

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: P894611

Luminaire Tested: 8TMB-14HL-LVR-UNV-L940

Issue Date: 11/11/2024

**Test Information**

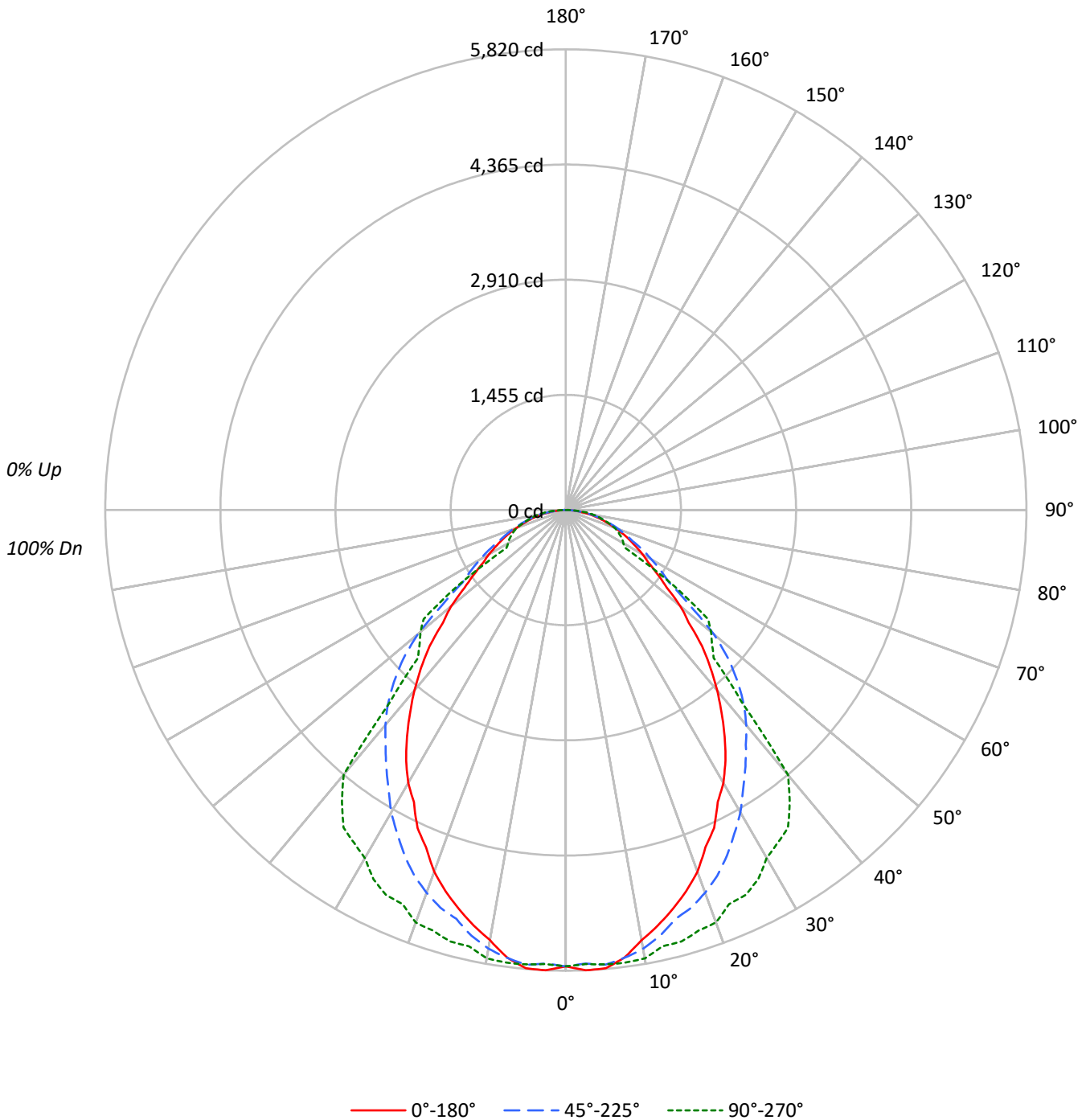
Test Method: LM-79-2019  
Report Number: P894611  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-14HL-LVR-UNV-L940  
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12066.0 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.32 / 1.26  
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 103.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 5.03  
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	87	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	67	65	
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	52	50	
6	74	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	40	
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	36	
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	35	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	30	

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

	0°	45°	90°
0°	20453	20453	20453
5°	20699	20537	20525
10°	19884	20274	20719
15°	19172	19644	20732
20°	18365	19426	20940
25°	17351	18855	21016
30°	16306	18068	20801
35°	15164	17137	21206
40°	13777	16427	20222
45°	12207	15418	13260
50°	10448	13475	13232
55°	8755	9833	10294
60°	7965	8878	5959
65°	7462	7860	6367
70°	6867	7446	6814
75°	6451	6986	6939
80°	6020	6606	7438
85°	5170	5512	7926

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 15418 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	547.8	4.5
10°-20°	1532.6	12.7
20°-30°	2233.6	18.5
30°-40°	2555.3	21.2
40°-50°	2185.9	18.1
50°-60°	1441.5	11.9
60°-70°	871.5	7.2
70°-80°	533.1	4.4
80°-90°	164.7	1.4
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°	4314.0	35.8
0°-40°	6869.3	56.9
0°-60°	10496.7	87.0
0°-90°	12066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12066.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5764	5764	5764	5764	5764	
5°	5812	5807	5766	5754	5763	545
15°	5219	5280	5348	5690	5644	1467
25°	4432	4500	4816	5228	5368	2027
35°	3501	3677	3956	4578	4896	2181
45°	2433	2621	3073	2871	2643	1862
55°	1415	1495	1590	1884	1664	1287
65°	889	911	936	836	758	879
75°	471	482	510	533	506	497
85°	127	125	135	161	195	144
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5764.3	5764.3	5764.3	5764.3	5764.3
2.5°	5820.2	5803.3	5733.8	5799.9	5740.6
5°	5811.7	5806.6	5766.0	5754.2	5762.6
7.5°	5700.0	5711.8	5705.1	5832.0	5767.7
10°	5518.8	5542.5	5627.2	5804.9	5750.8
12.5°	5376.6	5395.3	5508.7	5772.8	5645.8
15°	5219.2	5280.1	5347.9	5689.8	5644.1
17.5°	5049.9	5107.5	5268.3	5578.1	5573.0
20°	4863.7	4970.3	5144.7	5432.5	5545.9
22.5°	4611.5	4755.4	5000.8	5366.5	5388.5
25°	4432.0	4499.7	4816.3	5227.7	5368.2
27.5°	4159.5	4288.1	4611.5	5027.9	5259.8
30°	3980.0	4086.7	4410.0	4911.1	5077.0
32.5°	3754.8	3881.8	4171.3	4784.1	4983.9
35°	3500.9	3677.0	3956.3	4577.6	4895.9
37.5°	3233.4	3407.8	3737.9	4406.6	4647.0
40°	2974.4	3123.4	3546.6	4201.8	4366.0
42.5°	2708.6	2869.5	3328.2	3797.2	3284.2
45°	2432.7	2620.6	3072.6	2871.2	2642.6
47.5°	2106.0	2336.2	2789.9	2307.4	2503.8
50°	1892.7	2017.9	2441.2	2175.4	2397.1
52.5°	1609.9	1779.2	1960.4	2031.5	2265.1
55°	1415.3	1494.8	1589.6	1884.2	1664.1
57.5°	1235.8	1306.9	1417.0	1328.9	887.1
60°	1122.4	1154.6	1251.1	949.7	839.7
62.5°	993.7	1025.9	1097.0	887.1	805.8
65°	888.8	910.8	936.2	836.3	758.4
67.5°	777.0	788.9	816.0	772.0	712.7
70°	661.9	678.9	717.8	705.9	656.8
72.5°	560.3	575.6	609.4	626.4	580.7
75°	470.6	482.5	509.6	533.3	506.2
77.5°	374.1	386.0	421.5	446.9	435.1
80°	294.6	296.3	323.3	348.7	364.0
82.5°	206.5	209.9	230.2	257.3	287.8
85°	127.0	125.3	135.4	160.8	194.7
87.5°	49.1	47.4	55.9	67.7	99.9
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	18.31	19.79	18.68	20.10	20.42	17.99	19.47	18.35	19.78	20.10
	3H	19.87	21.20	20.25	21.52	21.89	19.61	20.93	19.99	21.26	21.62
	4H	20.47	21.71	20.87	22.06	22.44	20.36	21.60	20.76	21.95	22.32
	6H	20.93	22.07	21.34	22.44	22.83	21.02	22.17	21.44	22.54	22.93
	8H	21.08	22.17	21.51	22.56	22.96	21.30	22.39	21.73	22.78	23.18
	12H	21.18	22.22	21.61	22.61	23.04	21.52	22.57	21.95	22.95	23.38
4H	2H	18.90	20.15	19.30	20.49	20.87	18.65	19.89	19.05	20.24	20.62
	3H	20.69	21.72	21.10	22.12	22.52	20.53	21.56	20.95	21.96	22.37
	4H	21.42	22.35	21.85	22.76	23.20	21.43	22.36	21.86	22.77	23.21
	6H	22.00	22.81	22.46	23.25	23.71	22.24	23.04	22.70	23.49	23.95
	8H	22.20	22.95	22.67	23.40	23.87	22.57	23.32	23.03	23.76	24.23
	12H	22.34	23.01	22.82	23.49	23.96	22.84	23.51	23.32	23.99	24.46
8H	4H	21.74	22.50	22.21	22.94	23.41	21.75	22.50	22.22	22.95	23.42
	6H	22.45	23.08	22.95	23.57	24.05	22.70	23.32	23.20	23.82	24.29
	8H	22.72	23.28	23.24	23.79	24.28	23.12	23.68	23.63	24.19	24.68
	12H	22.93	23.43	23.44	23.92	24.49	23.49	23.98	24.00	24.48	25.04
12H	4H	21.78	22.45	22.26	22.93	23.40	21.78	22.45	22.26	22.93	23.40
	6H	22.52	23.08	23.04	23.60	24.08	22.75	23.32	23.27	23.83	24.31
	8H	22.85	23.35	23.36	23.84	24.41	23.23	23.73	23.74	24.22	24.79