

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: P895028

Luminaire Tested: 8TMB-4SL-LVRF-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-4SL-LVRF-UNV-L950
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K C
Light Source: -
Ballast/Driver: -

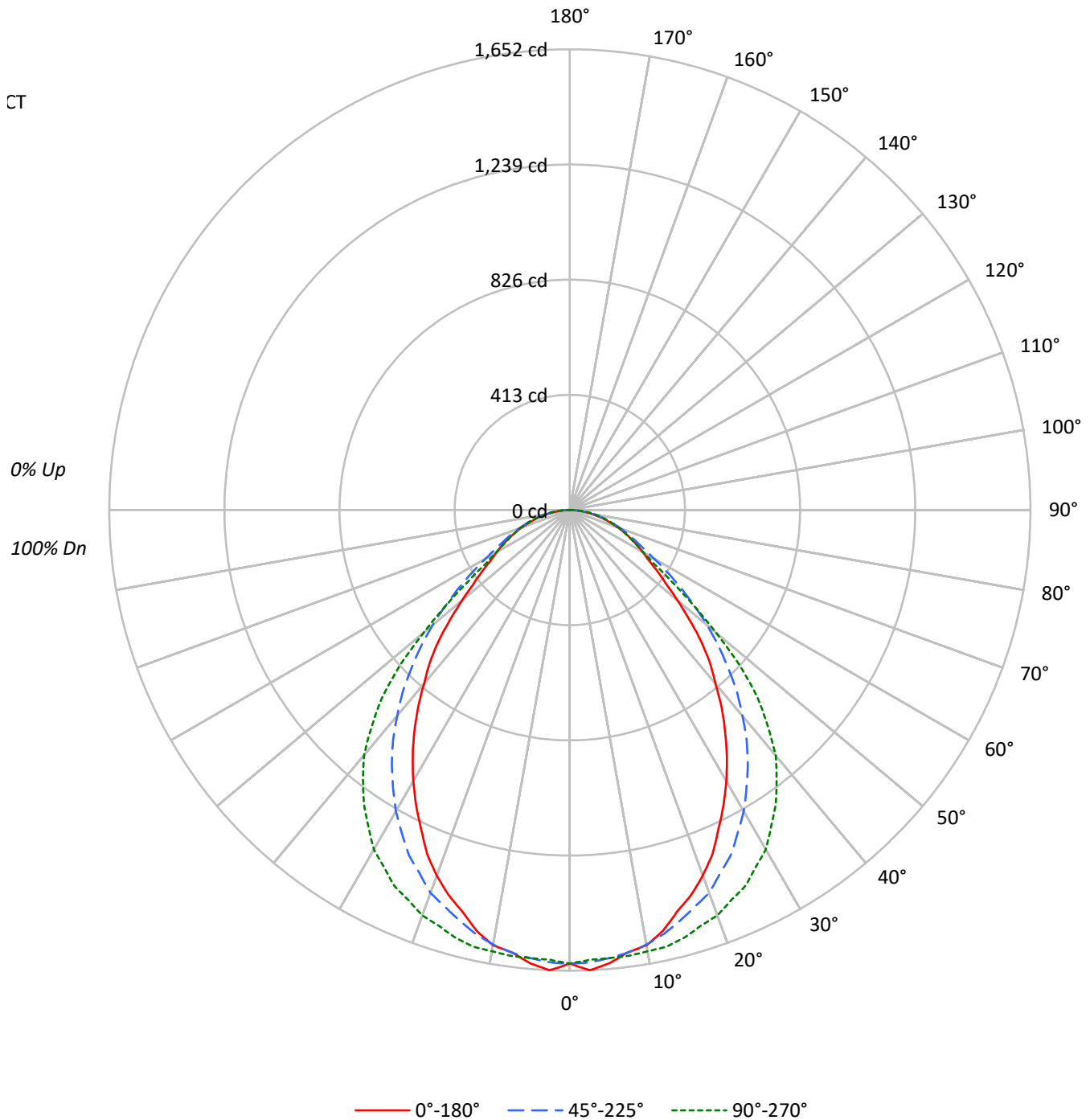
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3380.0 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 27.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4.5
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	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	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	56	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	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5770	5770	5770
5°	5811	5744	5744
10°	5710	5701	5789
15°	5474	5601	5831
20°	5266	5518	5840
25°	4940	5347	5827
30°	4598	5111	5759
35°	4209	4821	5575
40°	3768	4458	5320
45°	3344	4036	4782
50°	2782	3553	3772
55°	2370	2992	2742
60°	2149	2472	2166
65°	2023	2165	2017
70°	1904	2009	1965
75°	1774	1912	1878
80°	1624	1763	1814
85°	1413	1551	2031

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4782 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	4.6
10°-20°	433.3	12.8
20°-30°	629.2	18.6
30°-40°	700.6	20.7
40°-50°	619.0	18.3
50°-60°	406.2	12.0
60°-70°	248.7	7.4
70°-80°	144.7	4.3
80°-90°	44.3	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°	1216.4	36.0
0°-40°	1917.1	56.7
0°-60°	2942.2	87.0
0°-90°	3380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3380.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1626	1626	1626	1626	1626	
5°	1631	1632	1613	1629	1613	154
15°	1490	1507	1525	1585	1587	420
25°	1262	1292	1366	1453	1488	581
35°	972	1024	1113	1230	1287	606
45°	666	707	804	912	953	510
55°	383	410	484	480	443	347
65°	241	245	258	250	240	240
75°	129	131	140	142	137	137
85°	35	36	38	43	50	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1626.3	1626.3	1626.3	1626.3	1626.3
2.5°	1651.7	1631.4	1623.8	1631.4	1614.5
5°	1631.4	1632.2	1612.8	1628.8	1612.8
7.5°	1599.2	1610.2	1600.9	1625.5	1612.8
10°	1584.9	1585.7	1582.3	1607.7	1606.8
12.5°	1545.1	1547.7	1557.0	1595.0	1603.5
15°	1490.1	1507.1	1524.8	1584.9	1587.4
17.5°	1447.0	1467.3	1491.0	1555.3	1562.9
20°	1394.6	1403.0	1461.4	1518.1	1546.8
22.5°	1336.2	1352.3	1409.0	1485.1	1513.8
25°	1261.8	1292.2	1365.8	1452.9	1488.5
27.5°	1193.3	1228.8	1304.9	1402.2	1443.6
30°	1122.3	1162.9	1247.4	1343.0	1405.6
32.5°	1048.7	1099.4	1179.8	1289.7	1344.7
35°	971.7	1024.2	1113.0	1230.5	1287.2
37.5°	894.8	945.5	1041.9	1167.9	1218.7
40°	813.6	863.5	962.4	1090.1	1148.5
42.5°	743.4	786.5	888.0	997.1	1051.2
45°	666.4	707.0	804.3	912.5	953.1
47.5°	581.8	629.2	723.9	812.7	828.8
50°	504.0	553.1	643.6	695.2	683.3
52.5°	435.5	477.0	559.9	581.8	553.9
55°	383.1	410.2	483.7	479.5	443.2
57.5°	334.9	351.8	414.4	390.7	356.0
60°	302.8	310.4	348.4	326.4	305.3
62.5°	272.3	275.7	296.0	284.2	268.1
65°	241.0	245.3	257.9	250.3	240.2
67.5°	212.3	214.0	225.8	224.1	211.4
70°	183.5	186.1	193.7	197.1	189.4
72.5°	155.6	158.1	165.8	169.1	162.4
75°	129.4	131.1	139.5	142.1	137.0
77.5°	104.0	107.4	112.5	116.7	110.8
80°	79.5	81.2	86.3	91.3	88.8
82.5°	55.8	58.4	61.7	68.5	70.2
85°	34.7	36.4	38.1	43.1	49.9
87.5°	13.5	14.4	16.9	18.6	24.5
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	13.62	15.10	13.98	15.41	15.73	14.27	15.75	14.64	16.07	16.38
	3H	15.22	16.55	15.60	16.87	17.24	15.71	17.03	16.08	17.36	17.72
	4H	15.84	17.08	16.24	17.43	17.81	16.31	17.55	16.71	17.90	18.28
	6H	16.31	17.45	16.72	17.82	18.21	16.80	17.95	17.21	18.31	18.70
	8H	16.46	17.55	16.89	17.94	18.34	17.00	18.09	17.42	18.48	18.88
	12H	16.56	17.60	16.99	17.99	18.42	17.16	18.21	17.59	18.59	19.02
4H	2H	14.24	15.48	14.64	15.83	16.21	14.76	16.01	15.16	16.36	16.73
	3H	16.06	17.09	16.47	17.49	17.89	16.46	17.49	16.87	17.89	18.29
	4H	16.80	17.73	17.23	18.14	18.58	17.22	18.14	17.65	18.56	19.00
	6H	17.40	18.20	17.86	18.65	19.11	17.85	18.66	18.31	19.10	19.56
	8H	17.59	18.35	18.06	18.79	19.26	18.11	18.86	18.57	19.30	19.77
	12H	17.74	18.41	18.22	18.89	19.36	18.33	19.00	18.81	19.48	19.95
8H	4H	17.12	17.87	17.58	18.32	18.78	17.49	18.24	17.95	18.68	19.15
	6H	17.84	18.47	18.34	18.96	19.44	18.26	18.88	18.76	19.38	19.85
	8H	18.12	18.68	18.63	19.19	19.68	18.60	19.17	19.12	19.68	20.16
	12H	18.33	18.83	18.84	19.32	19.89	18.92	19.42	19.43	19.91	20.48
12H	4H	17.15	17.83	17.64	18.30	18.78	17.51	18.18	17.99	18.66	19.13
	6H	17.91	18.47	18.42	18.98	19.47	18.31	18.87	18.82	19.38	19.87
	8H	18.24	18.74	18.75	19.23	19.80	18.71	19.21	19.22	19.70	20.27