

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: P895144

Luminaire Tested: 8TMB-6SL-RFLW-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895144
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-6SL-RFLW-UNV-L850
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 5000K
Light Source: -
Ballast/Driver: -

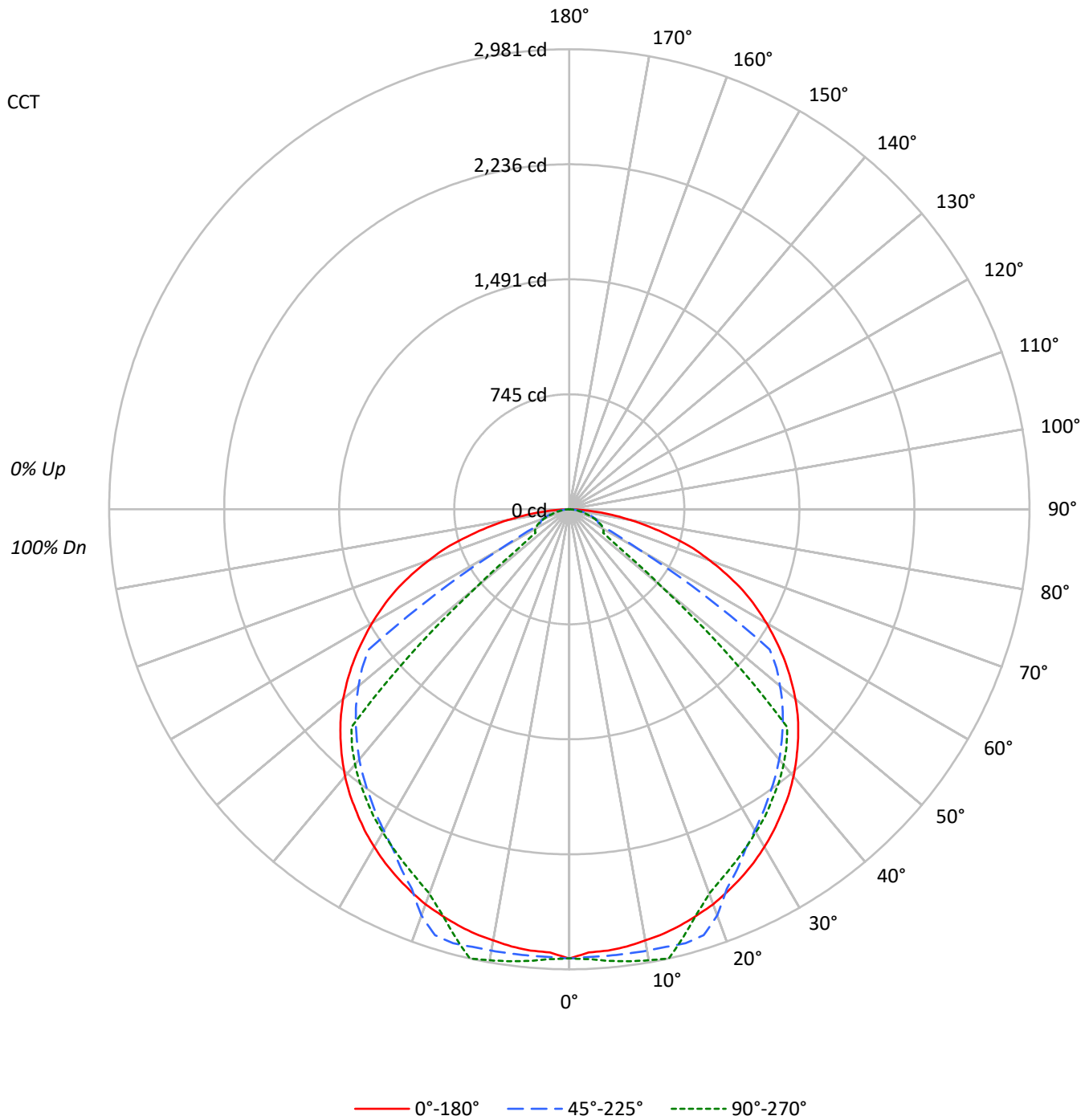
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7099.0 lumens
Efficiency: N/A
Efficacy: 168.2 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): 42.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.51
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	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°	18847	18847	18847
5°	18659	18877	19093
10°	18656	19095	19512
15°	18707	19512	19199
20°	18769	19298	18263
25°	18817	18387	18077
30°	18893	17970	18069
35°	18971	17864	18127
40°	19102	17888	18255
45°	19196	17912	18280
50°	19268	17956	7902
55°	19218	17900	3014
60°	19106	6830	3286
65°	18975	3170	3375
70°	18327	3412	3160
75°	17121	3258	2757
80°	15062	2864	2364
85°	11902	2482	1984

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 19268 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.0	3.9
10°-20°	807.1	11.4
20°-30°	1204.3	17.0
30°-40°	1459.7	20.6
40°-50°	1494.7	21.1
50°-60°	994.0	14.0
60°-70°	566.5	8.0
70°-80°	238.0	3.4
80°-90°	56.8	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°	2289.4	32.2
0°-40°	3749.1	52.8
0°-60°	6237.7	87.9
0°-90°	7099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2911	2911	2911	2911	2911	
5°	2871	2927	2904	2911	2937	273
15°	2790	2867	2911	2901	2864	788
25°	2634	2760	2574	2517	2530	1215
35°	2400	2443	2260	2270	2293	1503
45°	2096	1969	1956	1979	1996	1617
55°	1702	1559	1586	347	267	1520
65°	1238	1108	207	220	220	1219
75°	684	144	130	114	110	727
85°	160	40	33	27	27	192
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2910.6	2910.6	2910.6	2910.6	2910.6
2.5°	2873.9	2934.0	2904.0	2907.3	2917.3
5°	2870.6	2927.3	2904.0	2910.6	2937.3
7.5°	2857.2	2917.3	2904.0	2924.0	2954.0
10°	2837.2	2907.3	2904.0	2937.3	2967.4
12.5°	2817.2	2887.3	2904.0	2954.0	2980.7
15°	2790.5	2867.3	2910.6	2900.6	2863.9
17.5°	2757.1	2847.2	2894.0	2750.4	2747.1
20°	2723.7	2820.5	2800.5	2663.6	2650.3
22.5°	2680.3	2793.8	2663.6	2570.2	2586.9
25°	2633.6	2760.4	2573.5	2516.8	2530.1
27.5°	2583.5	2727.1	2476.7	2456.7	2473.4
30°	2526.8	2680.3	2403.3	2396.6	2416.6
32.5°	2466.7	2590.2	2333.2	2336.5	2359.9
35°	2399.9	2443.3	2259.8	2269.8	2293.1
37.5°	2333.2	2306.5	2189.7	2206.3	2229.7
40°	2259.8	2199.7	2116.2	2132.9	2159.6
42.5°	2179.6	2086.2	2036.1	2059.5	2082.8
45°	2096.2	1969.4	1956.0	1979.4	1996.1
47.5°	2009.4	1869.2	1872.6	1889.2	1415.3
50°	1912.6	1769.1	1782.4	1235.0	784.4
52.5°	1809.1	1665.6	1692.3	687.6	397.2
55°	1702.3	1558.8	1585.5	347.1	267.0
57.5°	1588.8	1452.0	1034.7	250.3	263.7
60°	1475.3	1338.5	527.4	247.0	253.7
62.5°	1358.5	1225.0	250.3	237.0	240.3
65°	1238.4	1108.2	206.9	220.3	220.3
67.5°	1104.8	984.7	196.9	196.9	193.6
70°	968.0	817.8	180.2	170.2	166.9
72.5°	841.1	313.8	156.9	140.2	136.9
75°	684.3	143.5	130.2	113.5	110.2
77.5°	544.1	120.2	103.5	90.1	86.8
80°	403.9	93.5	76.8	66.8	63.4
82.5°	280.4	63.4	53.4	43.4	43.4
85°	160.2	40.1	33.4	26.7	26.7
87.5°	63.4	20.0	16.7	10.0	10.0
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	23.13	24.65	23.49	24.96	25.28	10.89	12.41	11.26	12.73	13.04
	3H	25.15	26.51	25.53	26.83	27.20	13.21	14.57	13.59	14.89	15.26
	4H	25.61	26.88	26.01	27.23	27.61	13.92	15.19	14.32	15.54	15.92
	6H	26.02	27.19	26.43	27.56	27.95	14.40	15.58	14.82	15.94	16.34
	8H	26.17	27.28	26.59	27.67	28.07	14.54	15.66	14.97	16.05	16.45
	12H	26.26	27.33	26.70	27.71	28.14	14.63	15.70	15.06	16.08	16.51
4H	2H	22.97	24.24	23.37	24.59	24.97	11.69	12.96	12.09	13.31	13.69
	3H	25.17	26.22	25.58	26.62	27.02	14.20	15.25	14.61	15.65	16.05
	4H	25.62	26.56	26.05	26.97	27.41	15.02	15.96	15.46	16.38	16.82
	6H	26.09	26.90	26.54	27.34	27.80	15.61	16.43	16.07	16.87	17.33
	8H	26.28	27.04	26.74	27.48	27.95	15.78	16.55	16.25	16.99	17.46
	12H	26.43	27.11	26.91	27.59	28.06	15.90	16.58	16.38	17.06	17.53
8H	4H	25.54	26.30	26.00	26.74	27.21	15.86	16.62	16.33	17.07	17.53
	6H	26.00	26.63	26.50	27.12	27.60	16.48	17.11	16.98	17.60	18.08
	8H	26.20	26.76	26.71	27.27	27.76	16.68	17.25	17.20	17.76	18.25
	12H	26.38	26.88	26.89	27.38	27.94	16.84	17.34	17.35	17.84	18.40
12H	4H	25.51	26.19	25.99	26.67	27.14	15.93	16.61	16.42	17.09	17.56
	6H	25.95	26.52	26.47	27.03	27.52	16.58	17.14	17.09	17.65	18.14
	8H	26.17	26.68	26.68	27.17	27.73	16.83	17.33	17.34	17.82	18.39