

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: P895025

Luminaire Tested: 8TMB-4SL-LVRF-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895025
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-L930
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3000K C
Light Source: -
Ballast/Driver: -

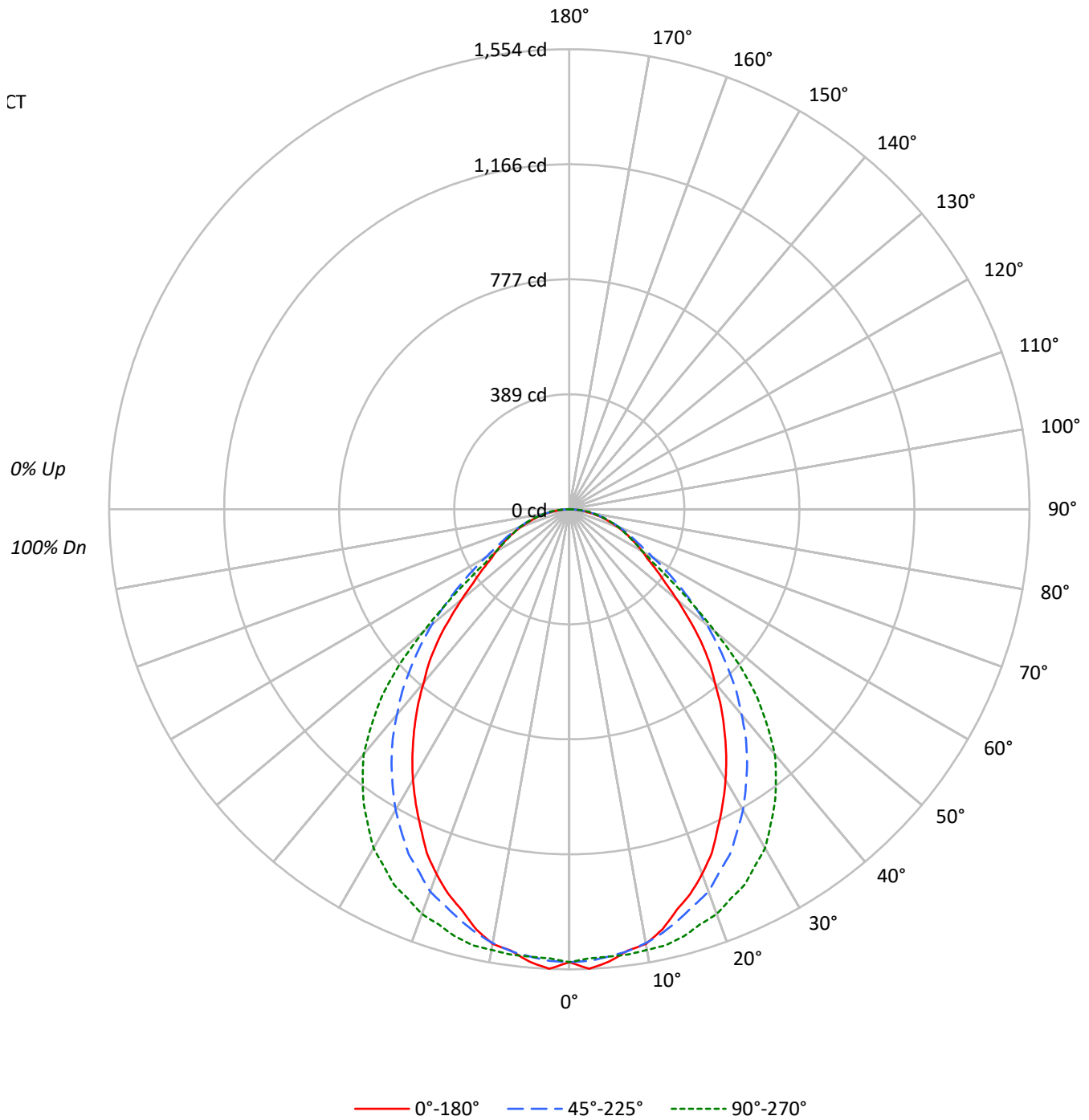
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3179.0 lumens
Efficiency: N/A
Efficacy: 115.2 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°	5427	5427	5427
5°	5465	5403	5403
10°	5370	5362	5445
15°	5148	5268	5484
20°	4952	5190	5493
25°	4646	5029	5481
30°	4324	4807	5416
35°	3959	4534	5244
40°	3544	4193	5003
45°	3145	3795	4498
50°	2617	3341	3548
55°	2229	2815	2578
60°	2021	2325	2037
65°	1903	2037	1897
70°	1791	1890	1849
75°	1668	1799	1767
80°	1528	1657	1706
85°	1327	1457	1909

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4498 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	4.6
10°-20°	407.5	12.8
20°-30°	591.8	18.6
30°-40°	659.0	20.7
40°-50°	582.2	18.3
50°-60°	382.0	12.0
60°-70°	233.9	7.4
70°-80°	136.1	4.3
80°-90°	41.7	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°	1144.1	36.0
0°-40°	1803.1	56.7
0°-60°	2767.3	87.0
0°-90°	3179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1534	1535	1517	1532	1517	145
15°	1402	1417	1434	1491	1493	395
25°	1187	1215	1285	1366	1400	546
35°	914	963	1047	1157	1211	570
45°	627	665	756	858	896	480
55°	360	386	455	451	417	327
65°	227	231	243	235	226	225
75°	122	123	131	134	129	129
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°	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1553.5	1534.4	1527.2	1534.4	1518.5
5°	1534.4	1535.2	1516.9	1532.0	1516.9
7.5°	1504.1	1514.5	1505.7	1528.8	1516.9
10°	1490.6	1491.4	1488.2	1512.1	1511.3
12.5°	1453.2	1455.6	1464.4	1500.2	1508.1
15°	1401.5	1417.4	1434.1	1490.6	1493.0
17.5°	1361.0	1380.1	1402.3	1462.8	1469.9
20°	1311.6	1319.6	1374.5	1427.8	1454.8
22.5°	1256.8	1271.9	1325.2	1396.8	1423.8
25°	1186.8	1215.4	1284.6	1366.5	1399.9
27.5°	1122.3	1155.7	1227.3	1318.8	1357.8
30°	1055.5	1093.7	1173.2	1263.1	1322.0
32.5°	986.3	1034.0	1109.6	1213.0	1264.7
35°	913.9	963.3	1046.8	1157.3	1210.6
37.5°	841.6	889.3	980.0	1098.5	1146.2
40°	765.2	812.1	905.2	1025.3	1080.2
42.5°	699.2	739.7	835.2	937.8	988.7
45°	626.8	665.0	756.4	858.3	896.4
47.5°	547.2	591.8	680.9	764.4	779.5
50°	474.1	520.2	605.3	653.8	642.7
52.5°	409.6	448.6	526.6	547.2	521.0
55°	360.3	385.8	455.0	451.0	416.8
57.5°	315.0	330.9	389.8	367.5	334.9
60°	284.8	291.9	327.7	307.0	287.1
62.5°	256.1	259.3	278.4	267.3	252.1
65°	226.7	230.7	242.6	235.4	225.9
67.5°	199.6	201.2	212.4	210.8	198.9
70°	172.6	175.0	182.2	185.3	178.2
72.5°	146.4	148.7	155.9	159.1	152.7
75°	121.7	123.3	131.2	133.6	128.9
77.5°	97.8	101.0	105.8	109.8	104.2
80°	74.8	76.4	81.1	85.9	83.5
82.5°	52.5	54.9	58.1	64.4	66.0
85°	32.6	34.2	35.8	40.6	46.9
87.5°	12.7	13.5	15.9	17.5	23.1
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	13.41	14.89	13.77	15.20	15.52	14.06	15.54	14.42	15.85	16.17
	3H	15.01	16.33	15.39	16.66	17.02	15.49	16.82	15.87	17.15	17.51
	4H	15.62	16.87	16.02	17.22	17.59	16.10	17.34	16.50	17.69	18.07
	6H	16.09	17.24	16.51	17.61	18.00	16.59	17.73	17.00	18.10	18.49
	8H	16.25	17.34	16.67	17.73	18.13	16.78	17.87	17.21	18.26	18.67
	12H	16.35	17.39	16.78	17.77	18.20	16.95	17.99	17.38	18.38	18.81
4H	2H	14.03	15.27	14.43	15.62	16.00	14.55	15.79	14.95	16.14	16.52
	3H	15.85	16.88	16.26	17.28	17.68	16.25	17.28	16.66	17.68	18.08
	4H	16.59	17.51	17.02	17.93	18.37	17.00	17.93	17.44	18.34	18.78
	6H	17.18	17.99	17.64	18.43	18.89	17.64	18.44	18.10	18.89	19.35
	8H	17.38	18.13	17.85	18.58	19.05	17.89	18.65	18.36	19.09	19.56
	12H	17.52	18.20	18.01	18.67	19.15	18.12	18.79	18.60	19.27	19.74
8H	4H	16.91	17.66	17.37	18.10	18.57	17.27	18.03	17.74	18.47	18.94
	6H	17.63	18.25	18.13	18.74	19.22	18.05	18.67	18.54	19.16	19.64
	8H	17.90	18.46	18.42	18.97	19.46	18.39	18.95	18.91	19.46	19.95
	12H	18.12	18.62	18.63	19.11	19.68	18.71	19.21	19.22	19.70	20.26
12H	4H	16.94	17.61	17.42	18.09	18.56	17.29	17.96	17.78	18.44	18.92
	6H	17.69	18.25	18.21	18.77	19.25	18.09	18.65	18.61	19.16	19.65
	8H	18.03	18.52	18.54	19.02	19.58	18.50	19.00	19.01	19.49	20.05