

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: P895135

Luminaire Tested: 8TMB-6SL-LVRF-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895135
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-L840
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 4000K C
Light Source: -
Ballast/Driver: -

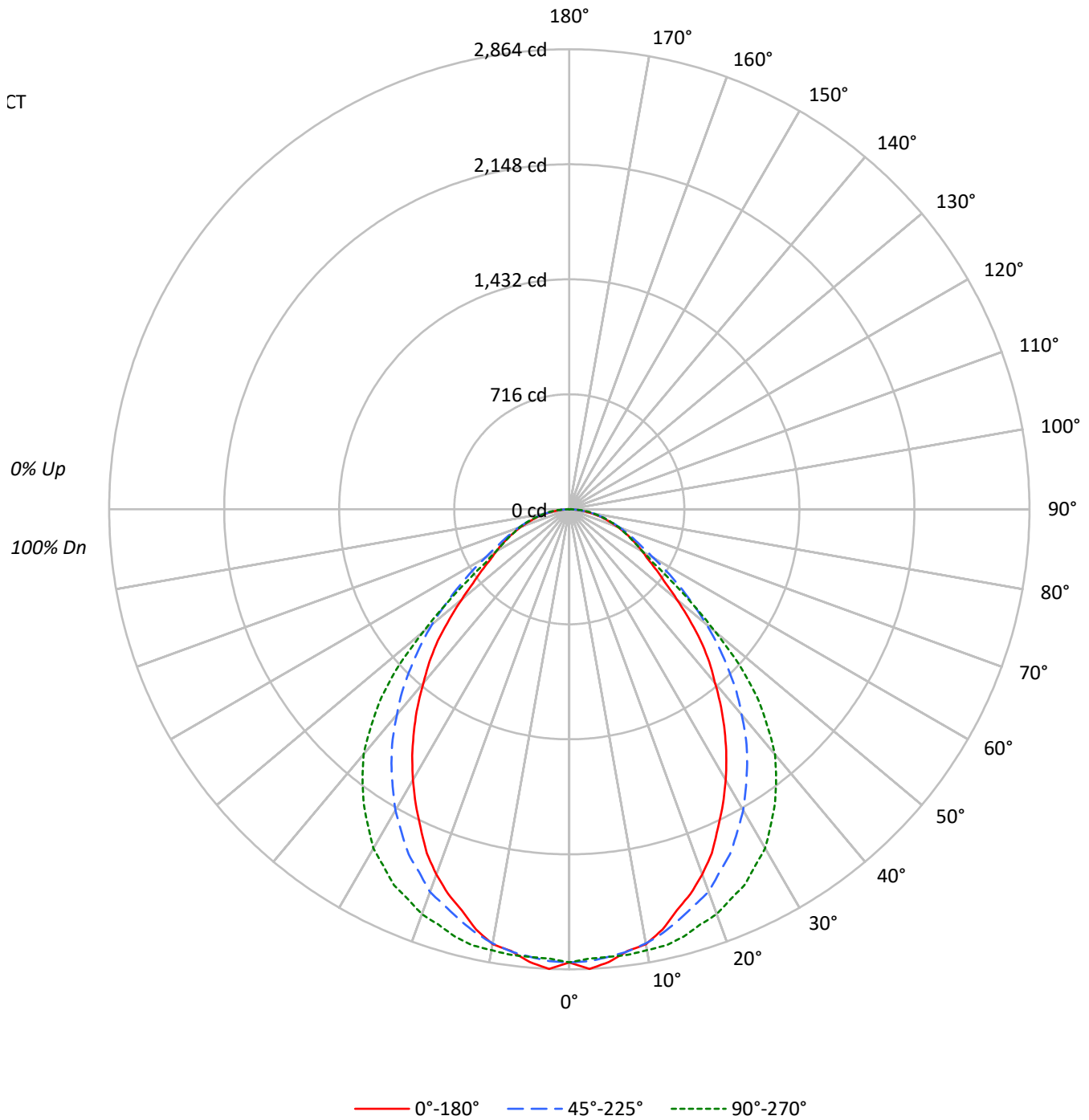
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5862.0 lumens
Efficiency: N/A
Efficacy: 138.9 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 (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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CATALOG NUMBER: 8TMB-6SL-LVRF-UNV-L840

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	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	100	100	97	97	97	94	94	94	91	91	91	87																
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	84	84	84	82	82	82	80	80	80	75																
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	75	71	71	71	67	67	67	65	65	65	65																
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	65	65	65	61	61	61	57	57	57	55	55	55	55																
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57	57	57	53	53	53	49	49	49	47	47	47	45																
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50	50	50	46	46	46	42	42	42	40	40	40	40																
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45	45	45	41	41	41	37	37	37	35	35	35	33																
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40	36	36	36	32	32	32	30	30	30	30																
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	36	36	36	32	32	32	28	28	28	26	26	26	26																
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33	33	33	29	29	29	25	25	25	23	23	23	23																
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	26	26	26	22	22	22	20	20	20	20																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10008	10008	10008
5°	10077	9962	9962
10°	9903	9887	10040
15°	9493	9714	10113
20°	9132	9570	10129
25°	8567	9274	10106
30°	7974	8864	9987
35°	7300	8361	9670
40°	6535	7731	9226
45°	5800	6999	8294
50°	4826	6161	6542
55°	4110	5190	4755
60°	3726	4288	3757
65°	3509	3756	3498
70°	3302	3485	3408
75°	3076	3318	3257
80°	2818	3057	3147
85°	2447	2687	3521

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8294 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.0	4.6
10°-20°	751.4	12.8
20°-30°	1091.2	18.6
30°-40°	1215.1	20.7
40°-50°	1073.5	18.3
50°-60°	704.4	12.0
60°-70°	431.4	7.4
70°-80°	251.0	4.3
80°-90°	76.9	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°	2109.7	36.0
0°-40°	3324.8	56.7
0°-60°	5102.8	87.0
0°-90°	5862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2820	2820	2820	2820	2820	
5°	2829	2831	2797	2825	2797	267
15°	2584	2614	2644	2749	2753	729
25°	2188	2241	2369	2520	2581	1007
35°	1685	1776	1930	2134	2232	1051
45°	1156	1226	1395	1583	1653	884
55°	664	711	839	832	769	603
65°	418	425	447	434	417	416
75°	224	227	242	246	238	238
85°	60	63	66	75	86	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2820.5	2820.5	2820.5	2820.5	2820.5
2.5°	2864.5	2829.3	2816.1	2829.3	2800.0
5°	2829.3	2830.8	2797.1	2824.9	2797.1
7.5°	2773.6	2792.7	2776.5	2819.1	2797.1
10°	2748.7	2750.1	2744.3	2788.3	2786.8
12.5°	2679.7	2684.1	2700.3	2766.3	2780.9
15°	2584.4	2613.7	2644.5	2748.7	2753.1
17.5°	2509.6	2544.8	2585.8	2697.3	2710.5
20°	2418.6	2433.3	2534.5	2632.8	2682.7
22.5°	2317.4	2345.3	2443.6	2575.6	2625.5
25°	2188.4	2241.2	2368.8	2519.8	2581.4
27.5°	2069.6	2131.2	2263.2	2431.8	2503.7
30°	1946.4	2016.8	2163.4	2329.2	2437.7
32.5°	1818.7	1906.8	2046.1	2236.8	2332.1
35°	1685.3	1776.2	1930.2	2134.1	2232.4
37.5°	1551.8	1639.8	1807.0	2025.6	2113.6
40°	1411.0	1497.5	1669.1	1890.6	1991.8
42.5°	1289.3	1364.1	1540.1	1729.3	1823.1
45°	1155.8	1226.2	1394.9	1582.6	1653.0
47.5°	1009.1	1091.2	1255.5	1409.5	1437.4
50°	874.2	959.2	1116.2	1205.7	1185.1
52.5°	755.4	827.2	971.0	1009.1	960.7
55°	664.4	711.4	839.0	831.6	768.6
57.5°	580.8	610.2	718.7	677.6	617.5
60°	525.1	538.3	604.3	566.2	529.5
62.5°	472.3	478.2	513.4	492.8	465.0
65°	418.0	425.4	447.4	434.2	416.6
67.5°	368.1	371.1	391.6	388.7	366.7
70°	318.3	322.7	335.9	341.7	328.5
72.5°	269.9	274.3	287.5	293.3	281.6
75°	224.4	227.3	242.0	246.4	237.6
77.5°	180.4	186.3	195.1	202.4	192.1
80°	137.9	140.8	149.6	158.4	154.0
82.5°	96.8	101.2	107.1	118.8	121.7
85°	60.1	63.1	66.0	74.8	86.5
87.5°	23.5	24.9	29.3	32.3	42.5
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	15.53	17.01	15.90	17.33	17.64	16.18	17.67	16.55	17.98	18.29
	3H	17.13	18.46	17.51	18.79	19.15	17.62	18.95	18.00	19.27	19.64
	4H	17.75	18.99	18.15	19.34	19.72	18.22	19.47	18.63	19.82	20.20
	6H	18.22	19.37	18.63	19.74	20.13	18.71	19.86	19.12	20.23	20.62
	8H	18.37	19.46	18.80	19.85	20.26	18.91	20.00	19.34	20.39	20.79
	12H	18.47	19.52	18.90	19.90	20.33	19.08	20.12	19.51	20.50	20.93
4H	2H	16.15	17.40	16.56	17.75	18.13	16.68	17.92	17.08	18.27	18.65
	3H	17.97	19.00	18.39	19.40	19.81	18.37	19.40	18.79	19.80	20.21
	4H	18.71	19.64	19.15	20.05	20.49	19.13	20.05	19.56	20.47	20.91
	6H	19.31	20.12	19.77	20.56	21.02	19.76	20.57	20.22	21.01	21.47
	8H	19.51	20.26	19.97	20.71	21.17	20.02	20.77	20.48	21.22	21.68
	12H	19.65	20.32	20.13	20.80	21.27	20.24	20.91	20.73	21.39	21.87
8H	4H	19.03	19.78	19.50	20.23	20.70	19.40	20.15	19.86	20.60	21.06
	6H	19.76	20.38	20.25	20.87	21.35	20.17	20.80	20.67	21.29	21.77
	8H	20.03	20.59	20.54	21.10	21.59	20.52	21.08	21.03	21.59	22.08
	12H	20.25	20.74	20.76	21.24	21.80	20.84	21.33	21.35	21.83	22.39
12H	4H	19.07	19.74	19.55	20.22	20.69	19.42	20.09	19.90	20.57	21.04
	6H	19.82	20.38	20.33	20.89	21.38	20.22	20.78	20.73	21.29	21.78
	8H	20.15	20.65	20.66	21.14	21.71	20.62	21.12	21.13	21.61	22.18