

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: P894511

Luminaire Tested: 8TMB-12SL-LVR-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894511
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-12SL-LVR-UNV-L840
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

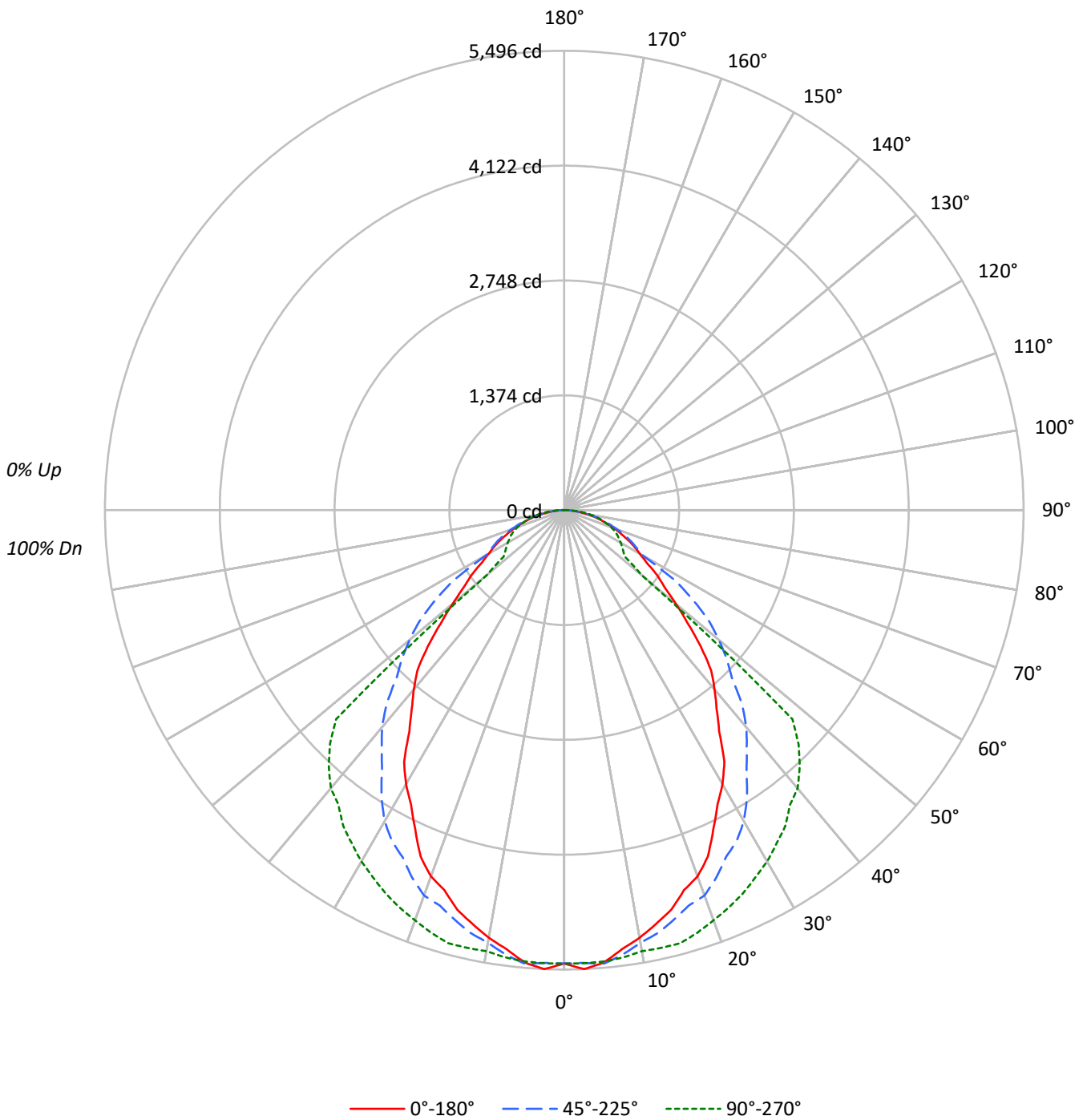
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11575.0 lumens
Efficiency: N/A
Efficacy: 130.3 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): 88.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.53
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°	19245	19245	19245
5°	19349	19398	19299
10°	18714	18933	19303
15°	18174	18632	19700
20°	17604	18524	19717
25°	16517	17927	19803
30°	15515	17603	19885
35°	13991	16463	19978
40°	12959	15705	20119
45°	11593	14234	19892
50°	9618	13334	6682
55°	8380	11705	5347
60°	7411	7627	5544
65°	7047	7419	5884
70°	6609	7012	6208
75°	6153	6608	6380
80°	5605	6226	6680
85°	4963	5300	7218

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 19892 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.5	4.4
10°-20°	1447.3	12.5
20°-30°	2129.0	18.4
30°-40°	2434.7	21.0
40°-50°	2305.5	19.9
50°-60°	1270.2	11.0
60°-70°	815.5	7.0
70°-80°	503.3	4.3
80°-90°	154.9	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°	4090.8	35.3
0°-40°	6525.5	56.4
0°-60°	10101.2	87.3
0°-90°	11575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11575.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5424	5424	5424	5424	5424	
5°	5432	5477	5446	5446	5418	509
15°	4948	5008	5072	5338	5363	1389
25°	4219	4407	4579	4878	5058	1943
35°	3230	3507	3801	4352	4612	2042
45°	2310	2529	2837	3640	3964	1767
55°	1355	1421	1892	975	864	1211
65°	839	867	884	787	701	831
75°	449	457	482	507	465	477
85°	122	122	130	150	177	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5424.1	5424.1	5424.1	5424.1	5424.1
2.5°	5496.1	5509.9	5421.3	5418.5	5426.8
5°	5432.4	5476.7	5446.2	5446.2	5418.5
7.5°	5296.6	5371.4	5363.1	5426.8	5396.4
10°	5194.1	5255.1	5255.1	5421.3	5357.6
12.5°	5072.2	5141.5	5180.3	5354.8	5363.1
15°	4947.6	5008.5	5072.2	5338.2	5363.1
17.5°	4767.5	4878.3	4958.7	5219.1	5299.4
20°	4662.3	4728.7	4906.0	5116.6	5221.8
22.5°	4487.7	4584.7	4756.4	4991.9	5147.0
25°	4219.0	4407.4	4579.2	4878.3	5058.4
27.5°	3969.7	4111.0	4465.6	4781.4	4953.1
30°	3786.9	3897.7	4296.6	4640.1	4853.4
32.5°	3565.3	3745.3	4069.4	4501.6	4728.7
35°	3230.1	3507.1	3800.7	4352.0	4612.4
37.5°	2994.6	3185.7	3584.6	4196.9	4437.9
40°	2797.9	2972.4	3390.7	4002.9	4343.7
42.5°	2601.2	2742.5	3147.0	3858.9	4169.2
45°	2310.4	2529.2	2836.7	3640.1	3964.2
47.5°	2005.6	2238.3	2634.5	3454.4	3703.8
50°	1742.5	1928.1	2415.6	3086.0	1210.6
52.5°	1512.5	1684.3	2182.9	1116.4	914.2
55°	1354.6	1421.1	1892.1	975.1	864.3
57.5°	1166.3	1274.3	1587.3	928.0	820.0
60°	1044.4	1091.5	1074.8	880.9	781.2
62.5°	947.4	980.7	975.1	833.8	736.9
65°	839.4	867.1	883.7	786.7	700.9
67.5°	731.3	756.3	781.2	728.6	651.0
70°	637.1	653.8	675.9	659.3	598.4
72.5°	540.2	559.6	573.4	587.3	529.1
75°	448.8	457.1	482.0	506.9	465.4
77.5°	365.7	374.0	390.6	418.3	396.1
80°	274.3	282.6	304.7	326.9	326.9
82.5°	193.9	199.5	213.3	243.8	257.6
85°	121.9	121.9	130.2	149.6	177.3
87.5°	47.1	47.1	55.4	66.5	88.6
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	18.23	19.71	18.59	20.02	20.34	16.03	17.51	16.39	17.82	18.14
	3H	19.75	21.08	20.13	21.41	21.77	18.36	19.68	18.74	20.01	20.37
	4H	20.34	21.59	20.74	21.94	22.31	19.31	20.55	19.71	20.90	21.28
	6H	20.80	21.95	21.21	22.31	22.71	20.09	21.24	20.50	21.61	22.00
	8H	20.94	22.04	21.37	22.43	22.83	20.40	21.50	20.83	21.89	22.29
	12H	21.04	22.09	21.47	22.47	22.90	20.65	21.70	21.08	22.08	22.51
4H	2H	18.78	20.02	19.18	20.37	20.75	17.13	18.37	17.53	18.72	19.10
	3H	20.55	21.58	20.96	21.98	22.38	19.58	20.61	19.99	21.01	21.41
	4H	21.27	22.19	21.70	22.61	23.05	20.64	21.57	21.08	21.98	22.42
	6H	21.85	22.66	22.31	23.10	23.56	21.53	22.34	21.99	22.78	23.24
	8H	22.04	22.80	22.51	23.24	23.71	21.88	22.64	22.35	23.08	23.55
	12H	22.18	22.85	22.66	23.33	23.80	22.17	22.84	22.65	23.32	23.79
8H	4H	21.57	22.33	22.04	22.77	23.24	21.03	21.78	21.49	22.23	22.70
	6H	22.29	22.91	22.78	23.40	23.88	22.07	22.69	22.56	23.18	23.66
	8H	22.55	23.11	23.06	23.62	24.11	22.51	23.07	23.03	23.58	24.07
	12H	22.76	23.26	23.27	23.75	24.31	22.89	23.39	23.40	23.89	24.45
12H	4H	21.61	22.28	22.09	22.76	23.23	21.06	21.74	21.55	22.22	22.69
	6H	22.35	22.91	22.87	23.42	23.91	22.13	22.69	22.64	23.20	23.69
	8H	22.67	23.17	23.18	23.66	24.23	22.64	23.14	23.15	23.63	24.19