

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: P895443

Luminaire Tested: 8TMB-SC3-LVRA-UNV-CC83-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-LVRA-UNV-CC83-LOW-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 4000K CCT, LO lumen setting
Light Source: -
Ballast/Driver: -

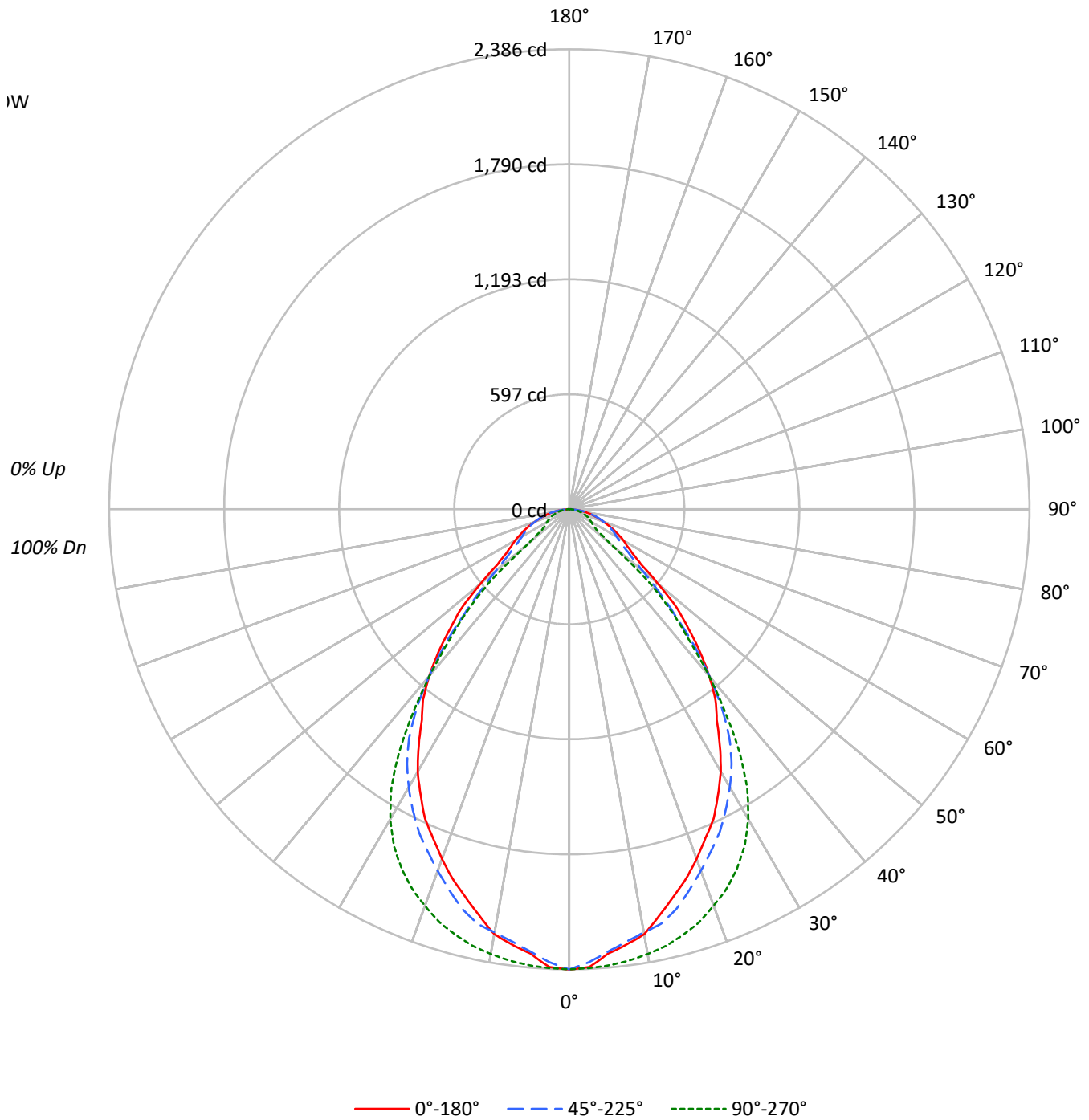
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3873.0 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8467	8467	8467
5°	8239	8202	8458
10°	8064	8028	8438
15°	7647	7883	8391
20°	7285	7531	8263
25°	6930	7226	8052
30°	6438	6821	7602
35°	5773	6269	6668
40°	5230	5242	5213
45°	4373	3873	3777
50°	3303	2726	1544
55°	2484	2180	974
60°	2309	2008	938
65°	2148	2003	939
70°	1965	1965	925
75°	1863	1914	894
80°	1722	1810	917
85°	1502	1575	1001

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4475 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.4	5.7
10°-20°	607.4	15.7
20°-30°	861.3	22.2
30°-40°	887.3	22.9
40°-50°	619.8	16.0
50°-60°	297.4	7.7
60°-70°	208.6	5.4
70°-80°	130.4	3.4
80°-90°	40.3	1.0
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°	1689.1	43.6
0°-40°	2576.4	66.5
0°-60°	3493.6	90.2
0°-90°	3873.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3873.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2386	2386	2386	2386	2386	
5°	2313	2310	2303	2363	2375	219
15°	2082	2097	2146	2207	2284	586
25°	1770	1788	1846	1971	2057	809
35°	1333	1369	1447	1477	1540	840
45°	872	892	772	732	753	671
55°	402	382	352	226	158	376
65°	256	239	239	181	112	254
75°	136	134	140	120	65	143
85°	37	37	39	38	25	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2386.4	2386.4	2386.4	2386.4	2386.4
2.5°	2377.2	2369.8	2351.9	2384.5	2382.1
5°	2313.2	2310.1	2302.7	2363.0	2374.7
7.5°	2276.9	2270.7	2262.1	2328.6	2361.2
10°	2238.2	2245.5	2228.3	2289.2	2342.1
12.5°	2158.2	2177.9	2201.2	2248.6	2318.7
15°	2081.9	2097.3	2145.9	2207.4	2284.3
17.5°	2010.6	2028.4	2070.2	2162.5	2244.3
20°	1929.4	1954.0	1994.6	2112.7	2188.3
22.5°	1845.8	1868.5	1919.6	2046.3	2130.5
25°	1770.1	1787.9	1845.8	1970.6	2056.7
27.5°	1669.8	1703.1	1757.8	1878.4	1968.8
30°	1571.4	1599.7	1664.9	1766.4	1855.6
32.5°	1452.7	1493.9	1565.9	1643.4	1717.8
35°	1332.8	1369.1	1447.2	1477.3	1539.5
37.5°	1245.5	1255.3	1299.6	1295.9	1331.0
40°	1129.2	1148.9	1131.7	1085.6	1125.5
42.5°	1003.8	1027.1	957.6	904.1	918.3
45°	871.5	891.8	771.9	732.5	752.8
47.5°	757.1	755.3	622.4	596.0	567.7
50°	598.4	618.1	493.9	444.7	279.8
52.5°	467.4	474.8	407.2	284.2	183.9
55°	401.6	381.9	352.4	225.7	157.5
57.5°	356.7	332.1	312.4	209.7	143.9
60°	325.4	297.7	282.9	199.3	132.2
62.5°	289.7	268.2	262.6	190.0	121.8
65°	255.9	239.3	238.6	181.4	111.9
67.5°	222.0	212.8	215.3	171.0	100.9
70°	189.4	187.6	189.4	157.5	89.2
72.5°	161.8	159.9	164.8	140.2	76.3
75°	135.9	134.1	139.6	120.5	65.2
77.5°	108.2	109.5	113.2	100.3	54.7
80°	84.3	84.3	88.6	78.7	44.9
82.5°	60.3	60.9	63.3	57.8	35.1
85°	36.9	36.9	38.7	38.1	24.6
87.5°	12.3	14.1	16.6	17.8	12.3
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	13.07	14.42	13.43	14.73	15.05	9.40	10.75	9.77	11.07	11.38
	3H	14.81	16.01	15.19	16.34	16.71	11.38	12.58	11.76	12.91	13.28
	4H	15.48	16.61	15.88	16.96	17.34	12.08	13.21	12.48	13.56	13.94
	6H	15.98	17.02	16.40	17.39	17.79	12.60	13.64	13.02	14.01	14.41
	8H	16.16	17.14	16.59	17.53	17.94	12.79	13.78	13.22	14.17	14.57
	12H	16.27	17.21	16.70	17.59	18.02	12.93	13.87	13.36	14.25	14.68
4H	2H	13.60	14.73	14.00	15.08	15.46	11.02	12.15	11.42	12.50	12.88
	3H	15.58	16.51	15.99	16.91	17.31	13.20	14.13	13.61	14.53	14.94
	4H	16.38	17.21	16.81	17.63	18.07	14.08	14.92	14.51	15.33	15.78
	6H	17.02	17.75	17.48	18.19	18.66	14.72	15.45	15.18	15.89	16.36
	8H	17.24	17.92	17.71	18.36	18.83	14.93	15.61	15.40	16.06	16.53
	12H	17.40	18.00	17.88	18.48	18.95	15.09	15.69	15.58	16.17	16.65
8H	4H	16.66	17.34	17.13	17.79	18.26	14.73	15.41	15.20	15.85	16.32
	6H	17.45	18.00	17.95	18.50	18.98	15.59	16.15	16.09	16.64	17.12
	8H	17.75	18.25	18.27	18.76	19.25	15.92	16.42	16.44	16.93	17.42
	12H	17.98	18.42	18.50	18.92	19.49	16.18	16.62	16.70	17.12	17.69
12H	4H	16.68	17.28	17.16	17.76	18.23	14.80	15.40	15.29	15.88	16.36
	6H	17.50	18.00	18.02	18.51	19.00	15.73	16.23	16.25	16.74	17.23
	8H	17.86	18.30	18.38	18.80	19.37	16.14	16.58	16.65	17.08	17.65