

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: P895235

Luminaire Tested: 8TMB-8SL-LVR-UNV-L940

Issue Date: 11/11/2024

**Test Information**

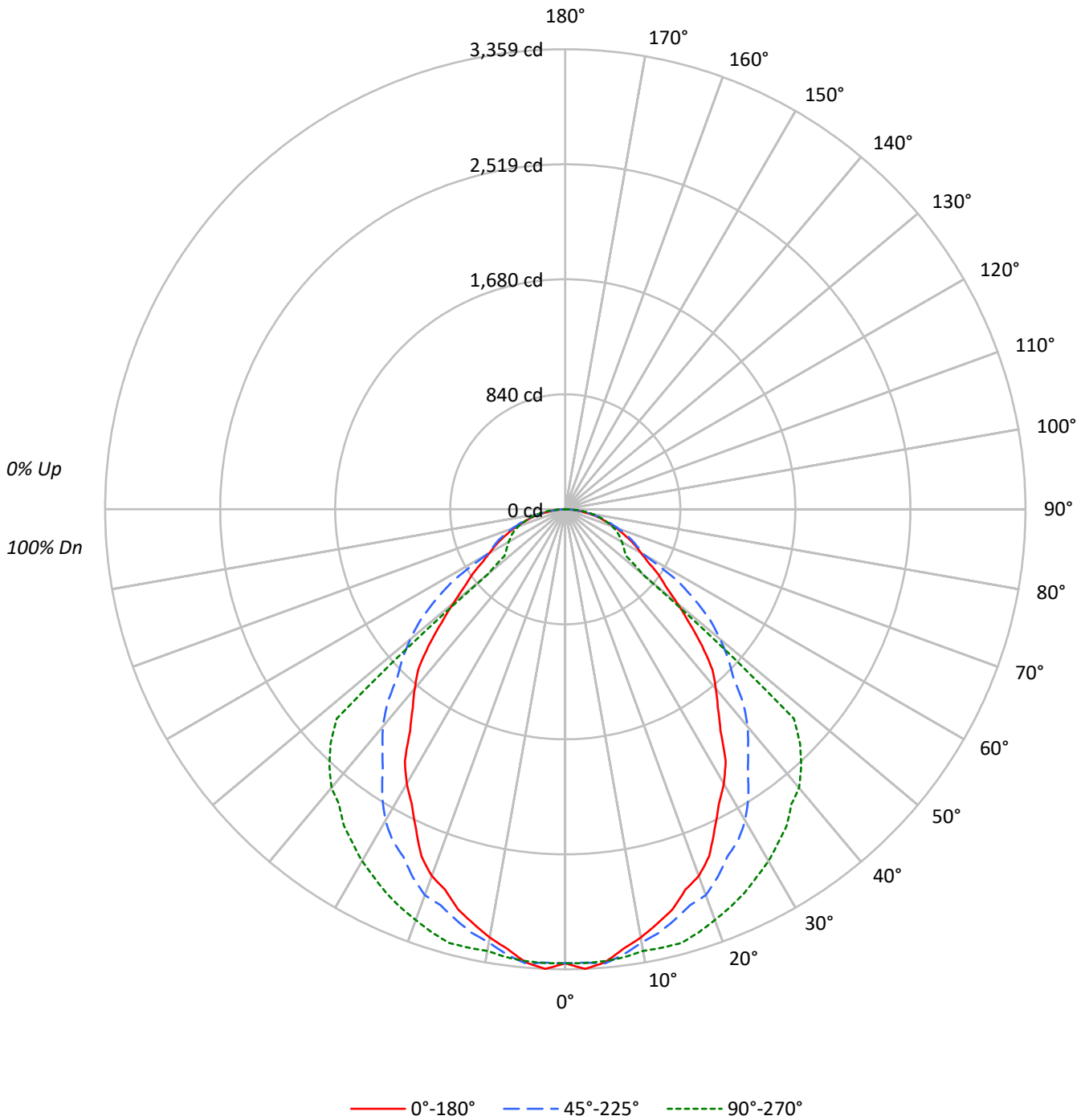
Test Method: LM-79-2019  
Report Number: P895235  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-8SL-LVR-UNV-L940  
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7074.0 lumens  
Efficiency: N/A  
Efficacy: 118.7 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): 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	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°	11762	11762	11762
5°	11825	11855	11795
10°	11437	11571	11797
15°	11107	11387	12040
20°	10759	11321	12050
25°	10094	10956	12103
30°	9482	10758	12152
35°	8550	10061	12210
40°	7920	9598	12295
45°	7085	8699	12157
50°	5878	8149	4084
55°	5121	7153	3267
60°	4530	4662	3388
65°	4307	4534	3596
70°	4040	4286	3794
75°	3760	4039	3899
80°	3425	3805	4082
85°	3033	3241	4413

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 12157 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.4	4.4
10°-20°	884.5	12.5
20°-30°	1301.1	18.4
30°-40°	1488.0	21.0
40°-50°	1409.0	19.9
50°-60°	776.3	11.0
60°-70°	498.4	7.0
70°-80°	307.6	4.3
80°-90°	94.7	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°	2500.1	35.3
0°-40°	3988.0	56.4
0°-60°	6173.3	87.3
0°-90°	7074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7074.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3315	3315	3315	3315	3315	
5°	3320	3347	3328	3328	3312	311
15°	3024	3061	3100	3262	3278	849
25°	2578	2694	2798	2981	3091	1187
35°	1974	2143	2323	2660	2819	1248
45°	1412	1546	1734	2225	2423	1080
55°	828	868	1156	596	528	740
65°	513	530	540	481	428	508
75°	274	279	295	310	284	292
85°	74	74	80	91	108	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3314.9	3314.9	3314.9	3314.9	3314.9
2.5°	3358.9	3367.4	3313.2	3311.5	3316.6
5°	3320.0	3347.1	3328.4	3328.4	3311.5
7.5°	3237.0	3282.7	3277.6	3316.6	3298.0
10°	3174.4	3211.6	3211.6	3313.2	3274.3
12.5°	3099.9	3142.2	3165.9	3272.6	3277.6
15°	3023.7	3060.9	3099.9	3262.4	3277.6
17.5°	2913.6	2981.4	3030.5	3189.6	3238.7
20°	2849.3	2889.9	2998.3	3127.0	3191.3
22.5°	2742.7	2801.9	2906.9	3050.8	3145.6
25°	2578.4	2693.6	2798.5	2981.4	3091.4
27.5°	2426.1	2512.4	2729.1	2922.1	3027.1
30°	2314.3	2382.0	2625.8	2835.8	2966.1
32.5°	2178.9	2288.9	2487.0	2751.1	2889.9
35°	1974.0	2143.3	2322.8	2659.7	2818.8
37.5°	1830.1	1946.9	2190.7	2564.9	2712.2
40°	1709.9	1816.6	2072.2	2446.4	2654.6
42.5°	1589.7	1676.1	1923.2	2358.3	2548.0
45°	1412.0	1545.7	1733.6	2224.6	2422.7
47.5°	1225.7	1367.9	1610.0	2111.2	2263.5
50°	1064.9	1178.3	1476.3	1886.0	739.8
52.5°	924.4	1029.3	1334.1	682.3	558.7
55°	827.9	868.5	1156.3	595.9	528.2
57.5°	712.8	778.8	970.1	567.2	501.1
60°	638.3	667.0	656.9	538.4	477.4
62.5°	579.0	599.3	595.9	509.6	450.3
65°	513.0	529.9	540.1	480.8	428.3
67.5°	447.0	462.2	477.4	445.3	397.9
70°	389.4	399.5	413.1	402.9	365.7
72.5°	330.1	342.0	350.5	358.9	323.4
75°	274.3	279.3	294.6	309.8	284.4
77.5°	223.5	228.6	238.7	255.6	242.1
80°	167.6	172.7	186.2	199.8	199.8
82.5°	118.5	121.9	130.4	149.0	157.4
85°	74.5	74.5	79.6	91.4	108.4
87.5°	28.8	28.8	33.9	40.6	54.2
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	16.51	18.00	16.88	18.31	18.62	14.32	15.80	14.68	16.11	16.43
	3H	18.04	19.37	18.42	19.69	20.06	16.65	17.97	17.03	18.30	18.66
	4H	18.63	19.88	19.03	20.22	20.60	17.60	18.84	18.00	19.19	19.57
	6H	19.09	20.24	19.50	20.60	21.00	18.38	19.53	18.79	19.90	20.29
	8H	19.23	20.33	19.66	20.72	21.12	18.69	19.78	19.12	20.17	20.58
	12H	19.33	20.38	19.76	20.76	21.19	18.94	19.99	19.37	20.37	20.80
4H	2H	17.06	18.31	17.47	18.66	19.04	15.42	16.66	15.82	17.01	17.39
	3H	18.84	19.87	19.25	20.27	20.67	17.87	18.90	18.28	19.30	19.70
	4H	19.56	20.48	19.99	20.90	21.34	18.93	19.86	19.37	20.27	20.71
	6H	20.14	20.95	20.60	21.39	21.85	19.82	20.63	20.28	21.07	21.53
	8H	20.33	21.08	20.80	21.53	22.00	20.17	20.92	20.64	21.37	21.84
	12H	20.47	21.14	20.95	21.62	22.09	20.46	21.13	20.94	21.61	22.08
8H	4H	19.86	20.62	20.33	21.06	21.53	19.32	20.07	19.78	20.52	20.98
	6H	20.58	21.20	21.07	21.69	22.17	20.35	20.98	20.85	21.47	21.95
	8H	20.84	21.40	21.35	21.91	22.40	20.80	21.36	21.31	21.87	22.36
	12H	21.05	21.54	21.56	22.04	22.60	21.18	21.68	21.69	22.18	22.74
12H	4H	19.90	20.57	20.38	21.05	21.52	19.35	20.03	19.84	20.51	20.98
	6H	20.64	21.20	21.15	21.71	22.20	20.42	20.98	20.93	21.49	21.98
	8H	20.96	21.46	21.47	21.95	22.52	20.93	21.43	21.44	21.92	22.48