082.7	2108.8
42.5°	2128.4	2037.1	1988.2	2011.0	2033.8
45°	2046.9	1923.0	1910.0	1932.8	1949.1
47.5°	1962.1	1825.2	1828.5	1844.8	1382.0
50°	1867.6	1727.5	1740.5	1206.0	766.0
52.5°	1766.6	1626.4	1652.5	671.4	387.9
55°	1662.3	1522.1	1548.2	339.0	260.7
57.5°	1551.5	1417.8	1010.4	244.5	257.5
60°	1440.6	1307.0	515.0	241.2	247.7
62.5°	1326.6	1196.2	244.5	231.4	234.7
65°	1209.2	1082.1	202.1	215.1	215.1
67.5°	1078.9	961.5	192.3	192.3	189.0
70°	945.2	798.5	176.0	166.2	163.0
72.5°	821.4	306.4	153.2	136.9	133.6
75°	668.2	140.2	127.1	110.8	107.6
77.5°	531.3	117.3	101.0	88.0	84.7
80°	394.4	91.3	75.0	65.2	61.9
82.5°	273.8	61.9	52.1	42.4	42.4
85°	156.4	39.1	32.6	26.1	26.1
87.5°	61.9	19.6	16.3	9.8	9.8
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	25.46	26.98	25.83	27.30	27.61	13.23	14.75	13.59	15.06	15.38
	3H	27.48	28.84	27.86	29.17	29.53	15.54	16.90	15.92	17.23	17.59
	4H	27.95	29.22	28.34	29.57	29.94	16.26	17.53	16.66	17.88	18.26
	6H	28.35	29.52	28.76	29.89	30.28	16.74	17.91	17.15	18.28	18.67
	8H	28.50	29.62	28.93	30.01	30.41	16.88	17.99	17.30	18.38	18.78
	12H	28.60	29.67	29.03	30.05	30.48	16.96	18.03	17.39	18.41	18.84
4H	2H	25.30	26.58	25.70	26.92	27.30	14.03	15.30	14.43	15.65	16.03
	3H	27.51	28.55	27.92	28.95	29.36	16.54	17.58	16.95	17.98	18.39
	4H	27.95	28.89	28.39	29.31	29.75	17.36	18.30	17.79	18.71	19.15
	6H	28.42	29.24	28.88	29.68	30.14	17.95	18.76	18.41	19.21	19.67
	8H	28.61	29.37	29.08	29.82	30.29	18.12	18.88	18.58	19.32	19.79
	12H	28.76	29.44	29.25	29.92	30.39	18.24	18.92	18.72	19.40	19.87
8H	4H	27.87	28.63	28.34	29.08	29.55	18.20	18.96	18.66	19.40	19.87
	6H	28.33	28.96	28.83	29.45	29.93	18.82	19.45	19.32	19.94	20.42
	8H	28.53	29.10	29.05	29.61	30.10	19.02	19.58	19.53	20.09	20.58
	12H	28.72	29.22	29.23	29.71	30.28	19.18	19.68	19.69	20.17	20.74
12H	4H	27.84	28.52	28.33	29.00	29.47	18.27	18.95	18.75	19.43	19.90
	6H	28.29	28.85	28.80	29.36	29.85	18.91	19.48	19.43	19.99	20.48
	8H	28.51	29.01	29.02	29.50	30.07	19.16	19.67	19.68	20.16	20.72