

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: P895434

Luminaire Tested: 8TMB-SC3-LVR-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

**Test Information**

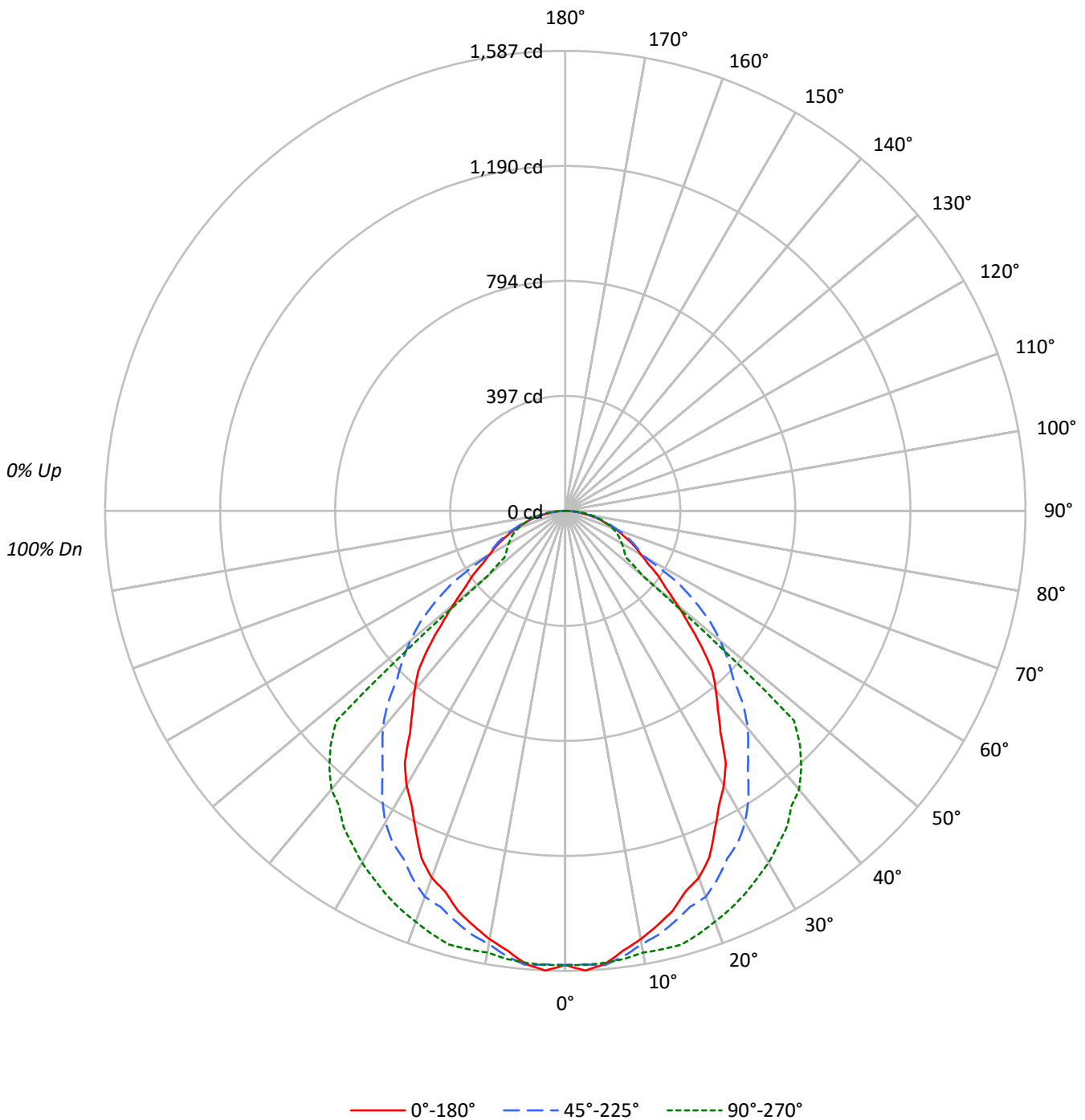
Test Method: LM-79-2019  
Report Number: P895434  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-LVR-UNV-CC93-LOW-4000K  
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT, LOW lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3342.9 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27  
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	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	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	57	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	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5558	5558	5558
5°	5588	5602	5574
10°	5405	5468	5575
15°	5249	5381	5690
20°	5084	5350	5694
25°	4770	5178	5719
30°	4481	5084	5743
35°	4041	4755	5770
40°	3743	4536	5811
45°	3348	4111	5745
50°	2778	3851	1930
55°	2420	3380	1544
60°	2140	2203	1601
65°	2035	2143	1699
70°	1909	2025	1793
75°	1777	1908	1842
80°	1618	1798	1929
85°	1433	1531	2084

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5745 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.6	4.4
10°-20°	418.0	12.5
20°-30°	614.9	18.4
30°-40°	703.2	21.0
40°-50°	665.9	19.9
50°-60°	366.8	11.0
60°-70°	235.5	7.0
70°-80°	145.4	4.3
80°-90°	44.7	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°	1181.5	35.3
0°-40°	1884.6	56.4
0°-60°	2917.3	87.3
0°-90°	3342.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3342.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1566	1566	1566	1566	1566	
5°	1569	1582	1573	1573	1565	147
15°	1429	1446	1465	1542	1549	401
25°	1218	1273	1322	1409	1461	561
35°	933	1013	1098	1257	1332	590
45°	667	730	819	1051	1145	510
55°	391	410	546	282	250	350
65°	242	250	255	227	202	240
75°	130	132	139	146	134	138
85°	35	35	38	43	51	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1566.5	1566.5	1566.5	1566.5	1566.5
2.5°	1587.3	1591.3	1565.7	1564.9	1567.3
5°	1568.9	1581.7	1572.9	1572.9	1564.9
7.5°	1529.7	1551.3	1548.9	1567.3	1558.5
10°	1500.1	1517.7	1517.7	1565.7	1547.3
12.5°	1464.9	1484.9	1496.1	1546.5	1548.9
15°	1428.9	1446.5	1464.9	1541.7	1548.9
17.5°	1376.9	1408.9	1432.1	1507.3	1530.5
20°	1346.5	1365.7	1416.9	1477.7	1508.1
22.5°	1296.1	1324.1	1373.7	1441.7	1486.5
25°	1218.5	1272.9	1322.5	1408.9	1460.9
27.5°	1146.5	1187.3	1289.7	1380.9	1430.5
30°	1093.7	1125.7	1240.9	1340.1	1401.7
32.5°	1029.7	1081.7	1175.3	1300.1	1365.7
35°	932.9	1012.9	1097.7	1256.9	1332.1
37.5°	864.9	920.1	1035.3	1212.1	1281.7
40°	808.1	858.5	979.3	1156.1	1254.5
42.5°	751.3	792.1	908.9	1114.5	1204.1
45°	667.3	730.5	819.3	1051.3	1144.9
47.5°	579.3	646.5	760.9	997.7	1069.7
50°	503.2	556.8	697.7	891.3	349.6
52.5°	436.8	486.4	630.5	322.4	264.0
55°	391.2	410.4	546.4	281.6	249.6
57.5°	336.8	368.0	458.4	268.0	236.8
60°	301.6	315.2	310.4	254.4	225.6
62.5°	273.6	283.2	281.6	240.8	212.8
65°	242.4	250.4	255.2	227.2	202.4
67.5°	211.2	218.4	225.6	210.4	188.0
70°	184.0	188.8	195.2	190.4	172.8
72.5°	156.0	161.6	165.6	169.6	152.8
75°	129.6	132.0	139.2	146.4	134.4
77.5°	105.6	108.0	112.8	120.8	114.4
80°	79.2	81.6	88.0	94.4	94.4
82.5°	56.0	57.6	61.6	70.4	74.4
85°	35.2	35.2	37.6	43.2	51.2
87.5°	13.6	13.6	16.0	19.2	25.6
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	13.91	15.39	14.27	15.71	16.02	11.71	13.19	12.08	13.51	13.82
	3H	15.44	16.76	15.81	17.09	17.45	14.04	15.37	14.42	15.70	16.06
	4H	16.03	17.27	16.43	17.62	18.00	14.99	16.23	15.39	16.58	16.96
	6H	16.48	17.63	16.90	18.00	18.39	15.78	16.92	16.19	17.29	17.68
	8H	16.63	17.72	17.06	18.11	18.51	16.09	17.18	16.52	17.57	17.97
	12H	16.73	17.77	17.16	18.15	18.58	16.34	17.38	16.77	17.76	18.19
4H	2H	14.46	15.70	14.86	16.05	16.43	12.82	14.06	13.22	14.41	14.79
	3H	16.23	17.26	16.64	17.66	18.06	15.26	16.29	15.67	16.69	17.09
	4H	16.95	17.88	17.38	18.29	18.73	16.33	17.25	16.76	17.67	18.11
	6H	17.54	18.34	18.00	18.79	19.25	17.22	18.02	17.67	18.46	18.93
	8H	17.73	18.48	18.19	18.92	19.39	17.57	18.32	18.03	18.76	19.23
	12H	17.86	18.54	18.35	19.02	19.49	17.86	18.53	18.34	19.01	19.48
8H	4H	17.26	18.01	17.72	18.46	18.92	16.71	17.47	17.18	17.91	18.38
	6H	17.97	18.59	18.47	19.09	19.56	17.75	18.37	18.25	18.87	19.34
	8H	18.23	18.79	18.75	19.30	19.79	18.19	18.76	18.71	19.27	19.76
	12H	18.44	18.94	18.95	19.43	20.00	18.58	19.08	19.09	19.57	20.14
12H	4H	17.29	17.97	17.78	18.45	18.92	16.75	17.42	17.23	17.90	18.37
	6H	18.03	18.60	18.55	19.11	19.60	17.81	18.38	18.33	18.89	19.38
	8H	18.35	18.85	18.86	19.35	19.91	18.32	18.82	18.83	19.31	19.88