

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: P895250

Luminaire Tested: 8TMB-8SL-LVRF-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895250
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-L935
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3500K C
Light Source: -
Ballast/Driver: -

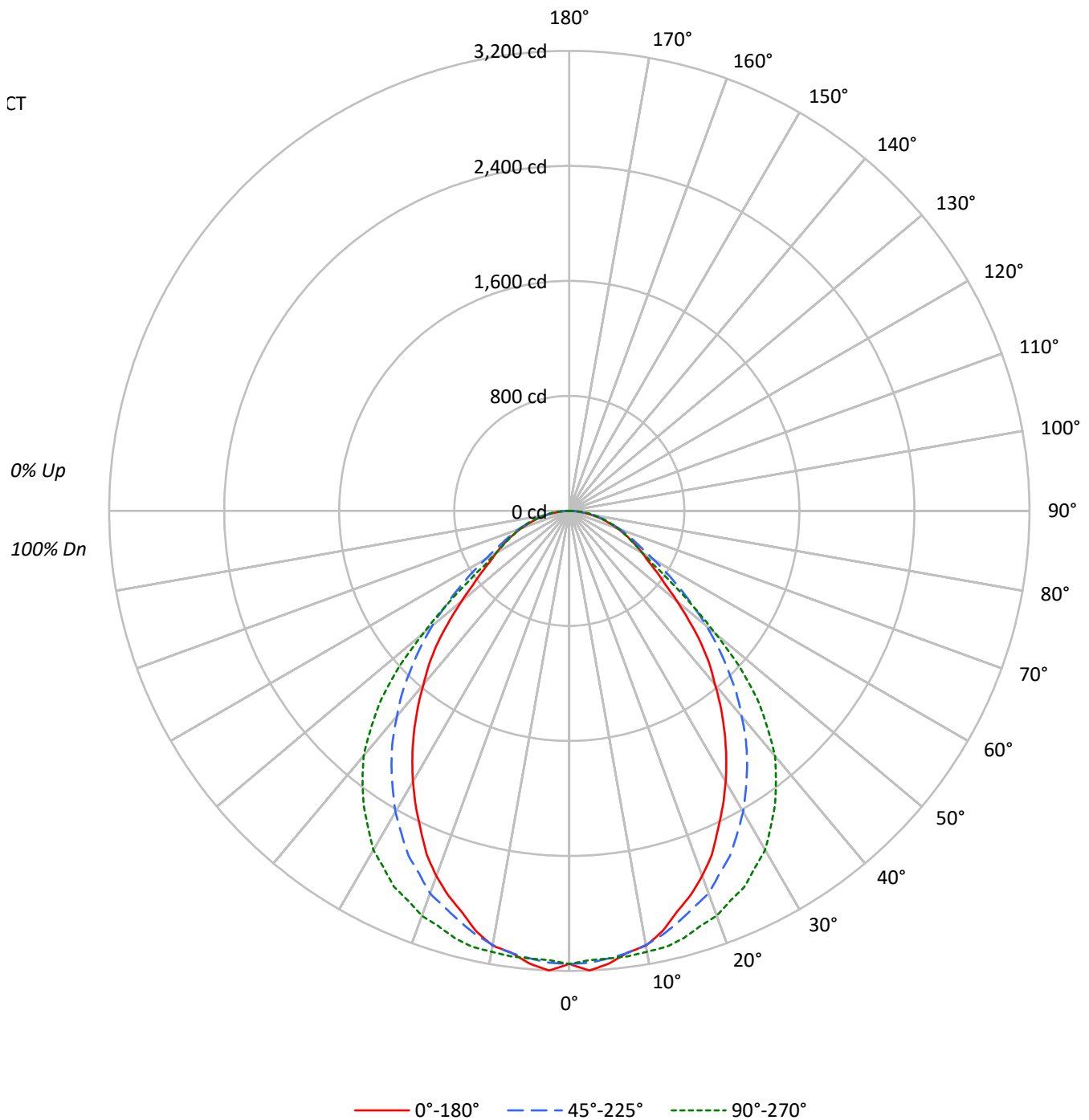
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6549.0 lumens
Efficiency: N/A
Efficacy: 109.9 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 (A_{in}): 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°	11181	11181	11181
5°	11258	11130	11130
10°	11064	11046	11217
15°	10606	10852	11298
20°	10203	10691	11316
25°	9571	10360	11291
30°	8909	9903	11158
35°	8155	9340	10803
40°	7302	8637	10307
45°	6479	7819	9266
50°	5391	6883	7308
55°	4592	5798	5311
60°	4163	4791	4197
65°	3921	4196	3907
70°	3689	3892	3808
75°	3437	3707	3640
80°	3147	3414	3517
85°	2736	3000	3937

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9266 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.3	4.6
10°-20°	839.5	12.8
20°-30°	1219.1	18.6
30°-40°	1357.5	20.7
40°-50°	1199.3	18.3
50°-60°	787.0	12.0
60°-70°	481.9	7.4
70°-80°	280.4	4.3
80°-90°	85.9	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°	2356.9	36.0
0°-40°	3714.4	56.7
0°-60°	5700.8	87.0
0°-90°	6549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3151	3151	3151	3151	3151	
5°	3161	3162	3125	3156	3125	298
15°	2887	2920	2954	3071	3076	815
25°	2445	2504	2646	2815	2884	1125
35°	1883	1984	2156	2384	2494	1174
45°	1291	1370	1558	1768	1847	988
55°	742	795	937	929	859	673
65°	467	475	500	485	465	464
75°	251	254	270	275	266	266
85°	67	70	74	84	97	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3151.1	3151.1	3151.1	3151.1	3151.1
2.5°	3200.2	3160.9	3146.2	3160.9	3128.1
5°	3160.9	3162.5	3124.9	3156.0	3124.9
7.5°	3098.6	3119.9	3101.9	3149.4	3124.9
10°	3070.8	3072.4	3065.9	3115.0	3113.4
12.5°	2993.8	2998.7	3016.7	3090.4	3106.8
15°	2887.3	2920.0	2954.4	3070.8	3075.7
17.5°	2803.7	2843.0	2888.9	3013.4	3028.2
20°	2702.1	2718.5	2831.5	2941.3	2997.0
22.5°	2589.0	2620.2	2730.0	2877.4	2933.1
25°	2444.8	2503.8	2646.4	2815.2	2884.0
27.5°	2312.1	2380.9	2528.4	2716.8	2797.1
30°	2174.5	2253.1	2417.0	2602.1	2723.4
32.5°	2031.9	2130.2	2285.9	2498.9	2605.4
35°	1882.8	1984.4	2156.4	2384.2	2494.0
37.5°	1733.7	1832.0	2018.8	2262.9	2361.3
40°	1576.4	1673.0	1864.8	2112.2	2225.3
42.5°	1440.4	1523.9	1720.6	1931.9	2036.8
45°	1291.2	1369.9	1558.3	1768.1	1846.7
47.5°	1127.4	1219.1	1402.7	1574.7	1605.9
50°	976.6	1071.7	1247.0	1347.0	1324.0
52.5°	843.9	924.2	1084.8	1127.4	1073.3
55°	742.3	794.7	937.3	929.1	858.6
57.5°	648.9	681.7	802.9	757.0	689.9
60°	586.6	601.4	675.1	632.5	591.5
62.5°	527.6	534.2	573.5	550.6	519.4
65°	467.0	475.2	499.8	485.0	465.4
67.5°	411.3	414.6	437.5	434.2	409.7
70°	355.6	360.5	375.2	381.8	367.1
72.5°	301.5	306.4	321.2	327.7	314.6
75°	250.7	254.0	270.4	275.3	265.5
77.5°	201.6	208.1	217.9	226.1	214.7
80°	154.0	157.3	167.1	177.0	172.1
82.5°	108.1	113.1	119.6	132.7	136.0
85°	67.2	70.5	73.7	83.6	96.7
87.5°	26.2	27.9	32.8	36.0	47.5
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	15.92	17.40	16.28	17.71	18.03	16.57	18.05	16.93	18.36	18.68
	3H	17.52	18.84	17.90	19.17	19.54	18.00	19.33	18.38	19.66	20.02
	4H	18.14	19.38	18.54	19.73	20.11	18.61	19.85	19.01	20.20	20.58
	6H	18.61	19.75	19.02	20.12	20.51	19.10	20.24	19.51	20.61	21.00
	8H	18.76	19.85	19.19	20.24	20.64	19.29	20.39	19.72	20.78	21.18
	12H	18.86	19.90	19.29	20.28	20.71	19.46	20.51	19.89	20.89	21.32
4H	2H	16.54	17.78	16.94	18.13	18.51	17.06	18.30	17.46	18.65	19.03
	3H	18.36	19.39	18.77	19.79	20.19	18.76	19.79	19.17	20.19	20.59
	4H	19.10	20.02	19.53	20.44	20.88	19.51	20.44	19.95	20.86	21.29
	6H	19.70	20.50	20.15	20.94	21.41	20.15	20.95	20.61	21.40	21.86
	8H	19.89	20.65	20.36	21.09	21.56	20.40	21.16	20.87	21.60	22.07
	12H	20.03	20.71	20.52	21.19	21.66	20.63	21.30	21.11	21.78	22.25
8H	4H	19.42	20.17	19.88	20.61	21.08	19.78	20.54	20.25	20.98	21.45
	6H	20.14	20.76	20.64	21.26	21.73	20.56	21.18	21.06	21.67	22.15
	8H	20.41	20.97	20.93	21.48	21.97	20.90	21.46	21.42	21.97	22.46
	12H	20.63	21.13	21.14	21.62	22.19	21.22	21.72	21.73	22.21	22.78
12H	4H	19.45	20.12	19.93	20.60	21.07	19.80	20.48	20.29	20.95	21.43
	6H	20.20	20.77	20.72	21.28	21.77	20.60	21.17	21.12	21.68	22.16
	8H	20.54	21.03	21.05	21.53	22.09	21.01	21.51	21.52	22.00	22.56