

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: P895010

Luminaire Tested: 8TMB-4SL-LVR-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895010
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-4SL-LVR-UNV-L935
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

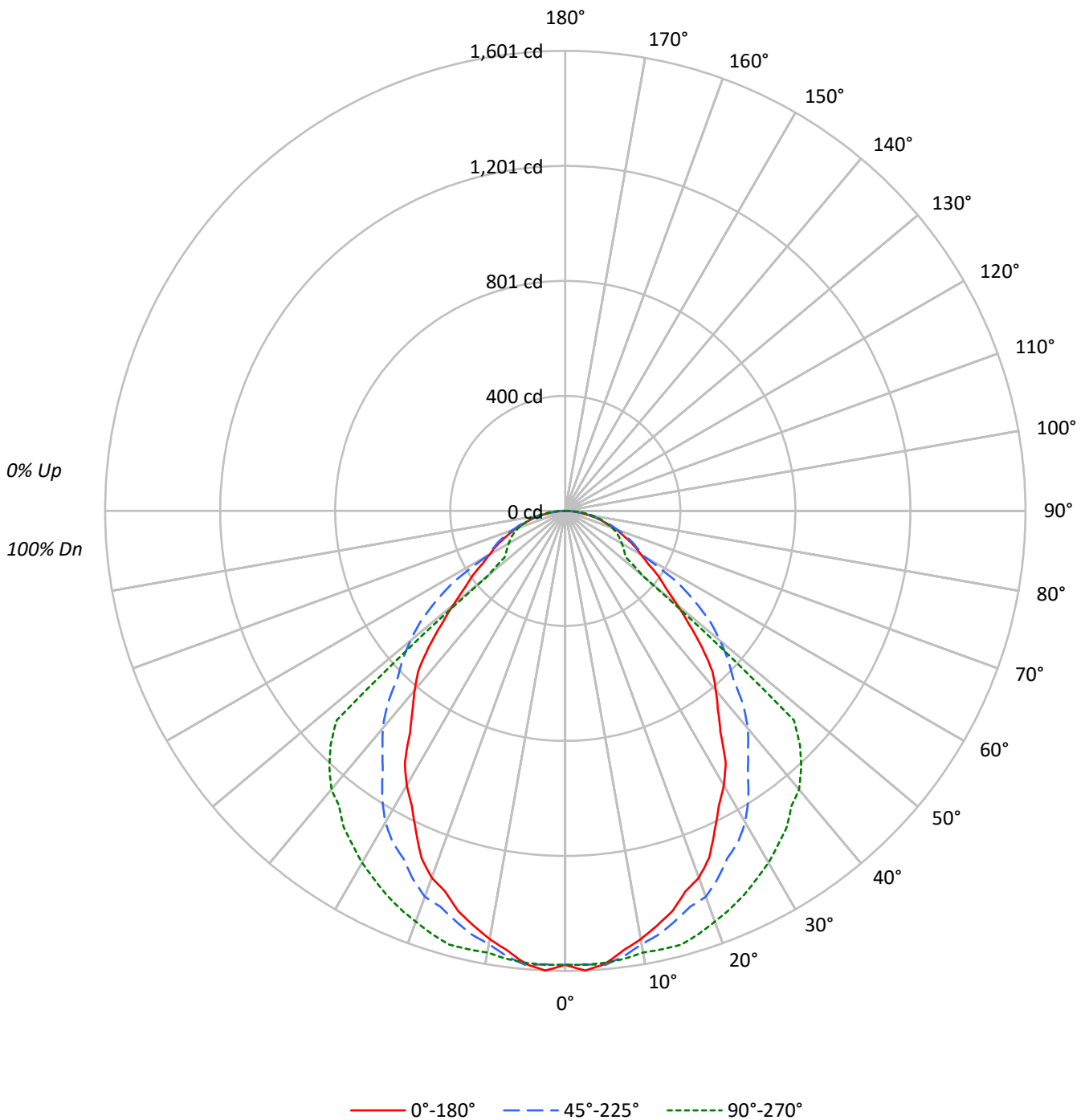
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3372.0 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.33 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 27.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4.5
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°	5606	5606	5606
5°	5636	5651	5622
10°	5452	5516	5623
15°	5294	5428	5739
20°	5128	5396	5744
25°	4812	5223	5769
30°	4520	5128	5793
35°	4076	4796	5820
40°	3775	4575	5861
45°	3377	4147	5795
50°	2802	3884	1947
55°	2441	3410	1558
60°	2159	2222	1615
65°	2053	2161	1714
70°	1925	2043	1808
75°	1792	1925	1859
80°	1633	1814	1945
85°	1445	1543	2101

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5795 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	4.4
10°-20°	421.6	12.5
20°-30°	620.2	18.4
30°-40°	709.3	21.0
40°-50°	671.6	19.9
50°-60°	370.0	11.0
60°-70°	237.6	7.0
70°-80°	146.6	4.3
80°-90°	45.1	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°	1191.7	35.3
0°-40°	1901.0	56.4
0°-60°	2942.7	87.3
0°-90°	3372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1582	1596	1587	1587	1578	148
15°	1441	1459	1478	1555	1562	405
25°	1229	1284	1334	1421	1474	566
35°	941	1022	1107	1268	1344	595
45°	673	737	826	1060	1155	515
55°	395	414	551	284	252	353
65°	244	253	257	229	204	242
75°	131	133	140	148	136	139
85°	36	36	38	44	52	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1580.1	1580.1	1580.1	1580.1	1580.1
2.5°	1601.1	1605.1	1579.3	1578.5	1580.9
5°	1582.5	1595.5	1586.6	1586.6	1578.5
7.5°	1543.0	1564.8	1562.4	1580.9	1572.1
10°	1513.1	1530.9	1530.9	1579.3	1560.8
12.5°	1477.6	1497.8	1509.1	1559.9	1562.4
15°	1441.3	1459.1	1477.6	1555.1	1562.4
17.5°	1388.9	1421.1	1444.5	1520.4	1543.8
20°	1358.2	1377.6	1429.2	1490.5	1521.2
22.5°	1307.4	1335.6	1385.6	1454.2	1499.4
25°	1229.1	1284.0	1334.0	1421.1	1473.6
27.5°	1156.4	1197.6	1300.9	1392.9	1442.9
30°	1103.2	1135.5	1251.7	1351.7	1413.9
32.5°	1038.6	1091.1	1185.5	1311.4	1377.6
35°	941.0	1021.7	1107.2	1267.8	1343.7
37.5°	872.4	928.1	1044.3	1222.6	1292.8
40°	815.1	865.9	987.8	1166.1	1265.4
42.5°	757.8	798.9	916.8	1124.2	1214.5
45°	673.0	736.8	826.4	1060.4	1154.8
47.5°	584.3	652.1	767.5	1006.3	1079.0
50°	507.6	561.7	703.7	899.0	352.7
52.5°	440.6	490.7	635.9	325.2	266.3
55°	394.6	414.0	551.2	284.1	251.8
57.5°	339.8	371.2	462.4	270.3	238.9
60°	304.2	318.0	313.1	256.6	227.6
62.5°	276.0	285.7	284.1	242.9	214.7
65°	244.5	252.6	257.4	229.2	204.2
67.5°	213.1	220.3	227.6	212.2	189.6
70°	185.6	190.5	196.9	192.1	174.3
72.5°	157.4	163.0	167.1	171.1	154.1
75°	130.7	133.2	140.4	147.7	135.6
77.5°	106.5	108.9	113.8	121.9	115.4
80°	79.9	82.3	88.8	95.2	95.2
82.5°	56.5	58.1	62.1	71.0	75.1
85°	35.5	35.5	37.9	43.6	51.6
87.5°	13.7	13.7	16.1	19.4	25.8
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	13.94	15.42	14.30	15.74	16.05	11.74	13.22	12.11	13.54	13.85
	3H	15.47	16.79	15.84	17.12	17.48	14.07	15.40	14.45	15.73	16.09
	4H	16.06	17.30	16.46	17.65	18.03	15.02	16.26	15.42	16.61	16.99
	6H	16.51	17.66	16.93	18.03	18.42	15.81	16.95	16.22	17.32	17.71
	8H	16.66	17.75	17.09	18.14	18.54	16.12	17.21	16.55	17.60	18.00
	12H	16.76	17.80	17.19	18.18	18.61	16.37	17.41	16.80	17.79	18.22
4H	2H	14.49	15.73	14.89	16.08	16.46	12.85	14.09	13.25	14.44	14.82
	3H	16.26	17.29	16.67	17.69	18.09	15.29	16.32	15.70	16.72	17.12
	4H	16.98	17.91	17.42	18.32	18.76	16.36	17.28	16.79	17.70	18.14
	6H	17.57	18.37	18.03	18.82	19.28	17.25	18.05	17.70	18.49	18.96
	8H	17.76	18.51	18.22	18.95	19.42	17.60	18.35	18.06	18.79	19.26
	12H	17.89	18.57	18.38	19.05	19.52	17.89	18.56	18.37	19.04	19.51
8H	4H	17.29	18.04	17.75	18.49	18.96	16.74	17.50	17.21	17.94	18.41
	6H	18.00	18.62	18.50	19.12	19.59	17.78	18.40	18.28	18.90	19.37
	8H	18.26	18.82	18.78	19.33	19.82	18.23	18.79	18.74	19.30	19.79
	12H	18.47	18.97	18.98	19.46	20.03	18.61	19.11	19.12	19.60	20.17
12H	4H	17.33	18.00	17.81	18.48	18.95	16.78	17.45	17.26	17.93	18.40
	6H	18.07	18.63	18.58	19.14	19.63	17.84	18.41	18.36	18.92	19.41
	8H	18.38	18.88	18.89	19.38	19.94	18.35	18.85	18.86	19.34	19.91