

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: P894412

Luminaire Tested: 8TMB-10SL-LVRA-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894412
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-10SL-LVRA-UNV-L950
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

Summary

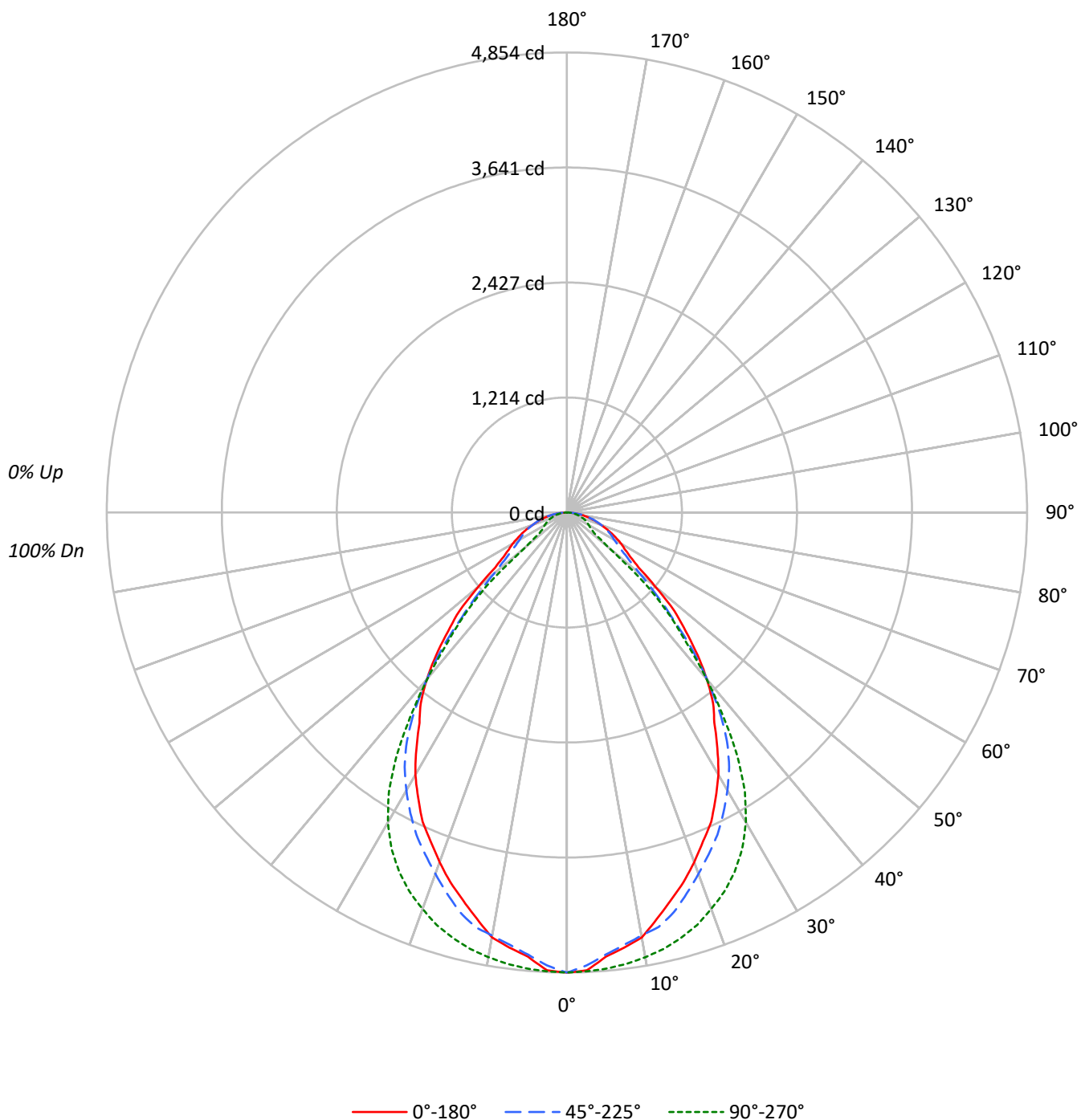
Lumens per Lamp: N/A
Luminaire Lumens: 7878.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 5.63
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	91	86	101	95	90	85	91	87	83		88	85	82		85
3	96	87	80	75	94	86	80	75	83	78	73		80	76	72		78
4	89	79	72	66	87	78	71	66	76	70	65		73	68	64		71
5	83	72	65	59	81	71	64	59	69	63	58		67	62	58		66
6	78	66	59	53	76	65	58	53	64	57	53		62	57	52		61
7	73	61	54	48	71	60	53	48	59	52	48		58	52	47		56
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52
9	64	52	45	40	63	52	45	40	51	44	40		50	44	40		49
10	61	49	42	37	60	48	42	37	47	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17223	17223	17223
5°	16758	16683	17204
10°	16402	16330	17164
15°	15556	16034	17068
20°	14819	15319	16807
25°	14096	14698	16378
30°	13096	13875	15464
35°	11743	12751	13564
40°	10639	10662	10604
45°	8895	7878	7684
50°	6719	5545	3142
55°	5053	4435	1981
60°	4696	4084	1909
65°	4369	4075	1912
70°	3997	3997	1882
75°	3791	3893	1818
80°	3502	3682	1866
85°	3057	3208	2036

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9102 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.4	5.7
10°-20°	1235.5	15.7
20°-30°	1751.9	22.2
30°-40°	1804.9	22.9
40°-50°	1260.6	16.0
50°-60°	604.9	7.7
60°-70°	424.4	5.4
70°-80°	265.3	3.4
80°-90°	82.1	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°	3435.8	43.6
0°-40°	5240.7	66.5
0°-60°	7106.2	90.2
0°-90°	7878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4854	4854	4854	4854	4854	
5°	4705	4699	4684	4806	4830	445
15°	4235	4266	4365	4490	4646	1192
25°	3600	3637	3754	4008	4184	1646
35°	2711	2785	2944	3005	3131	1708
45°	1773	1814	1570	1490	1531	1366
55°	817	777	717	459	320	766
65°	520	487	485	369	228	516
75°	276	273	284	245	133	291
85°	75	75	79	78	50	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4854.1	4854.1	4854.1	4854.1	4854.1
2.5°	4835.3	4820.3	4784.0	4850.3	4845.3
5°	4705.2	4699.0	4683.9	4806.5	4830.3
7.5°	4631.4	4618.9	4601.4	4736.5	4802.8
10°	4552.6	4567.6	4532.6	4656.4	4764.0
12.5°	4389.9	4430.0	4477.5	4573.9	4716.5
15°	4234.8	4266.1	4364.9	4490.0	4646.4
17.5°	4089.7	4126.0	4211.0	4398.7	4565.1
20°	3924.6	3974.6	4057.2	4297.4	4451.2
22.5°	3754.4	3800.7	3904.5	4162.3	4333.7
25°	3600.5	3636.8	3754.4	4008.4	4183.5
27.5°	3396.6	3464.2	3575.5	3820.7	4004.6
30°	3196.4	3254.0	3386.6	3593.0	3774.4
32.5°	2955.0	3038.8	3185.2	3342.8	3494.2
35°	2711.0	2784.8	2943.7	3005.0	3131.4
37.5°	2533.4	2553.4	2643.5	2636.0	2707.3
40°	2296.9	2337.0	2301.9	2208.1	2289.4
42.5°	2041.7	2089.3	1947.9	1839.0	1867.8
45°	1772.7	1814.0	1570.1	1490.0	1531.3
47.5°	1540.0	1536.3	1266.1	1212.3	1154.7
50°	1217.3	1257.3	1004.6	904.5	569.2
52.5°	950.8	965.8	828.2	578.0	374.1
55°	816.9	776.9	716.9	459.1	320.3
57.5°	725.6	675.6	635.5	426.6	292.7
60°	661.8	605.5	575.5	405.3	269.0
62.5°	589.2	545.5	534.2	386.6	247.7
65°	520.4	486.7	485.4	369.1	227.7
67.5°	451.6	432.9	437.9	347.8	205.2
70°	385.3	381.6	385.3	320.3	181.4
72.5°	329.0	325.3	335.3	285.2	155.1
75°	276.5	272.7	284.0	245.2	132.6
77.5°	220.2	222.7	230.2	203.9	111.3
80°	171.4	171.4	180.2	160.1	91.3
82.5°	122.6	123.9	128.9	117.6	71.3
85°	75.1	75.1	78.8	77.6	50.0
87.5°	25.0	28.8	33.8	36.3	25.0
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	15.54	16.89	15.90	17.20	17.52	11.87	13.22	12.23	13.53	13.85
	3H	17.27	18.48	17.65	18.81	19.17	13.84	15.05	14.22	15.38	15.74
	4H	17.95	19.07	18.35	19.42	19.81	14.55	15.68	14.95	16.03	16.41
	6H	18.45	19.49	18.87	19.86	20.25	15.07	16.11	15.49	16.48	16.87
	8H	18.62	19.61	19.05	20.00	20.40	15.26	16.24	15.69	16.63	17.04
	12H	18.73	19.68	19.17	20.06	20.49	15.40	16.34	15.83	16.72	17.15
4H	2H	16.07	17.19	16.47	17.54	17.93	13.49	14.62	13.89	14.97	15.35
	3H	18.04	18.97	18.46	19.38	19.78	15.67	16.60	16.08	17.00	17.40
	4H	18.85	19.68	19.28	20.10	20.54	16.55	17.38	16.98	17.80	18.24
	6H	19.49	20.21	19.95	20.66	21.12	17.19	17.91	17.65	18.36	18.82
	8H	19.71	20.39	20.18	20.83	21.30	17.40	18.08	17.87	18.52	18.99
	12H	19.86	20.46	20.35	20.94	21.42	17.56	18.16	18.04	18.64	19.11
8H	4H	19.13	19.81	19.60	20.25	20.72	17.20	17.87	17.66	18.32	18.79
	6H	19.91	20.47	20.41	20.96	21.44	18.06	18.61	18.56	19.11	19.59
	8H	20.21	20.71	20.73	21.23	21.72	18.39	18.88	18.91	19.40	19.89
	12H	20.45	20.89	20.96	21.38	21.95	18.65	19.09	19.16	19.58	20.15
12H	4H	19.15	19.75	19.63	20.23	20.70	17.27	17.87	17.75	18.35	18.82
	6H	19.97	20.46	20.48	20.98	21.47	18.19	18.69	18.71	19.21	19.70
	8H	20.33	20.77	20.84	21.26	21.83	18.61	19.05	19.12	19.54	20.11