

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: P895447

Luminaire Tested: 8TMB-SC3-LVRA-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

**Test Information**

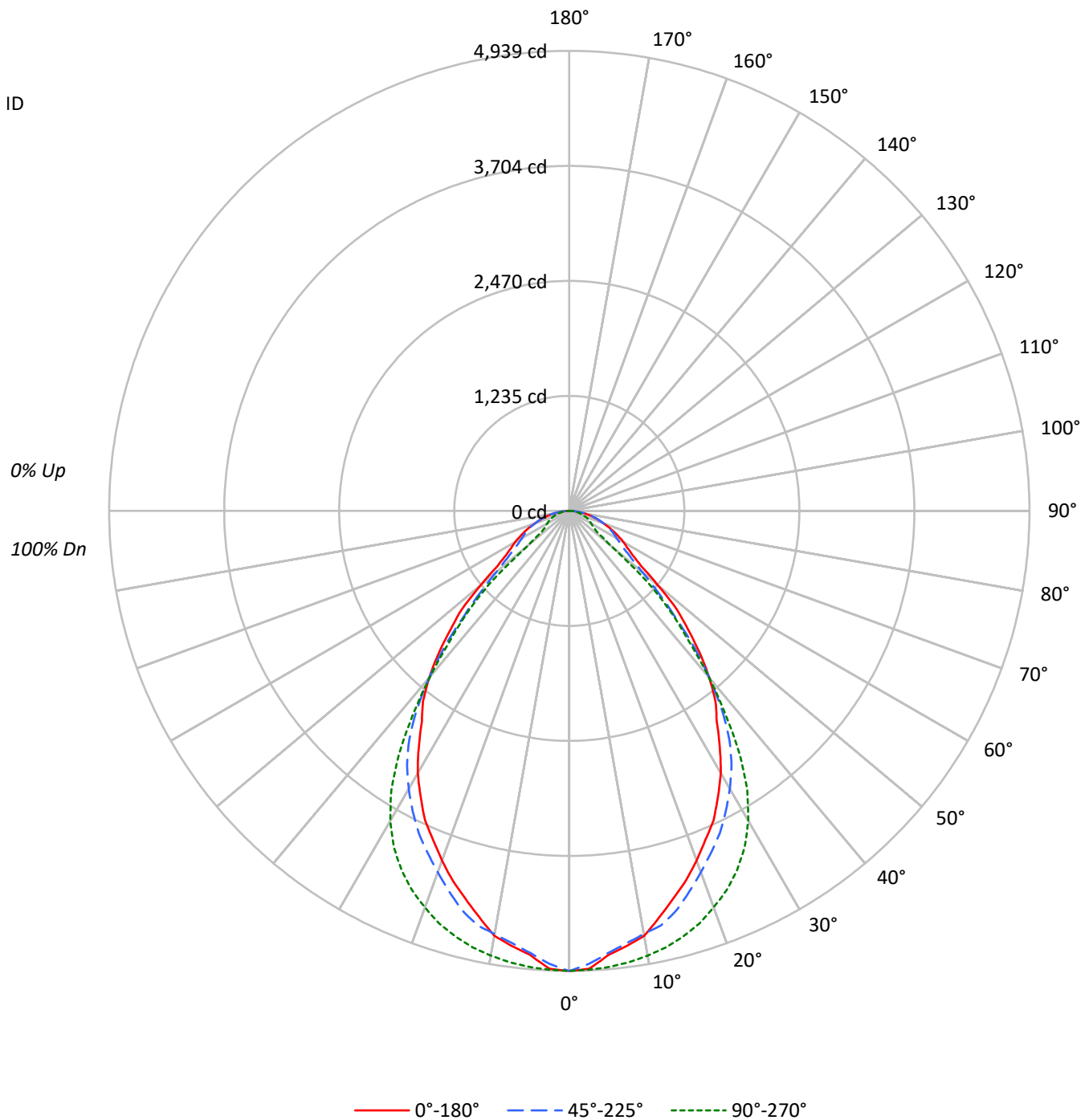
Test Method: LM-79-2019  
Report Number: P895447  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-LVRA-UNV-CC83-MID-5000K  
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 5000K CCT, MI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8016.0 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12  
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 66.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9948  
Total Harmonic Distortion (THDi): 5.65231997856897  
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

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

	0°	45°	90°
0°	17525	17525	17525
5°	17052	16975	17505
10°	16690	16616	17465
15°	15828	16315	17367
20°	15078	15587	17102
25°	14343	14956	16665
30°	13325	14118	15735
35°	11948	12974	13801
40°	10825	10849	10790
45°	9051	8016	7818
50°	6837	5642	3197
55°	5142	4512	2016
60°	4779	4156	1942
65°	4446	4147	1945
70°	4068	4068	1915
75°	3856	3962	1849
80°	3563	3745	1898
85°	3110	3265	2072

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 9262 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	456.2	5.7
10°-20°	1257.1	15.7
20°-30°	1782.6	22.2
30°-40°	1836.5	22.9
40°-50°	1282.7	16.0
50°-60°	615.5	7.7
60°-70°	431.8	5.4
70°-80°	270.0	3.4
80°-90°	83.5	1.0
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°	3496.0	43.6
0°-40°	5332.5	66.5
0°-60°	7230.7	90.2
0°-90°	8016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8016.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4939	4939	4939	4939	4939	
5°	4788	4781	4766	4891	4915	453
15°	4309	4341	4441	4569	4728	1213
25°	3664	3700	3820	4079	4257	1675
35°	2758	2834	2995	3058	3186	1738
45°	1804	1846	1598	1516	1558	1390
55°	831	790	729	467	326	779
65°	530	495	494	376	232	525
75°	281	278	289	250	135	296
85°	76	76	80	79	51	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4939.1	4939.1	4939.1	4939.1	4939.1
2.5°	4920.0	4904.7	4867.8	4935.3	4930.2
5°	4787.6	4781.3	4766.0	4890.7	4914.9
7.5°	4712.5	4699.8	4682.0	4819.5	4886.9
10°	4632.3	4647.6	4612.0	4738.0	4847.5
12.5°	4466.8	4507.6	4556.0	4654.0	4799.1
15°	4309.0	4340.8	4441.4	4568.7	4727.8
17.5°	4161.3	4198.3	4284.8	4475.8	4645.1
20°	3993.3	4044.2	4128.2	4372.6	4529.2
22.5°	3820.2	3867.3	3972.9	4235.2	4409.6
25°	3663.6	3700.5	3820.2	4078.6	4256.8
27.5°	3456.1	3524.9	3638.1	3887.6	4074.8
30°	3252.4	3311.0	3445.9	3656.0	3840.5
32.5°	3006.8	3092.0	3241.0	3401.4	3555.4
35°	2758.5	2833.6	2995.3	3057.7	3186.2
37.5°	2577.8	2598.1	2689.8	2682.1	2754.7
40°	2337.2	2377.9	2342.3	2246.8	2329.5
42.5°	2077.5	2125.9	1982.0	1871.3	1900.5
45°	1803.8	1845.8	1597.6	1516.1	1558.1
47.5°	1567.0	1563.2	1288.2	1233.5	1175.0
50°	1238.6	1279.3	1022.2	920.4	579.2
52.5°	967.5	982.7	842.7	588.1	380.6
55°	831.2	790.5	729.4	467.2	325.9
57.5°	738.3	687.4	646.7	434.1	297.9
60°	673.4	616.1	585.6	412.4	273.7
62.5°	599.6	555.0	543.6	393.3	252.0
65°	529.6	495.2	493.9	375.5	231.7
67.5°	459.5	440.4	445.5	353.9	208.8
70°	392.1	388.3	392.1	325.9	184.6
72.5°	334.8	331.0	341.2	290.2	157.8
75°	281.3	277.5	289.0	249.5	134.9
77.5°	224.0	226.6	234.2	207.5	113.3
80°	174.4	174.4	183.3	162.9	92.9
82.5°	124.8	126.0	131.1	119.7	72.6
85°	76.4	76.4	80.2	78.9	50.9
87.5°	25.5	29.3	34.4	36.9	25.5
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	15.60	16.95	15.96	17.26	17.58	11.93	13.28	12.29	13.59	13.91
	3H	17.33	18.54	17.71	18.87	19.24	13.90	15.11	14.28	15.44	15.81
	4H	18.01	19.13	18.41	19.48	19.87	14.61	15.74	15.01	16.09	16.47
	6H	18.51	19.55	18.93	19.92	20.31	15.13	16.17	15.55	16.54	16.93
	8H	18.68	19.67	19.11	20.06	20.46	15.32	16.30	15.75	16.69	17.10
	12H	18.79	19.74	19.23	20.12	20.55	15.46	16.40	15.89	16.78	17.21
4H	2H	16.13	17.25	16.53	17.60	17.99	13.55	14.68	13.95	15.03	15.41
	3H	18.10	19.03	18.52	19.44	19.84	15.73	16.66	16.14	17.06	17.46
	4H	18.91	19.74	19.34	20.16	20.60	16.61	17.44	17.04	17.86	18.30
	6H	19.55	20.27	20.01	20.72	21.18	17.25	17.98	17.71	18.42	18.89
	8H	19.77	20.45	20.24	20.89	21.36	17.46	18.14	17.93	18.58	19.05
	12H	19.92	20.52	20.41	21.00	21.48	17.62	18.22	18.10	18.70	19.17
8H	4H	19.19	19.87	19.66	20.31	20.78	17.26	17.93	17.72	18.38	18.85
	6H	19.97	20.53	20.47	21.02	21.50	18.12	18.67	18.62	19.17	19.65
	8H	20.27	20.77	20.79	21.29	21.78	18.45	18.95	18.97	19.46	19.95
	12H	20.51	20.95	21.02	21.44	22.01	18.71	19.15	19.22	19.64	20.21
12H	4H	19.21	19.81	19.69	20.29	20.76	17.33	17.93	17.81	18.41	18.88
	6H	20.03	20.52	20.55	21.04	21.53	18.26	18.75	18.78	19.27	19.76
	8H	20.39	20.83	20.90	21.32	21.89	18.67	19.11	19.18	19.60	20.17