

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: P895146

Luminaire Tested: 8TMB-6SL-RFLW-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-6SL-RFLW-UNV-L935
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K
Light Source: -
Ballast/Driver: -

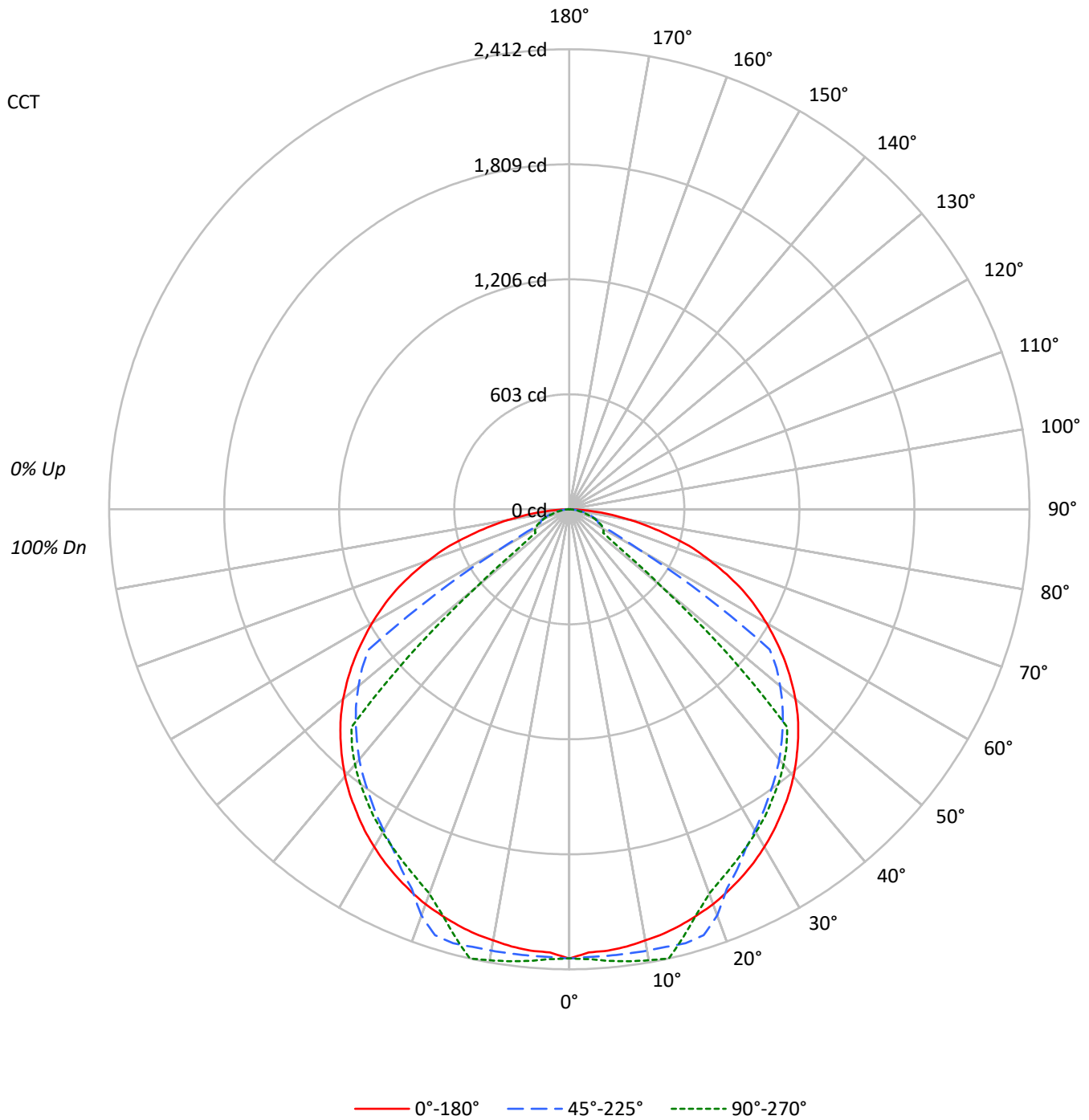
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5744.0 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38
Luminous Opening: Rectangular (W 0.21' 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	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	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	77	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	58	58	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	51	51	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	45	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	40	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	36	36	36	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	33	33	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15250	15250	15250
5°	15098	15273	15449
10°	15095	15450	15787
15°	15137	15788	15535
20°	15186	15615	14777
25°	15225	14878	14627
30°	15287	14540	14621
35°	15351	14454	14667
40°	15456	14474	14771
45°	15532	14494	14791
50°	15590	14529	6394
55°	15550	14483	2440
60°	15459	5526	2659
65°	15353	2565	2732
70°	14828	2760	2556
75°	13853	2635	2229
80°	12187	2316	1913
85°	9629	2006	1605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 15590 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	3.9
10°-20°	653.1	11.4
20°-30°	974.4	17.0
30°-40°	1181.1	20.6
40°-50°	1209.4	21.1
50°-60°	804.3	14.0
60°-70°	458.4	8.0
70°-80°	192.6	3.4
80°-90°	45.9	0.8
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°	1852.4	32.2
0°-40°	3033.5	52.8
0°-60°	5047.1	87.9
0°-90°	5744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2355	2355	2355	2355	2355	
5°	2323	2369	2350	2355	2377	221
15°	2258	2320	2355	2347	2317	638
25°	2131	2234	2082	2036	2047	983
35°	1942	1977	1828	1836	1855	1216
45°	1696	1594	1583	1602	1615	1308
55°	1377	1261	1283	281	216	1230
65°	1002	897	167	178	178	986
75°	554	116	105	92	89	588
85°	130	32	27	22	22	155
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2355.1	2355.1	2355.1	2355.1	2355.1
2.5°	2325.4	2374.0	2349.7	2352.4	2360.5
5°	2322.7	2368.6	2349.7	2355.1	2376.7
7.5°	2311.9	2360.5	2349.7	2365.9	2390.2
10°	2295.7	2352.4	2349.7	2376.7	2401.0
12.5°	2279.5	2336.2	2349.7	2390.2	2411.8
15°	2257.9	2320.0	2355.1	2347.0	2317.3
17.5°	2230.8	2303.8	2341.6	2225.4	2222.7
20°	2203.8	2282.2	2266.0	2155.2	2144.4
22.5°	2168.7	2260.6	2155.2	2079.6	2093.1
25°	2130.9	2233.5	2082.3	2036.4	2047.2
27.5°	2090.4	2206.5	2004.0	1987.8	2001.3
30°	2044.5	2168.7	1944.6	1939.2	1955.4
32.5°	1995.9	2095.8	1887.8	1890.5	1909.5
35°	1941.9	1977.0	1828.4	1836.5	1855.4
37.5°	1887.8	1866.2	1771.7	1785.2	1804.1
40°	1828.4	1779.8	1712.3	1725.8	1747.4
42.5°	1763.6	1688.0	1647.5	1666.4	1685.3
45°	1696.1	1593.5	1582.7	1601.6	1615.1
47.5°	1625.9	1512.4	1515.1	1528.6	1145.1
50°	1547.5	1431.4	1442.2	999.3	634.7
52.5°	1463.8	1347.7	1369.3	556.4	321.4
55°	1377.4	1261.3	1282.9	280.9	216.1
57.5°	1285.6	1174.8	837.2	202.6	213.4
60°	1193.7	1083.0	426.7	199.9	205.3
62.5°	1099.2	991.2	202.6	191.8	194.5
65°	1002.0	896.7	167.4	178.3	178.3
67.5°	894.0	796.7	159.3	159.3	156.6
70°	783.2	661.7	145.8	137.7	135.0
72.5°	680.6	253.9	126.9	113.4	110.7
75°	553.7	116.1	105.3	91.8	89.1
77.5°	440.2	97.2	83.7	72.9	70.2
80°	326.8	75.6	62.1	54.0	51.3
82.5°	226.9	51.3	43.2	35.1	35.1
85°	129.6	32.4	27.0	21.6	21.6
87.5°	51.3	16.2	13.5	8.1	8.1
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	22.39	23.91	22.76	24.23	24.54	10.16	11.68	10.52	11.99	12.31
	3H	24.41	25.77	24.79	26.10	26.46	12.47	13.83	12.85	14.16	14.52
	4H	24.87	26.15	25.27	26.49	26.87	13.18	14.46	13.58	14.81	15.18
	6H	25.28	26.45	25.69	26.82	27.21	13.67	14.84	14.08	15.21	15.60
	8H	25.43	26.55	25.86	26.94	27.34	13.81	14.92	14.23	15.31	15.71
	12H	25.53	26.60	25.96	26.98	27.41	13.89	14.96	14.32	15.34	15.77
4H	2H	22.23	23.50	22.63	23.85	24.23	10.96	12.23	11.36	12.58	12.96
	3H	24.44	25.48	24.85	25.88	26.29	13.47	14.51	13.88	14.91	15.31
	4H	24.88	25.82	25.32	26.24	26.68	14.29	15.22	14.72	15.64	16.08
	6H	25.35	26.16	25.81	26.61	27.07	14.88	15.69	15.34	16.14	16.60
	8H	25.54	26.30	26.01	26.75	27.21	15.05	15.81	15.51	16.25	16.72
	12H	25.69	26.37	26.18	26.85	27.32	15.17	15.84	15.65	16.32	16.79
8H	4H	24.80	25.56	25.27	26.01	26.48	15.12	15.89	15.59	16.33	16.80
	6H	25.26	25.89	25.76	26.38	26.86	15.75	16.38	16.24	16.87	17.35
	8H	25.46	26.03	25.98	26.54	27.03	15.95	16.51	16.46	17.02	17.51
	12H	25.65	26.15	26.16	26.64	27.21	16.10	16.61	16.61	17.10	17.66
12H	4H	24.77	25.45	25.25	25.93	26.40	15.20	15.87	15.68	16.35	16.82
	6H	25.22	25.78	25.73	26.29	26.78	15.84	16.41	16.35	16.92	17.40
	8H	25.44	25.94	25.95	26.43	27.00	16.09	16.59	16.60	17.09	17.65