

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: P895470

Luminaire Tested: 8TMB-SC3-LVRF-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895470
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-SC3-LVRF-UNV-CC93-LOW-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 4000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

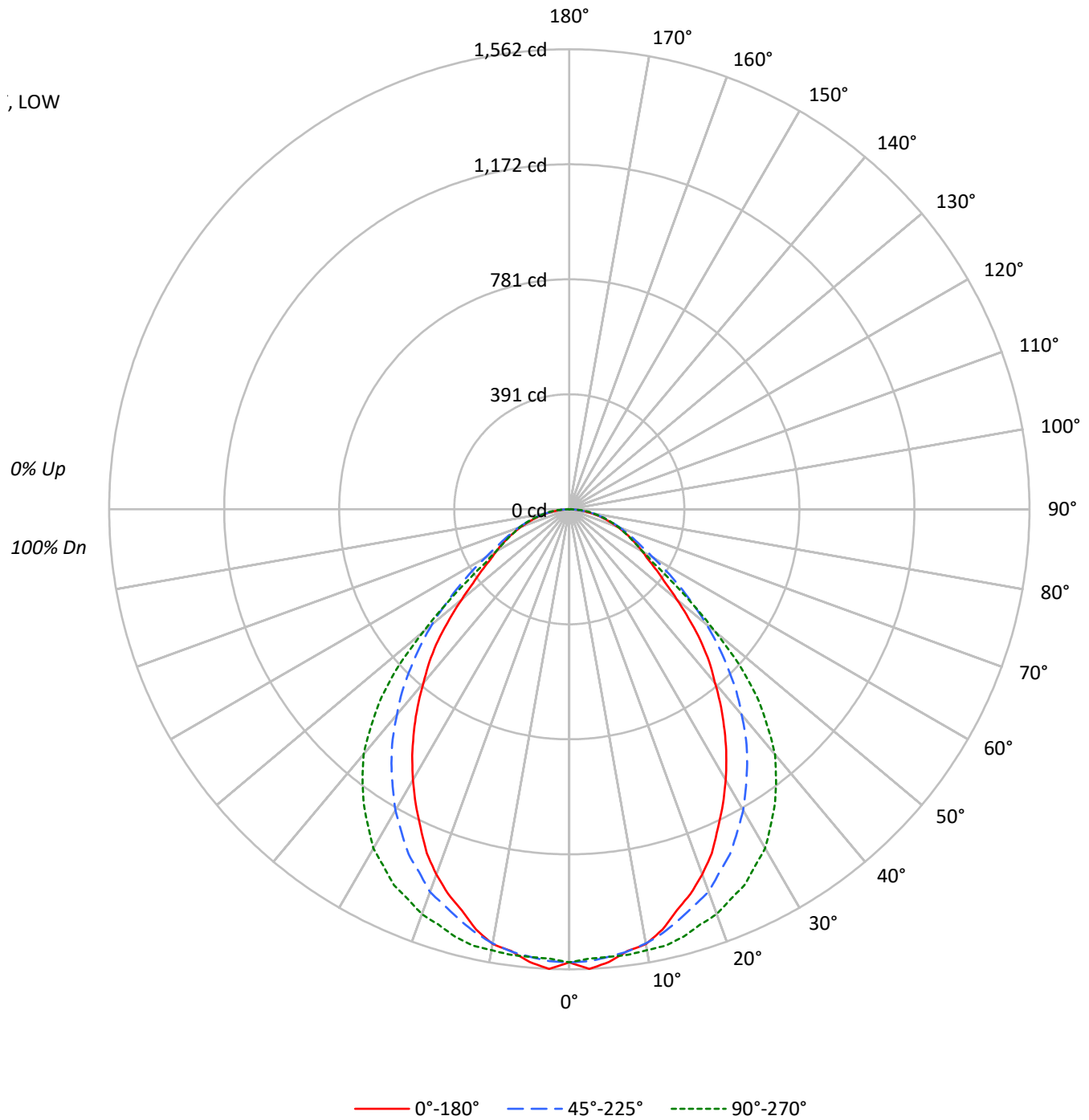
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3197.1 lumens
Efficiency: N/A
Efficacy: 95.4 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): 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	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°	5458	5458	5458
5°	5496	5433	5433
10°	5401	5392	5476
15°	5178	5298	5515
20°	4981	5219	5524
25°	4672	5058	5512
30°	4349	4834	5447
35°	3981	4560	5274
40°	3564	4216	5031
45°	3163	3817	4524
50°	2632	3360	3568
55°	2242	2831	2593
60°	2032	2339	2049
65°	1914	2049	1907
70°	1801	1901	1859
75°	1678	1810	1777
80°	1537	1667	1716
85°	1335	1466	1922

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4524 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	4.6
10°-20°	409.8	12.8
20°-30°	595.1	18.6
30°-40°	662.7	20.7
40°-50°	585.5	18.3
50°-60°	384.2	12.0
60°-70°	235.3	7.4
70°-80°	136.9	4.3
80°-90°	41.9	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°	1150.6	36.0
0°-40°	1813.3	56.7
0°-60°	2782.9	87.0
0°-90°	3197.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3197.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1538	1538	1538	1538	1538	
5°	1543	1544	1526	1541	1526	146
15°	1410	1426	1442	1499	1502	398
25°	1194	1222	1292	1374	1408	549
35°	919	969	1053	1164	1218	573
45°	630	669	761	863	902	482
55°	362	388	458	454	419	329
65°	228	232	244	237	227	227
75°	122	124	132	134	130	130
85°	33	34	36	41	47	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1538.2	1538.2	1538.2	1538.2	1538.2
2.5°	1562.2	1543.0	1535.9	1543.0	1527.1
5°	1543.0	1543.8	1525.5	1540.6	1525.5
7.5°	1512.7	1523.1	1514.3	1537.5	1525.5
10°	1499.1	1499.9	1496.7	1520.7	1519.9
12.5°	1461.5	1463.9	1472.7	1508.7	1516.7
15°	1409.5	1425.5	1442.3	1499.1	1501.5
17.5°	1368.7	1387.9	1410.3	1471.1	1478.3
20°	1319.1	1327.1	1382.3	1435.9	1463.1
22.5°	1263.9	1279.1	1332.7	1404.7	1431.9
25°	1193.5	1222.3	1291.9	1374.3	1407.9
27.5°	1128.7	1162.3	1234.3	1326.3	1365.5
30°	1061.5	1099.9	1179.9	1270.3	1329.5
32.5°	991.9	1039.9	1115.9	1219.9	1271.9
35°	919.1	968.7	1052.7	1163.9	1217.5
37.5°	846.3	894.3	985.5	1104.7	1152.7
40°	769.5	816.7	910.3	1031.1	1086.3
42.5°	703.1	743.9	839.9	943.1	994.3
45°	630.3	668.7	760.7	863.1	901.5
47.5°	550.3	595.1	684.7	768.7	783.9
50°	476.8	523.1	608.7	657.5	646.3
52.5°	412.0	451.2	529.5	550.3	523.9
55°	362.4	388.0	457.6	453.6	419.2
57.5°	316.8	332.8	392.0	369.6	336.8
60°	286.4	293.6	329.6	308.8	288.8
62.5°	257.6	260.8	280.0	268.8	253.6
65°	228.0	232.0	244.0	236.8	227.2
67.5°	200.8	202.4	213.6	212.0	200.0
70°	173.6	176.0	183.2	186.4	179.2
72.5°	147.2	149.6	156.8	160.0	153.6
75°	122.4	124.0	132.0	134.4	129.6
77.5°	98.4	101.6	106.4	110.4	104.8
80°	75.2	76.8	81.6	86.4	84.0
82.5°	52.8	55.2	58.4	64.8	66.4
85°	32.8	34.4	36.0	40.8	47.2
87.5°	12.8	13.6	16.0	17.6	23.2
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	13.43	14.91	13.79	15.22	15.54	14.08	15.56	14.44	15.87	16.19
	3H	15.03	16.35	15.41	16.68	17.04	15.51	16.84	15.89	17.17	17.53
	4H	15.64	16.89	16.04	17.24	17.61	16.12	17.36	16.52	17.71	18.09
	6H	16.12	17.26	16.53	17.63	18.02	16.61	17.75	17.02	18.12	18.51
	8H	16.27	17.36	16.69	17.75	18.15	16.80	17.89	17.23	18.28	18.69
	12H	16.37	17.41	16.80	17.79	18.22	16.97	18.01	17.40	18.40	18.83
4H	2H	14.05	15.29	14.45	15.64	16.02	14.57	15.81	14.97	16.16	16.54
	3H	15.87	16.90	16.28	17.30	17.70	16.27	17.30	16.68	17.70	18.10
	4H	16.61	17.53	17.04	17.95	18.39	17.02	17.95	17.46	18.36	18.80
	6H	17.21	18.01	17.66	18.45	18.91	17.66	18.46	18.12	18.91	19.37
	8H	17.40	18.15	17.87	18.60	19.07	17.91	18.67	18.38	19.11	19.58
	12H	17.54	18.22	18.03	18.69	19.17	18.14	18.81	18.62	19.29	19.76
8H	4H	16.93	17.68	17.39	18.12	18.59	17.29	18.05	17.76	18.49	18.96
	6H	17.65	18.27	18.15	18.76	19.24	18.07	18.69	18.57	19.18	19.66
	8H	17.92	18.48	18.44	18.99	19.48	18.41	18.97	18.93	19.48	19.97
	12H	18.14	18.64	18.65	19.13	19.70	18.73	19.23	19.24	19.72	20.29
12H	4H	16.96	17.63	17.44	18.11	18.58	17.31	17.98	17.80	18.46	18.94
	6H	17.71	18.28	18.23	18.79	19.27	18.11	18.67	18.63	19.18	19.67
	8H	18.05	18.54	18.56	19.04	19.60	18.52	19.02	19.03	19.51	20.07