

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: P895450

Luminaire Tested: 8TMB-SC3-LVRA-UNV-CC93-HI-5000K

Issue Date: 11/11/2024

**Test Information**

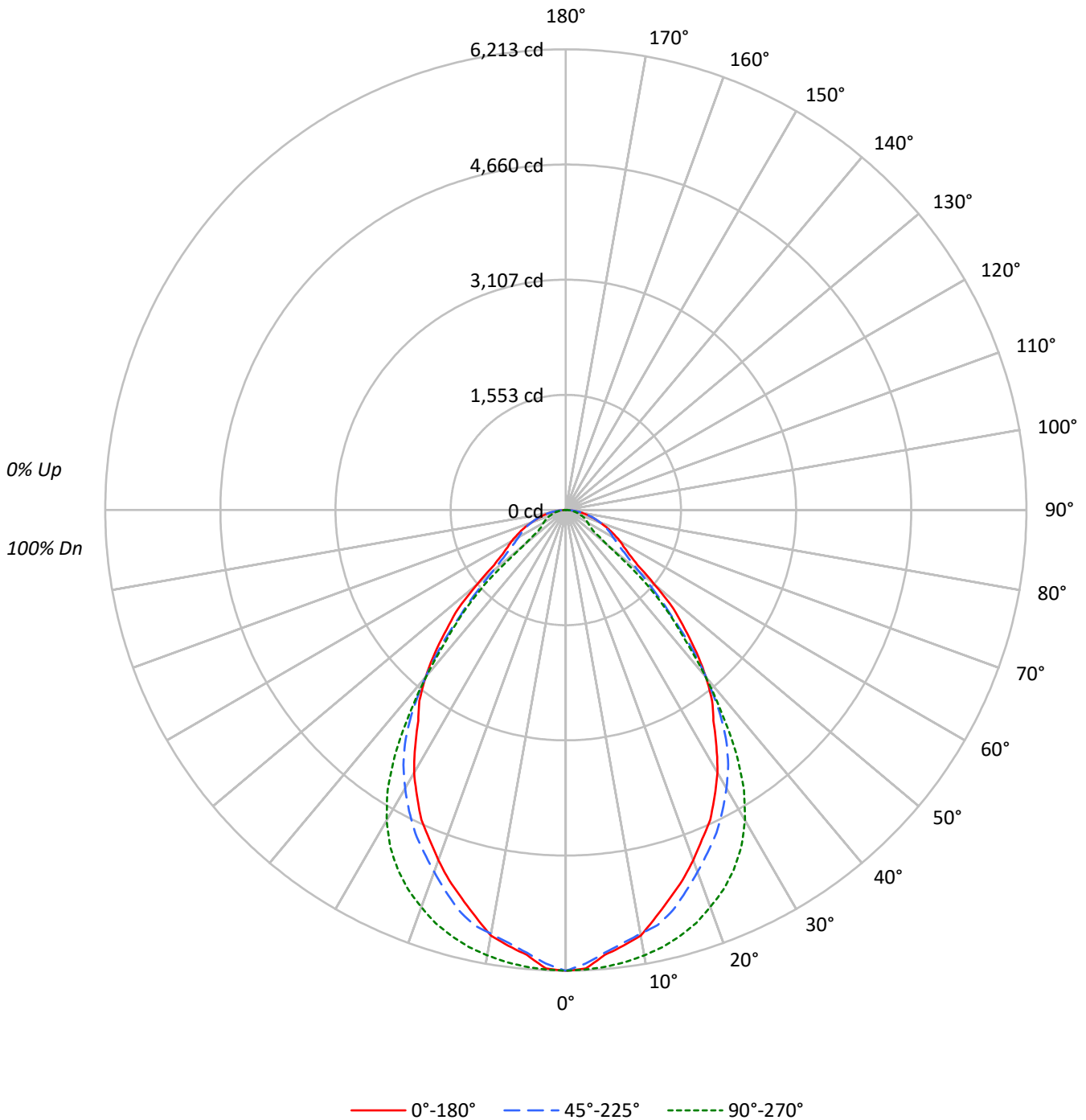
Test Method: LM-79-2019  
Report Number: P895450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-LVRA-UNV-CC93-HI-5000K  
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT, HI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10084.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 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	93	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	85	82	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	46	40	37	35

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

	0°	45°	90°
0°	22046	22046	22046
5°	21451	21354	22022
10°	20995	20903	21970
15°	19912	20523	21847
20°	18968	19609	21514
25°	18043	18814	20964
30°	16763	17760	19794
35°	15031	16321	17361
40°	13618	13647	13573
45°	11386	10084	9835
50°	8601	7098	4022
55°	6469	5676	2536
60°	6011	5227	2443
65°	5593	5216	2447
70°	5116	5116	2409
75°	4852	4983	2326
80°	4483	4712	2389
85°	3912	4108	2610

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 11651 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	573.9	5.7
10°-20°	1581.4	15.7
20°-30°	2242.5	22.2
30°-40°	2310.3	22.9
40°-50°	1613.6	16.0
50°-60°	774.3	7.7
60°-70°	543.2	5.4
70°-80°	339.6	3.4
80°-90°	105.0	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°	4397.9	43.6
0°-40°	6708.1	66.5
0°-60°	9096.1	90.2
0°-90°	10084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10084.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6213	6213	6213	6213	6213	
5°	6023	6015	5996	6152	6183	570
15°	5421	5461	5587	5747	5948	1526
25°	4609	4655	4806	5131	5355	2107
35°	3470	3565	3768	3846	4008	2187
45°	2269	2322	2010	1907	1960	1748
55°	1046	994	918	588	410	980
65°	666	623	621	472	292	660
75°	354	349	364	314	170	373
85°	96	96	101	99	64	107
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6213.3	6213.3	6213.3	6213.3	6213.3
2.5°	6189.3	6170.1	6123.7	6208.5	6202.1
5°	6022.8	6014.8	5995.5	6152.5	6182.9
7.5°	5928.3	5912.3	5889.9	6062.8	6147.7
10°	5827.4	5846.6	5801.8	5960.3	6098.0
12.5°	5619.2	5670.5	5731.3	5854.6	6037.2
15°	5420.7	5460.7	5587.2	5747.3	5947.5
17.5°	5234.9	5281.3	5390.2	5630.4	5843.4
20°	5023.5	5087.6	5193.3	5500.7	5697.7
22.5°	4805.7	4865.0	4997.9	5327.8	5547.2
25°	4608.8	4655.2	4805.7	5130.8	5355.0
27.5°	4347.7	4434.2	4576.7	4890.6	5126.0
30°	4091.5	4165.2	4334.9	4599.1	4831.3
32.5°	3782.4	3889.7	4077.1	4278.9	4472.6
35°	3470.2	3564.7	3768.0	3846.5	4008.2
37.5°	3242.8	3268.4	3383.7	3374.1	3465.4
40°	2940.1	2991.4	2946.5	2826.4	2930.5
42.5°	2613.4	2674.3	2493.3	2354.0	2390.9
45°	2269.1	2322.0	2009.7	1907.2	1960.1
47.5°	1971.3	1966.5	1620.6	1551.7	1478.1
50°	1558.1	1609.4	1285.9	1157.8	728.6
52.5°	1217.0	1236.3	1060.1	739.8	478.8
55°	1045.7	994.5	917.6	587.7	410.0
57.5°	928.8	864.7	813.5	546.1	374.7
60°	847.1	775.1	736.6	518.8	344.3
62.5°	754.2	698.2	683.8	494.8	317.1
65°	666.2	622.9	621.3	472.4	291.5
67.5°	578.1	554.1	560.5	445.2	262.6
70°	493.2	488.4	493.2	410.0	232.2
72.5°	421.2	416.4	429.2	365.1	198.6
75°	353.9	349.1	363.5	313.9	169.7
77.5°	281.8	285.0	294.7	261.0	142.5
80°	219.4	219.4	230.6	205.0	116.9
82.5°	156.9	158.5	164.9	150.5	91.3
85°	96.1	96.1	100.9	99.3	64.1
87.5°	32.0	36.8	43.2	46.4	32.0
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	16.39	17.75	16.76	18.06	18.37	12.73	14.08	13.09	14.39	14.71
	3H	18.13	19.34	18.51	19.67	20.03	14.70	15.91	15.08	16.24	16.60
	4H	18.80	19.93	19.21	20.28	20.66	15.41	16.53	15.81	16.88	17.27
	6H	19.31	20.35	19.72	20.72	21.11	15.93	16.97	16.34	17.34	17.73
	8H	19.48	20.47	19.91	20.86	21.26	16.11	17.10	16.54	17.49	17.89
	12H	19.59	20.53	20.02	20.92	21.35	16.25	17.20	16.69	17.58	18.01
4H	2H	16.92	18.05	17.33	18.40	18.78	14.35	15.48	14.75	15.83	16.21
	3H	18.90	19.83	19.31	20.23	20.64	16.53	17.46	16.94	17.86	18.26
	4H	19.70	20.54	20.14	20.96	21.40	17.41	18.24	17.84	18.66	19.10
	6H	20.35	21.07	20.81	21.52	21.98	18.05	18.77	18.51	19.22	19.68
	8H	20.57	21.24	21.03	21.69	22.16	18.26	18.93	18.73	19.38	19.85
	12H	20.72	21.32	21.21	21.80	22.28	18.42	19.02	18.90	19.50	19.97
8H	4H	19.99	20.66	20.45	21.11	21.58	18.05	18.73	18.52	19.18	19.65
	6H	20.77	21.33	21.27	21.82	22.30	18.92	19.47	19.42	19.97	20.45
	8H	21.07	21.57	21.59	22.09	22.58	19.24	19.74	19.76	20.26	20.75
	12H	21.31	21.75	21.82	22.24	22.81	19.51	19.95	20.02	20.44	21.01
12H	4H	20.00	20.60	20.49	21.09	21.56	18.13	18.73	18.61	19.21	19.68
	6H	20.82	21.32	21.34	21.84	22.33	19.05	19.55	19.57	20.07	20.56
	8H	21.19	21.63	21.70	22.12	22.69	19.47	19.91	19.98	20.40	20.97