

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: P895260

Luminaire Tested: 8TMB-8SL-RFLW-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-8SL-RFLW-UNV-L950
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 5000K
Light Source: -
Ballast/Driver: -

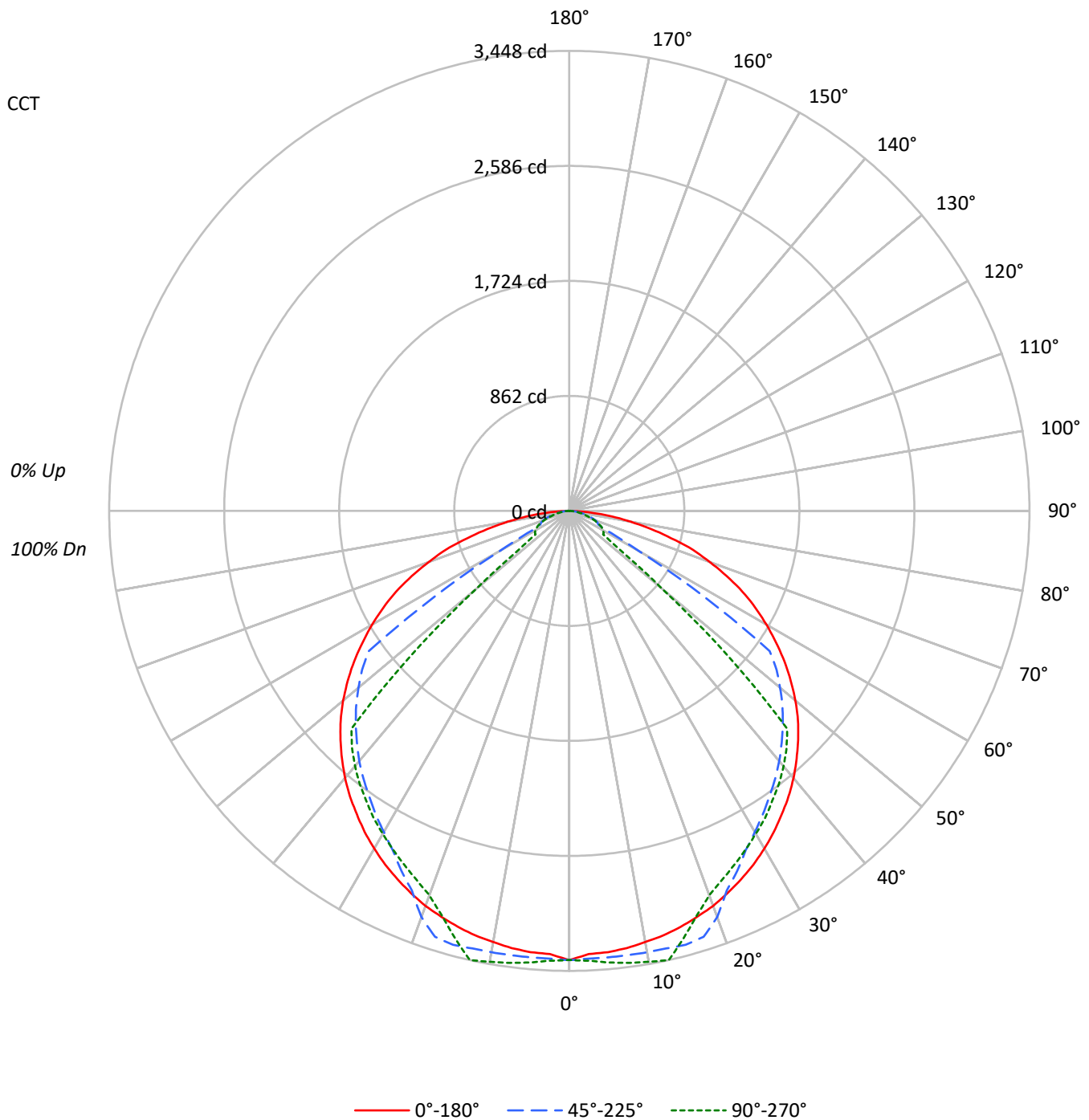
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8211.0 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 59.6
Input Voltage (V): 120
Input Current (A_{in}): 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

TEST NUMBER: P895260
CATALOG NUMBER: 8TMB-8SL-RFLW-UNV-L950

Luminous Intensity Polar Plot





TEST NUMBER: P895260
 CATALOG NUMBER: 8TMB-8SL-RFLW-UNV-L950

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	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	77	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	58	58	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	51	51	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	45	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	40	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	36	36	36	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	33	33	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21800	21800	21800
5°	21582	21833	22084
10°	21578	22086	22568
15°	21637	22569	22207
20°	21710	22321	21124
25°	21764	21267	20909
30°	21853	20784	20900
35°	21944	20661	20967
40°	22094	20691	21115
45°	22204	20718	21142
50°	22286	20769	9140
55°	22229	20704	3487
60°	22101	7900	3800
65°	21946	3668	3904
70°	21197	3948	3654
75°	19803	3768	3187
80°	17422	3311	2737
85°	13767	2868	2296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 22286 cd/sqm



TEST NUMBER: P895260
 CATALOG NUMBER: 8TMB-8SL-RFLW-UNV-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.5	3.9
10°-20°	933.5	11.4
20°-30°	1392.9	17.0
30°-40°	1688.4	20.6
40°-50°	1728.8	21.1
50°-60°	1149.7	14.0
60°-70°	655.3	8.0
70°-80°	275.3	3.4
80°-90°	65.6	0.8
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°	2648.0	32.2
0°-40°	4336.3	52.8
0°-60°	7214.8	87.9
0°-90°	8211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3367	3367	3367	3367	3367	
5°	3320	3386	3359	3367	3398	316
15°	3228	3316	3367	3355	3312	912
25°	3046	3193	2977	2911	2926	1405
35°	2776	2826	2614	2625	2652	1739
45°	2425	2278	2262	2289	2309	1871
55°	1969	1803	1834	402	309	1758
65°	1432	1282	239	255	255	1409
75°	792	166	151	131	127	840
85°	185	46	39	31	31	222
90°	0	0	0	0	0	



TEST NUMBER: P895260
 CATALOG NUMBER: 8TMB-8SL-RFLW-UNV-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3366.6	3366.6	3366.6	3366.6	3366.6
2.5°	3324.1	3393.6	3358.9	3362.7	3374.3
5°	3320.2	3385.9	3358.9	3366.6	3397.5
7.5°	3304.8	3374.3	3358.9	3382.0	3416.8
10°	3281.6	3362.7	3358.9	3397.5	3432.2
12.5°	3258.5	3339.5	3358.9	3416.8	3447.6
15°	3227.6	3316.4	3366.6	3355.0	3312.5
17.5°	3189.0	3293.2	3347.3	3181.3	3177.4
20°	3150.4	3262.3	3239.2	3080.9	3065.4
22.5°	3100.2	3231.4	3080.9	2972.8	2992.1
25°	3046.1	3192.8	2976.6	2911.0	2926.4
27.5°	2988.2	3154.2	2864.7	2841.5	2860.8
30°	2922.6	3100.2	2779.7	2772.0	2795.2
32.5°	2853.1	2995.9	2698.7	2702.5	2729.5
35°	2775.9	2826.1	2613.7	2625.3	2652.3
37.5°	2698.7	2667.8	2532.7	2552.0	2579.0
40°	2613.7	2544.2	2447.7	2467.0	2497.9
42.5°	2521.1	2413.0	2355.1	2382.1	2409.1
45°	2424.6	2277.8	2262.4	2289.4	2308.7
47.5°	2324.2	2162.0	2165.9	2185.2	1637.0
50°	2212.2	2046.2	2061.6	1428.5	907.3
52.5°	2092.5	1926.5	1957.4	795.3	459.4
55°	1969.0	1803.0	1833.9	401.5	308.9
57.5°	1837.7	1679.4	1196.8	289.6	305.0
60°	1706.5	1548.2	610.0	285.7	293.4
62.5°	1571.3	1416.9	289.6	274.1	278.0
65°	1432.3	1281.8	239.4	254.8	254.8
67.5°	1277.9	1138.9	227.8	227.8	223.9
70°	1119.6	945.9	208.5	196.9	193.0
72.5°	972.9	362.9	181.5	162.2	158.3
75°	791.5	166.0	150.6	131.3	127.4
77.5°	629.3	139.0	119.7	104.2	100.4
80°	467.2	108.1	88.8	77.2	73.4
82.5°	324.3	73.4	61.8	50.2	50.2
85°	185.3	46.3	38.6	30.9	30.9
87.5°	73.4	23.2	19.3	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P895260
 CATALOG NUMBER: 8TMB-8SL-RFLW-UNV-L950

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	23.63	25.15	24.00	25.47	25.78	11.40	12.92	11.76	13.23	13.55
	3H	25.65	27.01	26.03	27.34	27.70	13.71	15.07	14.09	15.40	15.76
	4H	26.12	27.39	26.52	27.74	28.11	14.43	15.70	14.83	16.05	16.43
	6H	26.52	27.70	26.94	28.06	28.45	14.91	16.08	15.32	16.45	16.84
	8H	26.67	27.79	27.10	28.18	28.58	15.05	16.16	15.48	16.55	16.96
	12H	26.77	27.84	27.20	28.22	28.65	15.14	16.20	15.57	16.58	17.01
4H	2H	23.47	24.75	23.87	25.10	25.47	12.20	13.47	12.60	13.82	14.20
	3H	25.68	26.73	26.09	27.13	27.53	14.71	15.76	15.12	16.16	16.56
	4H	26.13	27.06	26.56	27.48	27.92	15.53	16.47	15.96	16.88	17.32
	6H	26.59	27.41	27.05	27.85	28.31	16.12	16.94	16.58	17.38	17.84
	8H	26.78	27.54	27.25	27.99	28.46	16.29	17.05	16.75	17.50	17.96
	12H	26.93	27.61	27.42	28.09	28.56	16.41	17.09	16.89	17.57	18.04
8H	4H	26.04	26.81	26.51	27.25	27.72	16.37	17.13	16.83	17.57	18.04
	6H	26.50	27.13	27.00	27.62	28.10	16.99	17.62	17.49	18.11	18.59
	8H	26.70	27.27	27.22	27.78	28.27	17.19	17.76	17.71	18.27	18.75
	12H	26.89	27.39	27.40	27.88	28.45	17.35	17.85	17.86	18.34	18.91
12H	4H	26.01	26.69	26.50	27.17	27.64	16.44	17.12	16.92	17.60	18.07
	6H	26.46	27.02	26.97	27.53	28.02	17.08	17.65	17.60	18.16	18.65
	8H	26.68	27.18	27.19	27.67	28.24	17.34	17.84	17.85	18.33	18.90