

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: P894518

Luminaire Tested: 8TMB-12SL-LVRA-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-12SL-LVRA-UNV-L835
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

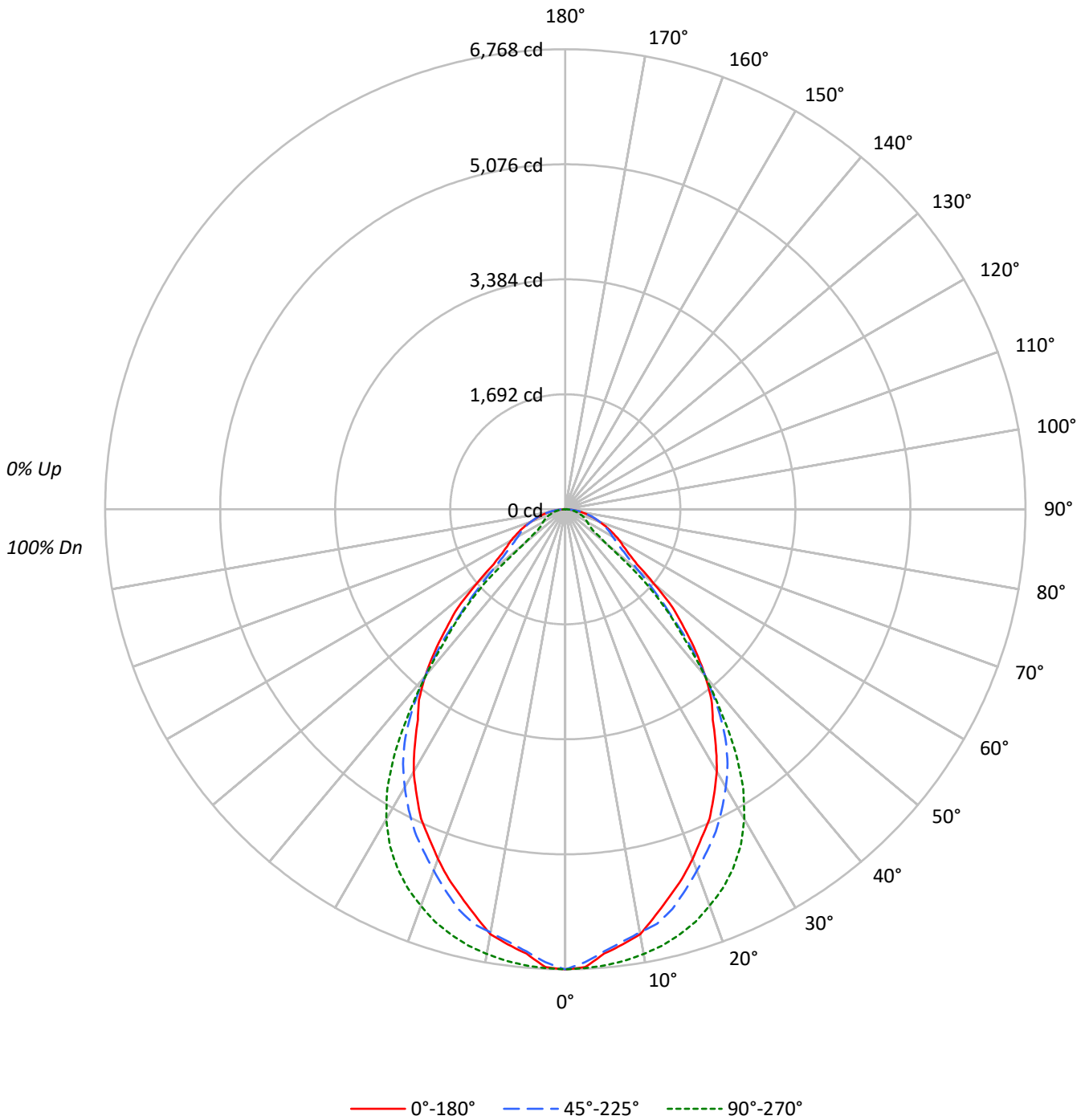
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10985.0 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
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: P894518
CATALOG NUMBER: 8TMB-12SL-LVRA-UNV-L835

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24016	24016	24016
5°	23368	23262	23989
10°	22871	22771	23934
15°	21691	22357	23799
20°	20663	21361	23436
25°	19655	20495	22838
30°	18261	19347	21563
35°	16374	17779	18913
40°	14835	14867	14786
45°	12404	10986	10714
50°	9370	7732	4381
55°	7046	6184	2763
60°	6548	5694	2662
65°	6093	5682	2666
70°	5574	5574	2624
75°	5285	5429	2535
80°	4883	5133	2601
85°	4262	4474	2842

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12693 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.2	5.7
10°-20°	1722.7	15.7
20°-30°	2442.9	22.2
30°-40°	2516.7	22.9
40°-50°	1757.8	16.0
50°-60°	843.5	7.7
60°-70°	591.8	5.4
70°-80°	370.0	3.4
80°-90°	114.4	1.0
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°	4790.8	43.6
0°-40°	7307.5	66.5
0°-60°	9908.8	90.2
0°-90°	10985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6768	6768	6768	6768	6768	
5°	6561	6552	6531	6702	6735	621
15°	5905	5949	6086	6261	6479	1663
25°	5020	5071	5235	5589	5834	2296
35°	3780	3883	4105	4190	4366	2382
45°	2472	2530	2189	2078	2135	1904
55°	1139	1083	1000	640	447	1067
65°	726	679	677	515	318	719
75°	386	380	396	342	185	406
85°	105	105	110	108	70	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6768.5	6768.5	6768.5	6768.5	6768.5
2.5°	6742.3	6721.4	6670.8	6763.3	6756.3
5°	6560.9	6552.2	6531.2	6702.2	6735.3
7.5°	6458.0	6440.5	6416.1	6604.5	6697.0
10°	6348.1	6369.0	6320.2	6492.9	6642.9
12.5°	6121.3	6177.1	6243.4	6377.7	6576.6
15°	5905.0	5948.6	6086.4	6260.9	6478.9
17.5°	5702.6	5753.2	5871.8	6133.5	6365.5
20°	5472.4	5542.1	5657.3	5992.2	6206.8
22.5°	5235.1	5299.7	5444.4	5803.8	6042.8
25°	5020.5	5071.1	5235.1	5589.2	5833.5
27.5°	4736.2	4830.4	4985.7	5327.6	5584.0
30°	4457.1	4537.3	4722.2	5010.1	5263.0
32.5°	4120.4	4237.3	4441.4	4661.2	4872.3
35°	3780.2	3883.2	4104.7	4190.2	4366.4
37.5°	3532.5	3560.4	3686.0	3675.6	3775.0
40°	3202.8	3258.6	3209.8	3079.0	3192.4
42.5°	2847.0	2913.2	2716.1	2564.4	2604.5
45°	2471.9	2529.5	2189.3	2077.6	2135.2
47.5°	2147.4	2142.2	1765.4	1690.4	1610.1
50°	1697.4	1753.2	1400.8	1261.2	793.7
52.5°	1325.8	1346.7	1154.8	805.9	521.6
55°	1139.1	1083.3	999.6	640.2	446.6
57.5°	1011.8	942.0	886.2	594.9	408.2
60°	922.8	844.3	802.4	565.2	375.1
62.5°	821.6	760.6	744.9	539.0	345.4
65°	725.7	678.6	676.8	514.6	317.5
67.5°	629.7	603.6	610.6	485.0	286.1
70°	537.3	532.1	537.3	446.6	252.9
72.5°	458.8	453.6	467.5	397.7	216.3
75°	385.5	380.3	396.0	341.9	184.9
77.5°	307.0	310.5	321.0	284.3	155.3
80°	239.0	239.0	251.2	223.3	127.3
82.5°	171.0	172.7	179.7	164.0	99.4
85°	104.7	104.7	109.9	108.2	69.8
87.5°	34.9	40.1	47.1	50.6	34.9
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	16.69	18.04	17.06	18.36	18.67	13.02	14.38	13.39	14.69	15.00
	3H	18.43	19.64	18.81	19.97	20.33	15.00	16.21	15.38	16.54	16.90
	4H	19.10	20.23	19.50	20.58	20.96	15.70	16.83	16.11	17.18	17.56
	6H	19.61	20.65	20.02	21.02	21.41	16.23	17.26	16.64	17.63	18.03
	8H	19.78	20.76	20.21	21.15	21.56	16.41	17.40	16.84	17.79	18.19
	12H	19.89	20.83	20.32	21.21	21.64	16.55	17.49	16.98	17.88	18.31
4H	2H	17.22	18.35	17.62	18.70	19.08	14.64	15.77	15.05	16.12	16.51
	3H	19.20	20.13	19.61	20.53	20.93	16.82	17.75	17.24	18.16	18.56
	4H	20.00	20.84	20.43	21.25	21.70	17.70	18.54	18.14	18.96	19.40
	6H	20.64	21.37	21.11	21.81	22.28	18.35	19.07	18.81	19.52	19.98
	8H	20.86	21.54	21.33	21.99	22.46	18.55	19.23	19.02	19.68	20.15
	12H	21.02	21.62	21.50	22.10	22.57	18.71	19.31	19.20	19.79	20.27
8H	4H	20.28	20.96	20.75	21.41	21.88	18.35	19.03	18.82	19.47	19.94
	6H	21.07	21.62	21.57	22.12	22.60	19.21	19.77	19.71	20.26	20.74
	8H	21.37	21.87	21.89	22.38	22.87	19.54	20.04	20.06	20.55	21.04
	12H	21.60	22.05	22.12	22.54	23.11	19.80	20.24	20.32	20.74	21.31
12H	4H	20.30	20.90	20.79	21.38	21.86	18.42	19.02	18.91	19.51	19.98
	6H	21.12	21.62	21.64	22.13	22.62	19.35	19.85	19.87	20.36	20.85
	8H	21.48	21.93	22.00	22.42	22.99	19.76	20.20	20.28	20.70	21.27