

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: P895259

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895259
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-L940
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 4000K
Light Source: -
Ballast/Driver: -

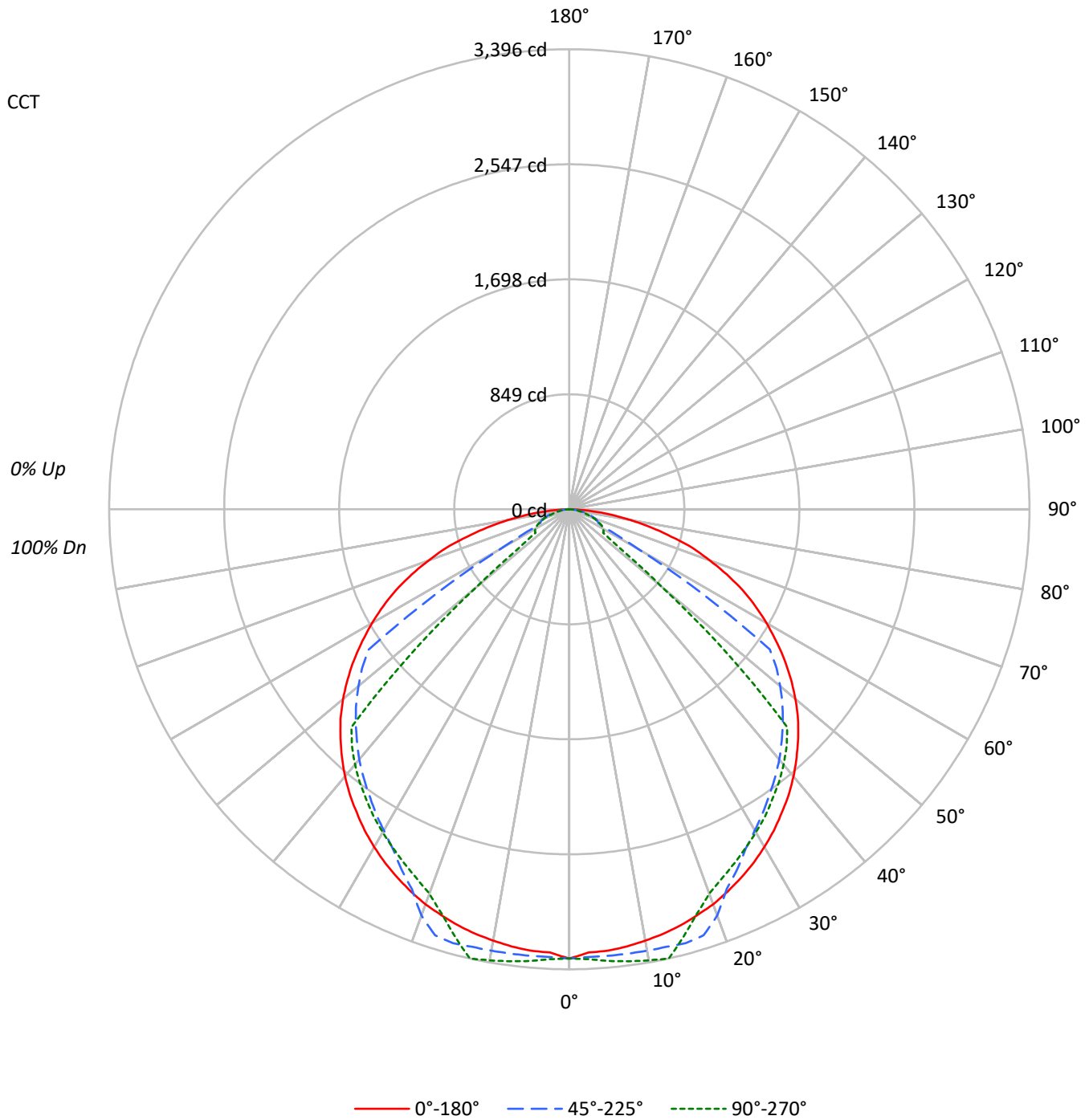
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8088.0 lumens
Efficiency: N/A
Efficacy: 135.7 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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	21473	21473	21473
5°	21259	21506	21754
10°	21255	21755	22230
15°	21313	22231	21874
20°	21384	21987	20807
25°	21438	20949	20596
30°	21525	20473	20587
35°	21615	20352	20653
40°	21763	20380	20799
45°	21870	20408	20825
50°	21952	20458	9003
55°	21896	20394	3434
60°	21769	7782	3743
65°	21618	3613	3846
70°	20879	3889	3599
75°	19505	3710	3140
80°	17161	3263	2696
85°	13559	2823	2259

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 21952 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	3.9
10°-20°	919.6	11.4
20°-30°	1372.0	17.0
30°-40°	1663.1	20.6
40°-50°	1702.9	21.1
50°-60°	1132.5	14.0
60°-70°	645.5	8.0
70°-80°	271.2	3.4
80°-90°	64.6	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°	2608.3	32.2
0°-40°	4271.4	52.8
0°-60°	7106.7	87.9
0°-90°	8088.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8088.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3316	3316	3316	3316	3316	
5°	3270	3335	3308	3316	3347	311
15°	3179	3267	3316	3305	3263	898
25°	3000	3145	2932	2867	2883	1384
35°	2734	2784	2575	2586	2613	1713
45°	2388	2244	2228	2255	2274	1842
55°	1940	1776	1806	396	304	1732
65°	1411	1263	236	251	251	1388
75°	780	164	148	129	126	828
85°	182	46	38	30	30	219
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3316.1	3316.1	3316.1	3316.1	3316.1
2.5°	3274.3	3342.8	3308.5	3312.3	3323.7
5°	3270.5	3335.2	3308.5	3316.1	3346.6
7.5°	3255.3	3323.7	3308.5	3331.4	3365.6
10°	3232.5	3312.3	3308.5	3346.6	3380.8
12.5°	3209.7	3289.5	3308.5	3365.6	3396.0
15°	3179.2	3266.7	3316.1	3304.7	3262.9
17.5°	3141.2	3243.9	3297.1	3133.6	3129.8
20°	3103.2	3213.5	3190.6	3034.7	3019.5
22.5°	3053.7	3183.0	3034.7	2928.2	2947.3
25°	3000.5	3145.0	2932.0	2867.4	2882.6
27.5°	2943.5	3107.0	2821.8	2798.9	2818.0
30°	2878.8	3053.7	2738.1	2730.5	2753.3
32.5°	2810.4	2951.1	2658.2	2662.0	2688.7
35°	2734.3	2783.7	2574.6	2586.0	2612.6
37.5°	2658.2	2627.8	2494.7	2513.7	2540.3
40°	2574.6	2506.1	2411.0	2430.1	2460.5
42.5°	2483.3	2376.8	2319.8	2346.4	2373.0
45°	2388.2	2243.7	2228.5	2255.1	2274.1
47.5°	2289.4	2129.6	2133.4	2152.4	1612.4
50°	2179.1	2015.5	2030.8	1407.1	893.7
52.5°	2061.2	1897.7	1928.1	783.4	452.5
55°	1939.5	1776.0	1806.4	395.5	304.2
57.5°	1810.2	1654.3	1178.9	285.2	300.4
60°	1680.9	1525.0	600.9	281.4	289.0
62.5°	1547.8	1395.7	285.2	270.0	273.8
65°	1410.9	1262.6	235.8	251.0	251.0
67.5°	1258.8	1121.9	224.4	224.4	220.6
70°	1102.8	931.7	205.4	193.9	190.1
72.5°	958.3	357.5	178.7	159.7	155.9
75°	779.6	163.5	148.3	129.3	125.5
77.5°	619.9	136.9	117.9	102.7	98.9
80°	460.2	106.5	87.5	76.1	72.3
82.5°	319.4	72.3	60.8	49.4	49.4
85°	182.5	45.6	38.0	30.4	30.4
87.5°	72.3	22.8	19.0	11.4	11.4
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	23.58	25.10	23.95	25.42	25.73	11.35	12.87	11.71	13.18	13.50
	3H	25.60	26.96	25.98	27.29	27.65	13.66	15.02	14.04	15.35	15.71
	4H	26.06	27.34	26.46	27.68	28.06	14.37	15.65	14.77	15.99	16.37
	6H	26.47	27.64	26.88	28.01	28.40	14.86	16.03	15.27	16.40	16.79
	8H	26.62	27.74	27.05	28.12	28.53	15.00	16.11	15.42	16.50	16.90
	12H	26.72	27.79	27.15	28.17	28.60	15.08	16.15	15.51	16.53	16.96
4H	2H	23.42	24.69	23.82	25.04	25.42	12.14	13.42	12.54	13.77	14.14
	3H	25.63	26.67	26.04	27.07	27.47	14.66	15.70	15.07	16.10	16.50
	4H	26.07	27.01	26.51	27.43	27.87	15.48	16.41	15.91	16.83	17.27
	6H	26.54	27.35	27.00	27.80	28.26	16.07	16.88	16.53	17.33	17.79
	8H	26.73	27.49	27.19	27.94	28.40	16.24	17.00	16.70	17.44	17.91
	12H	26.88	27.56	27.37	28.04	28.51	16.36	17.03	16.84	17.51	17.98
8H	4H	25.99	26.75	26.46	27.20	27.66	16.31	17.08	16.78	17.52	17.99
	6H	26.45	27.08	26.95	27.57	28.05	16.94	17.57	17.43	18.06	18.54
	8H	26.65	27.22	27.17	27.73	28.22	17.14	17.70	17.65	18.21	18.70
	12H	26.84	27.34	27.35	27.83	28.39	17.29	17.80	17.80	18.29	18.85
12H	4H	25.96	26.64	26.44	27.12	27.59	16.39	17.06	16.87	17.54	18.01
	6H	26.40	26.97	26.92	27.48	27.97	17.03	17.60	17.54	18.11	18.59
	8H	26.63	27.13	27.14	27.62	28.19	17.28	17.78	17.79	18.28	18.84