

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: P895137

Luminaire Tested: 8TMB-6SL-LVRF-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895137
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-L930
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3000K C
Light Source: -
Ballast/Driver: -

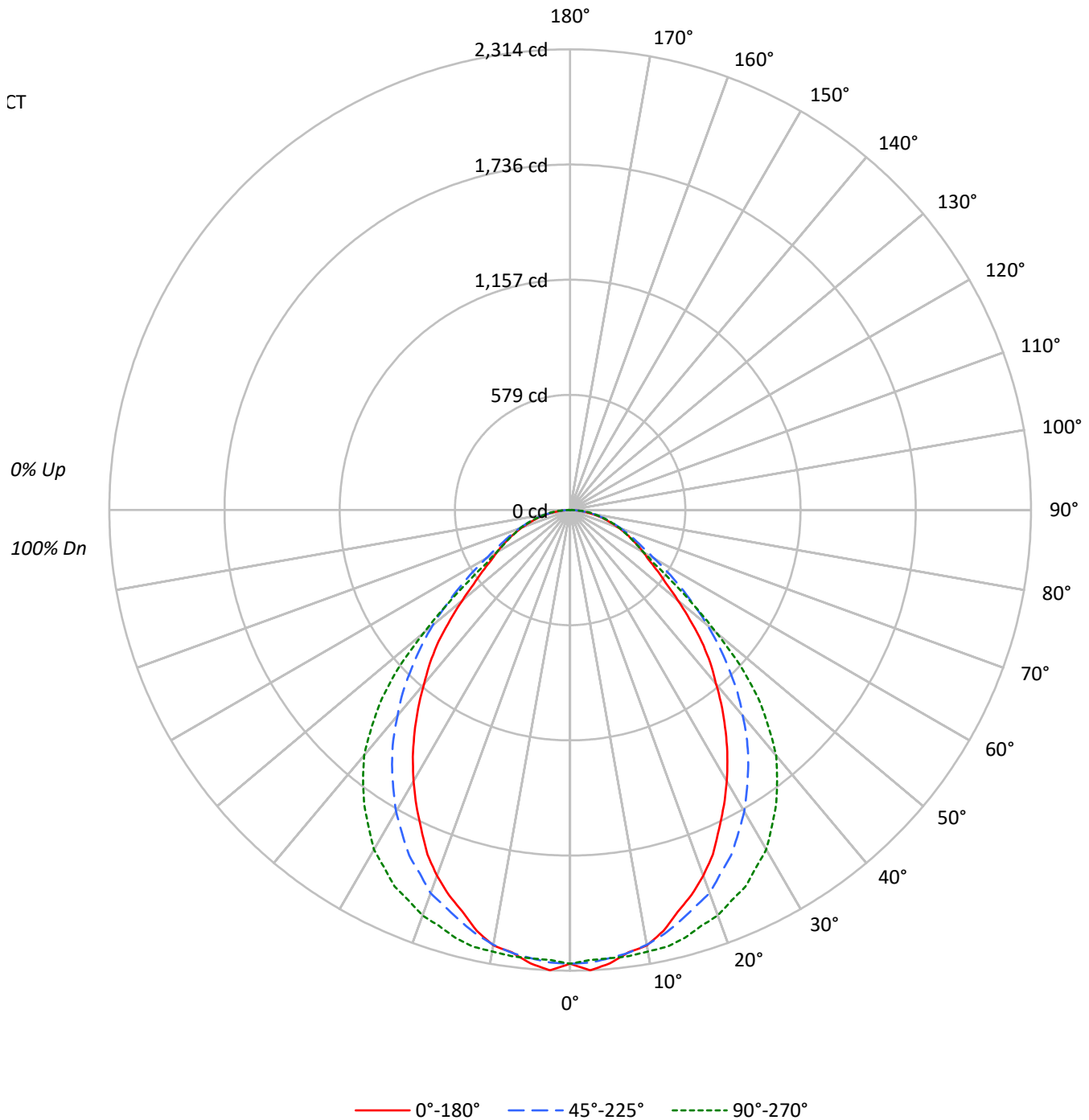
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4736.0 lumens
Efficiency: N/A
Efficacy: 112.2 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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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	67	65	
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	40	
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	38	36	
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8085	8085	8085
5°	8142	8049	8049
10°	8001	7988	8112
15°	7670	7848	8170
20°	7378	7732	8184
25°	6922	7492	8165
30°	6443	7161	8069
35°	5898	6755	7812
40°	5280	6246	7453
45°	4686	5655	6701
50°	3899	4978	5285
55°	3321	4193	3841
60°	3010	3464	3036
65°	2835	3034	2825
70°	2667	2816	2753
75°	2485	2680	2632
80°	2276	2470	2542
85°	1979	2170	2846

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6701 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.7	4.6
10°-20°	607.1	12.8
20°-30°	881.6	18.6
30°-40°	981.7	20.7
40°-50°	867.3	18.3
50°-60°	569.1	12.0
60°-70°	348.5	7.4
70°-80°	202.8	4.3
80°-90°	62.1	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°	1704.4	36.0
0°-40°	2686.2	56.7
0°-60°	4122.6	87.0
0°-90°	4736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2279	2279	2279	2279	2279	
5°	2286	2287	2260	2282	2260	216
15°	2088	2112	2136	2221	2224	589
25°	1768	1811	1914	2036	2086	813
35°	1362	1435	1560	1724	1804	849
45°	934	991	1127	1279	1336	714
55°	537	575	678	672	621	487
65°	338	344	361	351	336	336
75°	181	184	196	199	192	192
85°	49	51	53	60	70	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2278.7	2278.7	2278.7	2278.7	2278.7
2.5°	2314.3	2285.9	2275.2	2285.9	2262.2
5°	2285.9	2287.0	2259.8	2282.3	2259.8
7.5°	2240.8	2256.2	2243.2	2277.6	2259.8
10°	2220.7	2221.9	2217.1	2252.7	2251.5
12.5°	2165.0	2168.5	2181.6	2234.9	2246.8
15°	2088.0	2111.7	2136.5	2220.7	2224.2
17.5°	2027.5	2056.0	2089.1	2179.2	2189.9
20°	1954.1	1965.9	2047.7	2127.1	2167.4
22.5°	1872.3	1894.8	1974.2	2080.9	2121.1
25°	1768.0	1810.7	1913.8	2035.8	2085.6
27.5°	1672.0	1721.8	1828.4	1964.7	2022.8
30°	1572.5	1629.4	1747.9	1881.8	1969.5
32.5°	1469.4	1540.5	1653.1	1807.1	1884.1
35°	1361.6	1435.0	1559.5	1724.2	1803.6
37.5°	1253.7	1324.8	1459.9	1636.5	1707.6
40°	1140.0	1209.9	1348.5	1527.5	1609.2
42.5°	1041.6	1102.0	1244.2	1397.1	1472.9
45°	933.8	990.7	1126.9	1278.6	1335.5
47.5°	815.3	881.6	1014.4	1138.8	1161.3
50°	706.3	775.0	901.8	974.1	957.5
52.5°	610.3	668.3	784.5	815.3	776.2
55°	536.8	574.7	677.8	671.9	620.9
57.5°	469.3	493.0	580.6	547.5	498.9
60°	424.2	434.9	488.2	457.4	427.8
62.5°	381.6	386.3	414.7	398.2	375.6
65°	337.7	343.6	361.4	350.8	336.5
67.5°	297.4	299.8	316.4	314.0	296.2
70°	257.1	260.7	271.4	276.1	265.4
72.5°	218.0	221.6	232.3	237.0	227.5
75°	181.3	183.7	195.5	199.1	192.0
77.5°	145.8	150.5	157.6	163.5	155.2
80°	111.4	113.8	120.9	128.0	124.4
82.5°	78.2	81.8	86.5	96.0	98.4
85°	48.6	51.0	53.3	60.4	69.9
87.5°	19.0	20.1	23.7	26.1	34.4
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	14.79	16.27	15.16	16.59	16.90	15.44	16.92	15.81	17.24	17.55
	3H	16.39	17.72	16.77	18.05	18.41	16.88	18.20	17.26	18.53	18.90
	4H	17.01	18.25	17.41	18.60	18.98	17.48	18.73	17.88	19.08	19.45
	6H	17.48	18.63	17.89	18.99	19.39	17.97	19.12	18.38	19.48	19.88
	8H	17.63	18.72	18.06	19.11	19.52	18.17	19.26	18.59	19.65	20.05
	12H	17.73	18.78	18.16	19.16	19.59	18.34	19.38	18.77	19.76	20.19
4H	2H	15.41	16.66	15.81	17.01	17.38	15.94	17.18	16.34	17.53	17.91
	3H	17.23	18.26	17.64	18.66	19.06	17.63	18.66	18.04	19.06	19.46
	4H	17.97	18.90	18.41	19.31	19.75	18.39	19.31	18.82	19.73	20.17
	6H	18.57	19.37	19.03	19.82	20.28	19.02	19.83	19.48	20.27	20.73
	8H	18.77	19.52	19.23	19.96	20.43	19.28	20.03	19.74	20.47	20.94
	12H	18.91	19.58	19.39	20.06	20.53	19.50	20.17	19.98	20.65	21.12
8H	4H	18.29	19.04	18.75	19.49	19.96	18.66	19.41	19.12	19.85	20.32
	6H	19.01	19.64	19.51	20.13	20.61	19.43	20.06	19.93	20.55	21.03
	8H	19.29	19.85	19.80	20.36	20.85	19.78	20.34	20.29	20.85	21.34
	12H	19.51	20.00	20.02	20.50	21.06	20.10	20.59	20.61	21.08	21.65
12H	4H	18.33	19.00	18.81	19.48	19.95	18.68	19.35	19.16	19.83	20.30
	6H	19.08	19.64	19.59	20.15	20.64	19.48	20.04	19.99	20.55	21.04
	8H	19.41	19.91	19.92	20.40	20.97	19.88	20.38	20.39	20.87	21.44