

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: P895461

Luminaire Tested: 8TMB-SC3-LVRF-UNV-CC83-LOW-4000K

Issue Date: 11/11/2024

**Test Information**

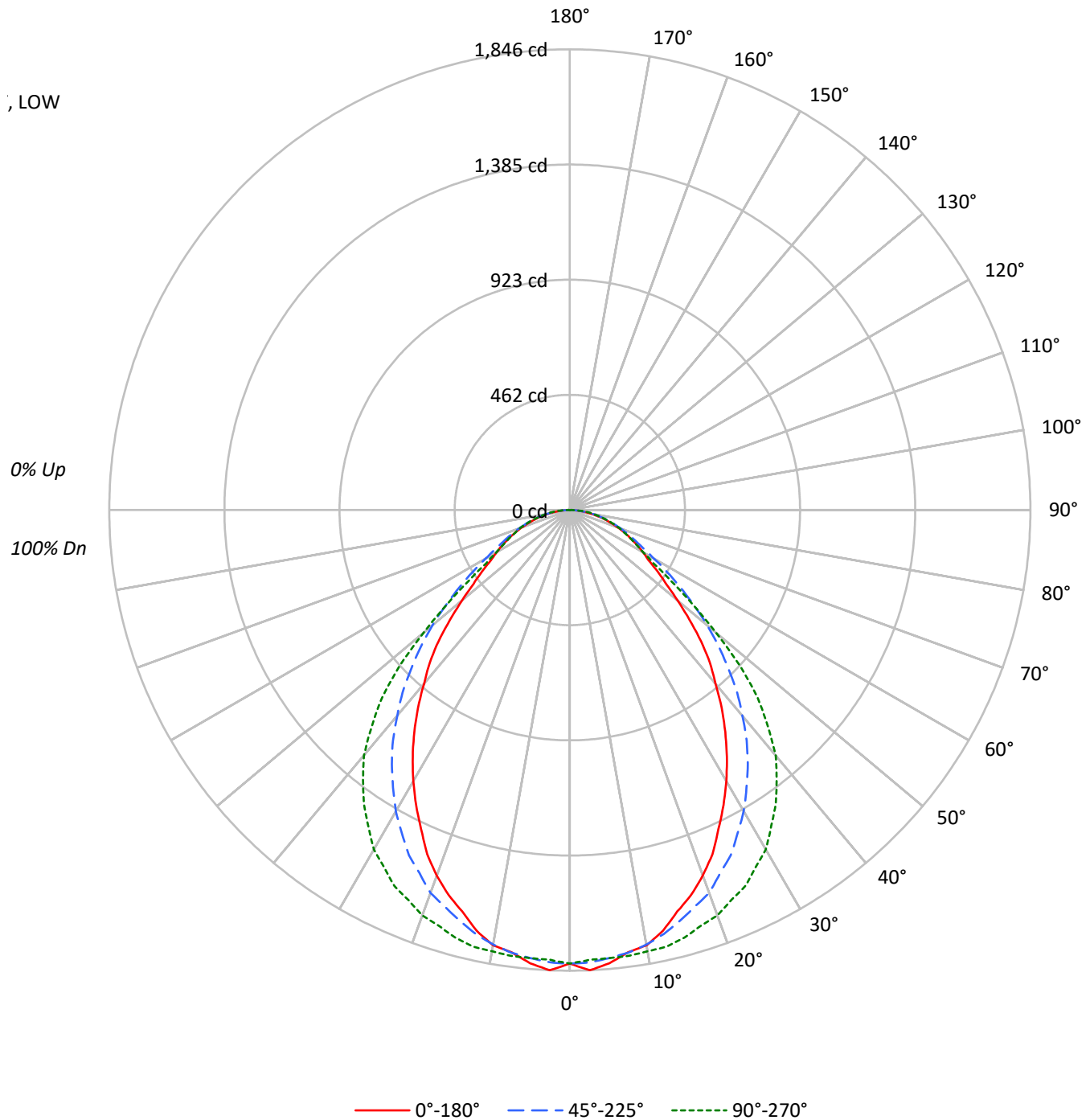
Test Method: LM-79-2019  
Report Number: P895461  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-LVRF-UNV-CC83-LOW-4000K  
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 4000K CCT  
lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3777.0 lumens  
Efficiency: N/A  
Efficacy: 112.7 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				
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°	6448	6448	6448
5°	6493	6419	6419
10°	6381	6371	6469
15°	6117	6259	6516
20°	5884	6166	6527
25°	5520	5975	6512
30°	5138	5711	6435
35°	4704	5387	6230
40°	4211	4981	5944
45°	3737	4510	5344
50°	3109	3970	4215
55°	2648	3344	3063
60°	2401	2763	2421
65°	2261	2420	2253
70°	2128	2245	2196
75°	1982	2137	2099
80°	1814	1970	2027
85°	1575	1730	2272

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5344 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.1	4.6
10°-20°	484.2	12.8
20°-30°	703.1	18.6
30°-40°	782.9	20.7
40°-50°	691.7	18.3
50°-60°	453.9	12.0
60°-70°	277.9	7.4
70°-80°	161.7	4.3
80°-90°	49.5	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°	1359.3	36.0
0°-40°	2142.2	56.7
0°-60°	3287.8	87.0
0°-90°	3777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3777.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1817	1817	1817	1817	1817	
5°	1823	1824	1802	1820	1802	172
15°	1665	1684	1704	1771	1774	470
25°	1410	1444	1526	1624	1663	649
35°	1086	1144	1244	1375	1438	677
45°	745	790	899	1020	1065	570
55°	428	458	541	536	495	388
65°	269	274	288	280	268	268
75°	145	146	156	159	153	153
85°	39	41	42	48	56	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1817.3	1817.3	1817.3	1817.3	1817.3
2.5°	1845.7	1823.0	1814.5	1823.0	1804.1
5°	1823.0	1823.9	1802.2	1820.2	1802.2
7.5°	1787.1	1799.4	1789.0	1816.4	1802.2
10°	1771.0	1772.0	1768.2	1796.5	1795.6
12.5°	1726.6	1729.4	1739.8	1782.4	1791.8
15°	1665.2	1684.1	1703.9	1771.0	1773.8
17.5°	1617.0	1639.7	1666.1	1737.9	1746.4
20°	1558.4	1567.8	1633.0	1696.4	1728.5
22.5°	1493.2	1511.1	1574.4	1659.5	1691.6
25°	1410.0	1444.0	1526.2	1623.6	1663.3
27.5°	1333.5	1373.1	1458.2	1566.9	1613.2
30°	1254.1	1299.4	1393.9	1500.7	1570.7
32.5°	1171.9	1228.6	1318.3	1441.2	1502.6
35°	1085.9	1144.4	1243.7	1375.0	1438.4
37.5°	999.9	1056.6	1164.3	1305.1	1361.8
40°	909.1	964.9	1075.5	1218.2	1283.4
42.5°	830.7	878.9	992.3	1114.2	1174.7
45°	744.7	790.1	898.7	1019.7	1065.1
47.5°	650.2	703.1	809.0	908.2	926.1
50°	563.2	618.1	719.2	776.8	763.6
52.5°	486.7	533.0	625.6	650.2	619.0
55°	428.1	458.3	540.6	535.8	495.2
57.5°	374.2	393.1	463.1	436.6	397.9
60°	338.3	346.8	389.4	364.8	341.2
62.5°	304.3	308.1	330.8	317.5	299.6
65°	269.3	274.1	288.2	279.7	268.4
67.5°	237.2	239.1	252.3	250.4	236.3
70°	205.1	207.9	216.4	220.2	211.7
72.5°	173.9	176.7	185.2	189.0	181.4
75°	144.6	146.5	155.9	158.8	153.1
77.5°	116.2	120.0	125.7	130.4	123.8
80°	88.8	90.7	96.4	102.1	99.2
82.5°	62.4	65.2	69.0	76.5	78.4
85°	38.7	40.6	42.5	48.2	55.8
87.5°	15.1	16.1	18.9	20.8	27.4
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	14.00	15.49	14.37	15.80	16.11	14.66	16.14	15.02	16.45	16.77
	3H	15.61	16.93	15.98	17.26	17.62	16.09	17.42	16.47	17.75	18.11
	4H	16.22	17.46	16.62	17.81	18.19	16.70	17.94	17.10	18.29	18.67
	6H	16.69	17.84	17.11	18.21	18.60	17.18	18.33	17.60	18.70	19.09
	8H	16.85	17.94	17.27	18.33	18.73	17.38	18.47	17.81	18.86	19.26
	12H	16.95	17.99	17.38	18.37	18.80	17.55	18.59	17.98	18.98	19.41
4H	2H	14.63	15.87	15.03	16.22	16.60	15.15	16.39	15.55	16.74	17.12
	3H	16.45	17.48	16.86	17.88	18.28	16.85	17.88	17.26	18.28	18.68
	4H	17.19	18.11	17.62	18.53	18.97	17.60	18.53	18.03	18.94	19.38
	6H	17.78	18.59	18.24	19.03	19.49	18.24	19.04	18.70	19.48	19.95
	8H	17.98	18.73	18.44	19.18	19.65	18.49	19.24	18.96	19.69	20.16
	12H	18.12	18.79	18.60	19.27	19.74	18.72	19.39	19.20	19.87	20.34
8H	4H	17.50	18.26	17.97	18.70	19.17	17.87	18.62	18.34	19.07	19.54
	6H	18.23	18.85	18.73	19.34	19.82	18.65	19.27	19.14	19.76	20.24
	8H	18.50	19.06	19.02	19.57	20.06	18.99	19.55	19.51	20.06	20.55
	12H	18.72	19.22	19.23	19.71	20.27	19.31	19.81	19.82	20.30	20.86
12H	4H	17.54	18.21	18.02	18.69	19.16	17.89	18.56	18.37	19.04	19.51
	6H	18.29	18.85	18.81	19.36	19.85	18.69	19.25	19.21	19.76	20.25
	8H	18.63	19.12	19.14	19.61	20.18	19.10	19.59	19.61	20.09	20.65