

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: P895035

Luminaire Tested: 8TMB-4SL-RFLW-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895035
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-L940
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 4000K
Light Source: -
Ballast/Driver: -

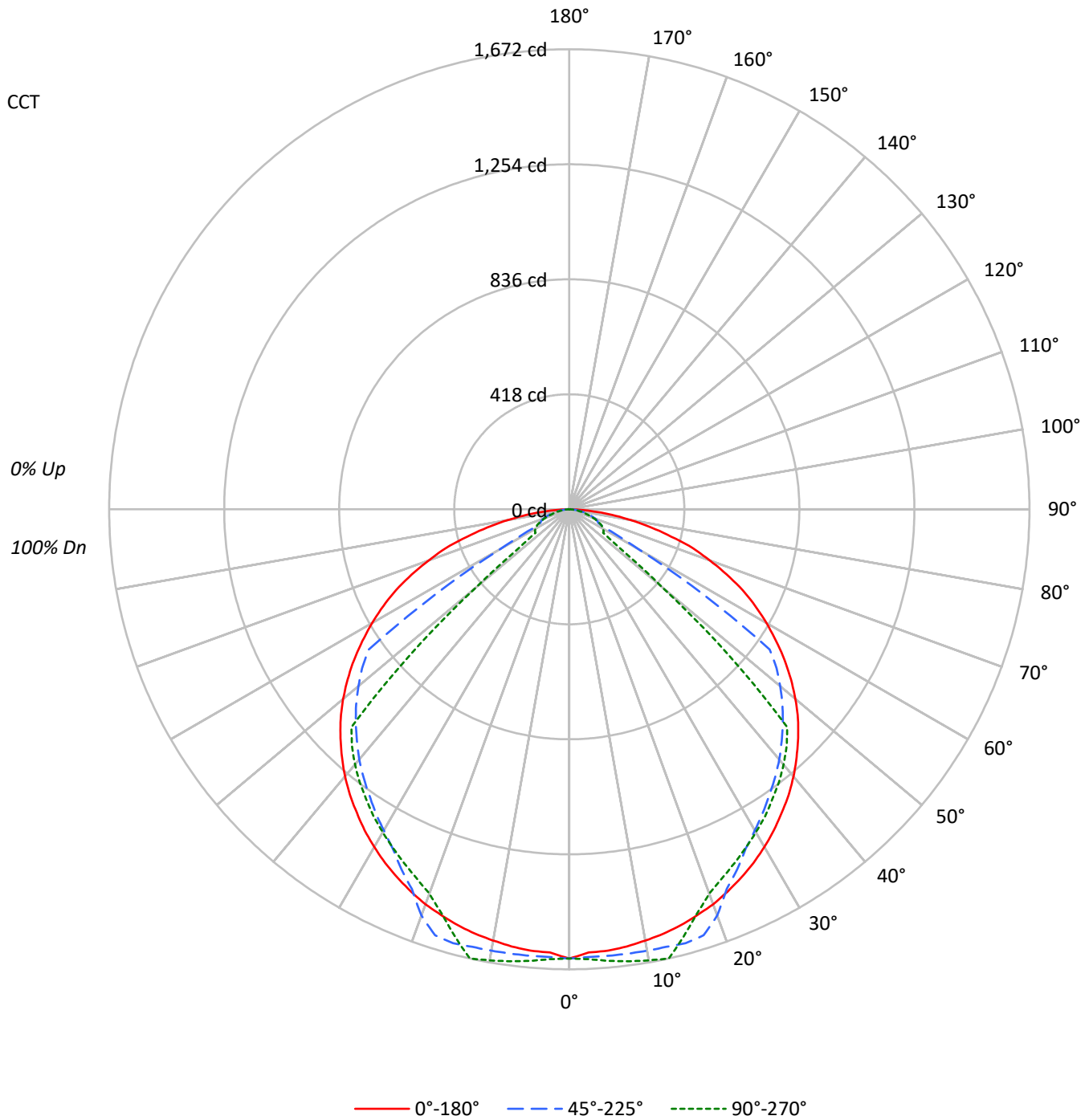
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3982.0 lumens
Efficiency: N/A
Efficacy: 144.3 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 (Ain): 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64	64	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56	56	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	49	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43	43	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38	38	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35	35	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31	31	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10572	10572	10572
5°	10467	10588	10710
10°	10465	10711	10945
15°	10493	10945	10769
20°	10528	10825	10244
25°	10554	10314	10140
30°	10597	10080	10135
35°	10642	10020	10168
40°	10715	10034	10240
45°	10768	10048	10253
50°	10807	10072	4433
55°	10780	10040	1691
60°	10718	3831	1843
65°	10643	1779	1894
70°	10281	1914	1772
75°	9602	1826	1546
80°	8446	1607	1328
85°	6679	1389	1114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 10807 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	3.9
10°-20°	452.7	11.4
20°-30°	675.5	17.0
30°-40°	818.8	20.6
40°-50°	838.4	21.1
50°-60°	557.5	14.0
60°-70°	317.8	8.0
70°-80°	133.5	3.4
80°-90°	31.8	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°	1284.2	32.2
0°-40°	2102.9	52.8
0°-60°	3498.9	87.9
0°-90°	3982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3982.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1633	1633	1633	1633	1633	
5°	1610	1642	1629	1633	1648	153
15°	1565	1608	1633	1627	1606	442
25°	1477	1548	1444	1412	1419	682
35°	1346	1370	1268	1273	1286	843
45°	1176	1105	1097	1110	1120	907
55°	955	874	889	195	150	853
65°	695	622	116	124	124	684
75°	384	80	73	64	62	408
85°	90	22	19	15	15	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1632.7	1632.7	1632.7	1632.7	1632.7
2.5°	1612.1	1645.8	1628.9	1630.8	1636.4
5°	1610.2	1642.0	1628.9	1632.7	1647.6
7.5°	1602.7	1636.4	1628.9	1640.1	1657.0
10°	1591.5	1630.8	1628.9	1647.6	1664.5
12.5°	1580.2	1619.5	1628.9	1657.0	1672.0
15°	1565.2	1608.3	1632.7	1627.0	1606.4
17.5°	1546.5	1597.1	1623.3	1542.8	1540.9
20°	1527.8	1582.1	1570.9	1494.1	1486.6
22.5°	1503.5	1567.1	1494.1	1441.7	1451.0
25°	1477.2	1548.4	1443.5	1411.7	1419.2
27.5°	1449.2	1529.7	1389.3	1378.0	1387.4
30°	1417.3	1503.5	1348.1	1344.3	1355.5
32.5°	1383.6	1452.9	1308.7	1310.6	1323.7
35°	1346.2	1370.5	1267.6	1273.2	1286.3
37.5°	1308.7	1293.8	1228.2	1237.6	1250.7
40°	1267.6	1233.8	1187.0	1196.4	1211.4
42.5°	1222.6	1170.2	1142.1	1155.2	1168.3
45°	1175.8	1104.7	1097.2	1110.3	1119.6
47.5°	1127.1	1048.5	1050.4	1059.7	793.9
50°	1072.8	992.3	999.8	692.8	440.0
52.5°	1014.8	934.3	949.3	385.7	222.8
55°	954.9	874.4	889.3	194.7	149.8
57.5°	891.2	814.5	580.4	140.4	147.9
60°	827.6	750.8	295.8	138.6	142.3
62.5°	762.0	687.1	140.4	132.9	134.8
65°	694.6	621.6	116.1	123.6	123.6
67.5°	619.7	552.3	110.5	110.5	108.6
70°	543.0	458.7	101.1	95.5	93.6
72.5°	471.8	176.0	88.0	78.6	76.8
75°	383.8	80.5	73.0	63.7	61.8
77.5°	305.2	67.4	58.0	50.6	48.7
80°	226.5	52.4	43.1	37.4	35.6
82.5°	157.3	35.6	30.0	24.3	24.3
85°	89.9	22.5	18.7	15.0	15.0
87.5°	35.6	11.2	9.4	5.6	5.6
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	21.12	22.64	21.48	22.95	23.27	8.88	10.40	9.25	10.72	11.03
	3H	23.14	24.50	23.52	24.83	25.19	11.20	12.56	11.58	12.89	13.25
	4H	23.60	24.87	24.00	25.22	25.60	11.91	13.18	12.31	13.53	13.91
	6H	24.01	25.18	24.42	25.55	25.94	12.40	13.57	12.81	13.94	14.33
	8H	24.16	25.27	24.58	25.66	26.06	12.53	13.65	12.96	14.04	14.44
	12H	24.26	25.32	24.69	25.71	26.13	12.62	13.69	13.05	14.07	14.50
4H	2H	20.96	22.23	21.36	22.58	22.96	9.68	10.95	10.08	11.30	11.68
	3H	23.16	24.21	23.57	24.61	25.01	12.19	13.24	12.60	13.64	14.04
	4H	23.61	24.55	24.04	24.97	25.41	13.01	13.95	13.45	14.37	14.81
	6H	24.08	24.89	24.53	25.33	25.80	13.61	14.42	14.06	14.86	15.33
	8H	24.27	25.03	24.73	25.47	25.94	13.78	14.54	14.24	14.98	15.45
	12H	24.42	25.10	24.90	25.58	26.05	13.89	14.57	14.38	15.05	15.52
8H	4H	23.53	24.29	23.99	24.74	25.20	13.85	14.61	14.32	15.06	15.53
	6H	23.99	24.62	24.49	25.11	25.59	14.48	15.10	14.97	15.60	16.07
	8H	24.19	24.75	24.70	25.26	25.75	14.68	15.24	15.19	15.75	16.24
	12H	24.37	24.88	24.88	25.37	25.93	14.83	15.33	15.34	15.83	16.39
12H	4H	23.50	24.18	23.98	24.66	25.13	13.92	14.60	14.41	15.08	15.55
	6H	23.94	24.51	24.46	25.02	25.51	14.57	15.13	15.08	15.64	16.13
	8H	24.16	24.67	24.68	25.16	25.72	14.82	15.32	15.33	15.82	16.38