

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: P895136

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895136
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-6SL-LVRF-UNV-L850
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 5000K C
Light Source: -
Ballast/Driver: -

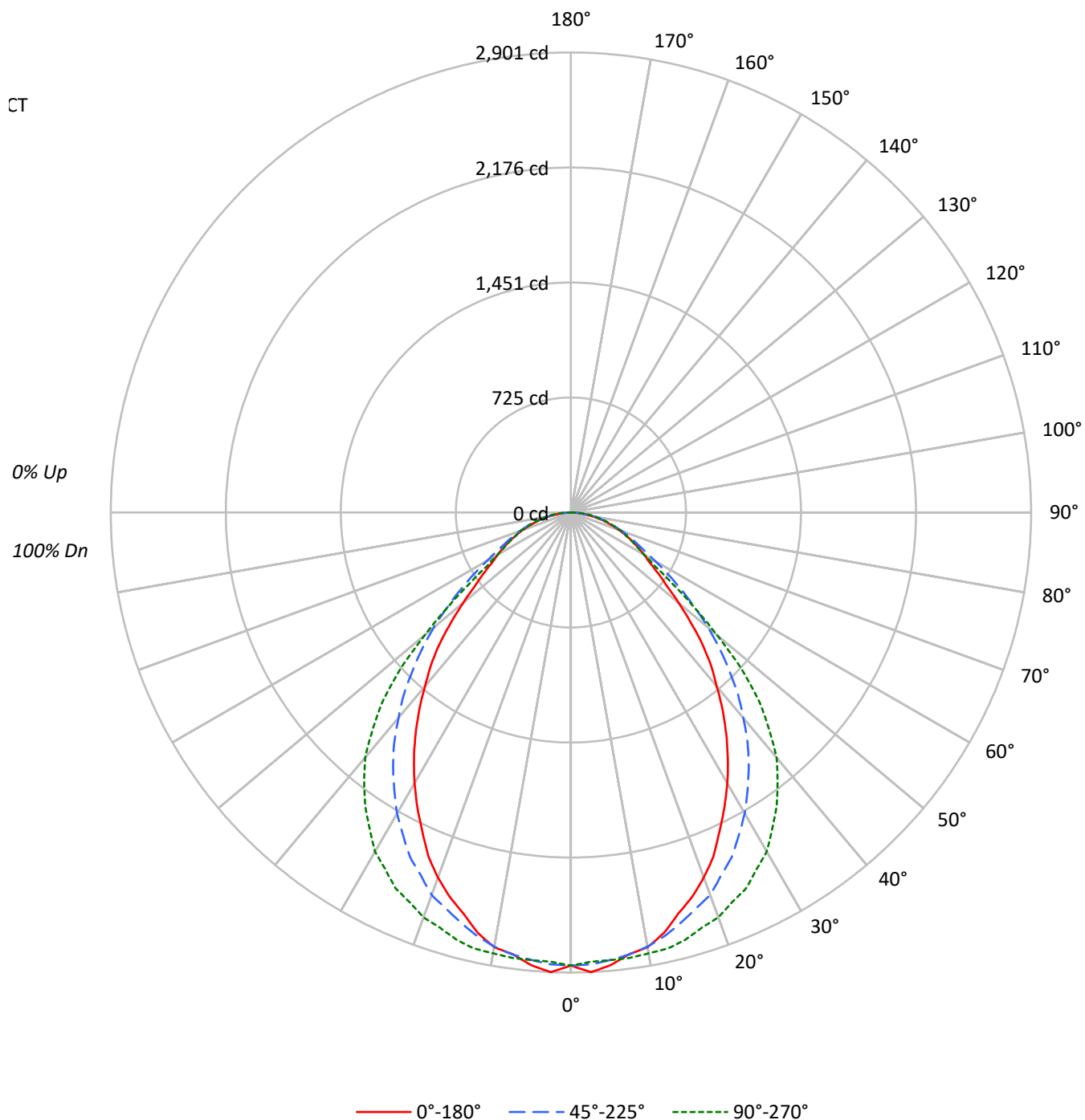
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5937.0 lumens
Efficiency: N/A
Efficacy: 140.7 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): 42.2
Input Voltage (V): 120
Input Current (Ain): 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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94		96	93	91		92	90	89	87
2	102	94	88	83	99	92	87	82	89	84	80		86	82	79		83	80	77	75
3	94	84	77	71	91	83	76	70	80	74	69		77	72	68		75	71	67	65
4	87	76	68	62	84	74	67	61	72	66	60		70	64	60		68	63	59	57
5	80	68	60	54	78	67	60	54	65	59	53		63	58	53		62	56	52	50
6	75	62	54	48	73	61	54	48	60	53	48		58	52	47		56	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43		53	47	42		52	46	42	40
8	65	52	44	39	63	52	44	39	50	44	39		49	43	38		48	42	38	36
9	61	48	41	35	60	48	40	35	47	40	35		46	39	35		45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32		42	36	32		42	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10136	10136	10136
5°	10206	10090	10090
10°	10030	10014	10169
15°	9614	9839	10242
20°	9249	9692	10259
25°	8677	9392	10236
30°	8076	8977	10115
35°	7393	8468	9793
40°	6619	7830	9344
45°	5874	7089	8401
50°	4887	6240	6626
55°	4163	5256	4815
60°	3774	4343	3806
65°	3555	3804	3542
70°	3345	3529	3452
75°	3116	3360	3300
80°	2852	3096	3188
85°	2479	2719	3566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8401 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.4	4.6
10°-20°	761.0	12.8
20°-30°	1105.2	18.6
30°-40°	1230.7	20.7
40°-50°	1087.3	18.3
50°-60°	713.4	12.0
60°-70°	436.9	7.4
70°-80°	254.2	4.3
80°-90°	77.9	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°	2136.7	36.0
0°-40°	3367.3	56.7
0°-60°	5168.0	87.0
0°-90°	5937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5937.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2857	2857	2857	2857	2857	
5°	2866	2867	2833	2861	2833	270
15°	2617	2647	2678	2784	2788	738
25°	2216	2270	2399	2552	2614	1020
35°	1707	1799	1955	2161	2261	1065
45°	1171	1242	1413	1603	1674	896
55°	673	720	850	842	778	610
65°	423	431	453	440	422	421
75°	227	230	245	250	241	241
85°	61	64	67	76	88	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2856.6	2856.6	2856.6	2856.6	2856.6
2.5°	2901.2	2865.5	2852.2	2865.5	2835.8
5°	2865.5	2867.0	2832.8	2861.1	2832.8
7.5°	2809.1	2828.4	2812.0	2855.1	2832.8
10°	2783.8	2785.3	2779.4	2823.9	2822.4
12.5°	2714.0	2718.5	2734.8	2801.6	2816.5
15°	2617.4	2647.2	2678.4	2783.8	2788.3
17.5°	2541.7	2577.3	2618.9	2731.8	2745.2
20°	2449.6	2464.4	2566.9	2666.5	2717.0
22.5°	2347.1	2375.3	2474.8	2608.5	2659.0
25°	2216.4	2269.8	2399.1	2552.1	2614.5
27.5°	2096.0	2158.4	2292.1	2463.0	2535.7
30°	1971.3	2042.6	2191.1	2359.0	2468.9
32.5°	1842.0	1931.1	2072.3	2265.4	2361.9
35°	1706.8	1798.9	1954.9	2161.4	2260.9
37.5°	1571.7	1660.8	1830.1	2051.5	2140.6
40°	1429.0	1516.7	1690.5	1914.8	2017.3
42.5°	1305.8	1381.5	1559.8	1751.4	1846.5
45°	1170.6	1241.9	1412.7	1602.9	1674.2
47.5°	1022.0	1105.2	1271.6	1427.6	1455.8
50°	885.4	971.5	1130.5	1221.1	1200.3
52.5°	765.0	837.8	983.4	1022.0	973.0
55°	672.9	720.5	849.7	842.3	778.4
57.5°	588.3	618.0	727.9	686.3	625.4
60°	531.8	545.2	612.0	573.4	536.3
62.5°	478.3	484.3	519.9	499.1	470.9
65°	423.4	430.8	453.1	439.7	421.9
67.5°	372.9	375.8	396.6	393.7	371.4
70°	322.4	326.8	340.2	346.1	332.8
72.5°	273.3	277.8	291.2	297.1	285.2
75°	227.3	230.3	245.1	249.6	240.7
77.5°	182.7	188.7	197.6	205.0	194.6
80°	139.6	142.6	151.5	160.4	156.0
82.5°	98.0	102.5	108.4	120.3	123.3
85°	60.9	63.9	66.8	75.8	87.6
87.5°	23.8	25.3	29.7	32.7	43.1
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	15.58	17.06	15.94	17.37	17.69	16.23	17.71	16.59	18.02	18.34
	3H	17.18	18.50	17.56	18.83	19.19	17.66	18.99	18.04	19.32	19.68
	4H	17.79	19.04	18.19	19.39	19.77	18.27	19.51	18.67	19.86	20.24
	6H	18.27	19.41	18.68	19.78	20.17	18.76	19.90	19.17	20.27	20.66
	8H	18.42	19.51	18.84	19.90	20.30	18.95	20.04	19.38	20.43	20.84
	12H	18.52	19.56	18.95	19.94	20.37	19.12	20.17	19.55	20.55	20.98
4H	2H	16.20	17.44	16.60	17.79	18.17	16.72	17.96	17.12	18.31	18.69
	3H	18.02	19.05	18.43	19.45	19.85	18.42	19.45	18.83	19.85	20.25
	4H	18.76	19.68	19.19	20.10	20.54	19.17	20.10	19.61	20.51	20.95
	6H	19.36	20.16	19.81	20.60	21.06	19.81	20.61	20.27	21.06	21.52
	8H	19.55	20.30	20.02	20.75	21.22	20.06	20.82	20.53	21.26	21.73
	12H	19.69	20.37	20.18	20.84	21.32	20.29	20.96	20.77	21.44	21.91
8H	4H	19.08	19.83	19.54	20.27	20.74	19.44	20.20	19.91	20.64	21.11
	6H	19.80	20.42	20.30	20.91	21.39	20.22	20.84	20.72	21.33	21.81
	8H	20.07	20.63	20.59	21.14	21.63	20.56	21.12	21.08	21.63	22.12
	12H	20.29	20.79	20.80	21.28	21.85	20.88	21.38	21.39	21.87	22.44
12H	4H	19.11	19.78	19.59	20.26	20.73	19.46	20.13	19.95	20.61	21.09
	6H	19.86	20.43	20.38	20.94	21.42	20.26	20.82	20.78	21.33	21.82
	8H	20.20	20.69	20.71	21.19	21.75	20.67	21.17	21.18	21.66	22.22