

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: P895030

Luminaire Tested: 8TMB-4SL-RFLW-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895030
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-4SL-RFLW-UNV-L835
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K
Light Source: -
Ballast/Driver: -

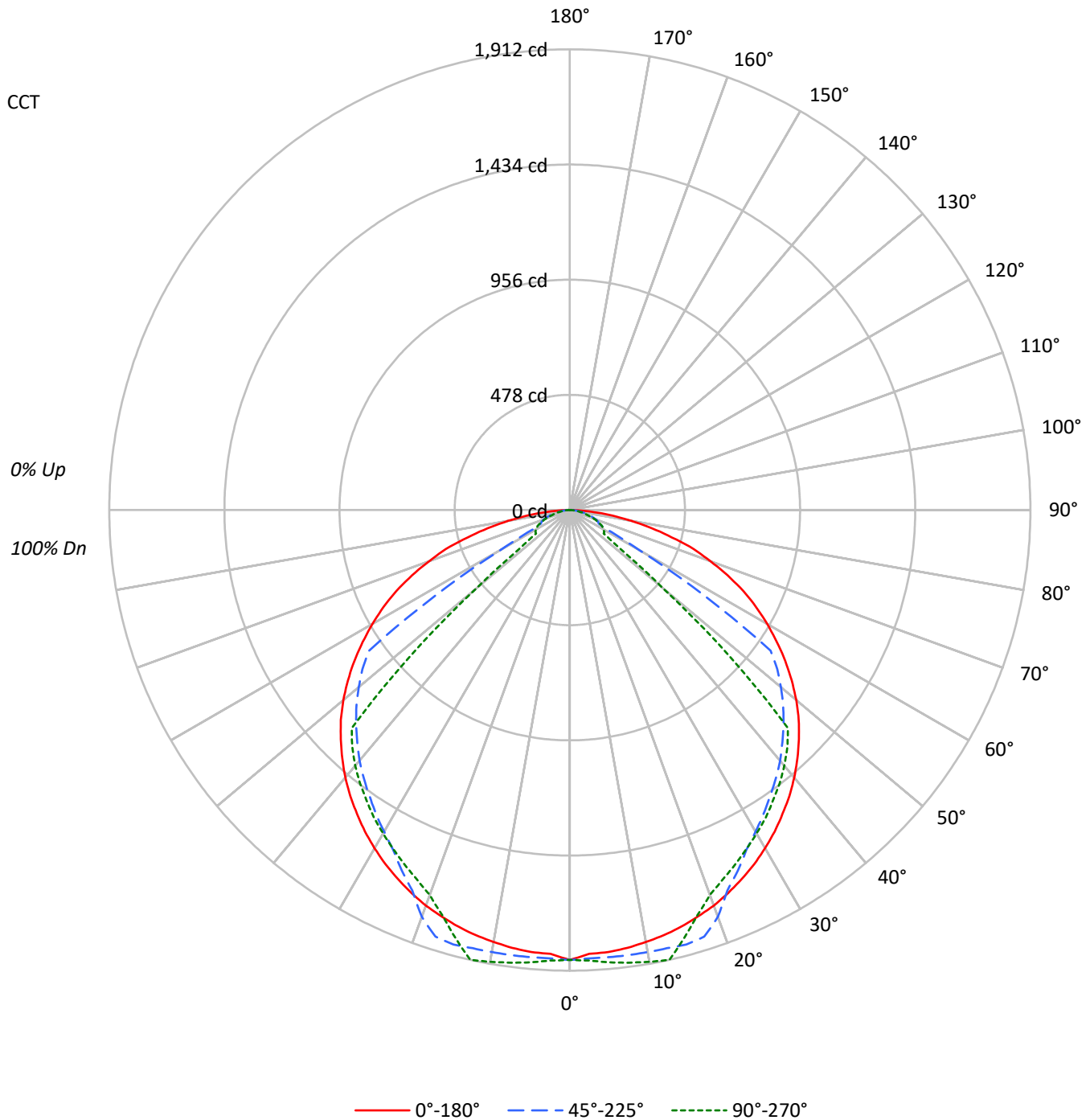
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4554.0 lumens
Efficiency: N/A
Efficacy: 165.0 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): 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	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°	12091	12091	12091
5°	11970	12109	12248
10°	11968	12249	12517
15°	12001	12517	12316
20°	12041	12380	11716
25°	12071	11795	11597
30°	12120	11528	11592
35°	12171	11459	11628
40°	12254	11476	11711
45°	12314	11491	11726
50°	12360	11519	5069
55°	12328	11483	1934
60°	12257	4381	2107
65°	12172	2035	2165
70°	11757	2189	2028
75°	10983	2089	1769
80°	9662	1835	1518
85°	7638	1590	1270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 12360 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.3	3.9
10°-20°	517.8	11.4
20°-30°	772.5	17.0
30°-40°	936.4	20.6
40°-50°	958.8	21.1
50°-60°	637.6	14.0
60°-70°	363.4	8.0
70°-80°	152.7	3.4
80°-90°	36.4	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°	1468.6	32.2
0°-40°	2405.0	52.8
0°-60°	4001.5	87.9
0°-90°	4554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1867	1867	1867	1867	1867	
5°	1842	1878	1863	1867	1884	175
15°	1790	1839	1867	1861	1837	506
25°	1690	1771	1651	1614	1623	779
35°	1540	1567	1450	1456	1471	964
45°	1345	1263	1255	1270	1280	1037
55°	1092	1000	1017	223	171	975
65°	794	711	133	141	141	782
75°	439	92	84	73	71	466
85°	103	26	21	17	17	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1867.2	1867.2	1867.2	1867.2	1867.2
2.5°	1843.6	1882.2	1862.9	1865.0	1871.5
5°	1841.5	1877.9	1862.9	1867.2	1884.3
7.5°	1832.9	1871.5	1862.9	1875.7	1895.0
10°	1820.1	1865.0	1862.9	1884.3	1903.6
12.5°	1807.2	1852.2	1862.9	1895.0	1912.1
15°	1790.1	1839.3	1867.2	1860.8	1837.2
17.5°	1768.7	1826.5	1856.5	1764.4	1762.3
20°	1747.3	1809.4	1796.5	1708.7	1700.2
22.5°	1719.4	1792.2	1708.7	1648.8	1659.5
25°	1689.5	1770.8	1650.9	1614.5	1623.1
27.5°	1657.3	1749.4	1588.8	1576.0	1586.7
30°	1620.9	1719.4	1541.7	1537.4	1550.3
32.5°	1582.4	1661.6	1496.7	1498.9	1513.9
35°	1539.6	1567.4	1449.6	1456.1	1471.0
37.5°	1496.7	1479.6	1404.7	1415.4	1430.4
40°	1449.6	1411.1	1357.6	1368.3	1385.4
42.5°	1398.2	1338.3	1306.2	1321.2	1336.1
45°	1344.7	1263.3	1254.8	1269.8	1280.5
47.5°	1289.0	1199.1	1201.2	1212.0	907.9
50°	1226.9	1134.9	1143.4	792.3	503.2
52.5°	1160.6	1068.5	1085.6	441.1	254.8
55°	1092.0	1000.0	1017.1	222.7	171.3
57.5°	1019.2	931.4	663.8	160.6	169.2
60°	946.4	858.6	338.3	158.5	162.7
62.5°	871.5	785.8	160.6	152.0	154.2
65°	794.4	710.9	132.8	141.3	141.3
67.5°	708.8	631.7	126.3	126.3	124.2
70°	621.0	524.6	115.6	109.2	107.1
72.5°	539.6	201.3	100.6	89.9	87.8
75°	439.0	92.1	83.5	72.8	70.7
77.5°	349.0	77.1	66.4	57.8	55.7
80°	259.1	60.0	49.2	42.8	40.7
82.5°	179.9	40.7	34.3	27.8	27.8
85°	102.8	25.7	21.4	17.1	17.1
87.5°	40.7	12.8	10.7	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	21.58	23.11	21.95	23.42	23.73	9.35	10.87	9.72	11.19	11.50
	3H	23.61	24.96	23.98	25.29	25.65	11.67	13.02	12.04	13.35	13.71
	4H	24.07	25.34	24.47	25.69	26.07	12.38	13.65	12.78	14.00	14.38
	6H	24.47	25.65	24.89	26.01	26.41	12.86	14.04	13.28	14.40	14.79
	8H	24.62	25.74	25.05	26.13	26.53	13.00	14.12	13.43	14.51	14.91
	12H	24.72	25.79	25.15	26.17	26.60	13.09	14.15	13.52	14.54	14.97
4H	2H	21.43	22.70	21.83	23.05	23.43	10.15	11.42	10.55	11.77	12.15
	3H	23.63	24.68	24.04	25.08	25.48	12.66	13.71	13.07	14.11	14.51
	4H	24.08	25.02	24.51	25.43	25.87	13.48	14.42	13.91	14.84	15.27
	6H	24.54	25.36	25.00	25.80	26.26	14.07	14.89	14.53	15.33	15.79
	8H	24.73	25.50	25.20	25.94	26.41	14.24	15.00	14.71	15.45	15.92
	12H	24.89	25.57	25.37	26.04	26.52	14.36	15.04	14.84	15.52	15.99
8H	4H	24.00	24.76	24.46	25.20	25.67	14.32	15.08	14.78	15.52	15.99
	6H	24.46	25.08	24.95	25.58	26.05	14.94	15.57	15.44	16.06	16.54
	8H	24.66	25.22	25.17	25.73	26.22	15.14	15.71	15.66	16.22	16.71
	12H	24.84	25.34	25.35	25.83	26.40	15.30	15.80	15.81	16.29	16.86
12H	4H	23.97	24.64	24.45	25.12	25.59	14.39	15.07	14.87	15.55	16.02
	6H	24.41	24.98	24.92	25.49	25.97	15.03	15.60	15.55	16.11	16.60
	8H	24.63	25.13	25.14	25.63	26.19	15.29	15.79	15.80	16.28	16.85