

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: P895457

Luminaire Tested: 8TMB-SC3-LVRF-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

**Test Information**

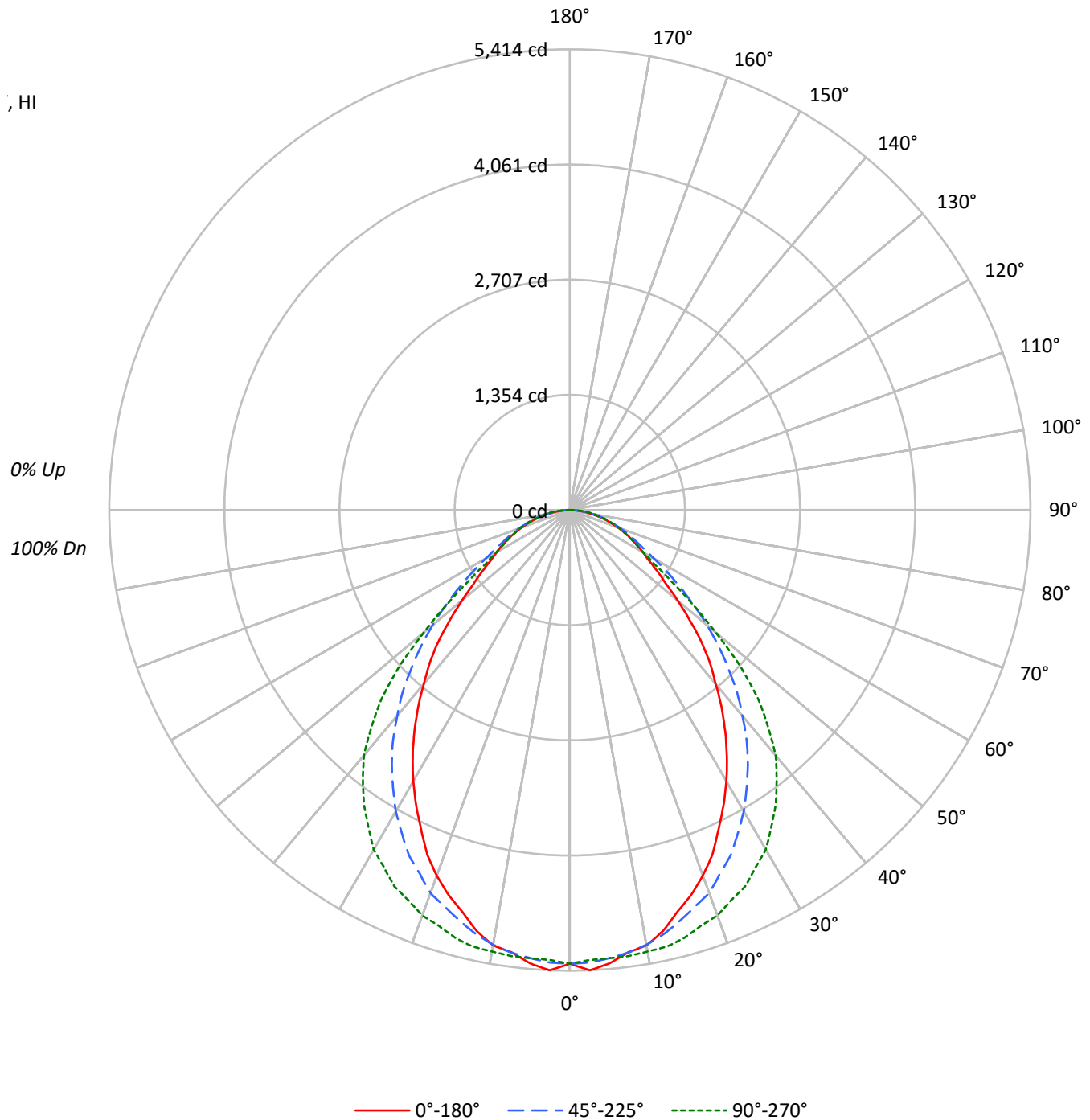
Test Method: LM-79-2019  
Report Number: P895457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-LVRF-UNV-CC83-HI-3500K  
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3500K CCT  
lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11080.0 lumens  
Efficiency: N/A  
Efficacy: 109.3 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): 101.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.39961257980444  
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°	18916	18916	18916
5°	19047	18830	18830
10°	18718	18688	18978
15°	17943	18361	19115
20°	17262	18089	19146
25°	16193	17528	19102
30°	15073	16754	18877
35°	13797	15803	18277
40°	12353	14613	17438
45°	10962	13229	15678
50°	9121	11645	12365
55°	7769	9810	8986
60°	7043	8105	7102
65°	6633	7099	6610
70°	6241	6586	6442
75°	5815	6270	6157
80°	5325	5778	5948
85°	4629	5081	6660

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 15678 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	504.7	4.6
10°-20°	1420.3	12.8
20°-30°	2062.5	18.6
30°-40°	2296.8	20.7
40°-50°	2029.1	18.3
50°-60°	1331.5	12.0
60°-70°	815.3	7.4
70°-80°	474.4	4.3
80°-90°	145.3	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°	3987.6	36.0
0°-40°	6284.3	56.7
0°-60°	9644.9	87.0
0°-90°	11080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11080.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5331	5331	5331	5331	5331	
5°	5348	5351	5287	5340	5287	504
15°	4885	4940	4998	5195	5204	1378
25°	4136	4236	4477	4763	4879	1903
35°	3185	3357	3648	4034	4220	1987
45°	2185	2318	2636	2991	3124	1671
55°	1256	1345	1586	1572	1453	1139
65°	790	804	846	821	787	786
75°	424	430	457	466	449	450
85°	114	119	125	141	164	128
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5331.2	5331.2	5331.2	5331.2	5331.2
2.5°	5414.4	5347.8	5322.9	5347.8	5292.4
5°	5347.8	5350.6	5286.8	5339.5	5286.8
7.5°	5242.5	5278.5	5248.0	5328.4	5286.8
10°	5195.3	5198.1	5187.0	5270.2	5267.4
12.5°	5065.0	5073.4	5103.9	5228.6	5256.3
15°	4884.8	4940.3	4998.5	5195.3	5203.7
17.5°	4743.5	4810.0	4887.6	5098.3	5123.3
20°	4571.6	4599.3	4790.6	4976.3	5070.6
22.5°	4380.3	4433.0	4618.7	4868.2	4962.5
25°	4136.3	4236.1	4477.3	4762.9	4879.3
27.5°	3911.8	4028.2	4277.7	4596.5	4732.4
30°	3678.9	3812.0	4089.2	4402.5	4607.6
32.5°	3437.7	3604.0	3867.4	4227.8	4408.0
35°	3185.4	3357.3	3648.4	4033.7	4219.5
37.5°	2933.1	3099.5	3415.5	3828.6	3994.9
40°	2667.0	2830.5	3154.9	3573.5	3764.8
42.5°	2436.9	2578.3	2910.9	3268.6	3446.0
45°	2184.6	2317.7	2636.5	2991.3	3124.4
47.5°	1907.4	2062.6	2373.1	2664.2	2716.9
50°	1652.3	1813.1	2109.7	2278.9	2240.0
52.5°	1427.7	1563.6	1835.3	1907.4	1815.9
55°	1255.9	1344.6	1585.8	1571.9	1452.7
57.5°	1097.8	1153.3	1358.4	1280.8	1167.2
60°	992.5	1017.4	1142.2	1070.1	1000.8
62.5°	892.7	903.8	970.3	931.5	878.8
65°	790.1	804.0	845.6	820.6	787.3
67.5°	695.9	701.4	740.2	734.7	693.1
70°	601.6	609.9	634.9	646.0	621.0
72.5°	510.1	518.4	543.4	554.5	532.3
75°	424.2	429.7	457.4	465.8	449.1
77.5°	341.0	352.1	368.7	382.6	363.2
80°	260.6	266.1	282.8	299.4	291.1
82.5°	183.0	191.3	202.4	224.6	230.1
85°	113.7	119.2	124.8	141.4	163.6
87.5°	44.4	47.1	55.4	61.0	80.4
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	17.74	19.23	18.11	19.54	19.85	18.40	19.88	18.76	20.19	20.51
	3H	19.35	20.67	19.72	21.00	21.36	19.83	21.16	20.21	21.49	21.85
	4H	19.96	21.20	20.36	21.55	21.93	20.44	21.68	20.84	22.03	22.41
	6H	20.43	21.58	20.85	21.95	22.34	20.92	22.07	21.34	22.44	22.83
	8H	20.58	21.68	21.01	22.07	22.47	21.12	22.21	21.55	22.60	23.00
	12H	20.68	21.73	21.12	22.11	22.54	21.29	22.33	21.72	22.72	23.14
4H	2H	18.37	19.61	18.77	19.96	20.34	18.89	20.13	19.29	20.48	20.86
	3H	20.19	21.22	20.60	21.62	22.02	20.59	21.62	21.00	22.02	22.42
	4H	20.93	21.85	21.36	22.27	22.71	21.34	22.27	21.77	22.68	23.12
	6H	21.52	22.33	21.98	22.77	23.23	21.98	22.78	22.43	23.22	23.69
	8H	21.72	22.47	22.18	22.92	23.38	22.23	22.98	22.70	23.43	23.90
	12H	21.86	22.53	22.34	23.01	23.48	22.45	23.13	22.94	23.61	24.08
8H	4H	21.24	22.00	21.71	22.44	22.91	21.61	22.36	22.08	22.81	23.28
	6H	21.97	22.59	22.46	23.08	23.56	22.39	23.01	22.88	23.50	23.98
	8H	22.24	22.80	22.76	23.31	23.80	22.73	23.29	23.25	23.80	24.29
	12H	22.46	22.96	22.97	23.45	24.01	23.05	23.55	23.56	24.04	24.60
12H	4H	21.28	21.95	21.76	22.43	22.90	21.63	22.30	22.11	22.78	23.25
	6H	22.03	22.59	22.55	23.10	23.59	22.43	22.99	22.95	23.50	23.99
	8H	22.36	22.86	22.88	23.35	23.92	22.84	23.33	23.35	23.83	24.39