

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: P894721

Luminaire Tested: 8TMB-16HL-LVRF-UNV-L930

Issue Date: 11/11/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P894721  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-16HL-LVRF-UNV-L930  
Description: 16000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3000K (C)  
Light Source: -  
Ballast/Driver: -

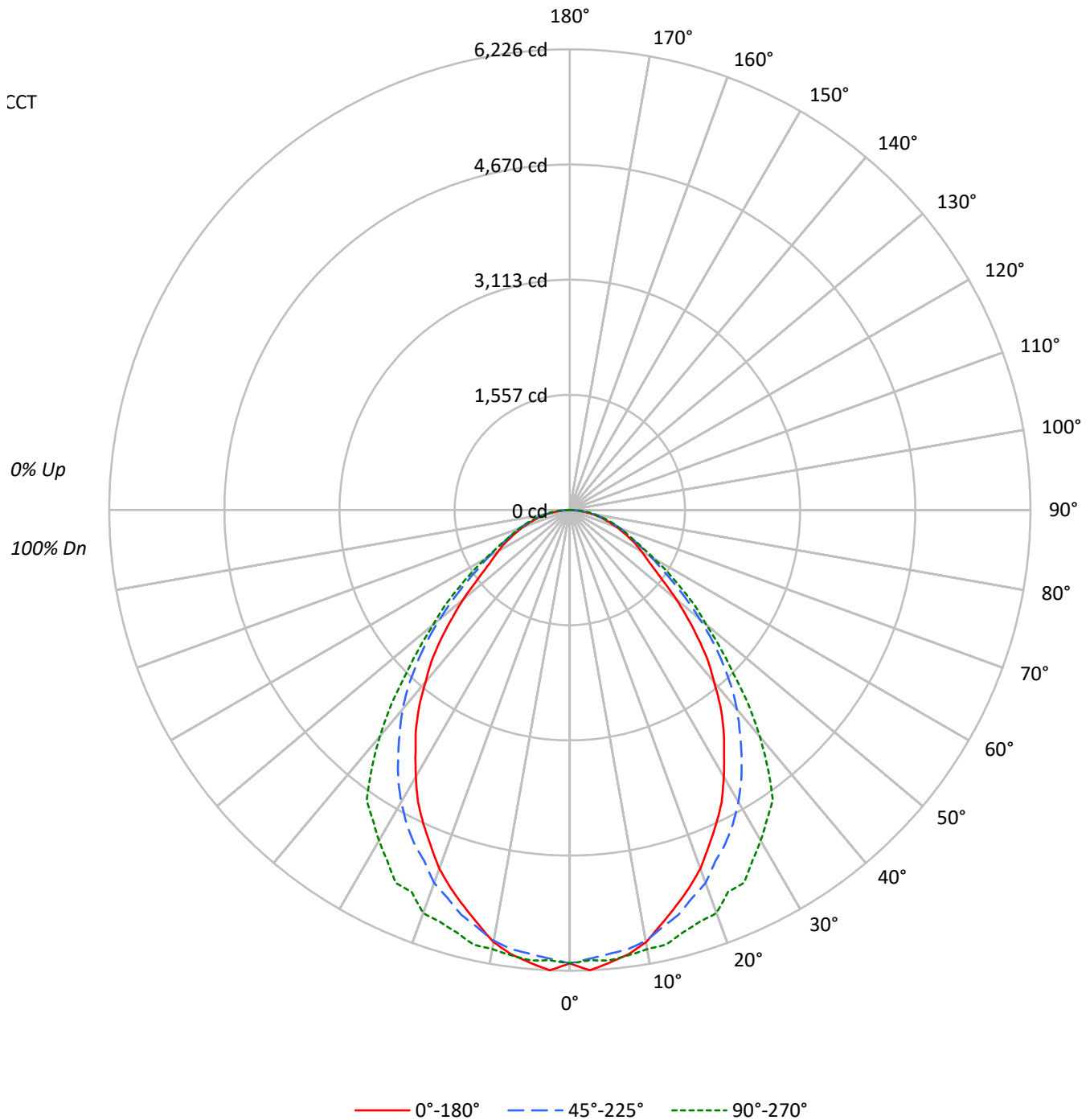
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12420.0 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.25 / 1.21  
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 115.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.999  
Total Harmonic Distortion (THDi): 4.23  
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	78	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	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	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	64	52	44	39	50	44	39	49	43	39	48	43	38	38	38	38	37
9	61	48	41	36	60	48	40	35	47	40	35	46	40	35	45	39	35	35	35	35	33
10	57	45	37	33	56	44	37	32	43	37	32	43	36	32	42	36	32	32	32	32	30

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

	0°	45°	90°
0°	21734	21734	21734
5°	21876	21452	21758
10°	21364	21298	21707
15°	20355	20806	21707
20°	19471	20253	21884
25°	18332	19479	21773
30°	17053	18666	21135
35°	15705	17522	20726
40°	14046	16285	18508
45°	12313	14647	15695
50°	10391	12656	13283
55°	8621	10592	11328
60°	7927	9006	9344
65°	7426	7918	7979
70°	6915	7504	7446
75°	6451	7004	7255
80°	6024	6510	6959
85°	5068	5516	7678

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 15695 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	578.2	4.7
10°-20°	1612.8	13.0
20°-30°	2322.6	18.7
30°-40°	2564.2	20.6
40°-50°	2200.3	17.7
50°-60°	1498.9	12.1
60°-70°	943.0	7.6
70°-80°	536.9	4.3
80°-90°	163.2	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°	4513.6	36.3
0°-40°	7077.8	57.0
0°-60°	10777.0	86.8
0°-90°	12420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12420.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6126	6126	6126	6126	6126	
5°	6142	6118	6023	6149	6109	580
15°	5541	5600	5664	5920	5909	1560
25°	4682	4776	4976	5376	5562	2150
35°	3626	3767	4045	4486	4785	2255
45°	2454	2617	2919	3095	3128	1891
55°	1394	1480	1712	1795	1831	1280
65°	884	899	943	989	950	879
75°	471	474	511	533	529	502
85°	124	128	136	161	189	143
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6125.5	6125.5	6125.5	6125.5	6125.5
2.5°	6226.2	6162.1	6070.6	6158.5	6090.7
5°	6142.0	6118.2	6023.0	6149.3	6109.0
7.5°	6055.9	6004.6	5988.2	6123.7	6070.6
10°	5929.6	5900.3	5911.3	6085.2	6024.8
12.5°	5730.0	5750.1	5775.7	5997.3	6015.6
15°	5541.3	5599.9	5664.0	5920.4	5909.4
17.5°	5356.4	5437.0	5497.4	5827.0	5836.2
20°	5156.8	5202.6	5363.7	5682.3	5795.9
22.5°	4909.6	4999.3	5138.5	5535.8	5587.1
25°	4682.5	4775.9	4975.5	5376.5	5561.5
27.5°	4444.4	4530.5	4777.7	5187.9	5345.4
30°	4162.4	4277.8	4556.1	4973.7	5158.6
32.5°	3880.4	4048.9	4316.2	4744.7	4959.0
35°	3625.9	3766.9	4045.2	4486.5	4785.0
37.5°	3343.8	3492.2	3774.2	4204.5	4395.0
40°	3032.5	3191.9	3516.0	3863.9	3995.8
42.5°	2765.2	2902.5	3228.5	3473.9	3578.2
45°	2453.9	2616.8	2919.0	3094.8	3127.8
47.5°	2153.5	2340.3	2611.4	2693.8	2757.9
50°	1882.5	2029.0	2292.7	2344.0	2406.3
52.5°	1606.0	1761.7	1992.4	2043.7	2135.2
55°	1393.6	1479.6	1712.2	1794.6	1831.2
57.5°	1237.9	1292.9	1457.7	1562.0	1573.0
60°	1117.1	1144.5	1269.1	1347.8	1316.7
62.5°	1005.4	1027.3	1089.6	1150.0	1109.7
65°	884.5	899.1	943.1	988.9	950.4
67.5°	771.0	787.4	827.7	860.7	827.7
70°	666.6	679.4	723.3	738.0	717.8
72.5°	569.5	575.0	611.6	637.3	624.5
75°	470.6	474.3	510.9	532.9	529.2
77.5°	380.9	386.4	417.5	437.7	426.7
80°	294.8	298.5	318.6	347.9	340.6
82.5°	206.9	214.3	227.1	252.7	272.9
85°	124.5	128.2	135.5	161.1	188.6
87.5°	47.6	51.3	54.9	67.8	89.7
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	18.15	19.63	18.52	19.94	20.26	19.51	20.99	19.88	21.30	21.62
	3H	19.73	21.06	20.11	21.38	21.75	20.80	22.12	21.18	22.45	22.81
	4H	20.34	21.58	20.74	21.93	22.31	21.35	22.59	21.75	22.94	23.32
	6H	20.81	21.95	21.22	22.32	22.71	21.80	22.95	22.22	23.32	23.71
	8H	20.96	22.05	21.39	22.44	22.85	21.99	23.08	22.42	23.47	23.87
	12H	21.06	22.11	21.49	22.49	22.92	22.15	23.19	22.58	23.57	24.00
4H	2H	18.76	20.01	19.17	20.36	20.73	19.88	21.12	20.28	21.47	21.85
	3H	20.57	21.60	20.98	22.00	22.40	21.44	22.46	21.85	22.86	23.27
	4H	21.29	22.22	21.73	22.64	23.07	22.14	23.07	22.57	23.48	23.92
	6H	21.89	22.69	22.35	23.14	23.60	22.75	23.55	23.21	24.00	24.46
	8H	22.09	22.84	22.56	23.29	23.76	22.99	23.75	23.46	24.19	24.66
	12H	22.23	22.90	22.71	23.38	23.85	23.21	23.88	23.69	24.36	24.83
8H	4H	21.62	22.37	22.08	22.82	23.28	22.37	23.12	22.84	23.57	24.04
	6H	22.34	22.97	22.84	23.46	23.94	23.12	23.74	23.61	24.23	24.71
	8H	22.62	23.18	23.13	23.69	24.18	23.45	24.01	23.96	24.52	25.01
	12H	22.83	23.33	23.34	23.82	24.39	23.75	24.25	24.26	24.74	25.31
12H	4H	21.66	22.33	22.14	22.81	23.28	22.39	23.06	22.87	23.54	24.01
	6H	22.41	22.97	22.93	23.48	23.97	23.15	23.71	23.67	24.22	24.71
	8H	22.75	23.24	23.26	23.74	24.30	23.54	24.04	24.05	24.53	25.10