

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: P895452

Luminaire Tested: 8TMB-SC3-LVRA-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-LVRA-UNV-CC93-LOW-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 4000K CCT, LO lumen setting
Light Source: -
Ballast/Driver: -

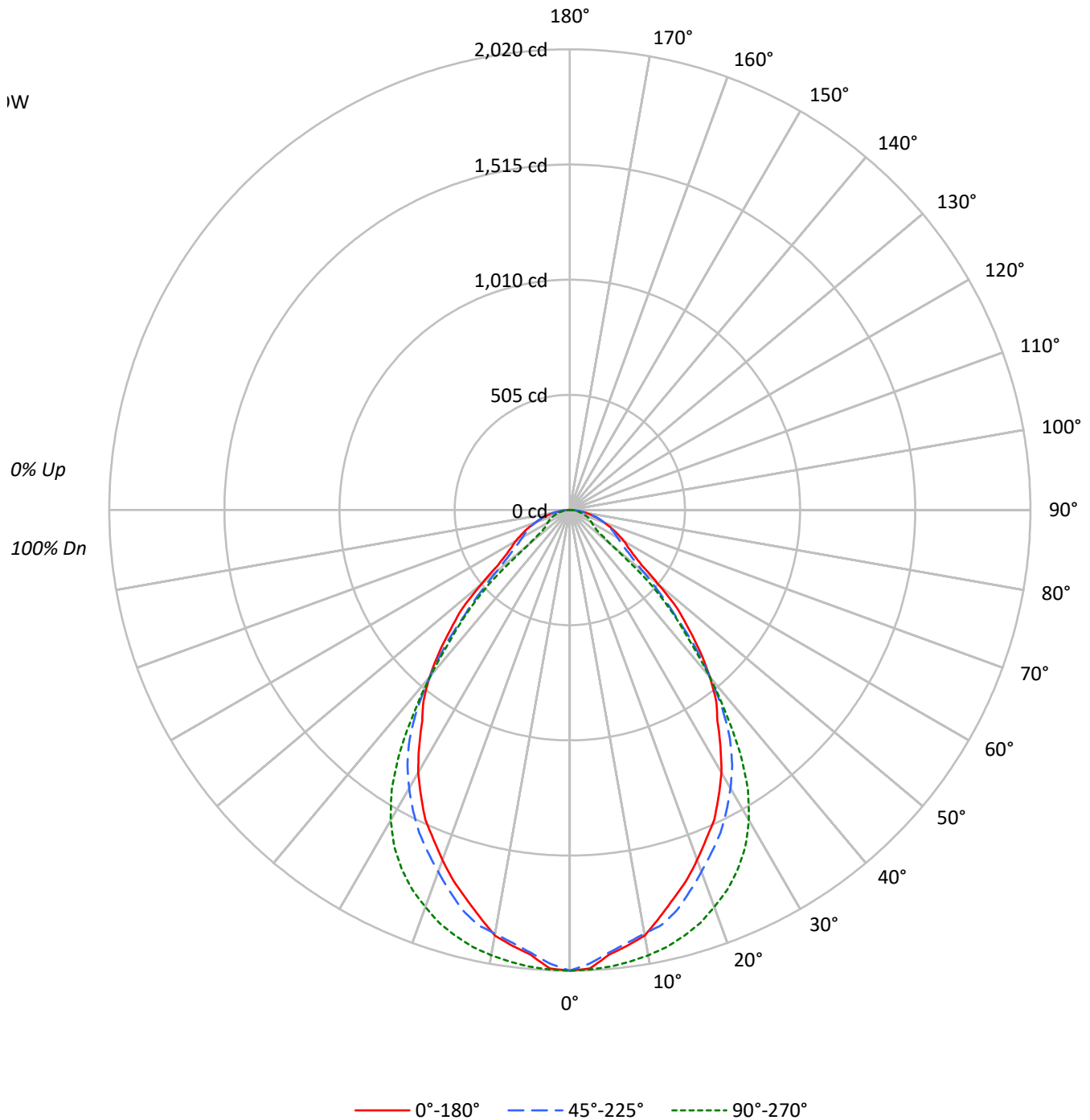
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3278.0 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	93	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	85	82	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	46	40	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7167	7167	7167
5°	6973	6942	7159
10°	6825	6795	7142
15°	6473	6671	7102
20°	6166	6374	6993
25°	5865	6116	6815
30°	5449	5773	6434
35°	4886	5306	5644
40°	4427	4436	4412
45°	3701	3278	3197
50°	2796	2307	1308
55°	2103	1845	825
60°	1954	1700	794
65°	1818	1696	795
70°	1663	1663	783
75°	1577	1620	757
80°	1457	1532	776
85°	1270	1335	847

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3787 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	5.7
10°-20°	514.1	15.7
20°-30°	729.0	22.2
30°-40°	751.0	22.9
40°-50°	524.5	16.0
50°-60°	251.7	7.7
60°-70°	176.6	5.4
70°-80°	110.4	3.4
80°-90°	34.1	1.0
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°	1429.6	43.6
0°-40°	2180.6	66.5
0°-60°	2956.9	90.2
0°-90°	3278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2020	2020	2020	2020	2020	
5°	1958	1955	1949	2000	2010	185
15°	1762	1775	1816	1868	1933	496
25°	1498	1513	1562	1668	1741	685
35°	1128	1159	1225	1250	1303	711
45°	738	755	653	620	637	568
55°	340	323	298	191	133	319
65°	217	202	202	154	95	215
75°	115	114	118	102	55	121
85°	31	31	33	32	21	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2019.8	2019.8	2019.8	2019.8	2019.8
2.5°	2012.0	2005.7	1990.6	2018.2	2016.1
5°	1957.8	1955.2	1949.0	2000.0	2009.9
7.5°	1927.1	1921.9	1914.6	1970.8	1998.4
10°	1894.3	1900.6	1886.0	1937.5	1982.3
12.5°	1826.6	1843.3	1863.1	1903.2	1962.5
15°	1762.1	1775.1	1816.2	1868.3	1933.4
17.5°	1701.7	1716.8	1752.2	1830.3	1899.5
20°	1633.0	1653.8	1688.2	1788.1	1852.1
22.5°	1562.2	1581.5	1624.7	1731.9	1803.2
25°	1498.2	1513.3	1562.2	1667.9	1740.7
27.5°	1413.3	1441.4	1487.8	1589.8	1666.3
30°	1330.0	1354.0	1409.1	1495.0	1570.5
32.5°	1229.6	1264.4	1325.3	1390.9	1453.9
35°	1128.0	1158.8	1224.9	1250.4	1303.0
37.5°	1054.1	1062.5	1099.9	1096.8	1126.5
40°	955.7	972.4	957.8	918.8	952.6
42.5°	849.6	869.3	810.5	765.2	777.2
45°	737.6	754.8	653.3	620.0	637.2
47.5°	640.8	639.2	526.8	504.4	480.5
50°	506.5	523.2	418.0	376.4	236.9
52.5°	395.6	401.9	344.6	240.5	155.6
55°	339.9	323.3	298.3	191.0	133.3
57.5°	301.9	281.1	264.4	177.5	121.8
60°	275.4	251.9	239.5	168.7	111.9
62.5°	245.2	227.0	222.3	160.9	103.1
65°	216.6	202.5	202.0	153.6	94.7
67.5°	187.9	180.1	182.2	144.7	85.4
70°	160.3	158.8	160.3	133.3	75.5
72.5°	136.9	135.3	139.5	118.7	64.5
75°	115.0	113.5	118.2	102.0	55.2
77.5°	91.6	92.7	95.8	84.9	46.3
80°	71.3	71.3	75.0	66.6	38.0
82.5°	51.0	51.5	53.6	48.9	29.7
85°	31.2	31.2	32.8	32.3	20.8
87.5°	10.4	12.0	14.1	15.1	10.4
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	12.49	13.84	12.85	14.16	14.47	8.82	10.17	9.19	10.49	10.80
	3H	14.23	15.43	14.61	15.76	16.13	10.80	12.00	11.18	12.33	12.70
	4H	14.90	16.03	15.30	16.38	16.76	11.50	12.63	11.90	12.98	13.36
	6H	15.41	16.44	15.82	16.81	17.21	12.02	13.06	12.44	13.43	13.83
	8H	15.58	16.56	16.01	16.95	17.36	12.21	13.20	12.64	13.59	13.99
	12H	15.69	16.63	16.12	17.01	17.44	12.35	13.29	12.78	13.67	14.10
4H	2H	13.02	14.15	13.42	14.50	14.88	10.44	11.57	10.85	11.92	12.30
	3H	15.00	15.93	15.41	16.33	16.73	12.62	13.55	13.03	13.96	14.36
	4H	15.80	16.63	16.23	17.05	17.49	13.50	14.34	13.94	14.76	15.20
	6H	16.44	17.17	16.90	17.61	18.08	14.14	14.87	14.61	15.31	15.78
	8H	16.66	17.34	17.13	17.78	18.25	14.35	15.03	14.82	15.48	15.95
	12H	16.82	17.42	17.30	17.90	18.37	14.51	15.11	15.00	15.59	16.07
8H	4H	16.08	16.76	16.55	17.21	17.68	14.15	14.83	14.62	15.27	15.74
	6H	16.87	17.42	17.37	17.92	18.40	15.01	15.57	15.51	16.06	16.54
	8H	17.17	17.67	17.69	18.18	18.67	15.34	15.84	15.86	16.35	16.84
	12H	17.40	17.84	17.92	18.34	18.91	15.60	16.04	16.12	16.54	17.11
12H	4H	16.10	16.70	16.59	17.18	17.66	14.22	14.82	14.71	15.31	15.78
	6H	16.92	17.42	17.44	17.93	18.42	15.15	15.65	15.67	16.16	16.65
	8H	17.28	17.72	17.80	18.22	18.79	15.56	16.00	16.08	16.50	17.07