

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: P894512

Luminaire Tested: 8TMB-12SL-LVR-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894512
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-L850
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

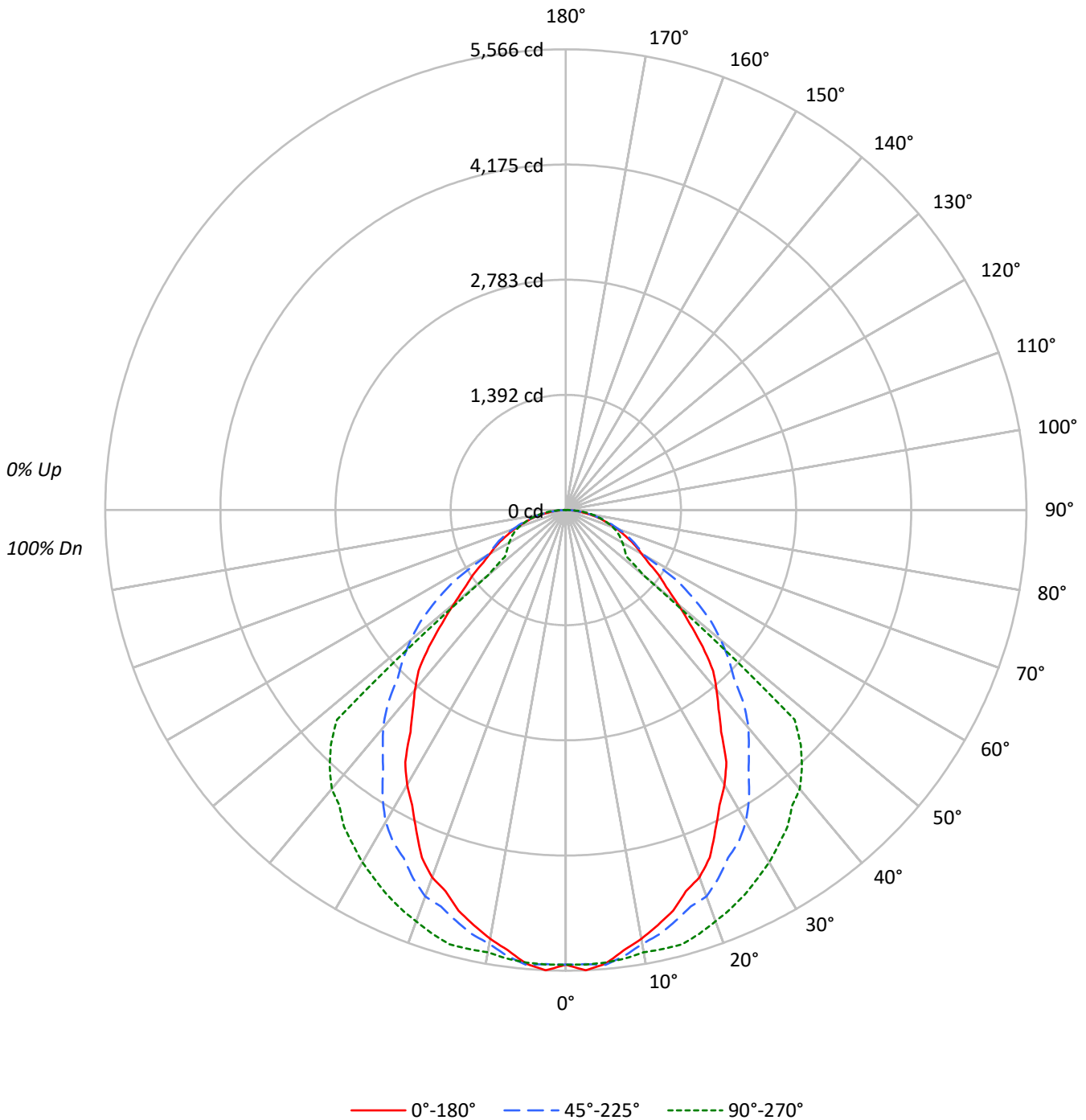
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11723.0 lumens
Efficiency: N/A
Efficacy: 132.0 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

TEST NUMBER: P894512
CATALOG NUMBER: 8TMB-12SL-LVR-UNV-L850

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	87	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65	65	
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36	36	
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	33	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19491	19491	19491
5°	19596	19646	19546
10°	18953	19176	19550
15°	18406	18870	19952
20°	17829	18761	19969
25°	16729	18156	20057
30°	15713	17828	20139
35°	14170	16673	20234
40°	13125	15906	20376
45°	11741	14416	20146
50°	9741	13504	6768
55°	8487	11854	5415
60°	7506	7725	5615
65°	7137	7514	5959
70°	6694	7102	6287
75°	6231	6693	6461
80°	5676	6306	6765
85°	5024	5370	7312

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 20146 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.0	4.4
10°-20°	1465.8	12.5
20°-30°	2156.2	18.4
30°-40°	2465.9	21.0
40°-50°	2335.0	19.9
50°-60°	1286.5	11.0
60°-70°	826.0	7.0
70°-80°	509.8	4.3
80°-90°	156.9	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°	4143.1	35.3
0°-40°	6609.0	56.4
0°-60°	10230.4	87.3
0°-90°	11723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5493	5493	5493	5493	5493	
5°	5502	5547	5516	5516	5488	516
15°	5011	5073	5137	5406	5432	1407
25°	4273	4464	4638	4941	5123	1968
35°	3271	3552	3849	4408	4671	2068
45°	2340	2562	2873	3687	4015	1790
55°	1372	1439	1916	988	875	1227
65°	850	878	895	797	710	842
75°	454	463	488	513	471	484
85°	123	123	132	152	180	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5493.4	5493.4	5493.4	5493.4	5493.4
2.5°	5566.4	5580.4	5490.6	5487.8	5496.2
5°	5501.8	5546.7	5515.9	5515.9	5487.8
7.5°	5364.4	5440.1	5431.7	5496.2	5465.4
10°	5260.6	5322.3	5322.3	5490.6	5426.1
12.5°	5137.1	5207.2	5246.5	5423.3	5431.7
15°	5010.8	5072.6	5137.1	5406.4	5431.7
17.5°	4828.5	4940.7	5022.1	5285.8	5367.2
20°	4721.9	4789.2	4968.8	5182.0	5288.6
22.5°	4545.1	4643.3	4817.3	5055.7	5212.9
25°	4273.0	4463.8	4637.7	4940.7	5123.1
27.5°	4020.5	4163.6	4522.7	4842.5	5016.5
30°	3835.3	3947.5	4351.5	4699.4	4915.5
32.5°	3610.8	3793.2	4121.5	4559.1	4789.2
35°	3271.4	3551.9	3849.3	4407.6	4671.4
37.5°	3032.9	3226.5	3630.5	4250.5	4494.6
40°	2833.7	3010.4	3434.1	4054.1	4399.2
42.5°	2634.5	2777.6	3187.2	3908.2	4222.5
45°	2339.9	2561.5	2873.0	3686.6	4014.9
47.5°	2031.3	2266.9	2668.2	3498.6	3751.1
50°	1764.7	1952.7	2446.5	3125.5	1226.1
52.5°	1531.9	1705.8	2210.8	1130.7	925.9
55°	1372.0	1439.3	1916.2	987.6	875.4
57.5°	1181.2	1290.6	1607.6	939.9	830.5
60°	1057.7	1105.4	1088.6	892.2	791.2
62.5°	959.5	993.2	987.6	844.5	746.3
65°	850.1	878.2	895.0	796.8	709.8
67.5°	740.7	765.9	791.2	737.9	659.3
70°	645.3	662.1	684.6	667.7	606.0
72.5°	547.1	566.7	580.8	594.8	535.9
75°	454.5	462.9	488.2	513.4	471.3
77.5°	370.3	378.8	395.6	423.6	401.2
80°	277.8	286.2	308.6	331.1	331.1
82.5°	196.4	202.0	216.0	246.9	260.9
85°	123.4	123.4	131.9	151.5	179.6
87.5°	47.7	47.7	56.1	67.3	89.8
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	18.27	19.75	18.63	20.06	20.38	16.07	17.55	16.44	17.87	18.18
	3H	19.80	21.12	20.17	21.45	21.81	18.40	19.73	18.78	20.06	20.42
	4H	20.39	21.63	20.79	21.98	22.36	19.35	20.59	19.75	20.94	21.32
	6H	20.84	21.99	21.26	22.36	22.75	20.14	21.28	20.55	21.65	22.04
	8H	20.99	22.08	21.42	22.47	22.87	20.45	21.54	20.87	21.93	22.33
	12H	21.08	22.13	21.52	22.51	22.94	20.70	21.74	21.13	22.12	22.55
4H	2H	18.82	20.06	19.22	20.41	20.79	17.18	18.42	17.58	18.77	19.15
	3H	20.59	21.62	21.00	22.02	22.42	19.62	20.65	20.03	21.05	21.45
	4H	21.31	22.24	21.74	22.65	23.09	20.69	21.61	21.12	22.03	22.47
	6H	21.90	22.70	22.35	23.15	23.61	21.58	22.38	22.03	22.82	23.28
	8H	22.09	22.84	22.55	23.28	23.75	21.93	22.68	22.39	23.12	23.59
	12H	22.22	22.90	22.71	23.37	23.85	22.22	22.89	22.70	23.37	23.84
8H	4H	21.62	22.37	22.08	22.82	23.28	21.07	21.83	21.54	22.27	22.74
	6H	22.33	22.95	22.83	23.45	23.92	22.11	22.73	22.61	23.23	23.70
	8H	22.59	23.15	23.11	23.66	24.15	22.55	23.12	23.07	23.63	24.12
	12H	22.80	23.30	23.31	23.79	24.36	22.94	23.44	23.45	23.93	24.50
12H	4H	21.65	22.33	22.14	22.81	23.28	21.11	21.78	21.59	22.26	22.73
	6H	22.39	22.96	22.91	23.47	23.96	22.17	22.74	22.69	23.25	23.74
	8H	22.71	23.21	23.22	23.71	24.27	22.68	23.18	23.19	23.67	24.24