

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: P895465

Luminaire Tested: 8TMB-SC3-LVRF-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

**Test Information**

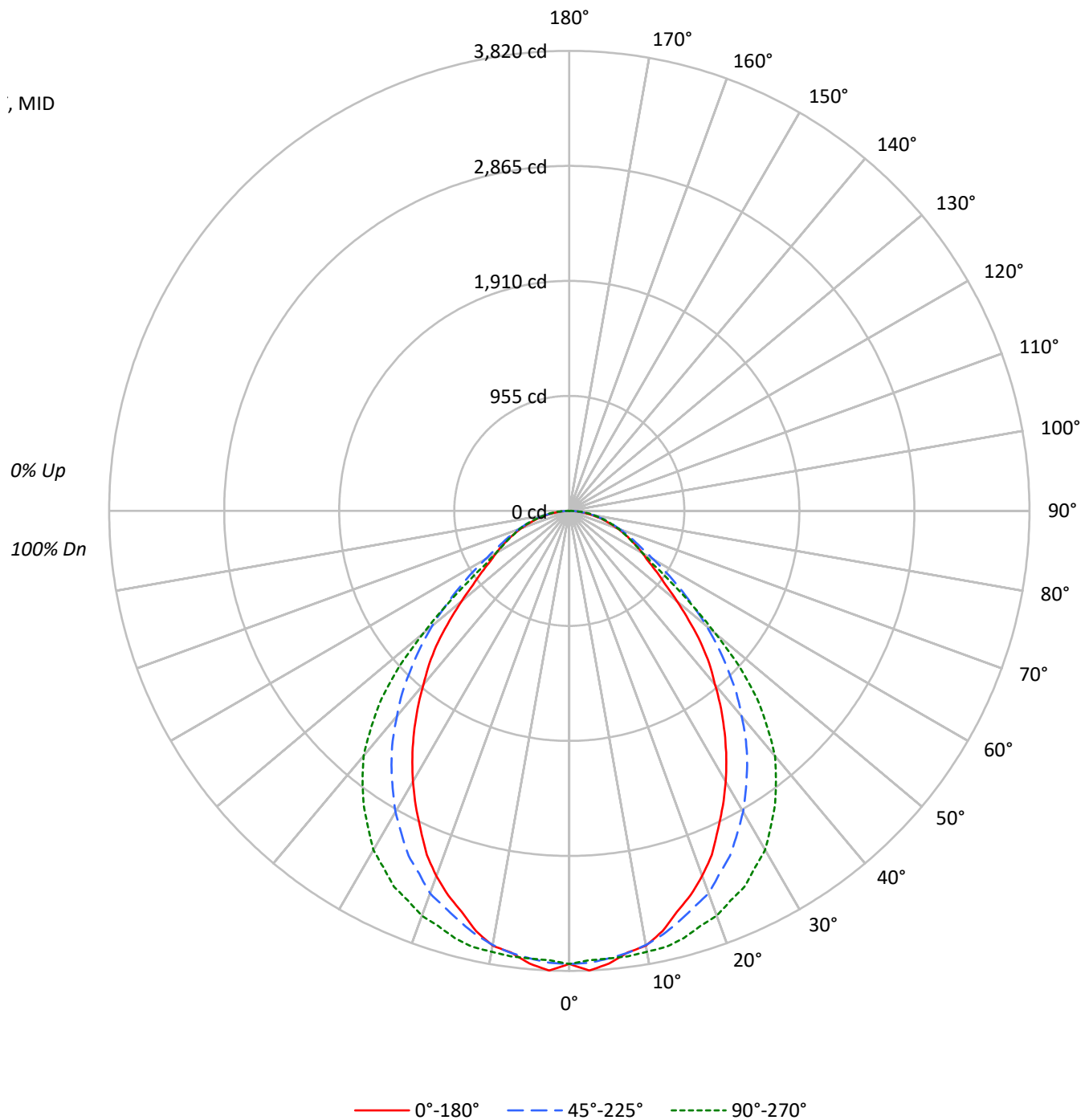
Test Method: LM-79-2019  
Report Number: P895465  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-LVRF-UNV-CC83-MID-5000K  
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 5000K CCT  
lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7818.0 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23  
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 66.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9948  
Total Harmonic Distortion (THDi): 5.65231997856897  
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	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

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

	0°	45°	90°
0°	13347	13347	13347
5°	13440	13287	13287
10°	13207	13186	13391
15°	12661	12955	13487
20°	12180	12763	13509
25°	11426	12368	13478
30°	10635	11821	13320
35°	9735	11151	12896
40°	8716	10311	12304
45°	7734	9335	11062
50°	6436	8217	8725
55°	5481	6921	6341
60°	4970	5719	5011
65°	4681	5009	4664
70°	4404	4648	4546
75°	4103	4425	4344
80°	3758	4076	4197
85°	3265	3583	4698

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 11062 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.1	4.6
10°-20°	1002.2	12.8
20°-30°	1455.3	18.6
30°-40°	1620.6	20.7
40°-50°	1431.7	18.3
50°-60°	939.5	12.0
60°-70°	575.3	7.4
70°-80°	334.8	4.3
80°-90°	102.5	1.3
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°	2813.6	36.0
0°-40°	4434.2	56.7
0°-60°	6805.4	87.0
0°-90°	7818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7818.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3762	3762	3762	3762	3762	
5°	3773	3775	3730	3768	3730	356
15°	3447	3486	3527	3666	3672	972
25°	2919	2989	3159	3361	3443	1343
35°	2248	2369	2574	2846	2977	1402
45°	1541	1635	1860	2111	2205	1179
55°	886	949	1119	1109	1025	804
65°	558	567	597	579	556	554
75°	299	303	323	329	317	318
85°	80	84	88	100	115	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3761.7	3761.7	3761.7	3761.7	3761.7
2.5°	3820.3	3773.4	3755.8	3773.4	3734.3
5°	3773.4	3775.4	3730.4	3767.5	3730.4
7.5°	3699.1	3724.5	3703.0	3759.7	3730.4
10°	3665.8	3667.8	3659.9	3718.6	3716.7
12.5°	3573.9	3579.7	3601.3	3689.3	3708.8
15°	3446.7	3485.8	3526.9	3665.8	3671.7
17.5°	3347.0	3393.9	3448.7	3597.3	3615.0
20°	3225.7	3245.2	3380.2	3511.3	3577.8
22.5°	3090.7	3127.9	3258.9	3435.0	3501.5
25°	2918.6	2989.0	3159.2	3360.7	3442.8
27.5°	2760.1	2842.3	3018.3	3243.3	3339.1
30°	2595.8	2689.7	2885.3	3106.4	3251.1
32.5°	2425.6	2543.0	2728.8	2983.1	3110.3
35°	2247.6	2368.9	2574.3	2846.2	2977.2
37.5°	2069.6	2187.0	2410.0	2701.4	2818.8
40°	1881.8	1997.2	2226.1	2521.5	2656.4
42.5°	1719.4	1819.2	2054.0	2306.3	2431.5
45°	1541.4	1635.3	1860.3	2110.7	2204.6
47.5°	1345.8	1455.4	1674.5	1879.9	1917.0
50°	1165.9	1279.3	1488.6	1607.9	1580.6
52.5°	1007.4	1103.3	1295.0	1345.8	1281.3
55°	886.1	948.7	1118.9	1109.1	1025.0
57.5°	774.6	813.8	958.5	903.7	823.5
60°	700.3	717.9	805.9	755.1	706.2
62.5°	629.9	637.7	684.7	657.3	620.1
65°	557.5	567.3	596.6	579.0	555.5
67.5°	491.0	494.9	522.3	518.4	489.0
70°	424.5	430.4	448.0	455.8	438.2
72.5°	359.9	365.8	383.4	391.2	375.6
75°	299.3	303.2	322.8	328.6	316.9
77.5°	240.6	248.4	260.2	269.9	256.3
80°	183.9	187.8	199.5	211.3	205.4
82.5°	129.1	135.0	142.8	158.4	162.4
85°	80.2	84.1	88.0	99.8	115.4
87.5°	31.3	33.3	39.1	43.0	56.7
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	16.53	18.01	16.90	18.33	18.64	17.18	18.67	17.55	18.98	19.29
	3H	18.13	19.46	18.51	19.79	20.15	18.62	19.95	19.00	20.27	20.64
	4H	18.75	19.99	19.15	20.34	20.72	19.23	20.47	19.63	20.82	21.20
	6H	19.22	20.37	19.63	20.74	21.13	19.71	20.86	20.12	21.23	21.62
	8H	19.37	20.46	19.80	20.85	21.26	19.91	21.00	20.34	21.39	21.79
	12H	19.47	20.52	19.90	20.90	21.33	20.08	21.12	20.51	21.50	21.93
4H	2H	17.16	18.40	17.56	18.75	19.13	17.68	18.92	18.08	19.27	19.65
	3H	18.97	20.00	19.39	20.40	20.81	19.38	20.40	19.79	20.80	21.21
	4H	19.71	20.64	20.15	21.06	21.49	20.13	21.05	20.56	21.47	21.91
	6H	20.31	21.12	20.77	21.56	22.02	20.76	21.57	21.22	22.01	22.47
	8H	20.51	21.26	20.97	21.71	22.17	21.02	21.77	21.48	22.22	22.68
	12H	20.65	21.32	21.13	21.80	22.27	21.24	21.92	21.73	22.39	22.87
8H	4H	20.03	20.78	20.50	21.23	21.70	20.40	21.15	20.86	21.60	22.06
	6H	20.76	21.38	21.25	21.87	22.35	21.17	21.80	21.67	22.29	22.77
	8H	21.03	21.59	21.54	22.10	22.59	21.52	22.08	22.03	22.59	23.08
	12H	21.25	21.74	21.76	22.24	22.80	21.84	22.33	22.35	22.83	23.39
12H	4H	20.07	20.74	20.55	21.22	21.69	20.42	21.09	20.90	21.57	22.04
	6H	20.82	21.38	21.34	21.89	22.38	21.22	21.78	21.73	22.29	22.78
	8H	21.15	21.65	21.66	22.14	22.71	21.62	22.12	22.14	22.61	23.18