

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: P895249

Luminaire Tested: 8TMB-8SL-LVRF-UNV-L930

Issue Date: 11/11/2024

**Test Information**

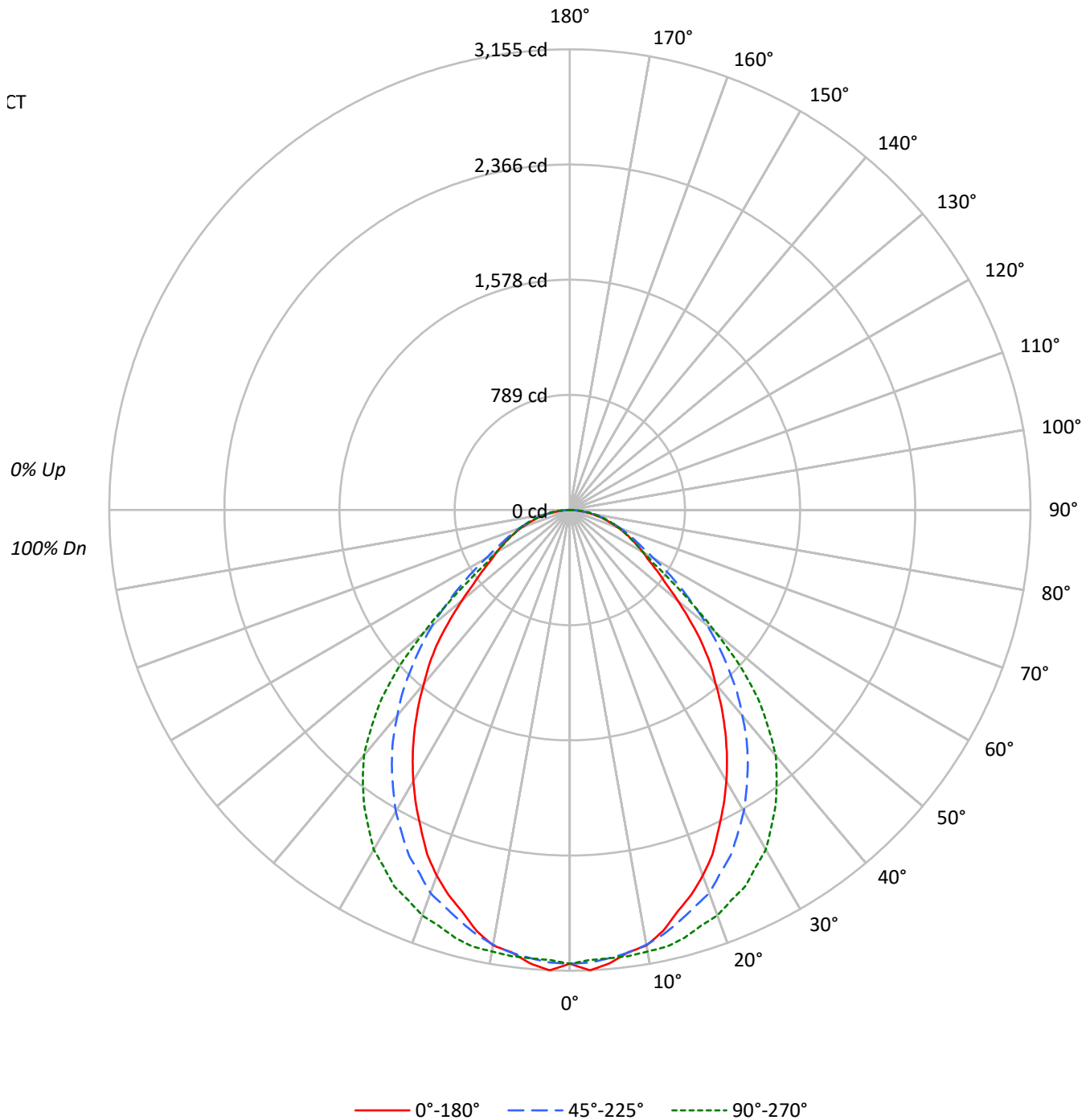
Test Method: LM-79-2019  
Report Number: P895249  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-8SL-LVRF-UNV-L930  
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3000K C  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6457.0 lumens  
Efficiency: N/A  
Efficacy: 108.3 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): 59.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 3.8  
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°	11023	11023	11023
5°	11100	10974	10974
10°	10908	10891	11060
15°	10457	10700	11139
20°	10059	10541	11157
25°	9437	10215	11132
30°	8784	9763	11001
35°	8041	9209	10651
40°	7199	8516	10162
45°	6388	7709	9136
50°	5315	6787	7206
55°	4528	5716	5237
60°	4104	4723	4139
65°	3865	4137	3852
70°	3637	3838	3754
75°	3389	3655	3588
80°	3104	3367	3465
85°	2695	2960	3880

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 9136 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.1	4.6
10°-20°	827.7	12.8
20°-30°	1202.0	18.6
30°-40°	1338.5	20.7
40°-50°	1182.5	18.3
50°-60°	775.9	12.0
60°-70°	475.1	7.4
70°-80°	276.5	4.3
80°-90°	84.7	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°	2323.8	36.0
0°-40°	3662.3	56.7
0°-60°	5620.7	87.0
0°-90°	6457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6457.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3107	3107	3107	3107	3107	
5°	3116	3118	3081	3112	3081	294
15°	2847	2879	2913	3028	3032	803
25°	2410	2469	2609	2776	2844	1109
35°	1856	1956	2126	2351	2459	1158
45°	1273	1351	1536	1743	1821	974
55°	732	784	924	916	847	664
65°	460	468	493	478	459	458
75°	247	250	267	271	262	262
85°	66	70	73	82	95	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3106.8	3106.8	3106.8	3106.8	3106.8
2.5°	3155.3	3116.5	3102.0	3116.5	3084.2
5°	3116.5	3118.1	3081.0	3111.7	3081.0
7.5°	3055.1	3076.1	3058.3	3105.2	3081.0
10°	3027.6	3029.3	3022.8	3071.3	3069.7
12.5°	2951.7	2956.6	2974.3	3047.0	3063.2
15°	2846.7	2879.0	2912.9	3027.6	3032.5
17.5°	2764.3	2803.1	2848.3	2971.1	2985.6
20°	2664.1	2680.3	2791.8	2900.0	2954.9
22.5°	2552.7	2583.4	2691.6	2837.0	2891.9
25°	2410.5	2468.6	2609.2	2775.6	2843.5
27.5°	2279.6	2347.5	2492.9	2678.7	2757.8
30°	2143.9	2221.5	2383.0	2565.6	2685.1
32.5°	2003.4	2100.3	2253.8	2463.8	2568.8
35°	1856.3	1956.5	2126.1	2350.7	2459.0
37.5°	1709.3	1806.2	1990.4	2231.2	2328.1
40°	1554.2	1649.5	1838.6	2082.5	2194.0
42.5°	1420.1	1502.5	1696.4	1904.8	2008.2
45°	1273.1	1350.6	1536.4	1743.2	1820.8
47.5°	1111.5	1202.0	1383.0	1552.6	1583.3
50°	962.9	1056.6	1229.5	1328.0	1305.4
52.5°	832.0	911.2	1069.5	1111.5	1058.2
55°	731.9	783.6	924.1	916.0	846.6
57.5°	639.8	672.1	791.6	746.4	680.2
60°	578.4	592.9	665.6	623.6	583.2
62.5°	520.2	526.7	565.5	542.8	512.1
65°	460.4	468.5	492.8	478.2	458.8
67.5°	405.5	408.7	431.4	428.1	403.9
70°	350.6	355.4	370.0	376.4	361.9
72.5°	297.3	302.1	316.7	323.1	310.2
75°	247.2	250.4	266.6	271.4	261.7
77.5°	198.7	205.2	214.9	223.0	211.6
80°	151.9	155.1	164.8	174.5	169.6
82.5°	106.6	111.5	117.9	130.9	134.1
85°	66.2	69.5	72.7	82.4	95.3
87.5°	25.8	27.5	32.3	35.5	46.9
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	15.87	17.35	16.23	17.66	17.98	16.52	18.00	16.88	18.31	18.63
	3H	17.47	18.79	17.85	19.12	19.49	17.96	19.28	18.33	19.61	19.97
	4H	18.09	19.33	18.49	19.68	20.06	18.56	19.80	18.96	20.15	20.53
	6H	18.56	19.70	18.97	20.07	20.46	19.05	20.19	19.46	20.56	20.95
	8H	18.71	19.80	19.14	20.19	20.59	19.24	20.34	19.67	20.73	21.13
	12H	18.81	19.85	19.24	20.24	20.66	19.41	20.46	19.84	20.84	21.27
4H	2H	16.49	17.73	16.89	18.08	18.46	17.01	18.26	17.41	18.61	18.98
	3H	18.31	19.34	18.72	19.74	20.14	18.71	19.74	19.12	20.14	20.54
	4H	19.05	19.97	19.48	20.39	20.83	19.46	20.39	19.90	20.81	21.25
	6H	19.65	20.45	20.10	20.89	21.36	20.10	20.90	20.56	21.35	21.81
	8H	19.84	20.60	20.31	21.04	21.51	20.35	21.11	20.82	21.55	22.02
	12H	19.99	20.66	20.47	21.14	21.61	20.58	21.25	21.06	21.73	22.20
8H	4H	19.37	20.12	19.83	20.56	21.03	19.73	20.49	20.20	20.93	21.40
	6H	20.09	20.71	20.59	21.21	21.68	20.51	21.13	21.01	21.62	22.10
	8H	20.36	20.92	20.88	21.44	21.92	20.85	21.41	21.37	21.93	22.41
	12H	20.58	21.08	21.09	21.57	22.14	21.17	21.67	21.68	22.16	22.73
12H	4H	19.40	20.07	19.89	20.55	21.02	19.75	20.43	20.24	20.91	21.38
	6H	20.16	20.72	20.67	21.23	21.72	20.55	21.12	21.07	21.63	22.12
	8H	20.49	20.99	21.00	21.48	22.04	20.96	21.46	21.47	21.95	22.52