

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: P895460

Luminaire Tested: 8TMB-SC3-LVRF-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-LVRF-UNV-CC83-LOW-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3500K CCT
lumen setting
Light Source: -
Ballast/Driver: -

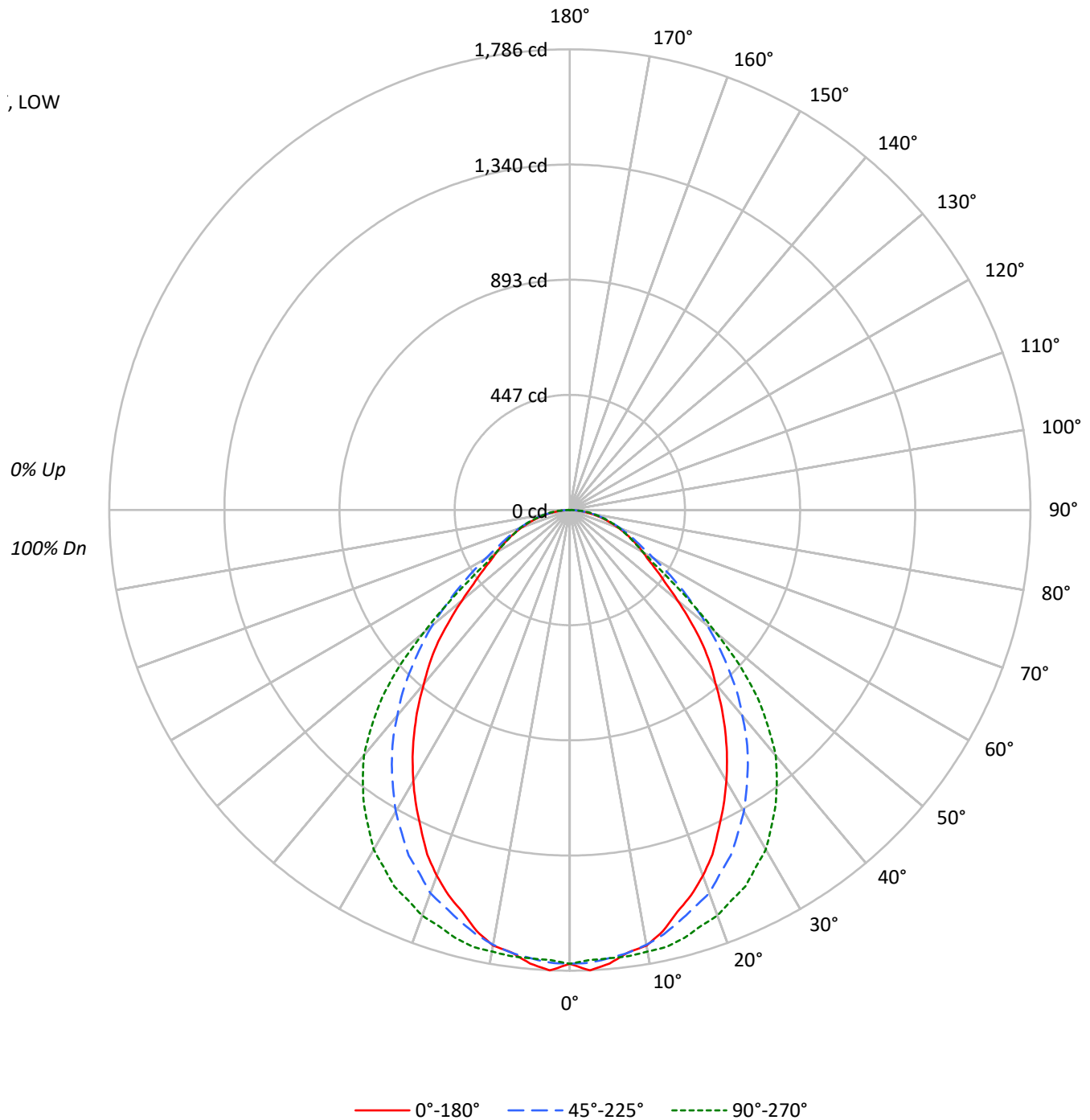
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3656.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 7.98' 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: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
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	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6242	6242	6242
5°	6285	6213	6213
10°	6176	6166	6262
15°	5921	6058	6307
20°	5696	5968	6317
25°	5343	5784	6303
30°	4973	5528	6229
35°	4553	5214	6031
40°	4076	4822	5754
45°	3617	4365	5173
50°	3009	3842	4080
55°	2563	3237	2965
60°	2324	2675	2343
65°	2189	2342	2181
70°	2059	2173	2126
75°	1919	2069	2032
80°	1757	1906	1964
85°	1527	1677	2198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5173 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	4.6
10°-20°	468.6	12.8
20°-30°	680.6	18.6
30°-40°	757.8	20.7
40°-50°	669.5	18.3
50°-60°	439.3	12.0
60°-70°	269.0	7.4
70°-80°	156.6	4.3
80°-90°	48.0	1.3
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°	1315.8	36.0
0°-40°	2073.6	56.7
0°-60°	3182.5	87.0
0°-90°	3656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3656.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1759	1759	1759	1759	1759	
5°	1765	1766	1744	1762	1744	166
15°	1612	1630	1649	1714	1717	455
25°	1365	1398	1477	1572	1610	628
35°	1051	1108	1204	1331	1392	656
45°	721	765	870	987	1031	551
55°	414	444	523	519	479	376
65°	261	265	279	271	260	259
75°	140	142	151	154	148	148
85°	38	39	41	47	54	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1759.1	1759.1	1759.1	1759.1	1759.1
2.5°	1786.5	1764.6	1756.4	1764.6	1746.3
5°	1764.6	1765.5	1744.5	1761.8	1744.5
7.5°	1729.8	1741.7	1731.7	1758.2	1744.5
10°	1714.3	1715.2	1711.5	1739.0	1738.1
12.5°	1671.3	1674.0	1684.1	1725.3	1734.4
15°	1611.8	1630.1	1649.3	1714.3	1717.0
17.5°	1565.2	1587.1	1612.7	1682.3	1690.5
20°	1508.5	1517.6	1580.7	1642.0	1673.1
22.5°	1445.3	1462.7	1524.0	1606.3	1637.4
25°	1364.8	1397.8	1477.4	1571.6	1610.0
27.5°	1290.7	1329.2	1411.5	1516.7	1561.5
30°	1213.9	1257.8	1349.3	1452.7	1520.3
32.5°	1134.3	1189.2	1276.1	1395.0	1454.5
35°	1051.1	1107.8	1203.8	1331.0	1392.3
37.5°	967.8	1022.7	1127.0	1263.3	1318.2
40°	880.0	934.0	1041.0	1179.1	1242.3
42.5°	804.1	850.7	960.5	1078.5	1137.1
45°	720.8	764.7	869.9	987.0	1030.9
47.5°	629.4	680.6	783.0	879.1	896.5
50°	545.2	598.3	696.1	751.9	739.1
52.5°	471.1	515.9	605.6	629.4	599.2
55°	414.4	443.7	523.2	518.7	479.3
57.5°	362.2	380.5	448.2	422.6	385.1
60°	327.5	335.7	376.9	353.1	330.2
62.5°	294.6	298.2	320.2	307.4	290.0
65°	260.7	265.3	279.0	270.8	259.8
67.5°	229.6	231.4	244.2	242.4	228.7
70°	198.5	201.2	209.5	213.1	204.9
72.5°	168.3	171.1	179.3	183.0	175.6
75°	140.0	141.8	150.9	153.7	148.2
77.5°	112.5	116.2	121.7	126.2	119.8
80°	86.0	87.8	93.3	98.8	96.1
82.5°	60.4	63.1	66.8	74.1	75.9
85°	37.5	39.3	41.2	46.7	54.0
87.5°	14.6	15.6	18.3	20.1	26.5
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	13.89	15.37	14.26	15.69	16.00	14.54	16.02	14.91	16.34	16.65
	3H	15.49	16.82	15.87	17.15	17.51	15.98	17.31	16.36	17.63	18.00
	4H	16.11	17.35	16.51	17.70	18.08	16.58	17.83	16.98	18.18	18.56
	6H	16.58	17.73	16.99	18.09	18.49	17.07	18.22	17.48	18.59	18.98
	8H	16.73	17.82	17.16	18.21	18.62	17.27	18.36	17.70	18.75	19.15
	12H	16.83	17.88	17.26	18.26	18.69	17.44	18.48	17.87	18.86	19.29
4H	2H	14.51	15.76	14.91	16.10	16.48	15.04	16.28	15.44	16.63	17.01
	3H	16.33	17.36	16.74	17.76	18.16	16.73	17.76	17.15	18.16	18.57
	4H	17.07	18.00	17.51	18.41	18.85	17.49	18.41	17.92	18.83	19.27
	6H	17.67	18.47	18.13	18.92	19.38	18.12	18.93	18.58	19.37	19.83
	8H	17.87	18.62	18.33	19.06	19.53	18.38	19.13	18.84	19.58	20.04
	12H	18.01	18.68	18.49	19.16	19.63	18.60	19.27	19.09	19.75	20.23
8H	4H	17.39	18.14	17.86	18.59	19.06	17.76	18.51	18.22	18.96	19.42
	6H	18.11	18.74	18.61	19.23	19.71	18.53	19.16	19.03	19.65	20.13
	8H	18.39	18.95	18.90	19.46	19.95	18.88	19.44	19.39	19.95	20.44
	12H	18.61	19.10	19.12	19.60	20.16	19.20	19.69	19.71	20.19	20.75
12H	4H	17.43	18.10	17.91	18.58	19.05	17.78	18.45	18.26	18.93	19.40
	6H	18.18	18.74	18.69	19.25	19.74	18.58	19.14	19.09	19.65	20.14
	8H	18.51	19.01	19.02	19.50	20.07	18.98	19.48	19.49	19.97	20.54