

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: P895123

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895123
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-L940
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

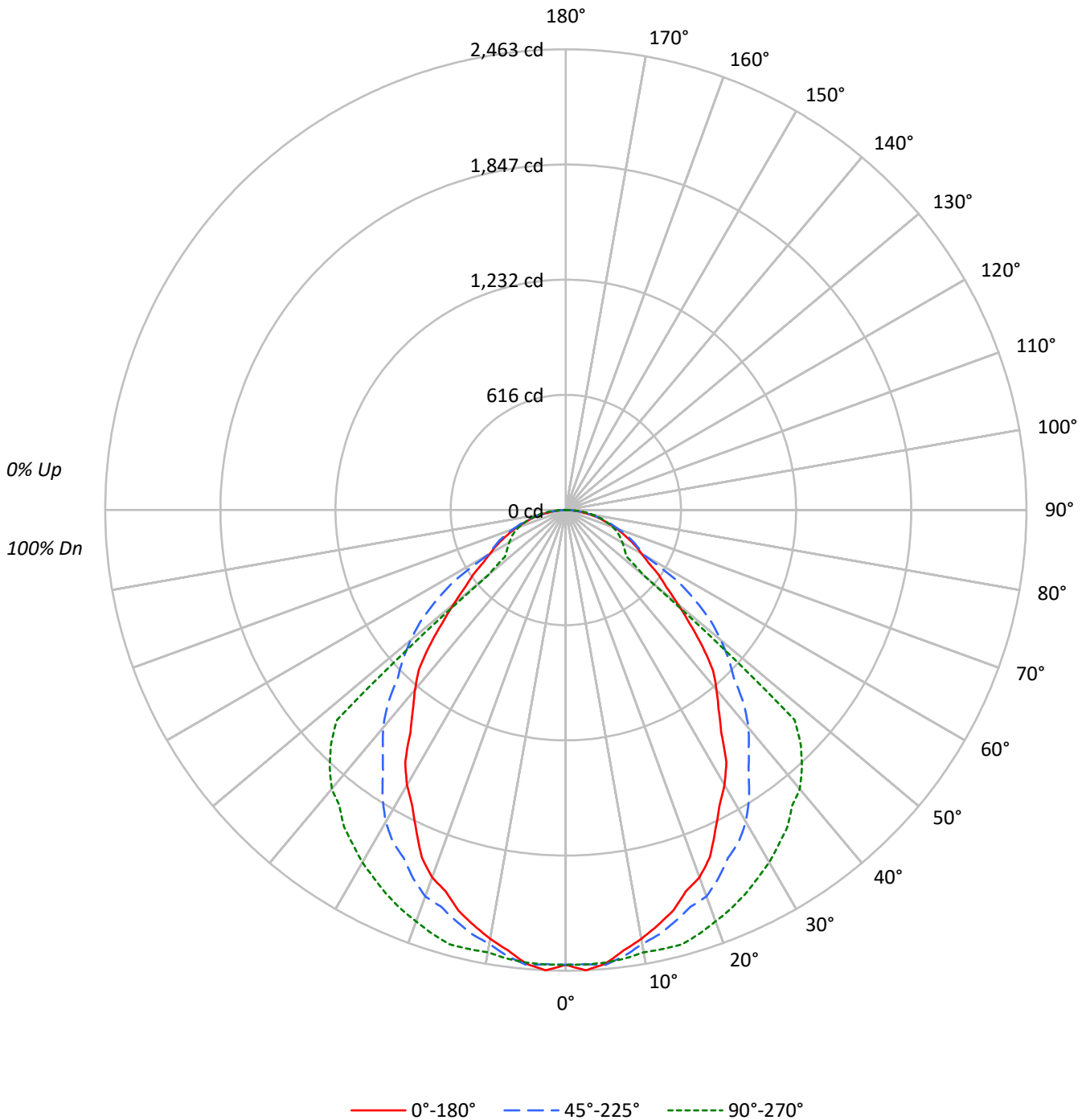
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5188.0 lumens
Efficiency: N/A
Efficacy: 122.9 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°	8626	8626	8626
5°	8672	8694	8650
10°	8388	8486	8652
15°	8146	8351	8830
20°	7890	8303	8837
25°	7403	8035	8876
30°	6954	7890	8912
35°	6271	7379	8954
40°	5808	7039	9018
45°	5196	6380	8916
50°	4311	5976	2995
55°	3756	5246	2396
60°	3322	3419	2484
65°	3158	3325	2637
70°	2963	3143	2782
75°	2757	2961	2860
80°	2511	2791	2993
85°	2223	2377	3236

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8916 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.6	4.4
10°-20°	648.7	12.5
20°-30°	954.2	18.4
30°-40°	1091.3	21.0
40°-50°	1033.3	19.9
50°-60°	569.3	11.0
60°-70°	365.5	7.0
70°-80°	225.6	4.3
80°-90°	69.4	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°	1833.5	35.3
0°-40°	2924.8	56.4
0°-60°	4527.5	87.3
0°-90°	5188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2431	2431	2431	2431	2431	
5°	2435	2455	2441	2441	2429	228
15°	2218	2245	2273	2393	2404	623
25°	1891	1975	2052	2186	2267	871
35°	1448	1572	1704	1951	2067	915
45°	1036	1134	1271	1632	1777	792
55°	607	637	848	437	387	543
65°	376	389	396	353	314	372
75°	201	205	216	227	209	214
85°	55	55	58	67	80	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2431.1	2431.1	2431.1	2431.1	2431.1
2.5°	2463.4	2469.6	2429.9	2428.6	2432.3
5°	2434.8	2454.7	2441.0	2441.0	2428.6
7.5°	2374.0	2407.5	2403.8	2432.3	2418.7
10°	2328.1	2355.4	2355.4	2429.9	2401.3
12.5°	2273.4	2304.5	2321.8	2400.1	2403.8
15°	2217.5	2244.9	2273.4	2392.6	2403.8
17.5°	2136.8	2186.5	2222.5	2339.2	2375.2
20°	2089.7	2119.5	2198.9	2293.3	2340.5
22.5°	2011.4	2054.9	2131.9	2237.4	2306.9
25°	1891.0	1975.4	2052.4	2186.5	2267.2
27.5°	1779.3	1842.6	2001.5	2143.0	2220.0
30°	1697.3	1747.0	1925.8	2079.7	2175.3
32.5°	1598.0	1678.7	1823.9	2017.6	2119.5
35°	1447.7	1571.9	1703.5	1950.6	2067.3
37.5°	1342.2	1427.9	1606.7	1881.1	1989.1
40°	1254.0	1332.3	1519.8	1794.2	1946.9
42.5°	1165.9	1229.2	1410.5	1729.6	1868.6
45°	1035.5	1133.6	1271.4	1631.5	1776.8
47.5°	898.9	1003.2	1180.8	1548.3	1660.1
50°	781.0	864.2	1082.7	1383.2	542.6
52.5°	677.9	754.9	978.4	500.4	409.7
55°	607.2	637.0	848.0	437.1	387.4
57.5°	522.7	571.1	711.5	415.9	367.5
60°	468.1	489.2	481.8	394.8	350.1
62.5°	424.6	439.5	437.1	373.7	330.3
65°	376.2	388.6	396.1	352.6	314.1
67.5°	327.8	339.0	350.1	326.5	291.8
70°	285.6	293.0	303.0	295.5	268.2
72.5°	242.1	250.8	257.0	263.2	237.2
75°	201.1	204.9	216.0	227.2	208.6
77.5°	163.9	167.6	175.1	187.5	177.6
80°	122.9	126.6	136.6	146.5	146.5
82.5°	86.9	89.4	95.6	109.3	115.5
85°	54.6	54.6	58.4	67.0	79.5
87.5°	21.1	21.1	24.8	29.8	39.7
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	15.44	16.92	15.80	17.23	17.55	13.24	14.72	13.60	15.03	15.35
	3H	16.96	18.29	17.34	18.62	18.98	15.57	16.90	15.95	17.22	17.59
	4H	17.55	18.80	17.96	19.15	19.53	16.52	17.76	16.92	18.11	18.49
	6H	18.01	19.16	18.42	19.53	19.92	17.30	18.45	17.72	18.82	19.21
	8H	18.16	19.25	18.58	19.64	20.04	17.62	18.71	18.04	19.10	19.50
	12H	18.25	19.30	18.68	19.68	20.11	17.86	18.91	18.29	19.29	19.72
4H	2H	15.99	17.23	16.39	17.58	17.96	14.34	15.59	14.74	15.94	16.31
	3H	17.76	18.79	18.17	19.19	19.59	16.79	17.82	17.20	18.22	18.62
	4H	18.48	19.40	18.91	19.82	20.26	17.85	18.78	18.29	19.20	19.64
	6H	19.06	19.87	19.52	20.31	20.77	18.74	19.55	19.20	19.99	20.45
	8H	19.25	20.01	19.72	20.45	20.92	19.09	19.85	19.56	20.29	20.76
	12H	19.39	20.06	19.87	20.54	21.01	19.38	20.06	19.87	20.53	21.01
8H	4H	18.79	19.54	19.25	19.98	20.45	18.24	18.99	18.71	19.44	19.91
	6H	19.50	20.12	19.99	20.61	21.09	19.28	19.90	19.77	20.39	20.87
	8H	19.76	20.32	20.27	20.83	21.32	19.72	20.28	20.24	20.79	21.28
	12H	19.97	20.47	20.48	20.96	21.52	20.11	20.61	20.62	21.10	21.66
12H	4H	18.82	19.50	19.31	19.97	20.45	18.28	18.95	18.76	19.43	19.90
	6H	19.56	20.12	20.08	20.64	21.12	19.34	19.90	19.86	20.41	20.90
	8H	19.88	20.38	20.39	20.87	21.44	19.85	20.35	20.36	20.84	21.41