

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: P894527

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894527
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-12SL-LVRF-UNV-L840
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 4000K (C)
Light Source: -
Ballast/Driver: -

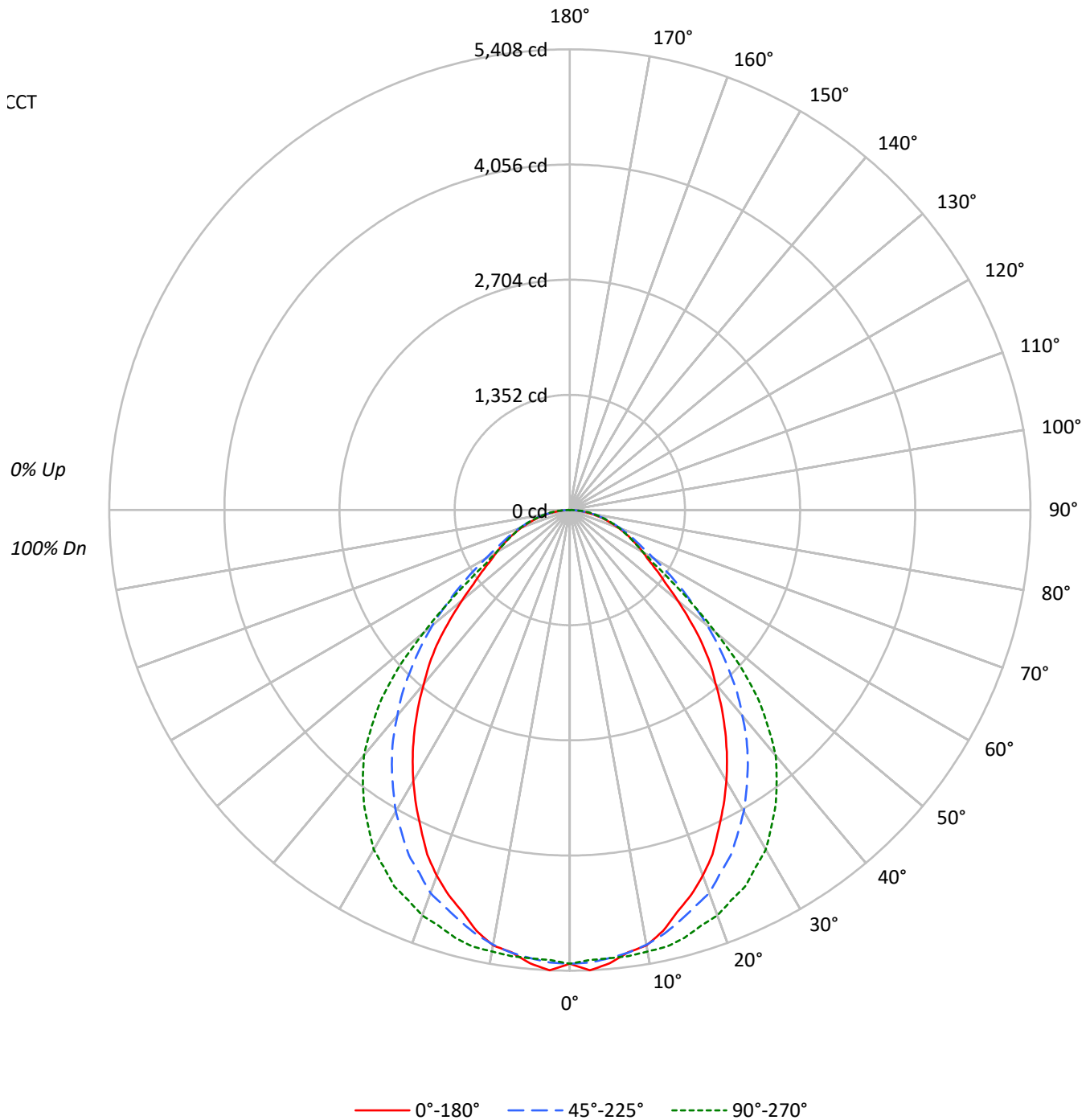
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11068.0 lumens
Efficiency: N/A
Efficacy: 124.6 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): 88.8
Input Voltage (V): 120
Input Current (Ain): 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	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	67	65	
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	40	
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	38	36	
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18895	18895	18895
5°	19027	18810	18810
10°	18698	18668	18957
15°	17924	18341	19094
20°	17243	18069	19125
25°	16176	17510	19081
30°	15056	16736	18857
35°	13783	15786	18257
40°	12339	14597	17419
45°	10950	13215	15661
50°	9111	11633	12351
55°	7760	9799	8976
60°	7035	8097	7094
65°	6627	7091	6603
70°	6234	6579	6435
75°	5808	6264	6150
80°	5319	5772	5942
85°	4621	5073	6652

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 15661 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.2	4.6
10°-20°	1418.8	12.8
20°-30°	2060.3	18.6
30°-40°	2294.3	20.7
40°-50°	2026.9	18.3
50°-60°	1330.0	12.0
60°-70°	814.4	7.4
70°-80°	473.9	4.3
80°-90°	145.2	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°	3983.2	36.0
0°-40°	6277.5	56.7
0°-60°	9634.5	87.0
0°-90°	11068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5325	5325	5325	5325	5325	
5°	5342	5345	5281	5334	5281	504
15°	4880	4935	4993	5190	5198	1377
25°	4132	4232	4472	4758	4874	1901
35°	3182	3354	3644	4029	4215	1985
45°	2182	2315	2634	2988	3121	1669
55°	1254	1343	1584	1570	1451	1138
65°	789	803	845	820	786	785
75°	424	429	457	465	449	449
85°	114	119	125	141	163	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5325.4	5325.4	5325.4	5325.4	5325.4
2.5°	5408.5	5342.0	5317.1	5342.0	5286.6
5°	5342.0	5344.8	5281.1	5333.7	5281.1
7.5°	5236.8	5272.8	5242.3	5322.6	5281.1
10°	5189.7	5192.5	5181.4	5264.5	5261.7
12.5°	5059.6	5067.9	5098.3	5222.9	5250.6
15°	4879.6	4934.9	4993.1	5189.7	5198.0
17.5°	4738.3	4804.8	4882.3	5092.8	5117.7
20°	4566.6	4594.3	4785.4	4970.9	5065.1
22.5°	4375.5	4428.2	4613.7	4862.9	4957.1
25°	4131.8	4231.5	4472.5	4757.7	4874.0
27.5°	3907.5	4023.8	4273.1	4591.5	4727.2
30°	3674.9	3807.8	4084.8	4397.7	4602.6
32.5°	3434.0	3600.1	3863.2	4223.2	4403.2
35°	3182.0	3353.7	3644.4	4029.4	4214.9
37.5°	2929.9	3096.1	3411.8	3824.4	3990.6
40°	2664.1	2827.5	3151.5	3569.7	3760.7
42.5°	2434.2	2575.5	2907.8	3265.0	3442.3
45°	2182.2	2315.2	2633.6	2988.1	3121.0
47.5°	1905.3	2060.4	2370.5	2661.3	2713.9
50°	1650.5	1811.1	2107.5	2276.4	2237.6
52.5°	1426.2	1561.9	1833.3	1905.3	1813.9
55°	1254.5	1343.1	1584.1	1570.2	1451.1
57.5°	1096.7	1152.0	1357.0	1279.4	1165.9
60°	991.4	1016.3	1141.0	1069.0	999.7
62.5°	891.7	902.8	969.3	930.5	877.9
65°	789.3	803.1	844.6	819.7	786.5
67.5°	695.1	700.6	739.4	733.9	692.3
70°	600.9	609.3	634.2	645.3	620.3
72.5°	509.6	517.9	542.8	553.9	531.7
75°	423.7	429.2	456.9	465.2	448.6
77.5°	340.6	351.7	368.3	382.2	362.8
80°	260.3	265.9	282.5	299.1	290.8
82.5°	182.8	191.1	202.2	224.3	229.9
85°	113.5	119.1	124.6	141.2	163.4
87.5°	44.3	47.1	55.4	60.9	80.3
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	17.74	19.22	18.11	19.53	19.85	18.39	19.87	18.76	20.19	20.50
	3H	19.34	20.67	19.72	21.00	21.36	19.83	21.15	20.21	21.48	21.84
	4H	19.96	21.20	20.36	21.55	21.93	20.43	21.68	20.83	22.02	22.40
	6H	20.43	21.58	20.84	21.94	22.34	20.92	22.07	21.33	22.43	22.83
	8H	20.58	21.67	21.01	22.06	22.46	21.12	22.21	21.54	22.60	23.00
	12H	20.68	21.73	21.11	22.11	22.54	21.28	22.33	21.72	22.71	23.14
4H	2H	18.36	19.60	18.76	19.95	20.33	18.89	20.13	19.29	20.48	20.86
	3H	20.18	21.21	20.59	21.61	22.01	20.58	21.61	20.99	22.01	22.41
	4H	20.92	21.85	21.35	22.26	22.70	21.34	22.26	21.77	22.68	23.12
	6H	21.52	22.32	21.98	22.77	23.23	21.97	22.78	22.43	23.22	23.68
	8H	21.72	22.47	22.18	22.91	23.38	22.23	22.98	22.69	23.42	23.89
	12H	21.86	22.53	22.34	23.01	23.48	22.45	23.12	22.93	23.60	24.07
8H	4H	21.24	21.99	21.70	22.44	22.90	21.61	22.36	22.07	22.80	23.27
	6H	21.96	22.59	22.46	23.08	23.56	22.38	23.00	22.88	23.50	23.97
	8H	22.24	22.80	22.75	23.31	23.80	22.73	23.29	23.24	23.80	24.29
	12H	22.45	22.95	22.96	23.44	24.01	23.04	23.54	23.55	24.03	24.60
12H	4H	21.27	21.95	21.76	22.43	22.90	21.63	22.30	22.11	22.78	23.25
	6H	22.03	22.59	22.54	23.10	23.59	22.43	22.99	22.94	23.50	23.99
	8H	22.36	22.86	22.87	23.35	23.92	22.83	23.33	23.34	23.82	24.39