

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: P895145

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895145
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-L930
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3000K
Light Source: -
Ballast/Driver: -

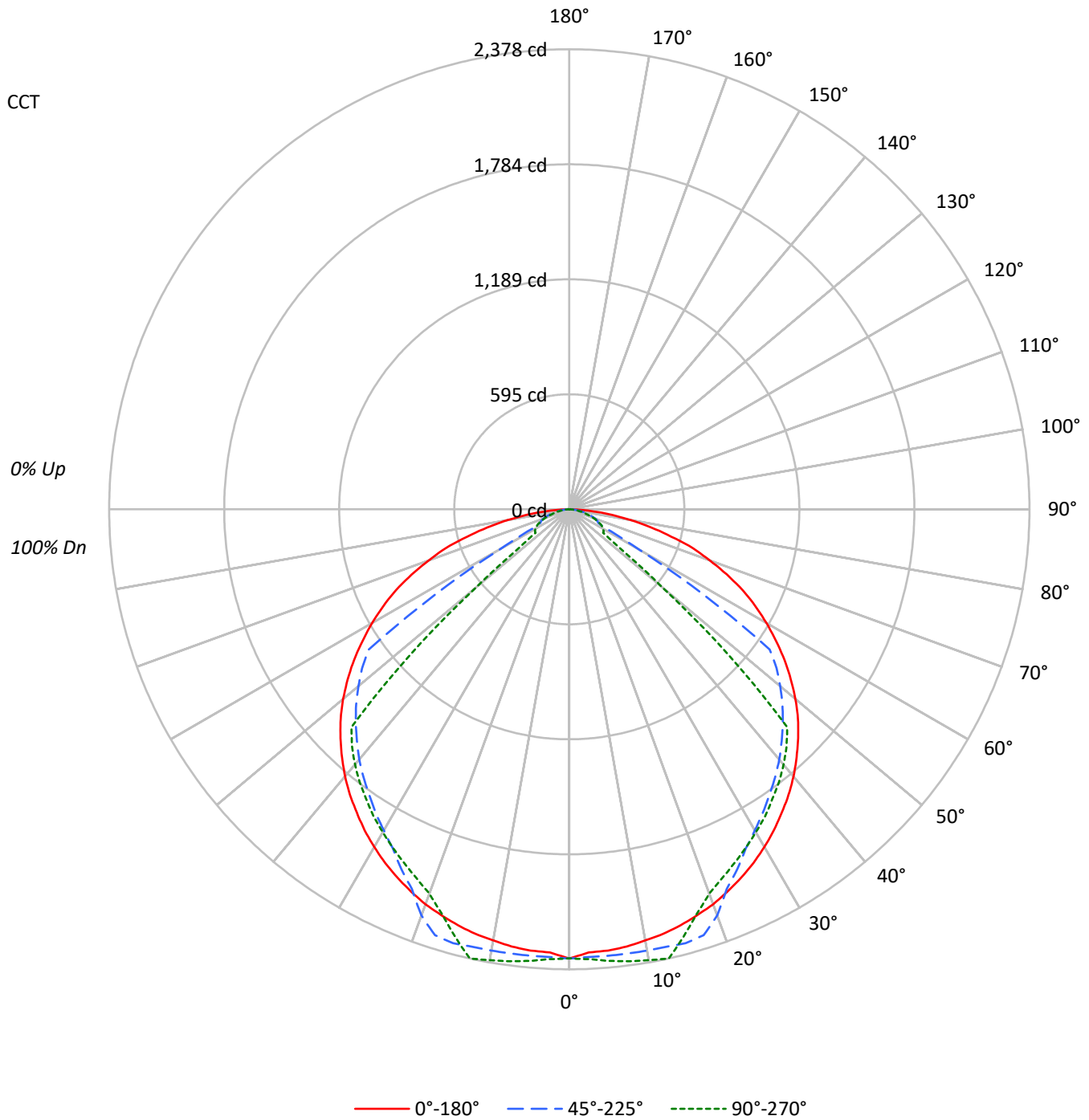
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5663.0 lumens
Efficiency: N/A
Efficacy: 134.2 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 (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	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°	15035	15035	15035
5°	14885	15058	15231
10°	14882	15232	15564
15°	14923	15566	15316
20°	14973	15395	14569
25°	15011	14668	14420
30°	15072	14335	14415
35°	15134	14250	14461
40°	15238	14271	14563
45°	15313	14289	14582
50°	15370	14324	6303
55°	15331	14279	2405
60°	15242	5448	2621
65°	15137	2530	2692
70°	14620	2723	2520
75°	13658	2597	2199
80°	12015	2282	1887
85°	9495	1976	1583

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 15370 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.7	3.9
10°-20°	643.9	11.4
20°-30°	960.7	17.0
30°-40°	1164.4	20.6
40°-50°	1192.3	21.1
50°-60°	792.9	14.0
60°-70°	451.9	8.0
70°-80°	189.9	3.4
80°-90°	45.3	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°	1826.3	32.2
0°-40°	2990.7	52.8
0°-60°	4975.9	87.9
0°-90°	5663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5663.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2322	2322	2322	2322	2322	
5°	2290	2335	2316	2322	2343	218
15°	2226	2287	2322	2314	2285	629
25°	2101	2202	2053	2008	2018	969
35°	1914	1949	1803	1811	1829	1199
45°	1672	1571	1560	1579	1592	1290
55°	1358	1244	1265	277	213	1213
65°	988	884	165	176	176	972
75°	546	114	104	90	88	580
85°	128	32	27	21	21	153
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2321.9	2321.9	2321.9	2321.9	2321.9
2.5°	2292.6	2340.5	2316.5	2319.2	2327.2
5°	2289.9	2335.2	2316.5	2321.9	2343.2
7.5°	2279.3	2327.2	2316.5	2332.5	2356.5
10°	2263.3	2319.2	2316.5	2343.2	2367.1
12.5°	2247.3	2303.2	2316.5	2356.5	2377.8
15°	2226.0	2287.3	2321.9	2313.9	2284.6
17.5°	2199.4	2271.3	2308.6	2194.1	2191.4
20°	2172.8	2250.0	2234.0	2124.8	2114.2
22.5°	2138.1	2228.7	2124.8	2050.3	2063.6
25°	2100.9	2202.1	2052.9	2007.7	2018.3
27.5°	2060.9	2175.4	1975.7	1959.7	1973.1
30°	2015.7	2138.1	1917.1	1911.8	1927.8
32.5°	1967.7	2066.3	1861.2	1863.9	1882.5
35°	1914.5	1949.1	1802.6	1810.6	1829.3
37.5°	1861.2	1839.9	1746.7	1760.0	1778.7
40°	1802.6	1754.7	1688.2	1701.5	1722.8
42.5°	1738.7	1664.2	1624.2	1642.9	1661.5
45°	1672.2	1571.0	1560.3	1579.0	1592.3
47.5°	1602.9	1491.1	1493.8	1507.1	1129.0
50°	1525.7	1411.2	1421.9	985.2	625.7
52.5°	1443.2	1328.7	1350.0	548.5	316.9
55°	1358.0	1243.5	1264.8	276.9	213.0
57.5°	1267.4	1158.3	825.4	199.7	210.4
60°	1176.9	1067.7	420.7	197.0	202.4
62.5°	1083.7	977.2	199.7	189.1	191.7
65°	987.9	884.0	165.1	175.7	175.7
67.5°	881.4	785.5	157.1	157.1	154.4
70°	772.2	652.4	143.8	135.8	133.1
72.5°	671.0	250.3	125.1	111.8	109.2
75°	545.9	114.5	103.8	90.5	87.9
77.5°	434.0	95.9	82.5	71.9	69.2
80°	322.2	74.6	61.2	53.3	50.6
82.5°	223.7	50.6	42.6	34.6	34.6
85°	127.8	32.0	26.6	21.3	21.3
87.5°	50.6	16.0	13.3	8.0	8.0
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	22.34	23.86	22.71	24.18	24.49	10.11	11.63	10.47	11.94	12.26
	3H	24.36	25.72	24.74	26.05	26.41	12.42	13.78	12.80	14.11	14.47
	4H	24.83	26.10	25.23	26.45	26.82	13.14	14.41	13.54	14.76	15.14
	6H	25.23	26.40	25.64	26.77	27.16	13.62	14.79	14.03	15.16	15.55
	8H	25.38	26.50	25.81	26.89	27.29	13.76	14.87	14.18	15.26	15.66
	12H	25.48	26.55	25.91	26.93	27.36	13.84	14.91	14.27	15.29	15.72
4H	2H	22.18	23.46	22.58	23.80	24.18	10.91	12.18	11.31	12.53	12.91
	3H	24.39	25.43	24.80	25.83	26.24	13.42	14.46	13.83	14.86	15.27
	4H	24.83	25.77	25.27	26.19	26.63	14.24	15.18	14.67	15.59	16.03
	6H	25.30	26.12	25.76	26.56	27.02	14.83	15.64	15.29	16.09	16.55
	8H	25.49	26.25	25.96	26.70	27.17	15.00	15.76	15.46	16.20	16.67
	12H	25.64	26.32	26.13	26.80	27.27	15.12	15.80	15.60	16.27	16.75
8H	4H	24.75	25.51	25.22	25.96	26.43	15.08	15.84	15.54	16.28	16.75
	6H	25.21	25.84	25.71	26.33	26.81	15.70	16.33	16.20	16.82	17.30
	8H	25.41	25.98	25.93	26.49	26.98	15.90	16.46	16.41	16.97	17.46
	12H	25.60	26.10	26.11	26.59	27.16	16.06	16.56	16.57	17.05	17.61
12H	4H	24.72	25.40	25.21	25.88	26.35	15.15	15.83	15.63	16.30	16.78
	6H	25.17	25.73	25.68	26.24	26.73	15.79	16.36	16.31	16.87	17.36
	8H	25.39	25.89	25.90	26.38	26.95	16.04	16.55	16.55	17.04	17.60