

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: P895425

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-LVR-UNV-CC83-LOW-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 4000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

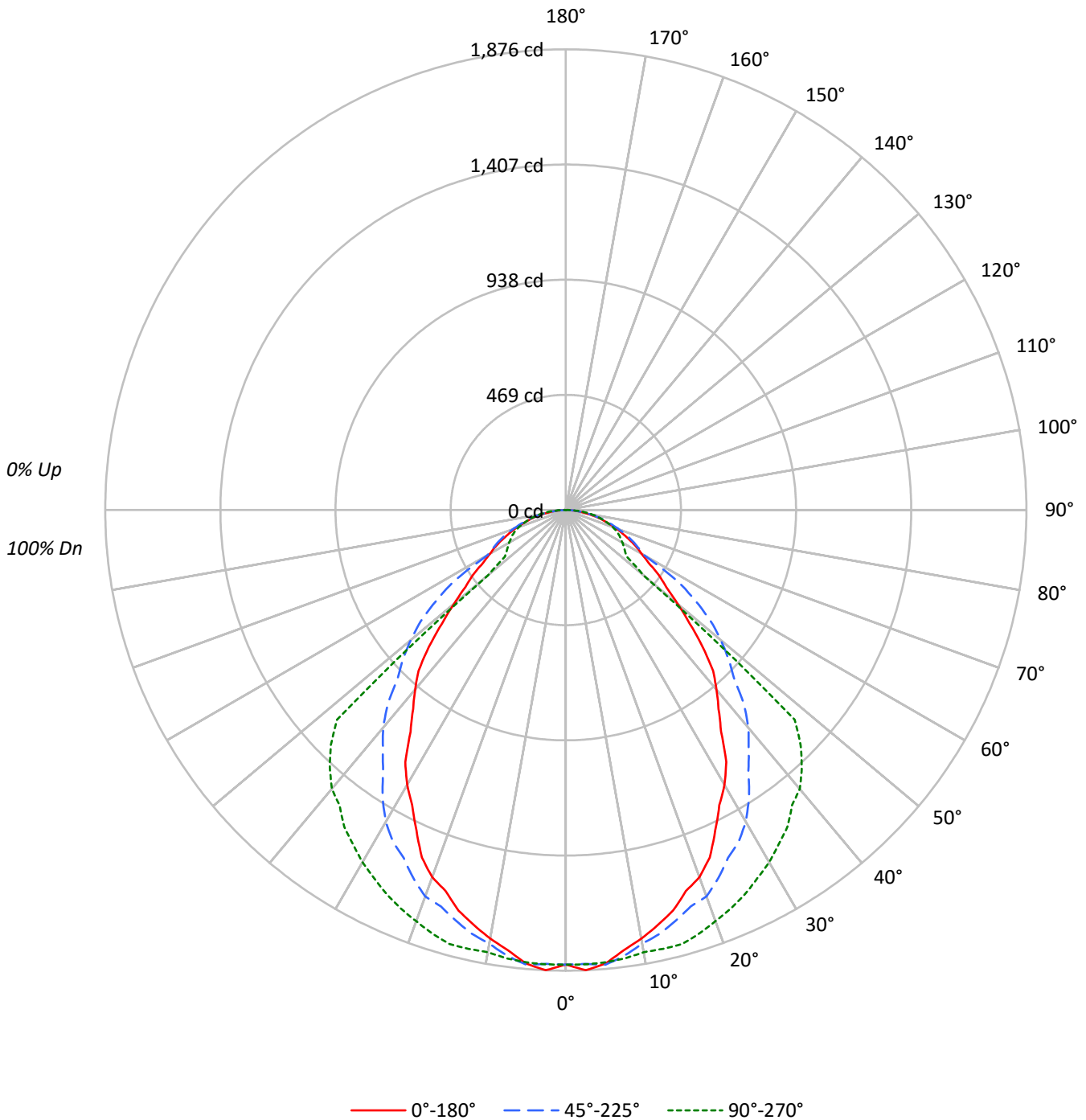
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3950.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
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	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	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	57	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	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6568	6568	6568
5°	6603	6619	6586
10°	6386	6461	6587
15°	6202	6358	6723
20°	6007	6322	6729
25°	5637	6117	6758
30°	5295	6007	6786
35°	4775	5618	6818
40°	4422	5359	6866
45°	3956	4857	6788
50°	3282	4550	2280
55°	2860	3994	1824
60°	2529	2603	1892
65°	2405	2532	2008
70°	2255	2393	2118
75°	2099	2255	2177
80°	1913	2125	2280
85°	1694	1808	2463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6788 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	4.4
10°-20°	493.9	12.5
20°-30°	726.5	18.4
30°-40°	830.9	21.0
40°-50°	786.7	19.9
50°-60°	433.5	11.0
60°-70°	278.3	7.0
70°-80°	171.8	4.3
80°-90°	52.9	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°	1396.0	35.3
0°-40°	2226.9	56.4
0°-60°	3447.1	87.3
0°-90°	3950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1851	1851	1851	1851	1851	
5°	1854	1869	1858	1858	1849	174
15°	1688	1709	1731	1822	1830	474
25°	1440	1504	1563	1665	1726	663
35°	1102	1197	1297	1485	1574	697
45°	788	863	968	1242	1353	603
55°	462	485	646	333	295	413
65°	286	296	302	268	239	284
75°	153	156	164	173	159	163
85°	42	42	44	51	60	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1851.0	1851.0	1851.0	1851.0	1851.0
2.5°	1875.6	1880.3	1850.0	1849.1	1851.9
5°	1853.8	1868.9	1858.5	1858.5	1849.1
7.5°	1807.5	1833.0	1830.2	1851.9	1841.5
10°	1772.5	1793.3	1793.3	1850.0	1828.3
12.5°	1730.9	1754.6	1767.8	1827.3	1830.2
15°	1688.4	1709.2	1730.9	1821.7	1830.2
17.5°	1626.9	1664.7	1692.2	1781.0	1808.4
20°	1591.0	1613.7	1674.2	1746.0	1782.0
22.5°	1531.5	1564.5	1623.1	1703.5	1756.4
25°	1439.8	1504.0	1562.6	1664.7	1726.2
27.5°	1354.7	1402.9	1523.9	1631.7	1690.3
30°	1292.3	1330.1	1466.2	1583.4	1656.2
32.5°	1216.7	1278.1	1388.7	1536.2	1613.7
35°	1102.3	1196.8	1297.0	1485.1	1574.0
37.5°	1021.9	1087.1	1223.3	1432.2	1514.4
40°	954.8	1014.4	1157.1	1366.0	1482.3
42.5°	887.7	935.9	1073.9	1316.9	1422.7
45°	788.4	863.1	968.0	1242.2	1352.8
47.5°	684.4	763.8	899.0	1178.8	1263.9
50°	594.6	658.0	824.3	1053.1	413.1
52.5°	516.2	574.8	744.9	381.0	312.0
55°	462.3	485.0	645.7	332.8	294.9
57.5°	398.0	434.9	541.7	316.7	279.8
60°	356.4	372.5	366.8	300.6	266.6
62.5°	323.3	334.7	332.8	284.5	251.5
65°	286.4	295.9	301.6	268.5	239.2
67.5°	249.6	258.1	266.6	248.6	222.2
70°	217.4	223.1	230.7	225.0	204.2
72.5°	184.3	191.0	195.7	200.4	180.6
75°	153.1	156.0	164.5	173.0	158.8
77.5°	124.8	127.6	133.3	142.7	135.2
80°	93.6	96.4	104.0	111.6	111.6
82.5°	66.2	68.1	72.8	83.2	87.9
85°	41.6	41.6	44.4	51.0	60.5
87.5°	16.1	16.1	18.9	22.7	30.3
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	14.49	15.97	14.86	16.29	16.60	12.29	13.77	12.66	14.09	14.40
	3H	16.02	17.34	16.39	17.67	18.03	14.62	15.95	15.00	16.28	16.64
	4H	16.61	17.85	17.01	18.20	18.58	15.57	16.82	15.97	17.16	17.54
	6H	17.06	18.21	17.48	18.58	18.97	16.36	17.50	16.77	17.87	18.26
	8H	17.21	18.30	17.64	18.69	19.09	16.67	17.76	17.10	18.15	18.55
	12H	17.31	18.35	17.74	18.73	19.16	16.92	17.96	17.35	18.34	18.77
4H	2H	15.04	16.28	15.44	16.63	17.01	13.40	14.64	13.80	14.99	15.37
	3H	16.81	17.84	17.22	18.24	18.64	15.84	16.87	16.25	17.27	17.67
	4H	17.53	18.46	17.97	18.87	19.31	16.91	17.83	17.34	18.25	18.69
	6H	18.12	18.92	18.58	19.37	19.83	17.80	18.60	18.25	19.04	19.51
	8H	18.31	19.06	18.77	19.50	19.97	18.15	18.90	18.61	19.34	19.81
	12H	18.44	19.12	18.93	19.60	20.07	18.44	19.11	18.92	19.59	20.06
8H	4H	17.84	18.59	18.30	19.04	19.50	17.29	18.05	17.76	18.49	18.96
	6H	18.55	19.17	19.05	19.67	20.14	18.33	18.95	18.83	19.45	19.92
	8H	18.81	19.37	19.33	19.88	20.37	18.78	19.34	19.29	19.85	20.34
	12H	19.02	19.52	19.53	20.01	20.58	19.16	19.66	19.67	20.15	20.72
12H	4H	17.88	18.55	18.36	19.03	19.50	17.33	18.00	17.81	18.48	18.95
	6H	18.62	19.18	19.13	19.69	20.18	18.39	18.96	18.91	19.47	19.96
	8H	18.93	19.43	19.45	19.93	20.49	18.90	19.40	19.41	19.89	20.46