

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: P894509

Luminaire Tested: 8TMB-12SL-LVR-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894509
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-L830
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

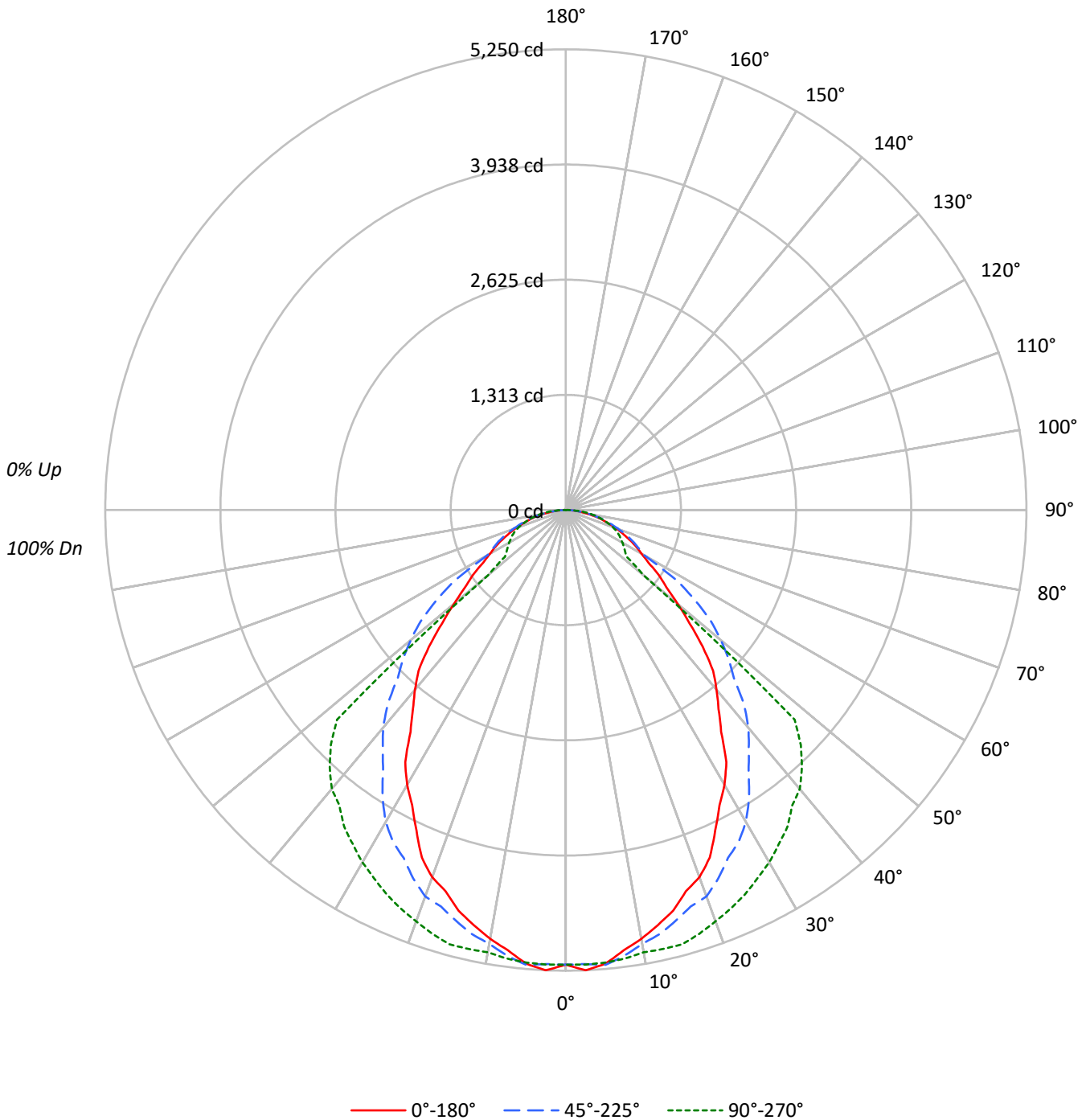
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11057.0 lumens
Efficiency: N/A
Efficacy: 124.5 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	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	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18384	18384	18384
5°	18483	18530	18435
10°	17876	18086	18439
15°	17361	17798	18819
20°	16816	17696	18835
25°	15778	17125	18917
30°	14821	16815	18995
35°	13365	15726	19084
40°	12379	15002	19219
45°	11074	13597	19001
50°	9188	12737	6383
55°	8005	11181	5107
60°	7079	7286	5295
65°	6732	7087	5621
70°	6314	6699	5930
75°	5877	6312	6095
80°	5353	5948	6381
85°	4739	5064	6896

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 19001 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.4	4.4
10°-20°	1382.6	12.5
20°-30°	2033.7	18.4
30°-40°	2325.8	21.0
40°-50°	2202.3	19.9
50°-60°	1213.4	11.0
60°-70°	779.0	7.0
70°-80°	480.8	4.3
80°-90°	148.0	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°	3907.7	35.3
0°-40°	6233.5	56.4
0°-60°	9649.2	87.3
0°-90°	11057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11057.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5181	5181	5181	5181	5181	
5°	5189	5232	5202	5202	5176	487
15°	4726	4784	4845	5099	5123	1327
25°	4030	4210	4374	4660	4832	1856
35°	3086	3350	3631	4157	4406	1950
45°	2207	2416	2710	3477	3787	1688
55°	1294	1358	1807	932	826	1157
65°	802	828	844	752	670	794
75°	429	437	460	484	445	456
85°	116	116	124	143	169	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5181.3	5181.3	5181.3	5181.3	5181.3
2.5°	5250.1	5263.4	5178.7	5176.0	5184.0
5°	5189.3	5231.6	5202.5	5202.5	5176.0
7.5°	5059.6	5131.0	5123.1	5184.0	5154.9
10°	4961.7	5019.9	5019.9	5178.7	5117.8
12.5°	4845.3	4911.4	4948.5	5115.2	5123.1
15°	4726.2	4784.4	4845.3	5099.3	5123.1
17.5°	4554.2	4660.0	4736.8	4985.5	5062.2
20°	4453.6	4517.1	4686.5	4887.6	4988.2
22.5°	4286.9	4379.5	4543.6	4768.5	4916.7
25°	4030.2	4210.2	4374.2	4660.0	4832.0
27.5°	3792.1	3927.0	4265.7	4567.4	4731.5
30°	3617.4	3723.3	4104.3	4432.4	4636.2
32.5°	3405.7	3577.7	3887.3	4300.1	4517.1
35°	3085.5	3350.1	3630.6	4157.2	4406.0
37.5°	2860.6	3043.2	3424.2	4009.0	4239.3
40°	2672.7	2839.4	3239.0	3823.8	4149.3
42.5°	2484.8	2619.8	3006.1	3686.2	3982.6
45°	2207.0	2416.0	2709.7	3477.2	3786.8
47.5°	1915.9	2138.2	2516.6	3299.9	3538.0
50°	1664.5	1841.8	2307.5	2947.9	1156.4
52.5°	1444.8	1608.9	2085.2	1066.4	873.3
55°	1294.0	1357.5	1807.4	931.5	825.6
57.5°	1114.1	1217.3	1516.3	886.5	783.3
60°	997.6	1042.6	1026.7	841.5	746.2
62.5°	905.0	936.8	931.5	796.5	703.9
65°	801.8	828.3	844.1	751.5	669.5
67.5°	698.6	722.4	746.2	696.0	621.9
70°	608.6	624.5	645.7	629.8	571.6
72.5°	516.0	534.5	547.8	561.0	505.4
75°	428.7	436.6	460.4	484.3	444.6
77.5°	349.3	357.2	373.1	399.6	378.4
80°	262.0	269.9	291.1	312.3	312.3
82.5°	185.2	190.5	203.8	232.9	246.1
85°	116.4	116.4	124.4	142.9	169.4
87.5°	45.0	45.0	52.9	63.5	84.7
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	18.07	19.55	18.43	19.86	20.18	15.87	17.35	16.23	17.66	17.98
	3H	19.59	20.92	19.97	21.25	21.61	18.20	19.53	18.58	19.85	20.22
	4H	20.18	21.43	20.58	21.78	22.16	19.15	20.39	19.55	20.74	21.12
	6H	20.64	21.79	21.05	22.16	22.55	19.93	21.08	20.35	21.45	21.84
	8H	20.79	21.88	21.21	22.27	22.67	20.24	21.34	20.67	21.73	22.13
	12H	20.88	21.93	21.31	22.31	22.74	20.49	21.54	20.92	21.92	22.35
4H	2H	18.62	19.86	19.02	20.21	20.59	16.97	18.22	17.37	18.56	18.94
	3H	20.39	21.42	20.80	21.82	22.22	19.42	20.45	19.83	20.85	21.25
	4H	21.11	22.03	21.54	22.45	22.89	20.48	21.41	20.92	21.83	22.27
	6H	21.69	22.50	22.15	22.94	23.40	21.37	22.18	21.83	22.62	23.08
	8H	21.88	22.64	22.35	23.08	23.55	21.72	22.48	22.19	22.92	23.39
	12H	22.02	22.69	22.50	23.17	23.64	22.01	22.69	22.50	23.16	23.64
8H	4H	21.41	22.17	21.88	22.61	23.08	20.87	21.62	21.33	22.07	22.54
	6H	22.13	22.75	22.62	23.24	23.72	21.91	22.53	22.40	23.02	23.50
	8H	22.39	22.95	22.90	23.46	23.95	22.35	22.91	22.87	23.42	23.91
	12H	22.60	23.10	23.11	23.59	24.15	22.74	23.23	23.25	23.73	24.29
12H	4H	21.45	22.12	21.93	22.60	23.07	20.91	21.58	21.39	22.06	22.53
	6H	22.19	22.75	22.71	23.26	23.75	21.97	22.53	22.49	23.04	23.53
	8H	22.51	23.01	23.02	23.50	24.07	22.48	22.98	22.99	23.47	24.04