

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: P895118

Luminaire Tested: 8TMB-6SL-LVR-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895118
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-L835
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

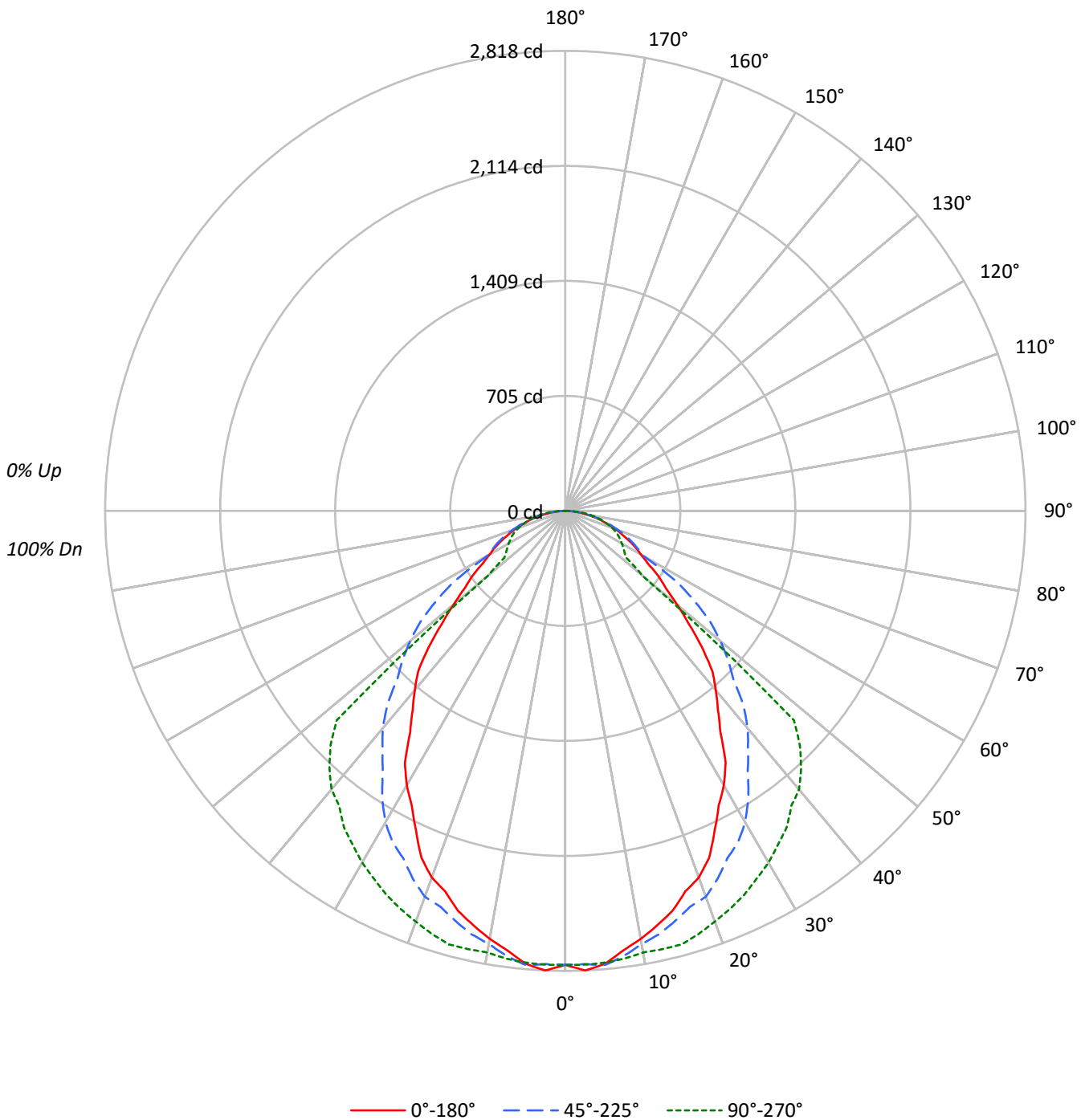
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5934.0 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 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°	9866	9866	9866
5°	9919	9944	9894
10°	9594	9706	9896
15°	9317	9552	10099
20°	9025	9497	10108
25°	8468	9190	10152
30°	7954	9025	10194
35°	7172	8440	10242
40°	6644	8051	10314
45°	5943	7297	10198
50°	4931	6836	3426
55°	4296	6000	2741
60°	3799	3910	2842
65°	3613	3803	3017
70°	3388	3595	3183
75°	3154	3387	3271
80°	2873	3192	3425
85°	2544	2715	3701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10198 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.7	4.4
10°-20°	742.0	12.5
20°-30°	1091.5	18.4
30°-40°	1248.2	21.0
40°-50°	1181.9	19.9
50°-60°	651.2	11.0
60°-70°	418.1	7.0
70°-80°	258.0	4.3
80°-90°	79.4	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°	2097.2	35.3
0°-40°	3345.4	56.4
0°-60°	5178.5	87.3
0°-90°	5934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2781	2781	2781	2781	2781	
5°	2785	2808	2792	2792	2778	261
15°	2536	2568	2600	2737	2749	712
25°	2163	2260	2348	2501	2593	996
35°	1656	1798	1948	2231	2365	1047
45°	1184	1297	1454	1866	2032	906
55°	694	728	970	500	443	621
65°	430	444	453	403	359	426
75°	230	234	247	260	239	245
85°	62	62	67	77	91	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2780.7	2780.7	2780.7	2780.7	2780.7
2.5°	2817.6	2824.7	2779.3	2777.8	2782.1
5°	2784.9	2807.7	2792.0	2792.0	2777.8
7.5°	2715.4	2753.7	2749.4	2782.1	2766.5
10°	2662.8	2694.1	2694.1	2779.3	2746.6
12.5°	2600.3	2635.8	2655.7	2745.2	2749.4
15°	2536.4	2567.7	2600.3	2736.7	2749.4
17.5°	2444.1	2500.9	2542.1	2675.6	2716.8
20°	2390.1	2424.2	2515.1	2623.0	2677.0
22.5°	2300.7	2350.4	2438.4	2559.1	2638.7
25°	2162.9	2259.5	2347.5	2500.9	2593.2
27.5°	2035.1	2107.5	2289.3	2451.2	2539.3
30°	1941.4	1998.2	2202.7	2378.8	2488.1
32.5°	1827.8	1920.1	2086.2	2307.8	2424.2
35°	1655.9	1797.9	1948.5	2231.1	2364.6
37.5°	1535.2	1633.2	1837.7	2151.5	2275.1
40°	1434.4	1523.8	1738.3	2052.1	2226.8
42.5°	1333.5	1406.0	1613.3	1978.3	2137.3
45°	1184.4	1296.6	1454.2	1866.1	2032.3
47.5°	1028.2	1147.5	1350.6	1770.9	1898.8
50°	893.3	988.4	1238.4	1582.1	620.6
52.5°	775.4	863.5	1119.1	572.3	468.7
55°	694.5	728.5	970.0	499.9	443.1
57.5°	597.9	653.3	813.8	475.8	420.4
60°	535.4	559.5	551.0	451.6	400.5
62.5°	485.7	502.7	499.9	427.5	377.8
65°	430.3	444.5	453.0	403.3	359.3
67.5°	374.9	387.7	400.5	373.5	333.7
70°	326.6	335.2	346.5	338.0	306.8
72.5°	276.9	286.9	294.0	301.1	271.3
75°	230.1	234.3	247.1	259.9	238.6
77.5°	187.5	191.7	200.2	214.4	203.1
80°	140.6	144.9	156.2	167.6	167.6
82.5°	99.4	102.3	109.4	125.0	132.1
85°	62.5	62.5	66.7	76.7	90.9
87.5°	24.1	24.1	28.4	34.1	45.4
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	15.90	17.39	16.27	17.70	18.01	13.71	15.19	14.07	15.50	15.82
	3H	17.43	18.76	17.81	19.08	19.45	16.04	17.36	16.41	17.69	18.05
	4H	18.02	19.26	18.42	19.61	19.99	16.99	18.23	17.39	18.58	18.96
	6H	18.48	19.63	18.89	19.99	20.39	17.77	18.92	18.18	19.29	19.68
	8H	18.62	19.72	19.05	20.11	20.51	18.08	19.17	18.51	19.56	19.97
	12H	18.72	19.76	19.15	20.15	20.58	18.33	19.38	18.76	19.76	20.19
4H	2H	16.45	17.70	16.85	18.05	18.43	14.81	16.05	15.21	16.40	16.78
	3H	18.23	19.25	18.64	19.66	20.06	17.26	18.28	17.67	18.68	19.09
	4H	18.95	19.87	19.38	20.29	20.73	18.32	19.25	18.75	19.66	20.10
	6H	19.53	20.34	19.99	20.78	21.24	19.21	20.02	19.67	20.46	20.92
	8H	19.72	20.47	20.18	20.92	21.39	19.56	20.31	20.03	20.76	21.23
	12H	19.86	20.53	20.34	21.01	21.48	19.85	20.52	20.33	21.00	21.47
8H	4H	19.25	20.01	19.72	20.45	20.92	18.71	19.46	19.17	19.91	20.37
	6H	19.96	20.59	20.46	21.08	21.56	19.74	20.37	20.24	20.86	21.34
	8H	20.23	20.79	20.74	21.30	21.79	20.19	20.75	20.70	21.26	21.75
	12H	20.43	20.93	20.95	21.43	21.99	20.57	21.07	21.08	21.56	22.13
12H	4H	19.29	19.96	19.77	20.44	20.91	18.74	19.42	19.23	19.90	20.37
	6H	20.03	20.59	20.54	21.10	21.59	19.81	20.37	20.32	20.88	21.37
	8H	20.35	20.85	20.86	21.34	21.91	20.32	20.82	20.83	21.31	21.87