

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: P894740

Luminaire Tested: 8TMB-16HL-RND-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2403-334-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-16HL-RND-UNV-L950
Description: 16000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

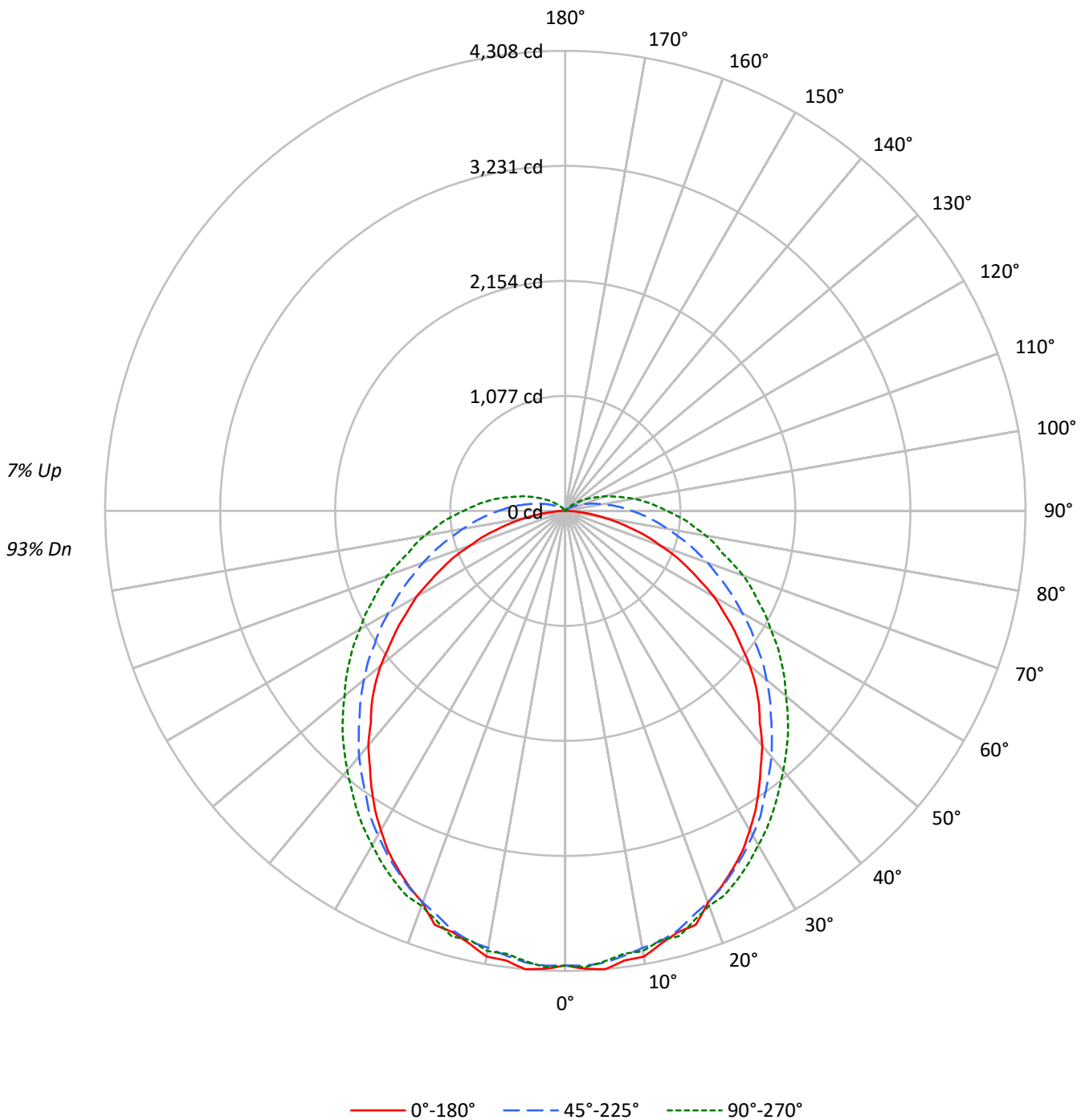
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14022.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.35
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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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.6	2.9
10°-20°	1149.0	8.2
20°-30°	1721.8	12.3
30°-40°	2046.1	14.6
40°-50°	2118.3	15.1
50°-60°	1963.0	14.0
60°-70°	1634.3	11.7
70°-80°	1213.0	8.7
80°-90°	802.3	5.7
90°-100°	488.2	3.5
100°-110°	273.7	2.0
110°-120°	134.8	1.0
120°-130°	54.9	0.4
130°-140°	15.9	0.1
140°-150°	2.3	0.0
150°-160°	0.6	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	3274.3	23.4
0°-40°	5320.4	37.9
0°-60°	9401.6	67.0
0°-90°	13051.1	93.1
90°-120°	896.7	6.4
90°-150°	969.7	6.9
90°-180°	971.0	6.9
0°-180°	14022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4257	4257	4257	4257	4257	
5°	4308	4261	4245	4267	4234	407
15°	4082	4066	4068	4074	4123	1156
25°	3704	3700	3720	3792	3811	1705
35°	3162	3186	3254	3357	3406	1979
45°	2565	2602	2722	2892	2948	1976
55°	1920	2002	2179	2397	2469	1717
65°	1270	1388	1659	1903	1990	1261
75°	648	845	1188	1443	1521	694
85°	152	426	791	1071	1149	170
90°	8	276	625	874	952	11
95°	2	171	485	722	802	2
105°	2	56	263	446	508	2
115°	2	14	123	245	294	2
125°	2	4	45	113	144	2
135°	4	2	12	37	51	2
145°	4	2	0	4	6	2
155°	4	4	0	0	0	2
165°	6	4	0	0	0	1
175°	6	4	0	0	0	1
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4257.0	4257.0	4257.0	4257.0	4257.0
2.5°	4292.0	4270.6	4262.8	4253.1	4276.4
5°	4307.6	4260.9	4245.3	4266.7	4233.6
7.5°	4247.2	4235.5	4202.4	4214.1	4183.0
10°	4237.5	4173.2	4155.7	4194.6	4184.9
12.5°	4149.9	4095.3	4126.5	4153.8	4116.8
15°	4081.7	4066.1	4068.1	4073.9	4122.6
17.5°	4064.2	3994.1	3974.6	4023.3	4019.4
20°	3904.5	3890.9	3900.6	3964.9	3933.7
22.5°	3811.0	3768.2	3820.7	3883.1	3896.7
25°	3703.9	3700.0	3719.5	3791.5	3811.0
27.5°	3591.0	3565.6	3618.2	3702.0	3717.5
30°	3452.7	3443.0	3507.2	3579.3	3614.3
32.5°	3316.4	3322.2	3396.2	3456.6	3517.0
35°	3162.5	3185.9	3254.1	3357.3	3406.0
37.5°	3006.7	3036.0	3127.5	3246.3	3287.2
40°	2868.5	2874.3	3002.9	3123.6	3174.2
42.5°	2695.2	2753.6	2862.6	3022.3	3061.3
45°	2564.7	2601.7	2722.4	2891.9	2948.3
47.5°	2416.7	2459.5	2597.8	2763.3	2823.7
50°	2255.1	2294.0	2459.5	2648.4	2697.1
52.5°	2075.9	2155.7	2329.1	2523.8	2588.1
55°	1920.1	2001.9	2179.1	2397.2	2469.3
57.5°	1752.6	1834.4	2056.4	2259.0	2352.4
60°	1608.5	1686.4	1912.3	2163.5	2220.0
62.5°	1429.4	1540.4	1785.7	2033.1	2112.9
65°	1269.7	1388.5	1659.2	1902.6	1990.2
67.5°	1123.6	1246.3	1528.7	1789.6	1885.1
70°	944.5	1106.1	1417.7	1674.7	1774.1
72.5°	812.1	973.7	1298.9	1554.0	1643.6
75°	648.5	845.2	1187.9	1443.0	1520.9
77.5°	512.2	724.4	1073.0	1359.3	1437.2
80°	373.9	615.4	973.7	1248.3	1337.8
82.5°	255.1	514.1	882.2	1145.1	1230.7
85°	151.9	426.5	790.6	1071.1	1149.0
87.5°	66.2	348.6	706.9	964.0	1043.8
90°	7.8	276.5	625.1	874.4	952.3
92.5°	1.9	222.0	553.1	794.5	870.5
95°	1.9	171.4	484.9	722.5	802.3
97.5°	1.9	132.4	416.7	648.5	724.4
100°	1.9	101.3	360.3	570.6	652.4
102.5°	1.9	75.9	305.7	506.3	576.4
105°	1.9	56.5	262.9	445.9	508.3
107.5°	1.9	40.9	220.1	389.5	451.8
110°	1.9	29.2	185.0	336.9	399.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	21.4	149.9	290.2	342.7
115°	1.9	13.6	122.7	245.4	294.1
117.5°	1.9	9.7	97.4	206.4	253.2
120°	1.9	7.8	77.9	171.4	212.3
122.5°	1.9	5.8	60.4	140.2	179.2
125°	1.9	3.9	44.8	112.9	144.1
127.5°	1.9	3.9	33.1	89.6	116.8
130°	1.9	1.9	23.4	68.2	91.5
132.5°	1.9	1.9	15.6	50.6	68.2
135°	3.9	1.9	11.7	37.0	50.6
137.5°	3.9	1.9	7.8	25.3	35.1
140°	3.9	1.9	3.9	15.6	21.4
142.5°	3.9	1.9	1.9	7.8	11.7
145°	3.9	1.9	0.0	3.9	5.8
147.5°	3.9	1.9	0.0	1.9	1.9
150°	3.9	1.9	0.0	0.0	0.0
152.5°	3.9	1.9	0.0	0.0	0.0
155°	3.9	3.9	0.0	0.0	0.0
157.5°	3.9	3.9	0.0	0.0	0.0
160°	3.9	3.9	0.0	0.0	0.0
162.5°	3.9	3.9	0.0	0.0	0.0
165°	5.8	3.9	0.0	0.0	0.0
167.5°	5.8	3.9	0.0	0.0	0.0
170°	5.8	3.9	0.0	0.0	0.0
172.5°	5.8	3.9	0.0	0.0	0.0
175°	5.8	3.9	0.0	0.0	0.0
177.5°	5.8	3.9	0.0	0.0	0.0
180°	1.9	1.9	1.9	1.9	1.9



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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	19.66	21.20	20.13	21.65	22.14	21.24	22.77	21.70	23.23	23.71
	3H	21.43	22.83	21.91	23.29	23.82	23.82	25.23	24.30	25.69	26.21
	4H	22.08	23.41	22.58	23.90	24.43	25.08	26.41	25.58	26.89	27.43
	6H	22.56	23.80	23.08	24.30	24.85	26.46	27.70	26.98	28.20	28.75
	8H	22.71	23.90	23.24	24.42	24.98	27.19	28.38	27.72	28.90	29.46
	12H	22.81	23.95	23.34	24.46	25.05	28.03	29.17	28.57	29.69	30.28
4H	2H	20.62	21.95	21.12	22.43	22.97	21.81	23.14	22.31	23.62	24.16
	3H	22.66	23.79	23.17	24.32	24.88	24.68	25.81	25.19	26.34	26.90
	4H	23.47	24.51	24.01	25.05	25.64	26.15	27.19	26.69	27.73	28.32
	6H	24.12	25.04	24.68	25.60	26.21	27.77	28.69	28.33	29.26	29.86
	8H	24.35	25.21	24.91	25.78	26.39	28.63	29.50	29.19	30.06	30.68
	12H	24.52	25.30	25.10	25.89	26.52	29.62	30.41	30.20	31.00	31.62
8H	4H	24.32	25.19	24.88	25.75	26.37	26.52	27.39	27.08	27.95	28.57
	6H	25.24	25.98	25.84	26.58	27.21	28.40	29.14	28.99	29.74	30.37
	8H	25.63	26.29	26.23	26.90	27.54	29.46	30.13	30.07	30.74	31.38
	12H	25.95	26.54	26.55	27.14	27.85	30.72	31.31	31.33	31.92	32.62
12H	4H	24.58	25.37	25.16	25.96	26.58	26.57	27.36	27.15	27.95	28.57
	6H	25.67	26.33	26.27	26.95	27.58	28.51	29.18	29.12	29.79	30.43
	8H	26.21	26.80	26.81	27.40	28.11	29.69	30.28	30.29	30.88	31.59