

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: P895120

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-6SL-LVR-UNV-L850
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

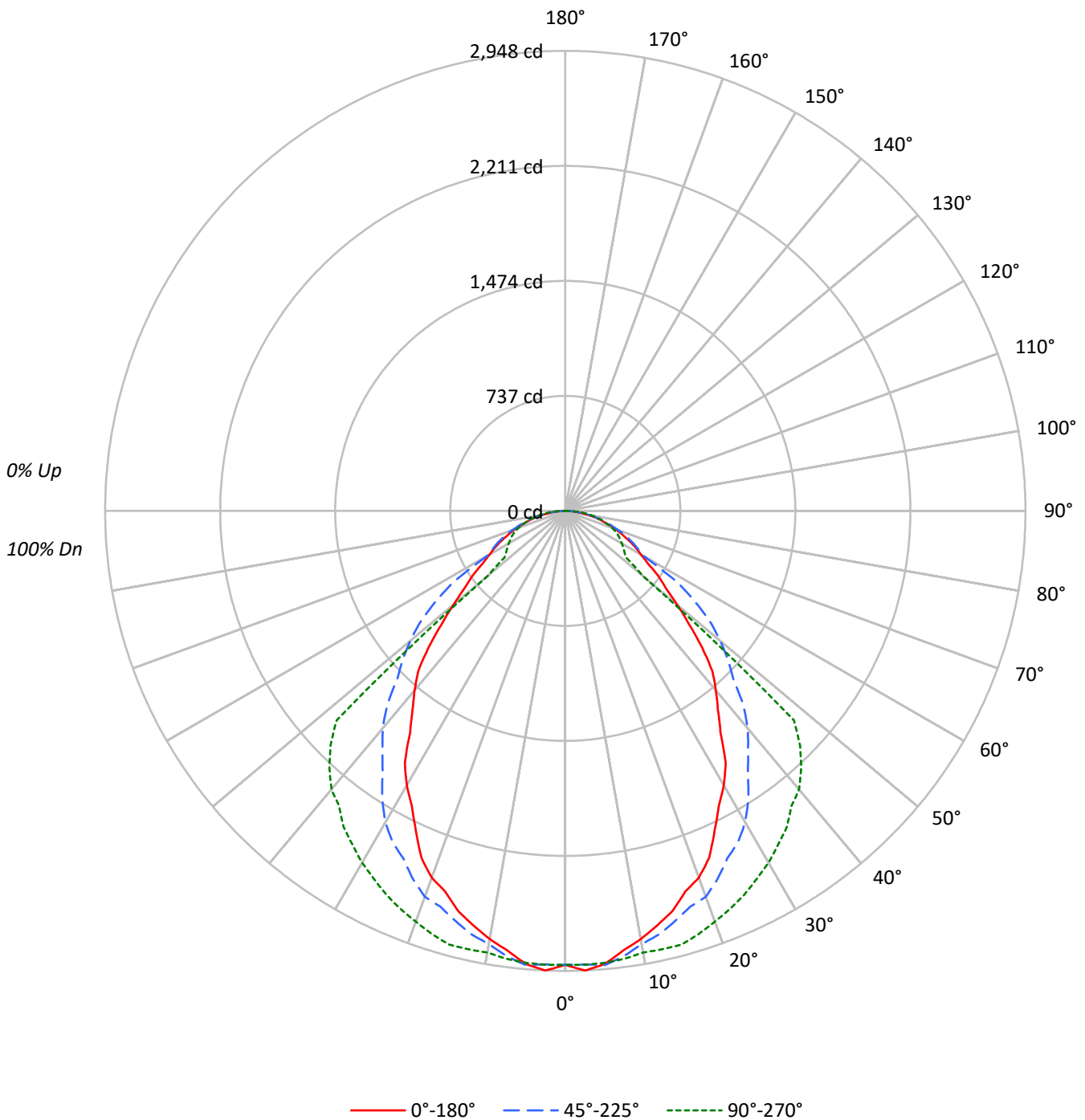
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6209.0 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.33 / 1.27
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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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	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10323	10323	10323
5°	10379	10405	10352
10°	10038	10156	10354
15°	9749	9994	10568
20°	9443	9937	10577
25°	8860	9616	10623
30°	8322	9443	10666
35°	7505	8831	10717
40°	6951	8424	10792
45°	6219	7635	10670
50°	5159	7153	3585
55°	4495	6278	2868
60°	3975	4092	2973
65°	3781	3980	3157
70°	3546	3762	3330
75°	3300	3545	3422
80°	3006	3341	3582
85°	2662	2842	3872

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10670 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.0	4.4
10°-20°	776.4	12.5
20°-30°	1142.0	18.4
30°-40°	1306.0	21.0
40°-50°	1236.7	19.9
50°-60°	681.4	11.0
60°-70°	437.5	7.0
70°-80°	270.0	4.3
80°-90°	83.1	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°	2194.4	35.3
0°-40°	3500.4	56.4
0°-60°	5418.5	87.3
0°-90°	6209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2910	2910	2910	2910	2910	
5°	2914	2938	2921	2921	2907	273
15°	2654	2687	2721	2864	2877	745
25°	2263	2364	2456	2617	2713	1042
35°	1733	1881	2039	2334	2474	1095
45°	1239	1357	1522	1953	2126	948
55°	727	762	1015	523	464	650
65°	450	465	474	422	376	446
75°	241	245	259	272	250	256
85°	65	65	70	80	95	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2909.5	2909.5	2909.5	2909.5	2909.5
2.5°	2948.2	2955.6	2908.1	2906.6	2911.0
5°	2914.0	2937.8	2921.4	2921.4	2906.6
7.5°	2841.2	2881.3	2876.9	2911.0	2894.7
10°	2786.2	2818.9	2818.9	2908.1	2873.9
12.5°	2720.8	2758.0	2778.8	2872.4	2876.9
15°	2654.0	2686.7	2720.8	2863.5	2876.9
17.5°	2557.4	2616.8	2659.9	2799.6	2842.7
20°	2500.9	2536.6	2631.7	2744.6	2801.1
22.5°	2407.3	2459.3	2551.4	2677.7	2760.9
25°	2263.1	2364.2	2456.3	2616.8	2713.4
27.5°	2129.4	2205.2	2395.4	2564.8	2656.9
30°	2031.3	2090.8	2304.8	2489.0	2603.4
32.5°	1912.5	2009.0	2182.9	2414.7	2536.6
35°	1732.7	1881.2	2038.8	2334.5	2474.2
37.5°	1606.3	1708.9	1922.9	2251.3	2380.5
40°	1500.8	1594.5	1818.8	2147.2	2330.0
42.5°	1395.3	1471.1	1688.1	2070.0	2236.4
45°	1239.3	1356.7	1521.6	1952.6	2126.4
47.5°	1075.8	1200.7	1413.2	1853.0	1986.8
50°	934.7	1034.2	1295.8	1655.4	649.4
52.5°	811.3	903.5	1171.0	598.8	490.4
55°	726.6	762.3	1014.9	523.1	463.6
57.5°	625.6	683.6	851.5	497.8	439.8
60°	560.2	585.5	576.6	472.5	419.0
62.5°	508.2	526.0	523.1	447.3	395.3
65°	450.3	465.1	474.0	422.0	376.0
67.5°	392.3	405.7	419.0	390.8	349.2
70°	341.8	350.7	362.6	353.7	321.0
72.5°	289.8	300.2	307.6	315.0	283.8
75°	240.7	245.2	258.6	271.9	249.6
77.5°	196.1	200.6	209.5	224.4	212.5
80°	147.1	151.6	163.5	175.3	175.3
82.5°	104.0	107.0	114.4	130.8	138.2
85°	65.4	65.4	69.8	80.2	95.1
87.5°	25.3	25.3	29.7	35.7	47.6
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	16.06	17.54	16.43	17.86	18.17	13.86	15.35	14.23	15.66	15.97
	3H	17.59	18.91	17.97	19.24	19.60	16.19	17.52	16.57	17.85	18.21
	4H	18.18	19.42	18.58	19.77	20.15	17.14	18.39	17.54	18.74	19.11
	6H	18.64	19.78	19.05	20.15	20.54	17.93	19.07	18.34	19.44	19.83
	8H	18.78	19.87	19.21	20.26	20.66	18.24	19.33	18.67	19.72	20.12
	12H	18.88	19.92	19.31	20.30	20.73	18.49	19.53	18.92	19.91	20.34
4H	2H	16.61	17.85	17.01	18.20	18.58	14.97	16.21	15.37	16.56	16.94
	3H	18.38	19.41	18.79	19.81	20.21	17.41	18.44	17.82	18.84	19.24
	4H	19.10	20.03	19.54	20.45	20.88	18.48	19.40	18.91	19.82	20.26
	6H	19.69	20.49	20.15	20.94	21.40	19.37	20.17	19.83	20.62	21.08
	8H	19.88	20.63	20.34	21.08	21.54	19.72	20.47	20.18	20.92	21.38
	12H	20.02	20.69	20.50	21.17	21.64	20.01	20.68	20.49	21.16	21.63
8H	4H	19.41	20.16	19.87	20.61	21.08	18.87	19.62	19.33	20.06	20.53
	6H	20.12	20.75	20.62	21.24	21.72	19.90	20.53	20.40	21.02	21.50
	8H	20.38	20.95	20.90	21.46	21.94	20.35	20.91	20.86	21.42	21.91
	12H	20.59	21.09	21.10	21.58	22.15	20.73	21.23	21.24	21.72	22.29
12H	4H	19.45	20.12	19.93	20.60	21.07	18.90	19.57	19.38	20.05	20.52
	6H	20.19	20.75	20.70	21.26	21.75	19.96	20.53	20.48	21.04	21.53
	8H	20.51	21.01	21.02	21.50	22.06	20.47	20.97	20.98	21.46	22.03