

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: P895440

Luminaire Tested: 8TMB-SC3-LVRA-UNV-CC83-HI-4000K

Issue Date: 11/11/2024

**Test Information**

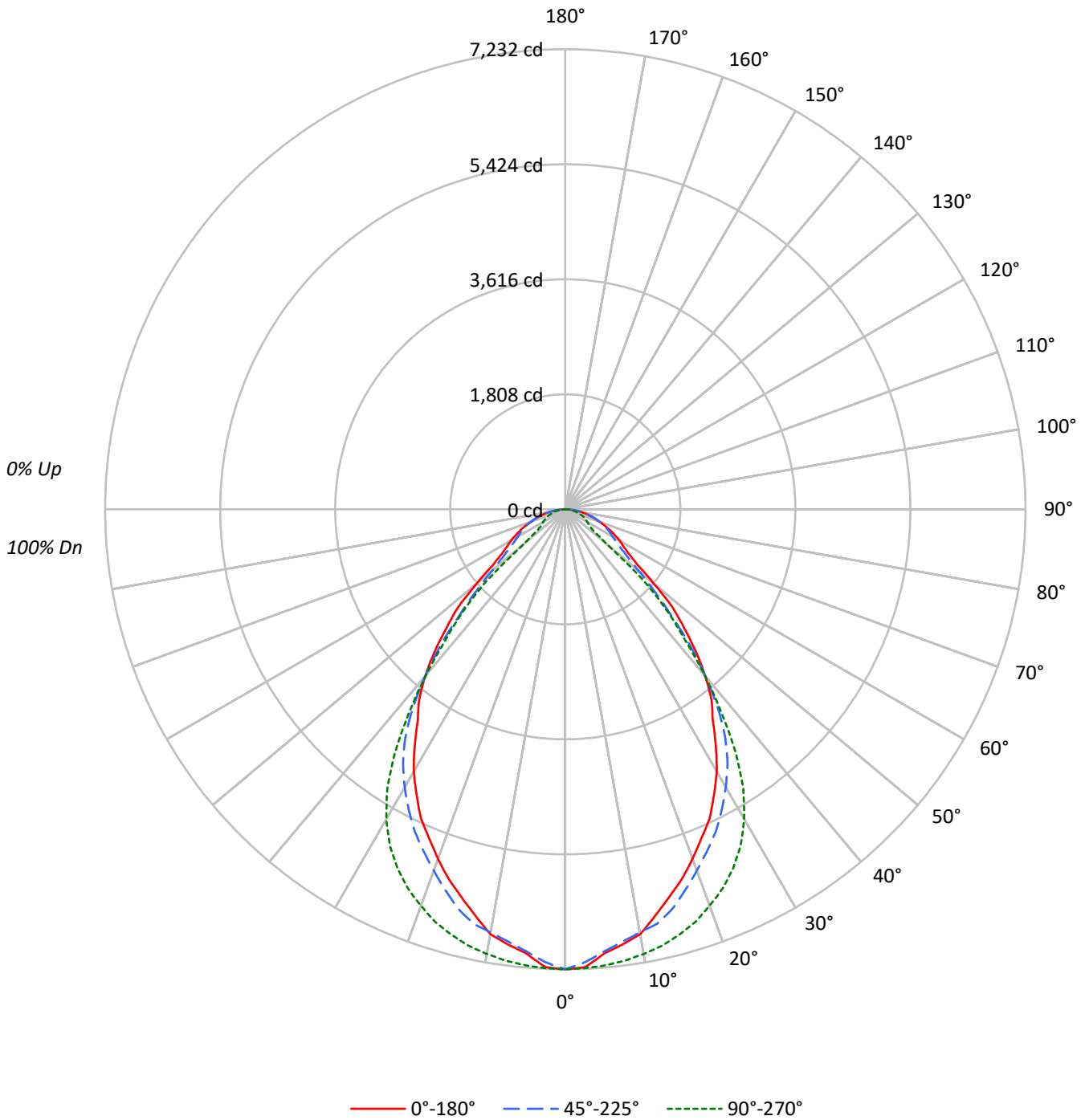
Test Method: LM-79-2019  
Report Number: P895440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-LVRA-UNV-CC83-HI-4000K  
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 4000K CCT, HI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11737.0 lumens  
Efficiency: N/A  
Efficacy: 115.7 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): 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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

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

	0°	45°	90°
0°	25659	25659	25659
5°	24967	24855	25631
10°	24437	24329	25572
15°	23176	23888	25428
20°	22077	22823	25040
25°	21000	21898	24401
30°	19511	20672	23039
35°	17495	18997	20208
40°	15850	15885	15798
45°	13253	11738	11448
50°	10011	8262	4681
55°	7529	6607	2952
60°	6997	6084	2843
65°	6510	6072	2848
70°	5956	5956	2804
75°	5647	5800	2709
80°	5219	5484	2781
85°	4551	4779	3037

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 13561 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	668.0	5.7
10°-20°	1840.7	15.7
20°-30°	2610.1	22.2
30°-40°	2689.0	22.9
40°-50°	1878.2	16.0
50°-60°	901.2	7.7
60°-70°	632.3	5.4
70°-80°	395.3	3.4
80°-90°	122.3	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°	5118.8	43.6
0°-40°	7807.8	66.5
0°-60°	10587.1	90.2
0°-90°	11737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11737.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7232	7232	7232	7232	7232	
5°	7010	7001	6978	7161	7196	663
15°	6309	6356	6503	6690	6922	1777
25°	5364	5418	5594	5972	6233	2453
35°	4039	4149	4386	4477	4665	2545
45°	2641	2703	2339	2220	2281	2035
55°	1217	1158	1068	684	477	1141
65°	775	725	723	550	339	768
75°	412	406	423	365	198	434
85°	112	112	117	116	75	125
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7231.8	7231.8	7231.8	7231.8	7231.8
2.5°	7203.9	7181.5	7127.5	7226.2	7218.8
5°	7010.0	7000.7	6978.4	7161.0	7196.4
7.5°	6900.1	6881.4	6855.3	7056.6	7155.4
10°	6782.6	6805.0	6752.8	6937.3	7097.6
12.5°	6540.3	6600.0	6670.8	6814.3	7026.8
15°	6309.2	6355.8	6503.1	6689.5	6922.4
17.5°	6093.0	6147.1	6273.8	6553.4	6801.3
20°	5847.0	5921.5	6044.6	6402.4	6631.7
22.5°	5593.5	5662.5	5817.2	6201.1	6456.5
25°	5364.2	5418.3	5593.5	5971.9	6232.8
27.5°	5060.4	5161.1	5327.0	5692.3	5966.3
30°	4762.2	4847.9	5045.5	5353.1	5623.3
32.5°	4402.5	4527.4	4745.4	4980.3	5205.8
35°	4039.0	4149.0	4385.7	4477.0	4665.3
37.5°	3774.3	3804.2	3938.4	3927.2	4033.4
40°	3422.1	3481.7	3429.5	3289.7	3410.9
42.5°	3041.8	3112.7	2902.1	2739.9	2782.8
45°	2641.1	2702.6	2339.2	2219.9	2281.4
47.5°	2294.4	2288.8	1886.2	1806.1	1720.4
50°	1813.6	1873.2	1496.7	1347.6	848.1
52.5°	1416.5	1438.9	1233.9	861.1	557.3
55°	1217.1	1157.5	1068.0	684.0	477.2
57.5°	1081.0	1006.5	946.8	635.6	436.1
60°	986.0	902.1	857.4	603.9	400.7
62.5°	877.9	812.7	795.9	575.9	369.0
65°	775.4	725.0	723.2	549.8	339.2
67.5°	672.9	644.9	652.4	518.2	305.7
70°	574.1	568.5	574.1	477.2	270.3
72.5°	490.2	484.6	499.5	425.0	231.1
75°	411.9	406.3	423.1	365.3	197.6
77.5°	328.0	331.8	343.0	303.8	165.9
80°	255.4	255.4	268.4	238.6	136.1
82.5°	182.7	184.5	192.0	175.2	106.2
85°	111.8	111.8	117.4	115.6	74.6
87.5°	37.3	42.9	50.3	54.1	37.3
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	16.92	18.27	17.29	18.59	18.90	13.25	14.61	13.62	14.92	15.23
	3H	18.66	19.87	19.04	20.20	20.56	15.23	16.44	15.61	16.77	17.13
	4H	19.33	20.46	19.73	20.81	21.19	15.93	17.06	16.34	17.41	17.79
	6H	19.84	20.88	20.25	21.25	21.64	16.46	17.50	16.87	17.86	18.26
	8H	20.01	20.99	20.44	21.38	21.79	16.64	17.63	17.07	18.02	18.42
	12H	20.12	21.06	20.55	21.44	21.87	16.78	17.72	17.21	18.11	18.54
4H	2H	17.45	18.58	17.85	18.93	19.31	14.88	16.00	15.28	16.35	16.74
	3H	19.43	20.36	19.84	20.76	21.16	17.05	17.98	17.47	18.39	18.79
	4H	20.23	21.07	20.67	21.48	21.93	17.93	18.77	18.37	19.19	19.63
	6H	20.87	21.60	21.34	22.04	22.51	18.58	19.30	19.04	19.75	20.21
	8H	21.09	21.77	21.56	22.22	22.69	18.78	19.46	19.25	19.91	20.38
	12H	21.25	21.85	21.73	22.33	22.80	18.94	19.54	19.43	20.02	20.50
8H	4H	20.51	21.19	20.98	21.64	22.11	18.58	19.26	19.05	19.70	20.17
	6H	21.30	21.85	21.80	22.35	22.83	19.44	20.00	19.94	20.49	20.97
	8H	21.60	22.10	22.12	22.61	23.10	19.77	20.27	20.29	20.78	21.27
	12H	21.83	22.28	22.35	22.77	23.34	20.03	20.48	20.55	20.97	21.54
12H	4H	20.53	21.13	21.02	21.61	22.09	18.65	19.25	19.14	19.74	20.21
	6H	21.35	21.85	21.87	22.36	22.85	19.58	20.08	20.10	20.59	21.08
	8H	21.71	22.16	22.23	22.65	23.22	19.99	20.43	20.51	20.93	21.50