

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: P895471

Luminaire Tested: 8TMB-SC3-LVRF-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895471
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

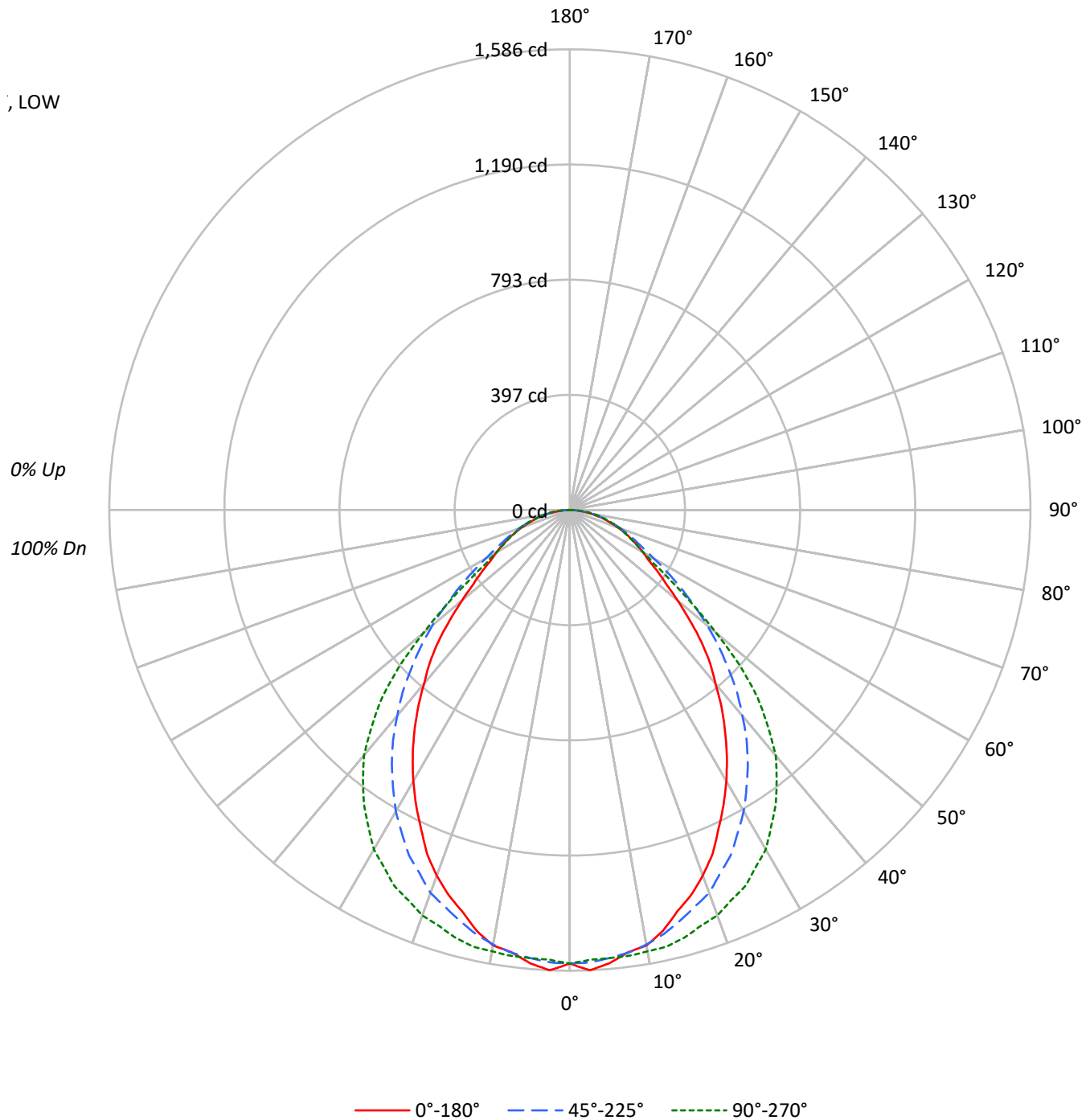
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3245.0 lumens
Efficiency: N/A
Efficacy: 96.9 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				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°	5540	5540	5540
5°	5578	5515	5515
10°	5482	5473	5558
15°	5255	5377	5598
20°	5055	5298	5607
25°	4743	5134	5594
30°	4414	4907	5529
35°	4041	4628	5353
40°	3618	4280	5107
45°	3210	3874	4591
50°	2671	3411	3621
55°	2275	2873	2632
60°	2063	2374	2080
65°	1943	2079	1936
70°	1828	1929	1887
75°	1703	1837	1803
80°	1559	1692	1743
85°	1356	1486	1950

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4591 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	4.6
10°-20°	416.0	12.8
20°-30°	604.1	18.6
30°-40°	672.6	20.7
40°-50°	594.3	18.3
50°-60°	389.9	12.0
60°-70°	238.8	7.4
70°-80°	138.9	4.3
80°-90°	42.6	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°	1167.8	36.0
0°-40°	1840.5	56.7
0°-60°	2824.7	87.0
0°-90°	3245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3245.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1561	1561	1561	1561	1561	
5°	1566	1567	1548	1564	1548	148
15°	1431	1447	1464	1522	1524	404
25°	1211	1241	1311	1395	1429	557
35°	933	983	1068	1181	1236	582
45°	640	679	772	876	915	489
55°	368	394	464	460	426	334
65°	231	236	248	240	231	230
75°	124	126	134	136	132	132
85°	33	35	36	41	48	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1561.3	1561.3	1561.3	1561.3	1561.3
2.5°	1585.7	1566.2	1558.9	1566.2	1550.0
5°	1566.2	1567.0	1548.4	1563.8	1548.4
7.5°	1535.4	1545.9	1537.0	1560.5	1548.4
10°	1521.6	1522.4	1519.1	1543.5	1542.7
12.5°	1483.4	1485.8	1494.8	1531.3	1539.4
15°	1430.6	1446.9	1463.9	1521.6	1524.0
17.5°	1389.2	1408.7	1431.4	1493.1	1500.5
20°	1338.9	1347.0	1403.0	1457.4	1485.0
22.5°	1282.9	1298.3	1352.7	1425.8	1453.4
25°	1211.4	1240.6	1311.3	1394.9	1429.0
27.5°	1145.6	1179.7	1252.8	1346.2	1386.0
30°	1077.4	1116.4	1197.6	1289.3	1349.4
32.5°	1006.8	1055.5	1132.6	1238.2	1291.0
35°	932.9	983.2	1068.5	1181.4	1235.8
37.5°	859.0	907.7	1000.3	1121.3	1170.0
40°	781.1	829.0	924.0	1046.6	1102.6
42.5°	713.7	755.1	852.5	957.3	1009.2
45°	639.8	678.8	772.1	876.1	915.0
47.5°	558.6	604.1	695.0	780.3	795.7
50°	483.9	531.0	617.9	667.4	656.0
52.5°	418.1	457.9	537.5	558.6	531.8
55°	367.8	393.8	464.4	460.4	425.5
57.5°	321.5	337.8	397.8	375.1	341.8
60°	290.7	298.0	334.5	313.4	293.1
62.5°	261.4	264.7	284.2	272.8	257.4
65°	231.4	235.5	247.6	240.3	230.6
67.5°	203.8	205.4	216.8	215.2	203.0
70°	176.2	178.6	185.9	189.2	181.9
72.5°	149.4	151.8	159.1	162.4	155.9
75°	124.2	125.8	134.0	136.4	131.5
77.5°	99.9	103.1	108.0	112.0	106.4
80°	76.3	77.9	82.8	87.7	85.3
82.5°	53.6	56.0	59.3	65.8	67.4
85°	33.3	34.9	36.5	41.4	47.9
87.5°	13.0	13.8	16.2	17.9	23.5
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	13.48	14.96	13.84	15.27	15.59	14.13	15.61	14.49	15.92	16.24
	3H	15.08	16.40	15.46	16.73	17.10	15.57	16.89	15.94	17.22	17.58
	4H	15.70	16.94	16.10	17.29	17.67	16.17	17.41	16.57	17.76	18.14
	6H	16.17	17.31	16.58	17.68	18.07	16.66	17.80	17.07	18.17	18.56
	8H	16.32	17.41	16.75	17.80	18.20	16.85	17.95	17.28	18.34	18.74
	12H	16.42	17.46	16.85	17.84	18.27	17.02	18.07	17.45	18.45	18.88
4H	2H	14.10	15.34	14.50	15.69	16.07	14.62	15.86	15.02	16.21	16.59
	3H	15.92	16.95	16.33	17.35	17.75	16.32	17.35	16.73	17.75	18.15
	4H	16.66	17.58	17.09	18.00	18.44	17.07	18.00	17.51	18.42	18.86
	6H	17.26	18.06	17.71	18.50	18.96	17.71	18.51	18.17	18.96	19.42
	8H	17.45	18.21	17.92	18.65	19.12	17.96	18.72	18.43	19.16	19.63
	12H	17.59	18.27	18.08	18.75	19.22	18.19	18.86	18.67	19.34	19.81
8H	4H	16.98	17.73	17.44	18.17	18.64	17.34	18.10	17.81	18.54	19.01
	6H	17.70	18.32	18.20	18.82	19.29	18.12	18.74	18.62	19.23	19.71
	8H	17.97	18.53	18.49	19.04	19.53	18.46	19.02	18.98	19.53	20.02
	12H	18.19	18.69	18.70	19.18	19.75	18.78	19.28	19.29	19.77	20.34
12H	4H	17.01	17.68	17.49	18.16	18.63	17.36	18.04	17.85	18.51	18.99
	6H	17.76	18.33	18.28	18.84	19.33	18.16	18.73	18.68	19.24	19.72
	8H	18.10	18.59	18.61	19.09	19.65	18.57	19.07	19.08	19.56	20.13