

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: P895431

Luminaire Tested: 8TMB-SC3-LVR-UNV-CC93-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-LVR-UNV-CC93-HI-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

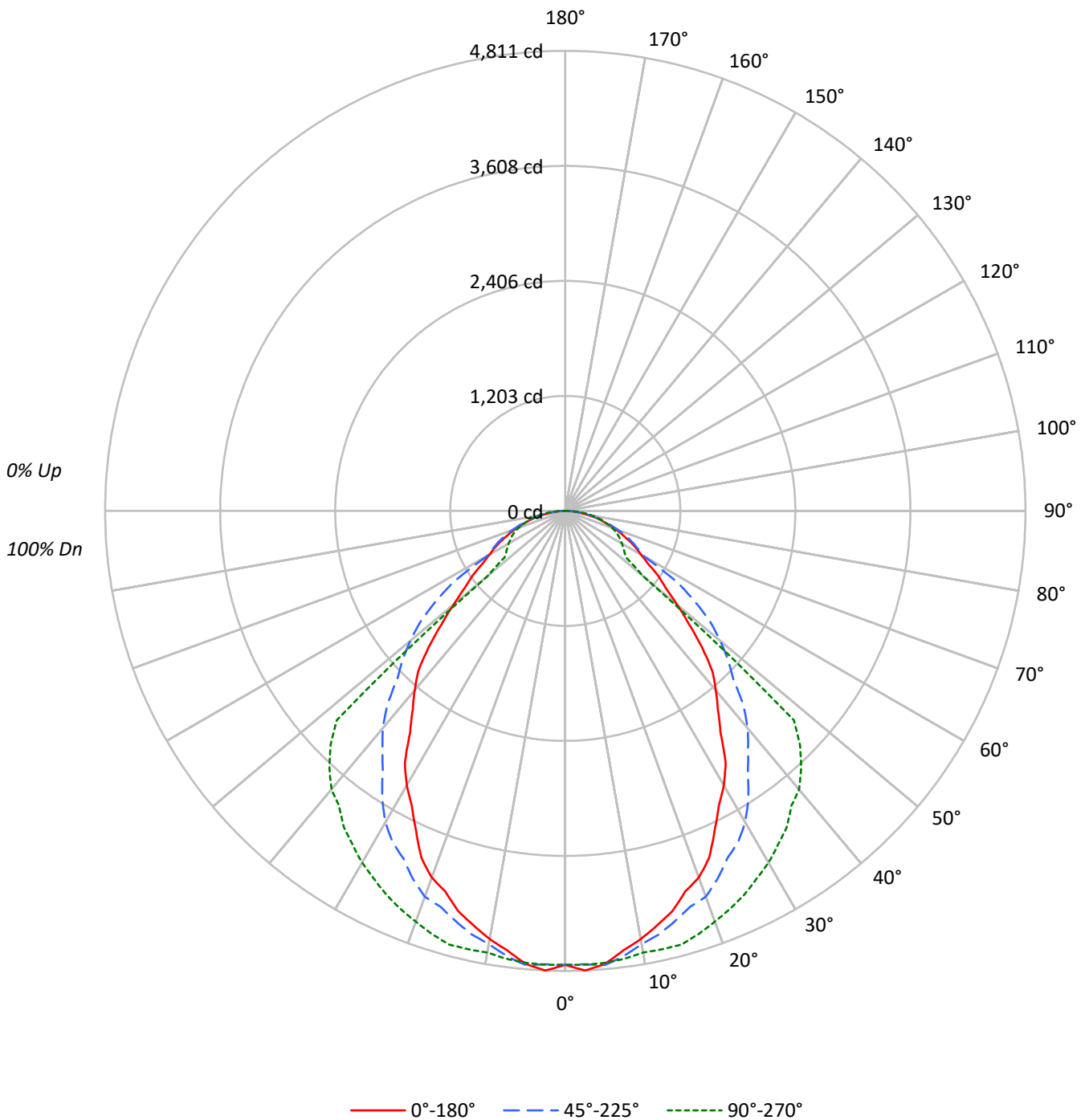
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10132.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 101.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
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	71	80	74	69	77	72	68	75	71	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	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	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16846	16846	16846
5°	16936	16980	16893
10°	16381	16573	16896
15°	15908	16309	17244
20°	15409	16215	17259
25°	14458	15692	17335
30°	13581	15409	17406
35°	12247	14410	17488
40°	11344	13747	17611
45°	10148	12460	17412
50°	8419	11672	5849
55°	7335	10245	4680
60°	6487	6676	4852
65°	6168	6494	5151
70°	5786	6138	5434
75°	5385	5784	5585
80°	4906	5449	5846
85°	4344	4641	6318

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 17412 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.3	4.4
10°-20°	1266.9	12.5
20°-30°	1863.6	18.4
30°-40°	2131.2	21.0
40°-50°	2018.1	19.9
50°-60°	1111.9	11.0
60°-70°	713.9	7.0
70°-80°	440.6	4.3
80°-90°	135.6	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°	3580.8	35.3
0°-40°	5712.0	56.4
0°-60°	8842.0	87.3
0°-90°	10132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10132.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4748	4748	4748	4748	4748	
5°	4755	4794	4767	4767	4743	446
15°	4331	4384	4440	4673	4694	1216
25°	3693	3858	4008	4270	4428	1701
35°	2827	3070	3327	3810	4037	1787
45°	2022	2214	2483	3186	3470	1547
55°	1186	1244	1656	854	757	1060
65°	735	759	774	689	614	727
75°	393	400	422	444	407	418
85°	107	107	114	131	155	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4747.9	4747.9	4747.9	4747.9	4747.9
2.5°	4810.9	4823.0	4745.4	4743.0	4750.3
5°	4755.1	4793.9	4767.3	4767.3	4743.0
7.5°	4636.3	4701.8	4694.5	4750.3	4723.6
10°	4546.6	4600.0	4600.0	4745.4	4689.7
12.5°	4439.9	4500.5	4534.5	4687.3	4694.5
15°	4330.8	4384.1	4439.9	4672.7	4694.5
17.5°	4173.2	4270.2	4340.5	4568.4	4638.8
20°	4081.0	4139.2	4294.4	4478.7	4570.9
22.5°	3928.3	4013.1	4163.5	4369.6	4505.4
25°	3693.1	3857.9	4008.3	4270.2	4427.8
27.5°	3474.8	3598.5	3908.9	4185.3	4335.6
30°	3314.8	3411.8	3761.0	4061.6	4248.4
32.5°	3120.8	3278.4	3562.1	3940.4	4139.2
35°	2827.4	3069.9	3326.9	3809.5	4037.4
37.5°	2621.3	2788.6	3137.8	3673.7	3884.6
40°	2449.1	2601.9	2968.0	3503.9	3802.2
42.5°	2276.9	2400.6	2754.6	3377.8	3649.4
45°	2022.3	2213.9	2483.1	3186.3	3470.0
47.5°	1755.6	1959.3	2306.0	3023.8	3242.0
50°	1525.2	1687.7	2114.5	2701.3	1059.7
52.5°	1324.0	1474.3	1910.8	977.2	800.2
55°	1185.8	1244.0	1656.2	853.6	756.6
57.5°	1020.9	1115.4	1389.4	812.3	717.8
60°	914.2	955.4	940.8	771.1	683.8
62.5°	829.3	858.4	853.6	729.9	645.0
65°	734.7	759.0	773.5	688.7	613.5
67.5°	640.2	662.0	683.8	637.7	569.8
70°	557.7	572.3	591.7	577.1	523.8
72.5°	472.8	489.8	501.9	514.1	463.1
75°	392.8	400.1	421.9	443.7	407.4
77.5°	320.1	327.4	341.9	366.2	346.8
80°	240.1	247.3	266.7	286.1	286.1
82.5°	169.7	174.6	186.7	213.4	225.5
85°	106.7	106.7	114.0	130.9	155.2
87.5°	41.2	41.2	48.5	58.2	77.6
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	17.76	19.24	18.13	19.56	19.87	15.56	17.05	15.93	17.36	17.67
	3H	19.29	20.61	19.67	20.94	21.31	17.89	19.22	18.27	19.55	19.91
	4H	19.88	21.12	20.28	21.47	21.85	18.84	20.09	19.25	20.44	20.82
	6H	20.34	21.48	20.75	21.85	22.24	19.63	20.78	20.04	21.14	21.54
	8H	20.48	21.57	20.91	21.96	22.37	19.94	21.03	20.37	21.42	21.82
	12H	20.58	21.62	21.01	22.01	22.43	20.19	21.23	20.62	21.62	22.05
4H	2H	18.31	19.56	18.71	19.90	20.28	16.67	17.91	17.07	18.26	18.64
	3H	20.08	21.11	20.50	21.51	21.92	19.11	20.14	19.53	20.54	20.95
	4H	20.80	21.73	21.24	22.15	22.59	20.18	21.11	20.61	21.52	21.96
	6H	21.39	22.20	21.85	22.64	23.10	21.07	21.87	21.53	22.32	22.78
	8H	21.58	22.33	22.04	22.78	23.24	21.42	22.17	21.88	22.62	23.09
	12H	21.72	22.39	22.20	22.87	23.34	21.71	22.38	22.19	22.86	23.33
8H	4H	21.11	21.86	21.58	22.31	22.78	20.57	21.32	21.03	21.76	22.23
	6H	21.82	22.45	22.32	22.94	23.42	21.60	22.23	22.10	22.72	23.20
	8H	22.08	22.65	22.60	23.16	23.65	22.05	22.61	22.56	23.12	23.61
	12H	22.29	22.79	22.80	23.28	23.85	22.43	22.93	22.94	23.42	23.99
12H	4H	21.15	21.82	21.63	22.30	22.77	20.60	21.27	21.08	21.75	22.23
	6H	21.89	22.45	22.40	22.96	23.45	21.67	22.23	22.18	22.74	23.23
	8H	22.21	22.71	22.72	23.20	23.76	22.17	22.67	22.68	23.17	23.73