

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: P895480

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-RFLW-UNV-CC83-LOW-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 5000K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

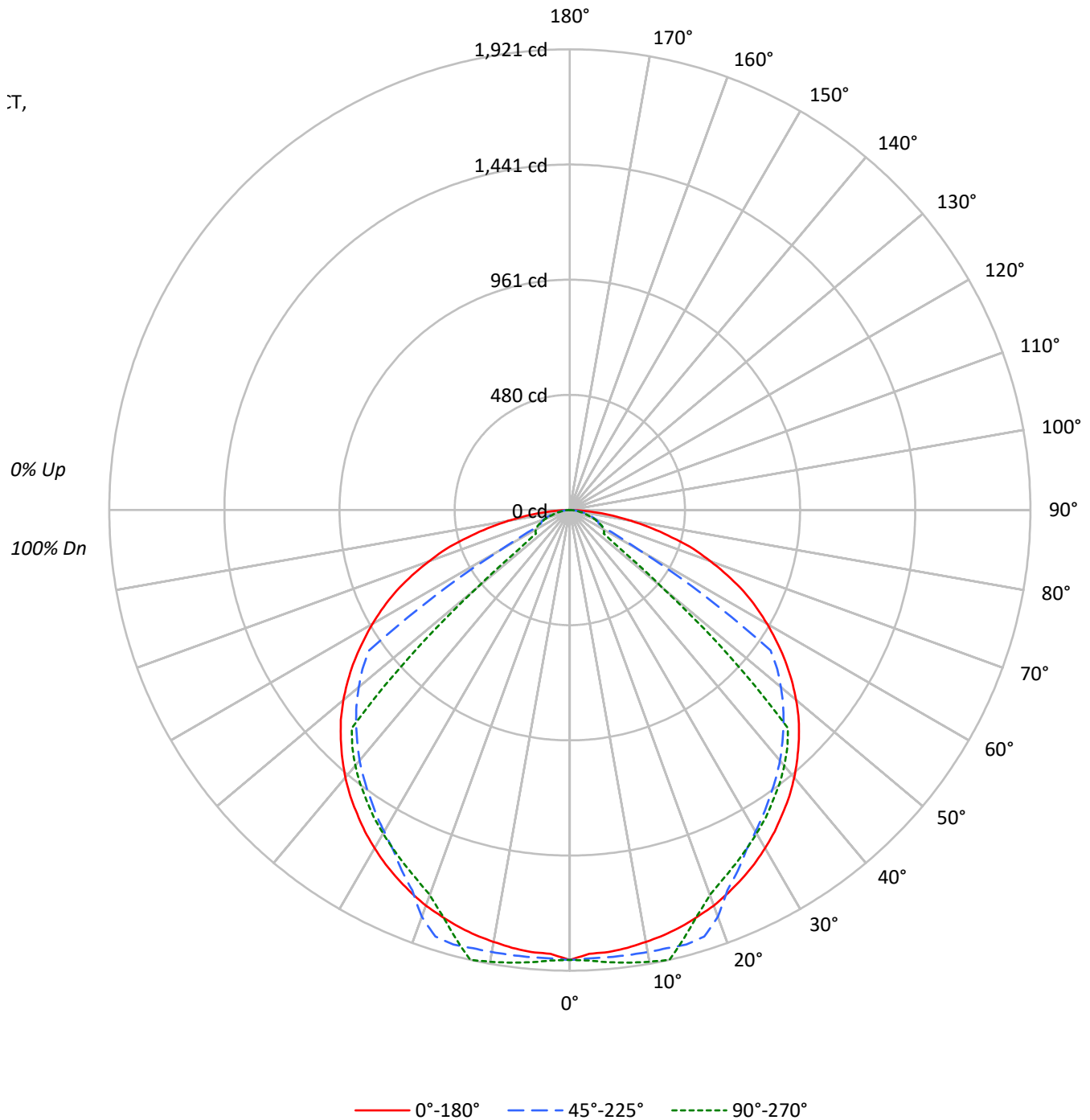
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4575.0 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38
Luminous Opening: Rectangular (W 0.21' 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	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	77	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	58	58	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	51	51	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	45	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	40	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	36	36	36	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	33	33	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12147	12147	12147
5°	12025	12165	12305
10°	12023	12306	12575
15°	12056	12575	12373
20°	12096	12437	11770
25°	12126	11850	11650
30°	12176	11581	11645
35°	12227	11512	11682
40°	12310	11528	11765
45°	12371	11544	11780
50°	12417	11572	5092
55°	12386	11536	1943
60°	12314	4402	2117
65°	12229	2044	2176
70°	11810	2200	2037
75°	11033	2099	1776
80°	9707	1846	1525
85°	7675	1597	1278

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 12417 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.1	3.9
10°-20°	520.1	11.4
20°-30°	776.1	17.0
30°-40°	940.7	20.6
40°-50°	963.2	21.1
50°-60°	640.6	14.0
60°-70°	365.1	8.0
70°-80°	153.4	3.4
80°-90°	36.6	0.8
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°	1475.4	32.2
0°-40°	2416.1	52.8
0°-60°	4019.9	87.9
0°-90°	4575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4575.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1876	1876	1876	1876	1876	
5°	1850	1886	1872	1876	1893	176
15°	1798	1848	1876	1869	1846	508
25°	1697	1779	1658	1622	1631	783
35°	1547	1575	1456	1463	1478	969
45°	1351	1269	1261	1276	1286	1042
55°	1097	1005	1022	224	172	980
65°	798	714	133	142	142	785
75°	441	92	84	73	71	468
85°	103	26	22	17	17	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1875.8	1875.8	1875.8	1875.8	1875.8
2.5°	1852.1	1890.8	1871.5	1873.6	1880.1
5°	1850.0	1886.5	1871.5	1875.8	1893.0
7.5°	1841.4	1880.1	1871.5	1884.4	1903.7
10°	1828.5	1873.6	1871.5	1893.0	1912.4
12.5°	1815.6	1860.7	1871.5	1903.7	1921.0
15°	1798.3	1847.8	1875.8	1869.3	1845.7
17.5°	1776.8	1834.9	1865.0	1772.5	1770.4
20°	1755.3	1817.7	1804.8	1716.6	1708.0
22.5°	1727.4	1800.5	1716.6	1656.4	1667.1
25°	1697.2	1779.0	1658.5	1622.0	1630.6
27.5°	1665.0	1757.5	1596.1	1583.2	1594.0
30°	1628.4	1727.4	1548.8	1544.5	1557.4
32.5°	1589.7	1669.3	1503.6	1505.8	1520.8
35°	1546.7	1574.6	1456.3	1462.8	1477.8
37.5°	1503.6	1486.4	1411.1	1421.9	1437.0
40°	1456.3	1417.6	1363.8	1374.6	1391.8
42.5°	1404.7	1344.5	1312.2	1327.2	1342.3
45°	1350.9	1269.2	1260.6	1275.6	1286.4
47.5°	1295.0	1204.6	1206.8	1217.5	912.1
50°	1232.6	1140.1	1148.7	795.9	505.5
52.5°	1165.9	1073.4	1090.6	443.1	256.0
55°	1097.1	1004.6	1021.8	223.7	172.1
57.5°	1023.9	935.7	666.9	161.3	169.9
60°	950.8	862.6	339.9	159.2	163.5
62.5°	875.5	789.5	161.3	152.7	154.9
65°	798.1	714.2	133.4	142.0	142.0
67.5°	712.0	634.6	126.9	126.9	124.8
70°	623.8	527.0	116.2	109.7	107.6
72.5°	542.1	202.2	101.1	90.3	88.2
75°	441.0	92.5	83.9	73.1	71.0
77.5°	350.6	77.4	66.7	58.1	55.9
80°	260.3	60.2	49.5	43.0	40.9
82.5°	180.7	40.9	34.4	28.0	28.0
85°	103.3	25.8	21.5	17.2	17.2
87.5°	40.9	12.9	10.8	6.5	6.5
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	21.60	23.12	21.97	23.44	23.75	9.37	10.89	9.73	11.20	11.51
	3H	23.62	24.98	24.00	25.31	25.67	11.68	13.04	12.06	13.37	13.73
	4H	24.08	25.36	24.48	25.70	26.08	12.39	13.67	12.79	14.01	14.39
	6H	24.49	25.66	24.90	26.03	26.42	12.88	14.05	13.29	14.42	14.81
	8H	24.64	25.76	25.07	26.14	26.55	13.02	14.13	13.44	14.52	14.92
	12H	24.74	25.81	25.17	26.19	26.62	13.10	14.17	13.53	14.55	14.98
4H	2H	21.44	22.71	21.84	23.06	23.44	10.16	11.44	10.56	11.79	12.16
	3H	23.65	24.69	24.06	25.09	25.49	12.68	13.72	13.09	14.12	14.52
	4H	24.09	25.03	24.53	25.45	25.89	13.50	14.43	13.93	14.85	15.29
	6H	24.56	25.37	25.02	25.82	26.28	14.09	14.90	14.55	15.35	15.81
	8H	24.75	25.51	25.21	25.96	26.42	14.26	15.02	14.72	15.46	15.93
	12H	24.90	25.58	25.39	26.06	26.53	14.38	15.06	14.86	15.53	16.01
8H	4H	24.01	24.77	24.48	25.22	25.69	14.33	15.10	14.80	15.54	16.01
	6H	24.47	25.10	24.97	25.59	26.07	14.96	15.59	15.45	16.08	16.56
	8H	24.67	25.24	25.19	25.75	26.24	15.16	15.72	15.67	16.23	16.72
	12H	24.86	25.36	25.37	25.85	26.41	15.31	15.82	15.83	16.31	16.87
12H	4H	23.98	24.66	24.46	25.14	25.61	14.41	15.08	14.89	15.56	16.04
	6H	24.42	24.99	24.94	25.50	25.99	15.05	15.62	15.56	16.13	16.61
	8H	24.65	25.15	25.16	25.64	26.21	15.30	15.81	15.81	16.30	16.86