

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: P895453

Luminaire Tested: 8TMB-SC3-LVRA-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

**Test Information**

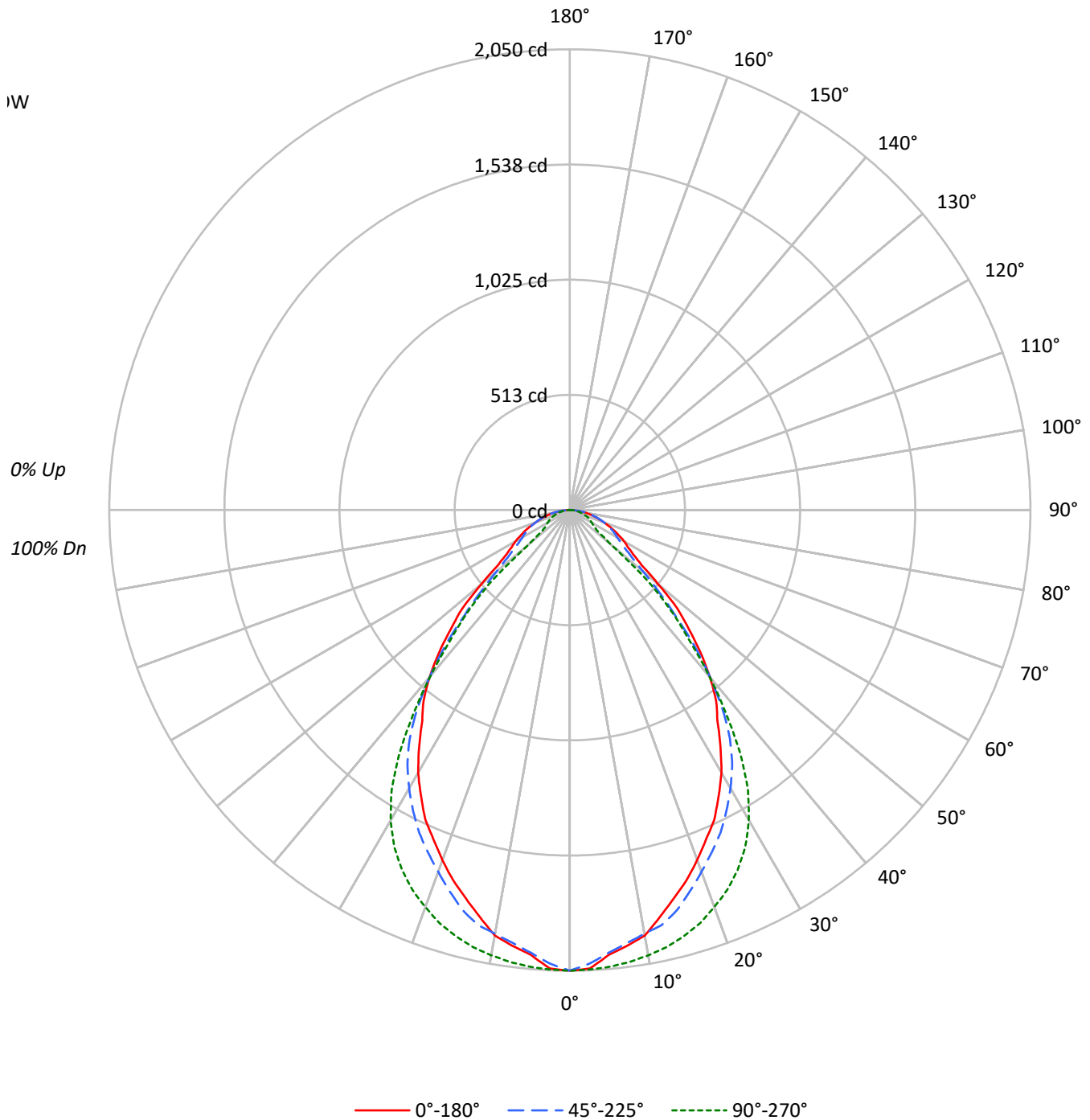
Test Method: LM-79-2019  
Report Number: P895453  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-LVRA-UNV-CC93-LOW-5000K  
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT, LO lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3327.0 lumens  
Efficiency: N/A  
Efficacy: 99.3 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	100	100	100	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	78	78	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	69	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55	55	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50	50	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45	45	45	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41	41	41	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35	35

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7274	7274	7274
5°	7077	7045	7265
10°	6927	6897	7249
15°	6569	6771	7208
20°	6258	6470	7098
25°	5953	6207	6917
30°	5531	5860	6531
35°	4959	5385	5728
40°	4493	4503	4478
45°	3757	3327	3245
50°	2838	2342	1327
55°	2134	1872	837
60°	1983	1724	806
65°	1845	1721	808
70°	1688	1688	795
75°	1601	1644	768
80°	1479	1555	789
85°	1291	1356	859

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 3844 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.4	5.7
10°-20°	521.8	15.7
20°-30°	739.9	22.2
30°-40°	762.2	22.9
40°-50°	532.4	16.0
50°-60°	255.5	7.7
60°-70°	179.2	5.4
70°-80°	112.1	3.4
80°-90°	34.7	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°	1451.0	43.6
0°-40°	2213.2	66.5
0°-60°	3001.1	90.2
0°-90°	3327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3327.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2050	2050	2050	2050	2050	
5°	1987	1984	1978	2030	2040	188
15°	1788	1802	1843	1896	1962	504
25°	1521	1536	1586	1693	1767	695
35°	1145	1176	1243	1269	1322	721
45°	749	766	663	629	647	577
55°	345	328	303	194	135	323
65°	220	206	205	156	96	218
75°	117	115	120	104	56	123
85°	32	32	33	33	21	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2050.0	2050.0	2050.0	2050.0	2050.0
2.5°	2042.0	2035.7	2020.4	2048.4	2046.3
5°	1987.1	1984.4	1978.1	2029.9	2039.9
7.5°	1955.9	1950.6	1943.2	2000.3	2028.3
10°	1922.6	1929.0	1914.2	1966.5	2011.9
12.5°	1853.9	1870.8	1890.9	1931.6	1991.8
15°	1788.4	1801.6	1843.4	1896.2	1962.3
17.5°	1727.1	1742.5	1778.4	1857.6	1927.9
20°	1657.4	1678.5	1713.4	1814.8	1879.8
22.5°	1585.5	1605.1	1648.9	1757.8	1830.2
25°	1520.6	1535.9	1585.5	1692.8	1766.8
27.5°	1434.4	1463.0	1510.0	1613.5	1691.2
30°	1349.9	1374.2	1430.2	1517.4	1594.0
32.5°	1247.9	1283.3	1345.2	1411.7	1475.7
35°	1144.9	1176.1	1243.2	1269.1	1322.4
37.5°	1069.9	1078.3	1116.4	1113.2	1143.3
40°	970.0	986.9	972.1	932.5	966.9
42.5°	862.2	882.3	822.6	776.7	788.8
45°	748.7	766.1	663.1	629.3	646.7
47.5°	650.4	648.8	534.7	512.0	487.7
50°	514.1	531.0	424.3	382.0	240.4
52.5°	401.5	407.9	349.8	244.1	158.0
55°	345.0	328.1	302.7	193.9	135.3
57.5°	306.4	285.3	268.4	180.2	123.6
60°	279.5	255.7	243.0	171.2	113.6
62.5°	248.8	230.4	225.6	163.3	104.6
65°	219.8	205.5	205.0	155.9	96.2
67.5°	190.7	182.8	184.9	146.9	86.6
70°	162.7	161.1	162.7	135.3	76.6
72.5°	139.0	137.4	141.6	120.5	65.5
75°	116.8	115.2	119.9	103.6	56.0
77.5°	93.0	94.0	97.2	86.1	47.0
80°	72.4	72.4	76.1	67.6	38.6
82.5°	51.8	52.3	54.4	49.7	30.1
85°	31.7	31.7	33.3	32.8	21.1
87.5°	10.6	12.2	14.3	15.3	10.6
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	12.54	13.89	12.91	14.21	14.52	8.87	10.23	9.24	10.54	10.86
	3H	14.28	15.49	14.66	15.82	16.18	10.85	12.06	11.23	12.39	12.75
	4H	14.95	16.08	15.35	16.43	16.81	11.55	12.68	11.96	13.03	13.41
	6H	15.46	16.50	15.87	16.87	17.26	12.08	13.12	12.49	13.48	13.88
	8H	15.63	16.61	16.06	17.00	17.41	12.26	13.25	12.69	13.64	14.04
	12H	15.74	16.68	16.17	17.06	17.49	12.40	13.34	12.83	13.73	14.16
4H	2H	13.07	14.20	13.47	14.55	14.93	10.50	11.62	10.90	11.97	12.36
	3H	15.05	15.98	15.46	16.38	16.78	12.67	13.60	13.09	14.01	14.41
	4H	15.85	16.69	16.28	17.10	17.55	13.55	14.39	13.99	14.81	15.25
	6H	16.49	17.22	16.96	17.66	18.13	14.20	14.92	14.66	15.37	15.83
	8H	16.71	17.39	17.18	17.84	18.31	14.41	15.08	14.87	15.53	16.00
	12H	16.87	17.47	17.35	17.95	18.42	14.56	15.16	15.05	15.64	16.12
8H	4H	16.13	16.81	16.60	17.26	17.73	14.20	14.88	14.67	15.33	15.80
	6H	16.92	17.47	17.42	17.97	18.45	15.06	15.62	15.56	16.11	16.59
	8H	17.22	17.72	17.74	18.23	18.72	15.39	15.89	15.91	16.40	16.90
	12H	17.45	17.90	17.97	18.39	18.96	15.65	16.10	16.17	16.59	17.16
12H	4H	16.15	16.75	16.64	17.23	17.71	14.27	14.87	14.76	15.36	15.83
	6H	16.97	17.47	17.49	17.98	18.47	15.20	15.70	15.72	16.21	16.70
	8H	17.33	17.78	17.85	18.27	18.84	15.61	16.05	16.13	16.55	17.12