

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: P895441

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

Issue Date: 11/11/2024

**Test Information**

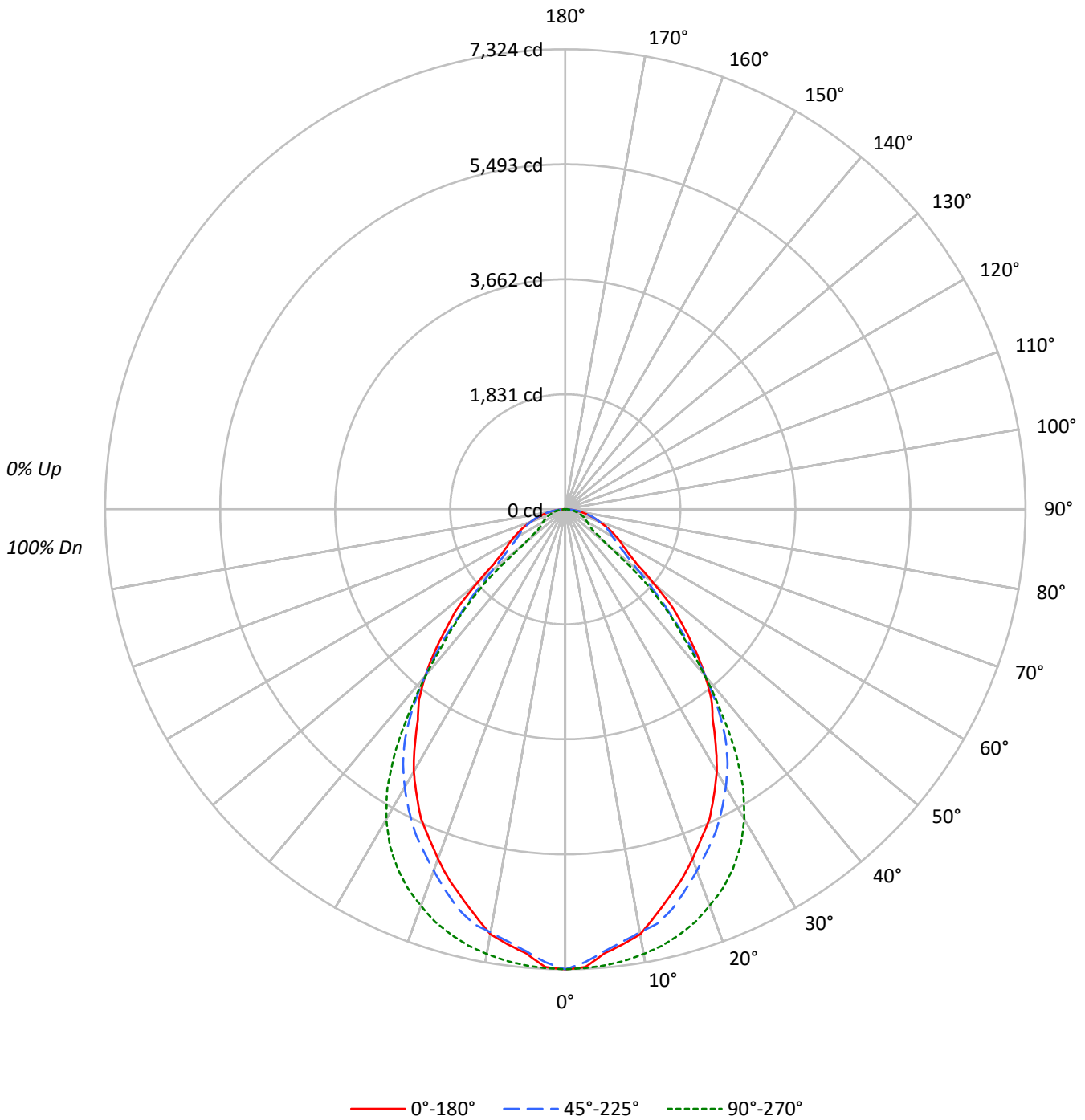
Test Method: LM-79-2019  
Report Number: P895441  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-LVRA-UNV-CC83-HI-5000K  
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 5000K CCT, HI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11887.0 lumens  
Efficiency: N/A  
Efficacy: 117.2 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): 101.4  
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

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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°	25988	25988	25988
5°	25287	25172	25959
10°	24749	24640	25899
15°	23472	24193	25753
20°	22359	23115	25360
25°	21269	22178	24713
30°	19760	20936	23333
35°	17718	19240	20466
40°	16053	16088	16000
45°	13422	11888	11594
50°	10138	8367	4741
55°	7625	6691	2990
60°	7086	6162	2880
65°	6593	6149	2885
70°	6031	6031	2839
75°	5719	5874	2743
80°	5284	5554	2816
85°	4612	4840	3074

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13735 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	676.6	5.7
10°-20°	1864.2	15.7
20°-30°	2643.5	22.2
30°-40°	2723.3	22.9
40°-50°	1902.2	16.0
50°-60°	912.7	7.7
60°-70°	640.3	5.4
70°-80°	400.4	3.4
80°-90°	123.8	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°	5184.2	43.6
0°-40°	7907.5	66.5
0°-60°	10722.5	90.2
0°-90°	11887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11887.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7324	7324	7324	7324	7324	
5°	7100	7090	7068	7252	7288	672
15°	6390	6437	6586	6775	7011	1799
25°	5433	5488	5665	6048	6312	2484
35°	4091	4202	4442	4534	4725	2578
45°	2675	2737	2369	2248	2310	2061
55°	1233	1172	1082	693	483	1155
65°	785	734	732	557	344	778
75°	417	412	428	370	200	439
85°	113	113	119	117	76	127
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7324.3	7324.3	7324.3	7324.3	7324.3
2.5°	7295.9	7273.3	7218.6	7318.6	7311.1
5°	7099.6	7090.2	7067.5	7252.5	7288.4
7.5°	6988.3	6969.4	6942.9	7146.8	7246.9
10°	6869.3	6892.0	6839.1	7026.0	7188.3
12.5°	6623.9	6684.3	6756.1	6901.4	7116.6
15°	6389.9	6437.0	6586.2	6774.9	7010.9
17.5°	6170.9	6225.6	6354.0	6637.1	6888.2
20°	5921.7	5997.2	6121.8	6484.2	6716.4
22.5°	5665.0	5734.8	5891.5	6280.4	6539.0
25°	5432.8	5487.5	5665.0	6048.2	6312.5
27.5°	5125.1	5227.0	5395.0	5765.0	6042.5
30°	4823.1	4909.9	5110.0	5421.5	5695.2
32.5°	4458.7	4585.2	4806.1	5043.9	5272.3
35°	4090.6	4202.0	4441.8	4534.2	4724.9
37.5°	3822.6	3852.8	3988.7	3977.4	4085.0
40°	3465.8	3526.2	3473.4	3331.8	3454.5
42.5°	3080.7	3152.5	2939.1	2774.9	2818.3
45°	2674.9	2737.2	2369.1	2248.2	2310.5
47.5°	2323.8	2318.1	1910.3	1829.2	1742.3
50°	1836.7	1897.1	1515.8	1364.8	858.9
52.5°	1434.6	1457.3	1249.7	872.1	564.4
55°	1232.7	1172.3	1081.7	692.8	483.3
57.5°	1094.9	1019.4	959.0	643.7	441.7
60°	998.6	913.6	868.3	611.6	405.9
62.5°	889.1	823.0	806.0	583.3	373.8
65°	785.3	734.3	732.4	556.9	343.6
67.5°	681.5	653.1	660.7	524.8	309.6
70°	581.4	575.7	581.4	483.3	273.7
72.5°	496.5	490.8	505.9	430.4	234.1
75°	417.2	411.5	428.5	370.0	200.1
77.5°	332.2	336.0	347.3	307.7	168.0
80°	258.6	258.6	271.8	241.6	137.8
82.5°	185.0	186.9	194.4	177.4	107.6
85°	113.3	113.3	118.9	117.0	75.5
87.5°	37.8	43.4	51.0	54.7	37.8
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	16.97	18.32	17.33	18.63	18.95	13.30	14.65	13.66	14.96	15.28
	3H	18.70	19.91	19.08	20.24	20.60	15.27	16.48	15.65	16.81	17.17
	4H	19.37	20.50	19.78	20.85	21.24	15.98	17.11	16.38	17.46	17.84
	6H	19.88	20.92	20.30	21.29	21.68	16.50	17.54	16.91	17.91	18.30
	8H	20.05	21.04	20.48	21.43	21.83	16.69	17.67	17.12	18.06	18.47
	12H	20.16	21.11	20.59	21.49	21.92	16.83	17.77	17.26	18.15	18.58
4H	2H	17.50	18.62	17.90	18.97	19.36	14.92	16.05	15.32	16.40	16.78
	3H	19.47	20.40	19.88	20.81	21.21	17.10	18.03	17.51	18.43	18.83
	4H	20.27	21.11	20.71	21.53	21.97	17.98	18.81	18.41	19.23	19.67
	6H	20.92	21.64	21.38	22.09	22.55	18.62	19.34	19.08	19.79	20.25
	8H	21.14	21.81	21.61	22.26	22.73	18.83	19.51	19.30	19.95	20.42
	12H	21.29	21.89	21.78	22.37	22.85	18.99	19.59	19.47	20.07	20.54
8H	4H	20.56	21.24	21.03	21.68	22.15	18.63	19.30	19.09	19.75	20.22
	6H	21.34	21.90	21.84	22.39	22.87	19.49	20.04	19.99	20.54	21.02
	8H	21.64	22.14	22.16	22.66	23.15	19.81	20.31	20.33	20.83	21.32
	12H	21.88	22.32	22.39	22.81	23.38	20.08	20.52	20.59	21.01	21.58
12H	4H	20.58	21.18	21.06	21.66	22.13	18.70	19.30	19.18	19.78	20.25
	6H	21.39	21.89	21.91	22.41	22.90	19.62	20.12	20.14	20.64	21.13
	8H	21.76	22.20	22.27	22.69	23.26	20.04	20.48	20.55	20.97	21.54