

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: P895251

Luminaire Tested: 8TMB-8SL-LVRF-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895251
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-8SL-LVRF-UNV-L940
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 4000K C
Light Source: -
Ballast/Driver: -

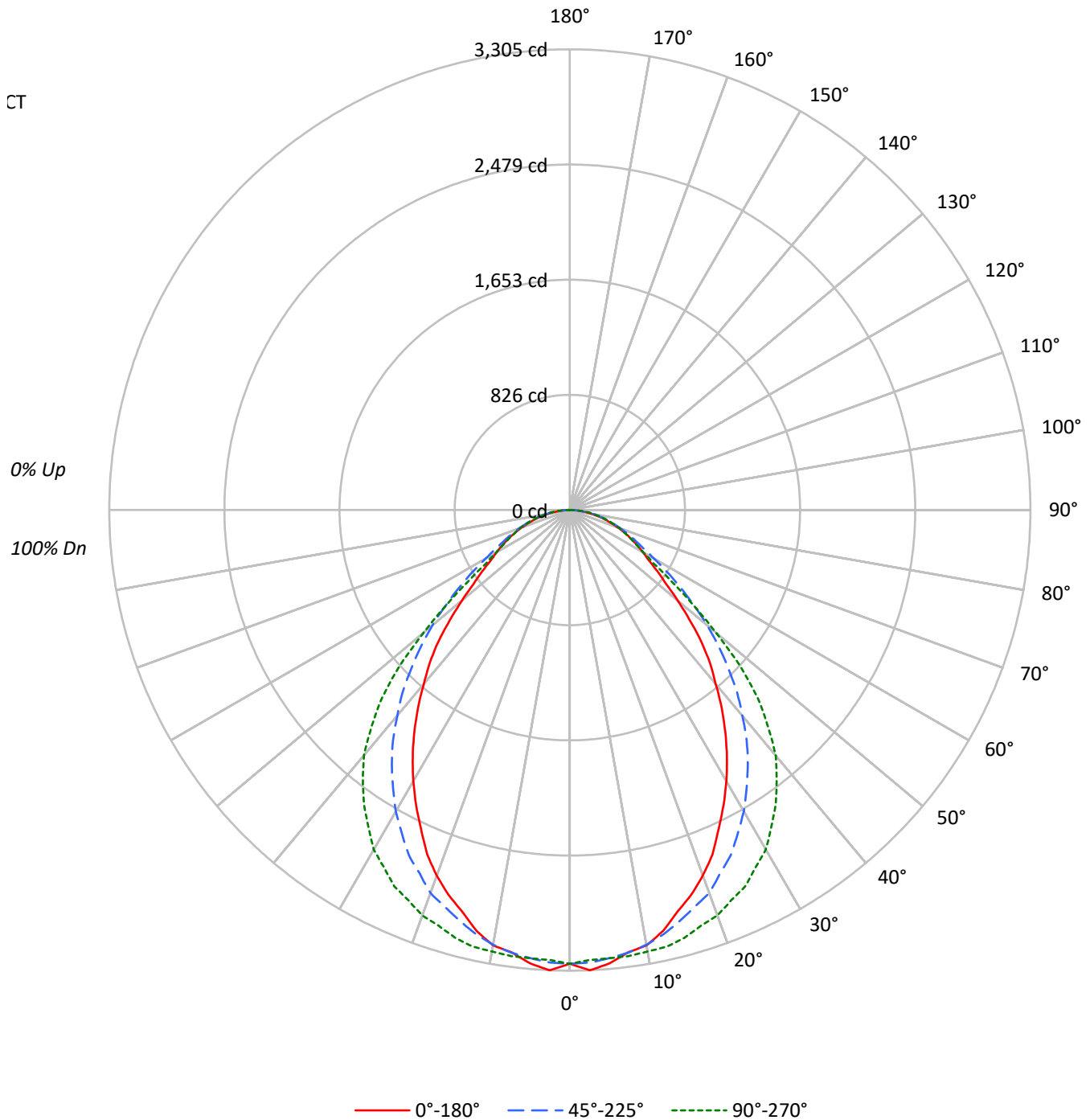
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6764.0 lumens
Efficiency: N/A
Efficacy: 113.5 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): 59.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 3.8
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°	11547	11547	11547
5°	11628	11495	11495
10°	11427	11408	11585
15°	10954	11209	11669
20°	10538	11042	11688
25°	9886	10701	11661
30°	9201	10227	11524
35°	8423	9647	11157
40°	7541	8921	10645
45°	6692	8076	9571
50°	5568	7109	7548
55°	4743	5989	5486
60°	4300	4948	4336
65°	4049	4334	4035
70°	3810	4021	3933
75°	3549	3828	3759
80°	3251	3527	3631
85°	2825	3102	4067

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9571 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.1	4.6
10°-20°	867.0	12.8
20°-30°	1259.1	18.6
30°-40°	1402.1	20.7
40°-50°	1238.7	18.3
50°-60°	812.8	12.0
60°-70°	497.7	7.4
70°-80°	289.6	4.3
80°-90°	88.7	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°	2434.3	36.0
0°-40°	3836.4	56.7
0°-60°	5887.9	87.0
0°-90°	6764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3254	3254	3254	3254	3254	
5°	3265	3266	3227	3260	3227	308
15°	2982	3016	3051	3172	3177	841
25°	2525	2586	2733	2908	2979	1162
35°	1945	2050	2227	2462	2576	1213
45°	1334	1415	1610	1826	1907	1020
55°	767	821	968	960	887	695
65°	482	491	516	501	481	480
75°	259	262	279	284	274	275
85°	69	73	76	86	100	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3254.5	3254.5	3254.5	3254.5	3254.5
2.5°	3305.3	3264.7	3249.4	3264.7	3230.8
5°	3264.7	3266.4	3227.4	3259.6	3227.4
7.5°	3200.4	3222.4	3203.8	3252.8	3227.4
10°	3171.6	3173.3	3166.5	3217.3	3215.6
12.5°	3092.1	3097.1	3115.7	3191.9	3208.8
15°	2982.0	3015.9	3051.4	3171.6	3176.7
17.5°	2895.7	2936.4	2983.7	3112.4	3127.6
20°	2790.8	2807.7	2924.5	3037.9	3095.4
22.5°	2674.0	2706.2	2819.6	2971.9	3029.4
25°	2525.1	2586.0	2733.3	2907.6	2978.7
27.5°	2388.0	2459.1	2611.4	2806.0	2889.0
30°	2245.8	2327.1	2496.3	2687.6	2812.8
32.5°	2098.6	2200.1	2360.9	2580.9	2691.0
35°	1944.6	2049.5	2227.2	2462.5	2575.9
37.5°	1790.6	1892.1	2085.1	2337.2	2438.8
40°	1628.1	1728.0	1926.0	2181.5	2298.3
42.5°	1487.6	1574.0	1777.0	1995.4	2103.7
45°	1333.6	1414.9	1609.5	1826.1	1907.4
47.5°	1164.4	1259.2	1448.7	1626.4	1658.6
50°	1008.7	1106.8	1287.9	1391.2	1367.5
52.5°	871.6	954.5	1120.4	1164.4	1108.5
55°	766.7	820.8	968.1	959.6	886.8
57.5°	670.2	704.0	829.3	781.9	712.5
60°	605.9	621.1	697.3	653.3	611.0
62.5°	545.0	551.7	592.3	568.7	536.5
65°	482.3	490.8	516.2	501.0	480.6
67.5°	424.8	428.2	451.9	448.5	423.1
70°	367.3	372.3	387.6	394.3	379.1
72.5°	311.4	316.5	331.7	338.5	324.9
75°	258.9	262.3	279.2	284.3	274.2
77.5°	208.2	214.9	225.1	233.6	221.7
80°	159.1	162.5	172.6	182.8	177.7
82.5°	111.7	116.8	123.5	137.1	140.5
85°	69.4	72.8	76.2	86.3	99.9
87.5°	27.1	28.8	33.8	37.2	49.1
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	16.03	17.51	16.39	17.82	18.14	16.68	18.16	17.05	18.48	18.79
	3H	17.63	18.96	18.01	19.28	19.65	18.12	19.44	18.50	19.77	20.13
	4H	18.25	19.49	18.65	19.84	20.22	18.72	19.96	19.12	20.31	20.69
	6H	18.72	19.86	19.13	20.23	20.62	19.21	20.36	19.62	20.72	21.12
	8H	18.87	19.96	19.30	20.35	20.75	19.41	20.50	19.83	20.89	21.29
	12H	18.97	20.01	19.40	20.40	20.83	19.57	20.62	20.00	21.00	21.43
4H	2H	16.65	17.89	17.05	18.24	18.62	17.18	18.42	17.58	18.77	19.15
	3H	18.47	19.50	18.88	19.90	20.30	18.87	19.90	19.28	20.30	20.70
	4H	19.21	20.14	19.64	20.55	20.99	19.63	20.55	20.06	20.97	21.41
	6H	19.81	20.61	20.27	21.06	21.52	20.26	21.07	20.72	21.51	21.97
	8H	20.00	20.76	20.47	21.20	21.67	20.52	21.27	20.98	21.71	22.18
	12H	20.15	20.82	20.63	21.30	21.77	20.74	21.41	21.22	21.89	22.36
8H	4H	19.53	20.28	19.99	20.73	21.19	19.90	20.65	20.36	21.09	21.56
	6H	20.25	20.88	20.75	21.37	21.85	20.67	21.29	21.17	21.79	22.26
	8H	20.53	21.09	21.04	21.60	22.09	21.02	21.58	21.53	22.09	22.58
	12H	20.74	21.24	21.25	21.73	22.30	21.33	21.83	21.84	22.32	22.89
12H	4H	19.56	20.24	20.05	20.71	21.19	19.92	20.59	20.40	21.07	21.54
	6H	20.32	20.88	20.83	21.39	21.88	20.72	21.28	21.23	21.79	22.28
	8H	20.65	21.15	21.16	21.64	22.20	21.12	21.62	21.63	22.11	22.68