

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: P895241

Luminaire Tested: 8TMB-8SL-LVRA-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895241
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-8SL-LVRA-UNV-L930
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

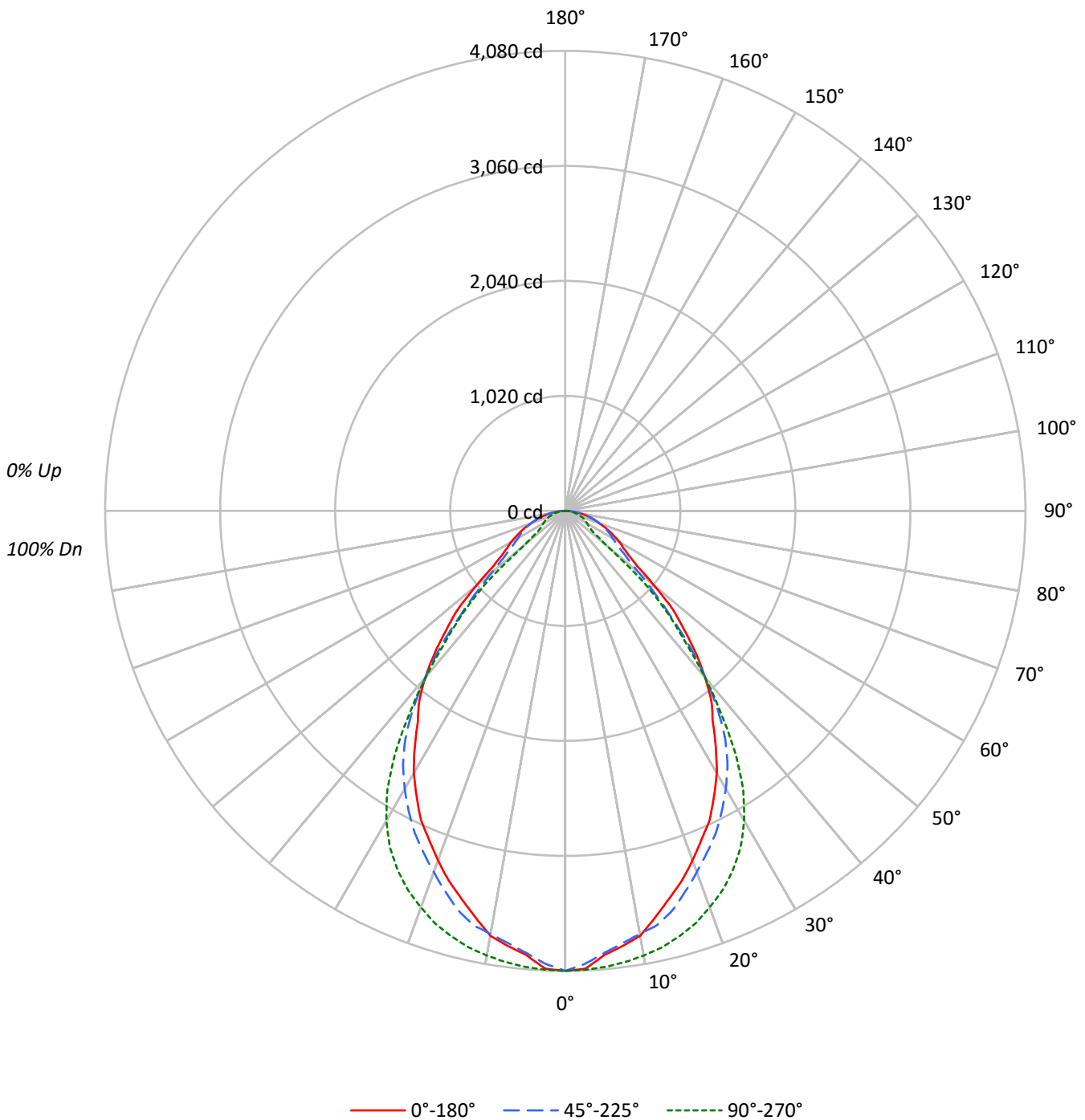
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6621.0 lumens
Efficiency: N/A
Efficacy: 111.1 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): 59.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 3.8
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P895241
CATALOG NUMBER: 8TMB-8SL-LVRA-UNV-L930

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14475	14475	14475
5°	14085	14021	14459
10°	13785	13725	14426
15°	13074	13476	14344
20°	12454	12875	14125
25°	11847	12353	13765
30°	11006	11661	12997
35°	9869	10716	11399
40°	8941	8961	8912
45°	7476	6622	6458
50°	5647	4660	2641
55°	4247	3727	1665
60°	3947	3432	1604
65°	3672	3425	1607
70°	3359	3359	1582
75°	3186	3272	1529
80°	2942	3094	1569
85°	2569	2695	1714

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7650 cd/sqm



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 CATALOG NUMBER: 8TMB-8SL-LVRA-UNV-L930

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.8	5.7
10°-20°	1038.3	15.7
20°-30°	1472.4	22.2
30°-40°	1516.9	22.9
40°-50°	1059.5	16.0
50°-60°	508.4	7.7
60°-70°	356.7	5.4
70°-80°	223.0	3.4
80°-90°	69.0	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°	2887.6	43.6
0°-40°	4404.5	66.5
0°-60°	5972.4	90.2
0°-90°	6621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4080	4080	4080	4080	4080	
5°	3954	3949	3937	4040	4060	374
15°	3559	3585	3668	3774	3905	1002
25°	3026	3056	3155	3369	3516	1384
35°	2278	2340	2474	2526	2632	1436
45°	1490	1525	1320	1252	1287	1148
55°	687	653	602	386	269	643
65°	437	409	408	310	191	433
75°	232	229	239	206	112	245
85°	63	63	66	65	42	70
90°	0	0	0	0	0	



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CATALOG NUMBER: 8TMB-8SL-LVRA-UNV-L930

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4079.6	4079.6	4079.6	4079.6	4079.6
2.5°	4063.8	4051.2	4020.7	4076.4	4072.2
5°	3954.5	3949.2	3936.6	4039.6	4059.6
7.5°	3892.4	3881.9	3867.2	3980.7	4036.5
10°	3826.2	3838.8	3809.4	3913.5	4003.9
12.5°	3689.5	3723.1	3763.1	3844.1	3963.9
15°	3559.1	3585.4	3668.5	3773.6	3905.0
17.5°	3437.2	3467.6	3539.1	3696.9	3836.7
20°	3298.4	3340.4	3409.8	3611.7	3741.0
22.5°	3155.4	3194.3	3281.5	3498.1	3642.2
25°	3026.0	3056.5	3155.4	3368.8	3516.0
27.5°	2854.7	2911.4	3005.0	3211.1	3365.7
30°	2686.4	2734.8	2846.2	3019.7	3172.2
32.5°	2483.5	2553.9	2677.0	2809.4	2936.7
35°	2278.5	2340.5	2474.0	2525.6	2631.7
37.5°	2129.2	2146.0	2221.7	2215.4	2275.3
40°	1930.4	1964.1	1934.6	1855.8	1924.1
42.5°	1715.9	1755.9	1637.1	1545.6	1569.8
45°	1489.9	1524.6	1319.6	1252.3	1287.0
47.5°	1294.3	1291.2	1064.1	1018.8	970.5
50°	1023.0	1056.7	844.3	760.2	478.4
52.5°	799.1	811.7	696.1	485.8	314.4
55°	686.6	652.9	602.5	385.9	269.2
57.5°	609.8	567.8	534.1	358.5	246.0
60°	556.2	508.9	483.7	340.7	226.1
62.5°	495.2	458.4	449.0	324.9	208.2
65°	437.4	409.0	408.0	310.2	191.4
67.5°	379.6	363.8	368.0	292.3	172.4
70°	323.8	320.7	323.8	269.2	152.5
72.5°	276.5	273.4	281.8	239.7	130.4
75°	232.4	229.2	238.7	206.1	111.5
77.5°	185.1	187.2	193.5	171.4	93.6
80°	144.0	144.0	151.4	134.6	76.8
82.5°	103.0	104.1	108.3	98.8	59.9
85°	63.1	63.1	66.2	65.2	42.1
87.5°	21.0	24.2	28.4	30.5	21.0
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	14.93	16.29	15.30	16.60	16.91	11.26	12.62	11.63	12.93	13.24
	3H	16.67	17.88	17.05	18.21	18.57	13.24	14.45	13.62	14.78	15.14
	4H	17.34	18.47	17.74	18.82	19.20	13.94	15.07	14.35	15.42	15.80
	6H	17.85	18.89	18.26	19.26	19.65	14.47	15.51	14.88	15.88	16.27
	8H	18.02	19.01	18.45	19.40	19.80	14.65	15.64	15.08	16.03	16.43
	12H	18.13	19.07	18.56	19.45	19.88	14.79	15.73	15.22	16.12	16.55
4H	2H	15.46	16.59	15.86	16.94	17.32	12.89	14.01	13.29	14.36	14.75
	3H	17.44	18.37	17.85	18.77	19.18	15.06	15.99	15.48	16.40	16.80
	4H	18.24	19.08	18.68	19.50	19.94	15.94	16.78	16.38	17.20	17.64
	6H	18.88	19.61	19.35	20.05	20.52	16.59	17.31	17.05	17.76	18.22
	8H	19.10	19.78	19.57	20.23	20.70	16.80	17.47	17.26	17.92	18.39
	12H	19.26	19.86	19.74	20.34	20.81	16.95	17.55	17.44	18.04	18.51
8H	4H	18.53	19.20	18.99	19.65	20.12	16.59	17.27	17.06	17.72	18.19
	6H	19.31	19.86	19.81	20.36	20.84	17.45	18.01	17.96	18.51	18.99
	8H	19.61	20.11	20.13	20.62	21.11	17.78	18.28	18.30	18.79	19.29
	12H	19.85	20.29	20.36	20.78	21.35	18.05	18.49	18.56	18.98	19.55
12H	4H	18.54	19.14	19.03	19.62	20.10	16.67	17.27	17.15	17.75	18.22
	6H	19.36	19.86	19.88	20.37	20.87	17.59	18.09	18.11	18.60	19.10
	8H	19.73	20.17	20.24	20.66	21.23	18.00	18.45	18.52	18.94	19.51