

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: P895147

Luminaire Tested: 8TMB-6SL-RFLW-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895147
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-L940
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 4000K
Light Source: -
Ballast/Driver: -

Summary

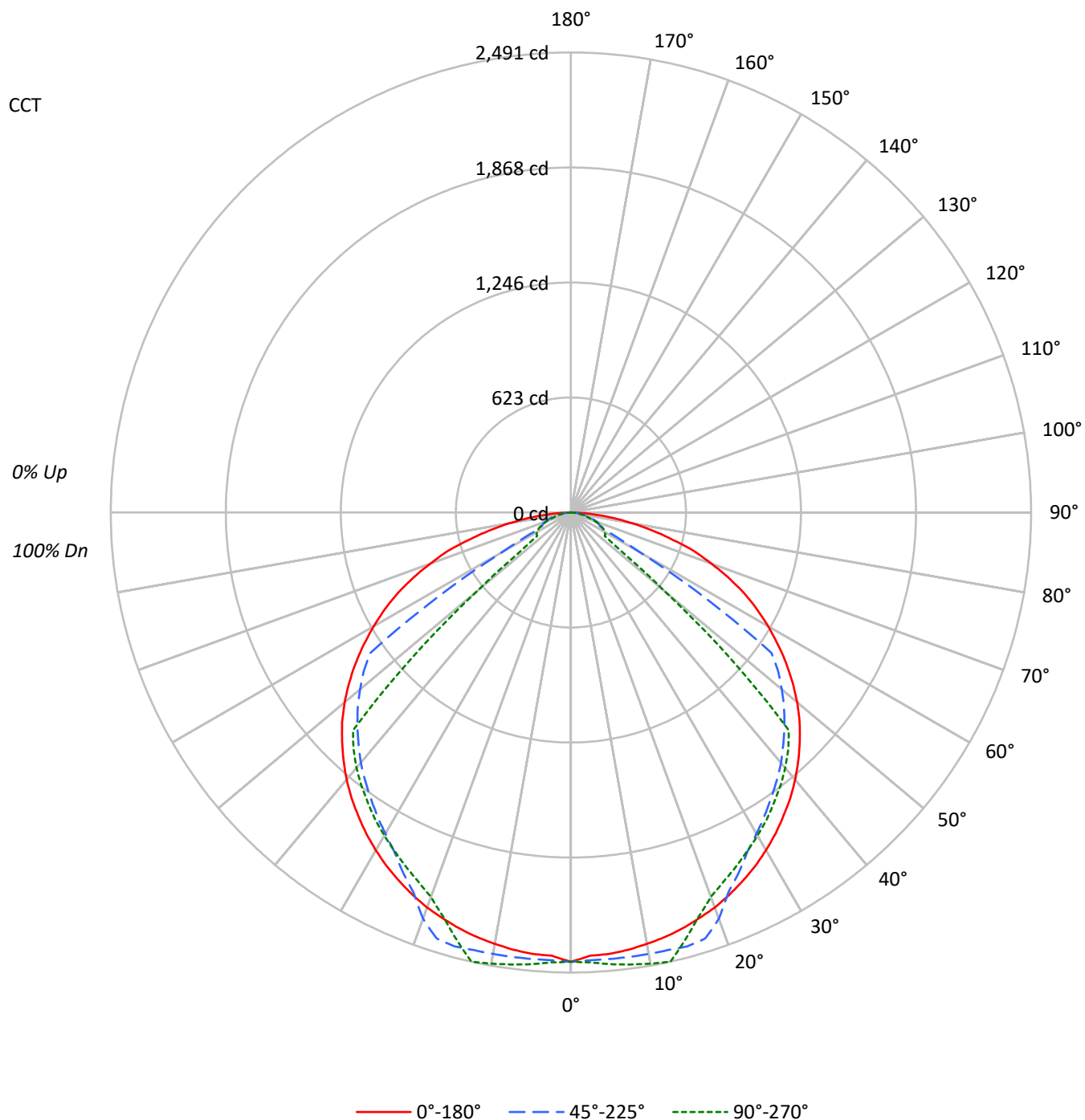
Lumens per Lamp: N/A
Luminaire Lumens: 5933.0 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P895147

CATALOG NUMBER: 8TMB-6SL-RFLW-UNV-L940

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	99	108	104	101	98	100	97	94		96	94	92		92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80		86	82	78		83	79	77	75
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59		69	63	59		67	62	58	56
5	79	67	59	53	77	66	58	53	64	57	52		62	56	51		61	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46		57	50	46		55	50	45	43
7	68	55	47	41	67	55	47	41	53	46	41		52	45	41		50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37		48	41	37		46	41	36	35
9	60	47	39	33	58	46	39	33	45	38	33		44	38	33		43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30		41	34	30		40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15752	15752	15752
5°	15595	15776	15957
10°	15591	15958	16307
15°	15634	16308	16046
20°	15687	16128	15264
25°	15726	15367	15109
30°	15790	15018	15102
35°	15856	14930	15150
40°	15965	14950	15257
45°	16043	14970	15277
50°	16103	15007	6605
55°	16062	14960	2520
60°	15968	5709	2746
65°	15858	2651	2821
70°	15317	2851	2641
75°	14308	2722	2304
80°	12586	2394	1976
85°	9948	2073	1657

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 50°

Luminance: 16103 cd/sqm

TEST NUMBER: P895147

CATALOG NUMBER: 8TMB-6SL-RFLW-UNV-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.3	3.9
10°-20°	674.5	11.4
20°-30°	1006.5	17.0
30°-40°	1220.0	20.6
40°-50°	1249.2	21.1
50°-60°	830.7	14.0
60°-70°	473.5	8.0
70°-80°	198.9	3.4
80°-90°	47.4	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°	1913.3	32.2
0°-40°	3133.3	52.8
0°-60°	5213.2	87.9
0°-90°	5933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2433	2433	2433	2433	2433	
5°	2399	2446	2427	2433	2455	228
15°	2332	2396	2433	2424	2394	659
25°	2201	2307	2151	2103	2115	1015
35°	2006	2042	1889	1897	1916	1256
45°	1752	1646	1635	1654	1668	1352
55°	1423	1303	1325	290	223	1270
65°	1035	926	173	184	184	1018
75°	572	120	109	95	92	607
85°	134	34	28	22	22	160
90°	0	0	0	0	0	

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CATALOG NUMBER: 8TMB-6SL-RFLW-UNV-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2432.6	2432.6	2432.6	2432.6	2432.6
2.5°	2401.9	2452.1	2427.0	2429.8	2438.2
5°	2399.1	2446.5	2427.0	2432.6	2454.9
7.5°	2387.9	2438.2	2427.0	2443.7	2468.8
10°	2371.2	2429.8	2427.0	2454.9	2480.0
12.5°	2354.5	2413.0	2427.0	2468.8	2491.2
15°	2332.1	2396.3	2432.6	2424.2	2393.5
17.5°	2304.3	2379.6	2418.6	2298.7	2295.9
20°	2276.4	2357.3	2340.5	2226.1	2215.0
22.5°	2240.1	2334.9	2226.1	2148.0	2162.0
25°	2201.0	2307.0	2150.8	2103.4	2114.6
27.5°	2159.2	2279.1	2069.9	2053.2	2067.1
30°	2111.8	2240.1	2008.5	2003.0	2019.7
32.5°	2061.6	2164.8	1950.0	1952.8	1972.3
35°	2005.8	2042.0	1888.6	1897.0	1916.5
37.5°	1950.0	1927.6	1830.0	1844.0	1863.5
40°	1888.6	1838.4	1768.6	1782.6	1804.9
42.5°	1821.6	1743.5	1701.7	1721.2	1740.7
45°	1751.9	1645.9	1634.7	1654.3	1668.2
47.5°	1679.4	1562.2	1565.0	1578.9	1182.8
50°	1598.5	1478.5	1489.7	1032.2	655.6
52.5°	1512.0	1392.0	1414.4	574.7	332.0
55°	1422.7	1302.8	1325.1	290.1	223.2
57.5°	1327.9	1213.5	864.8	209.2	220.4
60°	1233.0	1118.6	440.8	206.4	212.0
62.5°	1135.4	1023.8	209.2	198.1	200.9
65°	1035.0	926.2	173.0	184.1	184.1
67.5°	923.4	822.9	164.6	164.6	161.8
70°	809.0	683.5	150.6	142.3	139.5
72.5°	703.0	262.2	131.1	117.2	114.4
75°	571.9	120.0	108.8	94.8	92.1
77.5°	454.7	100.4	86.5	75.3	72.5
80°	337.5	78.1	64.2	55.8	53.0
82.5°	234.3	53.0	44.6	36.3	36.3
85°	133.9	33.5	27.9	22.3	22.3
87.5°	53.0	16.7	13.9	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P895147

CATALOG NUMBER: 8TMB-6SL-RFLW-UNV-L940

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	22.50	24.03	22.87	24.34	24.65	10.27	11.79	10.63	12.10	12.42
	3H	24.52	25.88	24.90	26.21	26.57	12.58	13.94	12.96	14.27	14.63
	4H	24.99	26.26	25.39	26.61	26.99	13.30	14.57	13.70	14.92	15.30
	6H	25.39	26.57	25.81	26.93	27.33	13.78	14.95	14.19	15.32	15.71
	8H	25.54	26.66	25.97	27.05	27.45	13.92	15.04	14.35	15.42	15.83
	12H	25.64	26.71	26.07	27.09	27.52	14.01	15.07	14.44	15.46	15.88
4H	2H	22.35	23.62	22.75	23.97	24.35	11.07	12.34	11.47	12.69	13.07
	3H	24.55	25.60	24.96	26.00	26.40	13.58	14.63	13.99	15.03	15.43
	4H	25.00	25.94	25.43	26.35	26.79	14.40	15.34	14.83	15.75	16.19
	6H	25.46	26.28	25.92	26.72	27.18	14.99	15.81	15.45	16.25	16.71
	8H	25.65	26.41	26.12	26.86	27.33	15.16	15.92	15.63	16.37	16.83
	12H	25.81	26.48	26.29	26.96	27.44	15.28	15.96	15.76	16.44	16.91
8H	4H	24.92	25.68	25.38	26.12	26.59	15.24	16.00	15.70	16.44	16.91
	6H	25.37	26.00	25.87	26.49	26.97	15.86	16.49	16.36	16.98	17.46
	8H	25.57	26.14	26.09	26.65	27.14	16.06	16.63	16.58	17.14	17.63
	12H	25.76	26.26	26.27	26.75	27.32	16.22	16.72	16.73	17.21	17.78
12H	4H	24.88	25.56	25.37	26.04	26.51	15.31	15.99	15.79	16.47	16.94
	6H	25.33	25.89	25.84	26.40	26.89	15.95	16.52	16.47	17.03	17.52
	8H	25.55	26.05	26.06	26.54	27.11	16.21	16.71	16.72	17.20	17.77