

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: P895479

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895479
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-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 4000K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

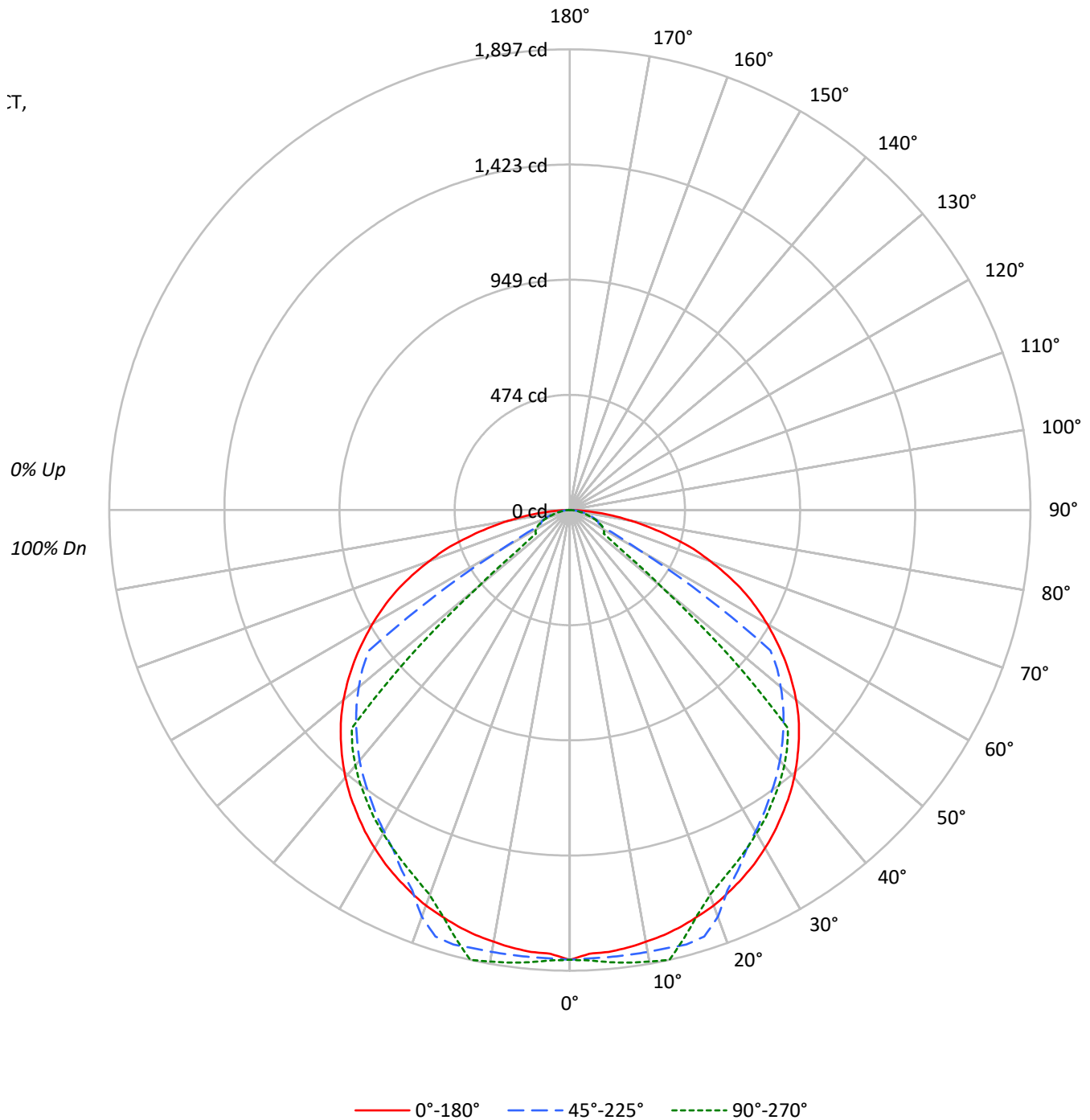
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4517.0 lumens
Efficiency: N/A
Efficacy: 134.8 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

TEST NUMBER: P895479
CATALOG NUMBER: 8TMB-SC3-RFLW-UNV-CC83-LOW-4000K

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	100	100	100	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87	87	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75	75	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64	64	64	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56	56	56	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	49	49	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43	43	43	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38	38	38	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35	35	35	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31	31	31	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11993	11993	11993
5°	11873	12011	12149
10°	11870	12150	12415
15°	11903	12416	12216
20°	11943	12279	11620
25°	11973	11700	11503
30°	12022	11434	11498
35°	12072	11367	11534
40°	12155	11382	11615
45°	12214	11398	11631
50°	12260	11425	5028
55°	12229	11389	1918
60°	12157	4346	2090
65°	12074	2018	2148
70°	11661	2172	2011
75°	10893	2072	1754
80°	9584	1820	1507
85°	7571	1575	1263

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 12260 cd/sqm



TEST NUMBER: P895479

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.9	3.9
10°-20°	513.6	11.4
20°-30°	766.3	17.0
30°-40°	928.8	20.6
40°-50°	951.0	21.1
50°-60°	632.4	14.0
60°-70°	360.5	8.0
70°-80°	151.4	3.4
80°-90°	36.1	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°	1456.7	32.2
0°-40°	2385.5	52.8
0°-60°	3969.0	87.9
0°-90°	4517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1852	1852	1852	1852	1852	
5°	1826	1863	1848	1852	1869	174
15°	1776	1824	1852	1846	1822	501
25°	1676	1756	1638	1601	1610	773
35°	1527	1555	1438	1444	1459	957
45°	1334	1253	1245	1259	1270	1029
55°	1083	992	1009	221	170	967
65°	788	705	132	140	140	775
75°	435	91	83	72	70	462
85°	102	26	21	17	17	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1852.0	1852.0	1852.0	1852.0	1852.0
2.5°	1828.6	1866.9	1847.8	1849.9	1856.3
5°	1826.5	1862.6	1847.8	1852.0	1869.0
7.5°	1818.0	1856.3	1847.8	1860.5	1879.6
10°	1805.3	1849.9	1847.8	1869.0	1888.1
12.5°	1792.5	1837.1	1847.8	1879.6	1896.6
15°	1775.5	1824.4	1852.0	1845.6	1822.3
17.5°	1754.3	1811.7	1841.4	1750.1	1747.9
20°	1733.1	1794.7	1781.9	1694.8	1686.3
22.5°	1705.5	1777.7	1694.8	1635.4	1646.0
25°	1675.7	1756.4	1637.5	1601.4	1609.9
27.5°	1643.9	1735.2	1575.9	1563.2	1573.8
30°	1607.8	1705.5	1529.2	1524.9	1537.7
32.5°	1569.5	1648.1	1484.6	1486.7	1501.6
35°	1527.1	1554.7	1437.9	1444.2	1459.1
37.5°	1484.6	1467.6	1393.3	1403.9	1418.7
40°	1437.9	1399.6	1346.5	1357.1	1374.1
42.5°	1386.9	1327.4	1295.6	1310.4	1325.3
45°	1333.8	1253.1	1244.6	1259.4	1270.1
47.5°	1278.6	1189.4	1191.5	1202.1	900.5
50°	1217.0	1125.6	1134.1	785.8	499.1
52.5°	1151.1	1059.8	1076.8	437.5	252.7
55°	1083.2	991.8	1008.8	220.9	169.9
57.5°	1011.0	923.9	658.4	159.3	167.8
60°	938.7	851.7	335.6	157.2	161.4
62.5°	864.4	779.5	159.3	150.8	152.9
65°	788.0	705.1	131.7	140.2	140.2
67.5°	703.0	626.5	125.3	125.3	123.2
70°	615.9	520.3	114.7	108.3	106.2
72.5°	535.2	199.6	99.8	89.2	87.1
75°	435.4	91.3	82.8	72.2	70.1
77.5°	346.2	76.5	65.8	57.3	55.2
80°	257.0	59.5	48.8	42.5	40.4
82.5°	178.4	40.4	34.0	27.6	27.6
85°	101.9	25.5	21.2	17.0	17.0
87.5°	40.4	12.7	10.6	6.4	6.4
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	21.56	23.08	21.92	23.39	23.71	9.32	10.84	9.69	11.16	11.47
	3H	23.58	24.94	23.95	25.26	25.63	11.64	13.00	12.02	13.32	13.69
	4H	24.04	25.31	24.44	25.66	26.04	12.35	13.62	12.75	13.97	14.35
	6H	24.45	25.62	24.86	25.99	26.38	12.83	14.01	13.25	14.37	14.77
	8H	24.60	25.71	25.02	26.10	26.50	12.97	14.09	13.40	14.48	14.88
	12H	24.69	25.76	25.12	26.14	26.57	13.06	14.13	13.49	14.51	14.94
4H	2H	21.40	22.67	21.80	23.02	23.40	10.12	11.39	10.52	11.74	12.12
	3H	23.60	24.65	24.01	25.05	25.45	12.63	13.68	13.04	14.08	14.48
	4H	24.05	24.99	24.48	25.40	25.84	13.45	14.39	13.88	14.81	15.25
	6H	24.52	25.33	24.97	25.77	26.23	14.04	14.86	14.50	15.30	15.76
	8H	24.71	25.47	25.17	25.91	26.38	14.21	14.97	14.68	15.42	15.89
	12H	24.86	25.54	25.34	26.02	26.49	14.33	15.01	14.81	15.49	15.96
8H	4H	23.97	24.73	24.43	25.17	25.64	14.29	15.05	14.75	15.50	15.96
	6H	24.43	25.06	24.92	25.55	26.03	14.91	15.54	15.41	16.03	16.51
	8H	24.63	25.19	25.14	25.70	26.19	15.11	15.68	15.63	16.19	16.68
	12H	24.81	25.31	25.32	25.81	26.37	15.27	15.77	15.78	16.26	16.83
12H	4H	23.94	24.62	24.42	25.09	25.57	14.36	15.04	14.84	15.52	15.99
	6H	24.38	24.95	24.90	25.46	25.95	15.01	15.57	15.52	16.08	16.57
	8H	24.60	25.10	25.11	25.60	26.16	15.26	15.76	15.77	16.25	16.82