

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: P895426

Luminaire Tested: 8TMB-SC3-LVR-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895426
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 5000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

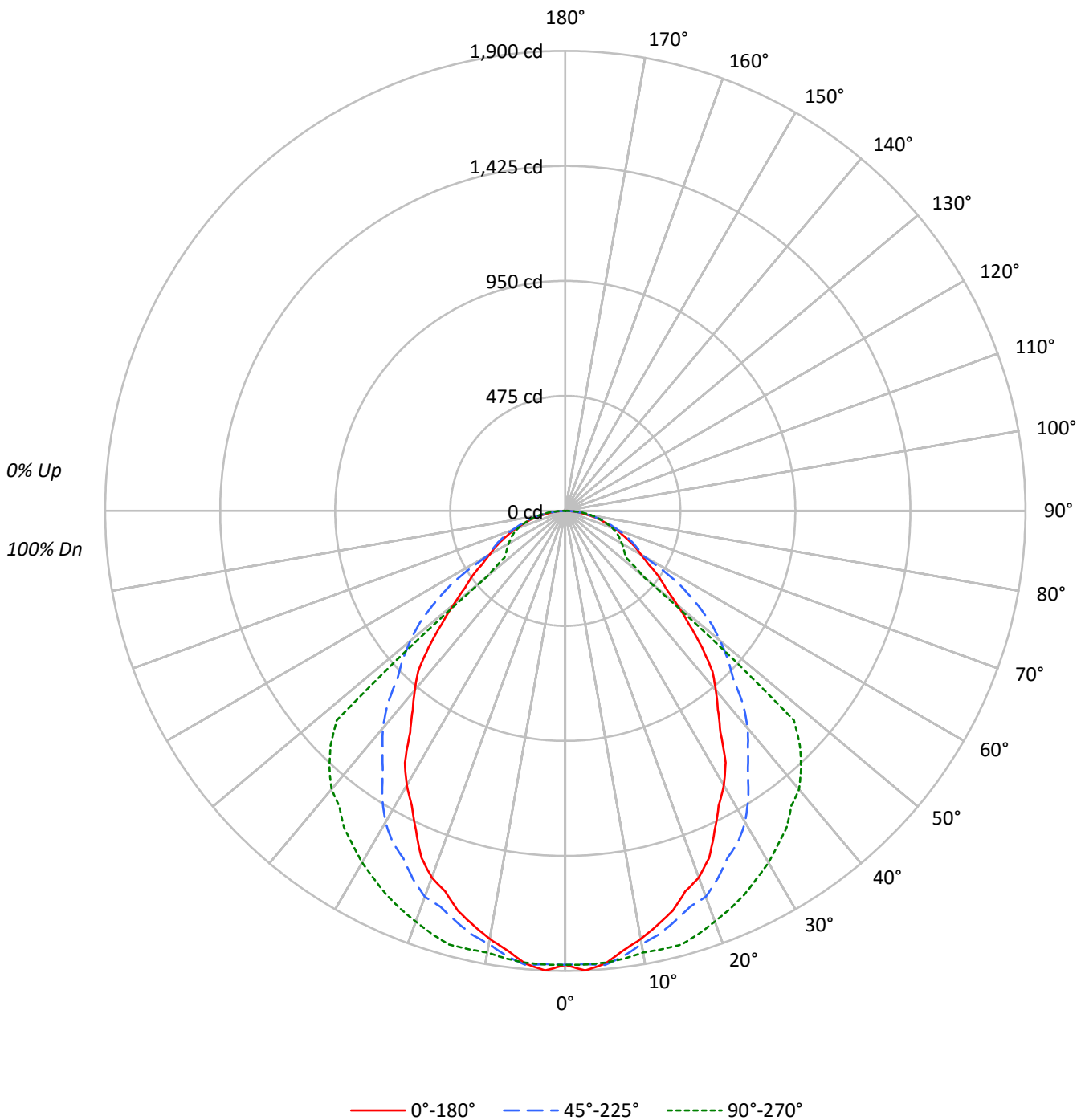
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4001.0 lumens
Efficiency: N/A
Efficacy: 119.4 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°	6652	6652	6652
5°	6688	6705	6671
10°	6469	6545	6672
15°	6282	6440	6810
20°	6085	6403	6815
25°	5709	6197	6845
30°	5363	6085	6873
35°	4836	5691	6906
40°	4479	5428	6954
45°	4007	4920	6875
50°	3325	4609	2310
55°	2896	4046	1848
60°	2562	2636	1916
65°	2436	2565	2034
70°	2284	2423	2145
75°	2126	2284	2206
80°	1937	2152	2309
85°	1714	1832	2496

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6875 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	4.4
10°-20°	500.3	12.5
20°-30°	735.9	18.4
30°-40°	841.6	21.0
40°-50°	796.9	19.9
50°-60°	439.1	11.0
60°-70°	281.9	7.0
70°-80°	174.0	4.3
80°-90°	53.5	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°	1414.0	35.3
0°-40°	2255.6	56.4
0°-60°	3491.6	87.3
0°-90°	4001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4001.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1875	1875	1875	1875	1875	
5°	1878	1893	1882	1882	1873	176
15°	1710	1731	1753	1845	1854	480
25°	1458	1524	1583	1686	1748	672
35°	1116	1212	1314	1504	1594	706
45°	799	874	980	1258	1370	611
55°	468	491	654	337	299	419
65°	290	300	306	272	242	287
75°	155	158	167	175	161	165
85°	42	42	45	52	61	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1874.9	1874.9	1874.9	1874.9	1874.9
2.5°	1899.8	1904.6	1873.9	1873.0	1875.8
5°	1877.7	1893.1	1882.5	1882.5	1873.0
7.5°	1830.8	1856.7	1853.8	1875.8	1865.3
10°	1795.4	1816.5	1816.5	1873.9	1851.9
12.5°	1753.3	1777.2	1790.6	1850.9	1853.8
15°	1710.2	1731.2	1753.3	1845.2	1853.8
17.5°	1647.9	1686.2	1714.0	1804.0	1831.8
20°	1611.6	1634.5	1695.8	1768.6	1805.0
22.5°	1551.2	1584.7	1644.1	1725.5	1779.1
25°	1458.3	1523.5	1582.8	1686.2	1748.5
27.5°	1372.2	1421.0	1543.6	1652.7	1712.1
30°	1309.0	1347.3	1485.2	1603.9	1677.6
32.5°	1232.4	1294.6	1406.6	1556.0	1634.5
35°	1116.5	1212.3	1313.8	1504.3	1594.3
37.5°	1035.1	1101.2	1239.1	1450.7	1534.0
40°	967.1	1027.4	1172.0	1383.7	1501.4
42.5°	899.1	948.0	1087.8	1333.9	1441.1
45°	798.6	874.2	980.5	1258.2	1370.2
47.5°	693.3	773.7	910.6	1194.1	1280.2
50°	602.3	666.5	835.0	1066.7	418.4
52.5°	522.8	582.2	754.5	385.9	316.0
55°	468.2	491.2	654.0	337.1	298.8
57.5°	403.1	440.5	548.7	320.8	283.4
60°	361.0	377.3	371.5	304.5	270.0
62.5°	327.5	339.0	337.1	288.2	254.7
65°	290.1	299.7	305.5	271.9	242.3
67.5°	252.8	261.4	270.0	251.8	225.0
70°	220.2	226.0	233.6	227.9	206.8
72.5°	186.7	193.4	198.2	203.0	182.9
75°	155.1	158.0	166.6	175.2	160.9
77.5°	126.4	129.3	135.0	144.6	136.9
80°	94.8	97.7	105.3	113.0	113.0
82.5°	67.0	68.9	73.7	84.3	89.1
85°	42.1	42.1	45.0	51.7	61.3
87.5°	16.3	16.3	19.2	23.0	30.6
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	14.53	16.02	14.90	16.33	16.64	12.34	13.82	12.70	14.13	14.45
	3H	16.06	17.39	16.44	17.71	18.08	14.67	15.99	15.04	16.32	16.68
	4H	16.65	17.90	17.05	18.24	18.62	15.62	16.86	16.02	17.21	17.59
	6H	17.11	18.26	17.52	18.62	19.02	16.40	17.55	16.81	17.92	18.31
	8H	17.25	18.35	17.68	18.74	19.14	16.71	17.80	17.14	18.19	18.60
	12H	17.35	18.39	17.78	18.78	19.21	16.96	18.01	17.39	18.39	18.82
4H	2H	15.08	16.33	15.49	16.68	17.06	13.44	14.68	13.84	15.03	15.41
	3H	16.86	17.89	17.27	18.29	18.69	15.89	16.91	16.30	17.32	17.72
	4H	17.58	18.50	18.01	18.92	19.36	16.95	17.88	17.39	18.29	18.73
	6H	18.16	18.97	18.62	19.41	19.87	17.84	18.65	18.30	19.09	19.55
	8H	18.35	19.10	18.82	19.55	20.02	18.19	18.94	18.66	19.39	19.86
	12H	18.49	19.16	18.97	19.64	20.11	18.48	19.15	18.96	19.63	20.10
8H	4H	17.88	18.64	18.35	19.08	19.55	17.34	18.09	17.80	18.54	19.00
	6H	18.60	19.22	19.09	19.71	20.19	18.37	19.00	18.87	19.49	19.97
	8H	18.86	19.42	19.37	19.93	20.42	18.82	19.38	19.33	19.89	20.38
	12H	19.06	19.56	19.58	20.06	20.62	19.20	19.70	19.71	20.20	20.76
12H	4H	17.92	18.59	18.40	19.07	19.54	17.37	18.05	17.86	18.53	19.00
	6H	18.66	19.22	19.17	19.73	20.22	18.44	19.00	18.95	19.51	20.00
	8H	18.98	19.48	19.49	19.97	20.54	18.95	19.45	19.46	19.94	20.50