

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: P895468

Luminaire Tested: 8TMB-SC3-LVRF-UNV-CC93-HI-5000K

Issue Date: 11/11/2024

**Test Information**

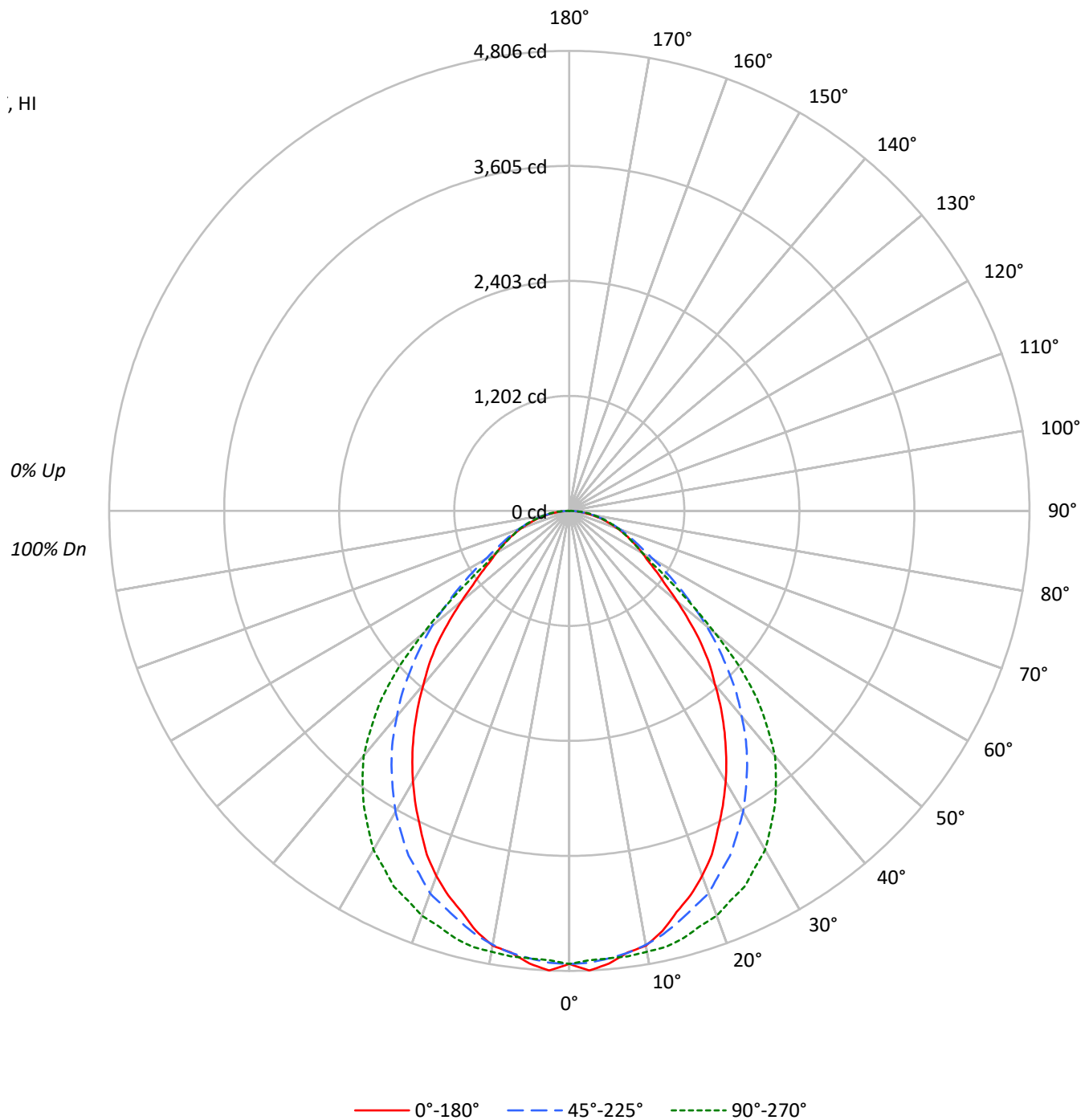
Test Method: LM-79-2019  
Report Number: P895468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-LVRF-UNV-CC93-HI-5000K  
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K CCT  
lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9835.0 lumens  
Efficiency: N/A  
Efficacy: 97.0 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°	16790	16790	16790
5°	16907	16714	16714
10°	16615	16588	16846
15°	15927	16298	16967
20°	15322	16056	16994
25°	14374	15559	16956
30°	13379	14871	16756
35°	12247	14027	16223
40°	10965	12971	15478
45°	9730	11743	13916
50°	8096	10337	10975
55°	6896	8707	7977
60°	6252	7195	6304
65°	5888	6301	5868
70°	5540	5846	5718
75°	5161	5566	5466
80°	4726	5129	5280
85°	4108	4507	5911

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 13916 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	448.0	4.6
10°-20°	1260.7	12.8
20°-30°	1830.8	18.6
30°-40°	2038.7	20.7
40°-50°	1801.1	18.3
50°-60°	1181.9	12.0
60°-70°	723.7	7.4
70°-80°	421.1	4.3
80°-90°	129.0	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°	3539.5	36.0
0°-40°	5578.2	56.7
0°-60°	8561.2	87.0
0°-90°	9835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9835.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4732	4732	4732	4732	4732	
5°	4747	4749	4693	4740	4693	448
15°	4336	4385	4437	4612	4619	1223
25°	3672	3760	3974	4228	4331	1689
35°	2828	2980	3238	3580	3745	1763
45°	1939	2057	2340	2655	2773	1483
55°	1115	1194	1408	1395	1290	1011
65°	701	714	750	728	699	697
75°	376	381	406	413	399	399
85°	101	106	111	126	145	114
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4732.2	4732.2	4732.2	4732.2	4732.2
2.5°	4806.0	4746.9	4724.8	4746.9	4697.7
5°	4746.9	4749.4	4692.8	4739.5	4692.8
7.5°	4653.4	4685.4	4658.3	4729.7	4692.8
10°	4611.6	4614.0	4604.2	4678.0	4675.6
12.5°	4495.9	4503.3	4530.4	4641.1	4665.7
15°	4336.0	4385.2	4436.9	4611.6	4619.0
17.5°	4210.5	4269.5	4338.4	4525.4	4547.6
20°	4057.9	4082.5	4252.3	4417.2	4500.8
22.5°	3888.1	3934.8	4099.7	4321.2	4404.9
25°	3671.5	3760.1	3974.2	4227.7	4331.0
27.5°	3472.2	3575.6	3797.0	4080.0	4200.6
30°	3265.5	3383.6	3629.7	3907.8	4089.9
32.5°	3051.4	3199.1	3432.8	3752.7	3912.7
35°	2827.5	2980.0	3238.4	3580.5	3745.4
37.5°	2603.5	2751.2	3031.7	3398.4	3546.0
40°	2367.3	2512.5	2800.4	3172.0	3341.8
42.5°	2163.1	2288.6	2583.9	2901.3	3058.8
45°	1939.1	2057.2	2340.2	2655.2	2773.3
47.5°	1693.0	1830.8	2106.5	2364.8	2411.6
50°	1466.6	1609.4	1872.7	2022.8	1988.3
52.5°	1267.3	1387.9	1629.1	1693.0	1611.8
55°	1114.8	1193.5	1407.6	1395.3	1289.5
57.5°	974.5	1023.7	1205.8	1136.9	1036.0
60°	881.0	903.1	1013.9	949.9	888.4
62.5°	792.4	802.2	861.3	826.8	780.1
65°	701.3	713.6	750.5	728.4	698.9
67.5°	617.7	622.6	657.0	652.1	615.2
70°	534.0	541.4	563.5	573.4	551.2
72.5°	452.8	460.2	482.3	492.2	472.5
75°	376.5	381.4	406.0	413.4	398.7
77.5°	302.7	312.5	327.3	339.6	322.4
80°	231.3	236.2	251.0	265.8	258.4
82.5°	162.4	169.8	179.6	199.3	204.2
85°	100.9	105.8	110.7	125.5	145.2
87.5°	39.4	41.8	49.2	54.1	71.4
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	17.33	18.81	17.69	19.12	19.44	17.98	19.46	18.35	19.78	20.09
	3H	18.93	20.26	19.31	20.59	20.95	19.42	20.74	19.80	21.07	21.43
	4H	19.55	20.79	19.95	21.14	21.52	20.02	21.27	20.42	21.61	21.99
	6H	20.02	21.17	20.43	21.53	21.93	20.51	21.66	20.92	22.02	22.42
	8H	20.17	21.26	20.60	21.65	22.05	20.71	21.80	21.13	22.19	22.59
	12H	20.27	21.31	20.70	21.70	22.13	20.87	21.92	21.31	22.30	22.73
4H	2H	17.95	19.19	18.35	19.54	19.92	18.48	19.72	18.88	20.07	20.45
	3H	19.77	20.80	20.18	21.20	21.60	20.17	21.20	20.58	21.60	22.00
	4H	20.51	21.44	20.94	21.85	22.29	20.93	21.85	21.36	22.27	22.71
	6H	21.11	21.91	21.57	22.36	22.82	21.56	22.37	22.02	22.81	23.27
	8H	21.31	22.06	21.77	22.50	22.97	21.82	22.57	22.28	23.01	23.48
	12H	21.45	22.12	21.93	22.60	23.07	22.04	22.71	22.52	23.19	23.66
8H	4H	20.83	21.58	21.29	22.03	22.49	21.20	21.95	21.66	22.39	22.86
	6H	21.55	22.18	22.05	22.67	23.15	21.97	22.59	22.47	23.09	23.56
	8H	21.83	22.39	22.34	22.90	23.39	22.32	22.88	22.83	23.39	23.88
	12H	22.04	22.54	22.55	23.03	23.60	22.63	23.13	23.14	23.62	24.19
12H	4H	20.86	21.54	21.35	22.02	22.49	21.22	21.89	21.70	22.37	22.84
	6H	21.62	22.18	22.13	22.69	23.18	22.02	22.58	22.53	23.09	23.58
	8H	21.95	22.45	22.46	22.94	23.51	22.42	22.92	22.93	23.41	23.98