

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: P895253

Luminaire Tested: 8TMB-8SL-RFLW-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-8SL-RFLW-UNV-L830
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3000K
Light Source: -
Ballast/Driver: -

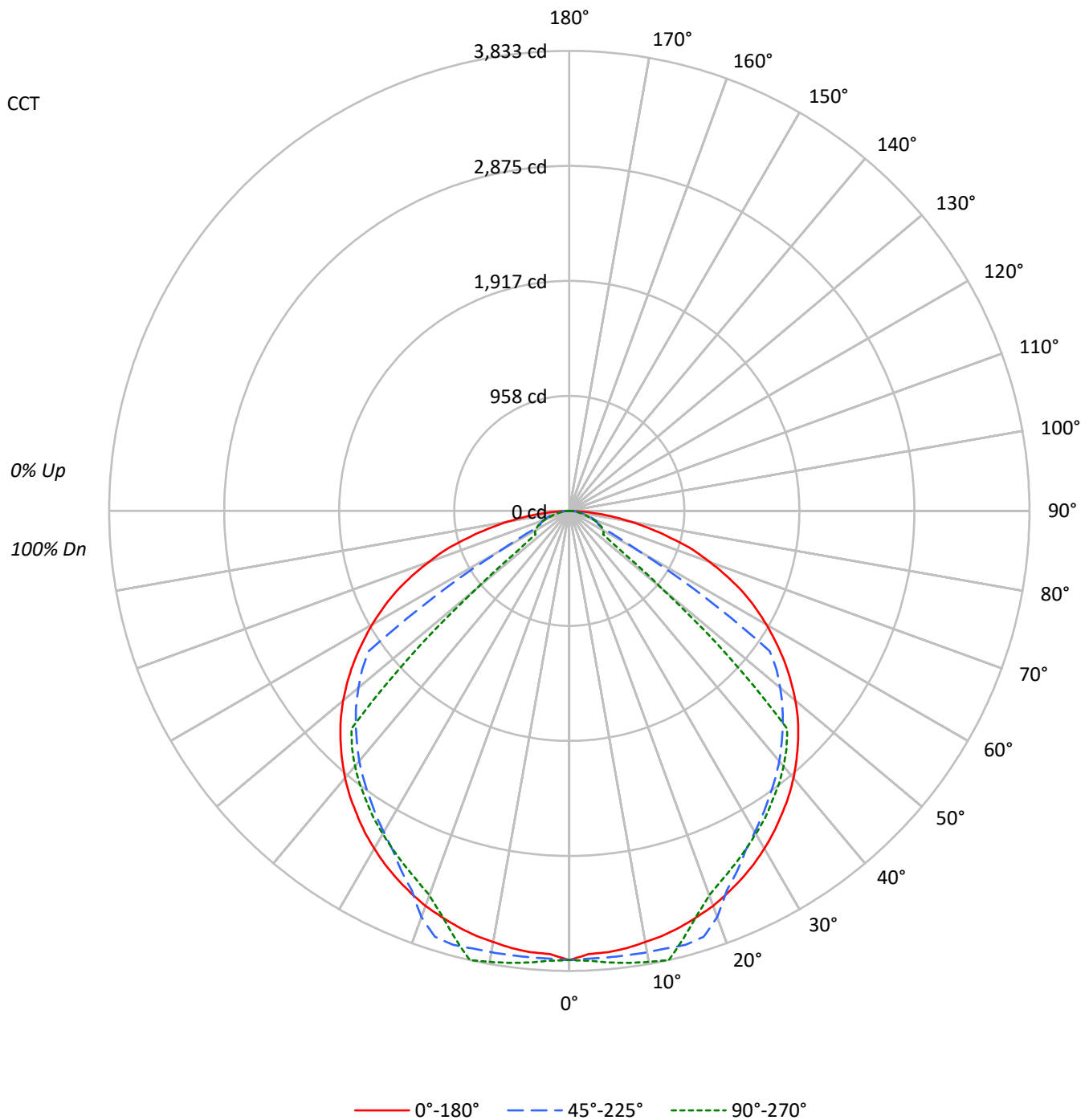
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9128.0 lumens
Efficiency: N/A
Efficacy: 153.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38
Luminous Opening: Rectangular (W 0.21' 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: P895253
CATALOG NUMBER: 8TMB-8SL-RFLW-UNV-L830

Luminous Intensity Polar Plot





TEST NUMBER: P895253
 CATALOG NUMBER: 8TMB-8SL-RFLW-UNV-L830

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	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	77	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	58	58	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	51	51	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	45	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	40	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	36	36	36	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	33	33	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24234	24234	24234
5°	23992	24272	24551
10°	23988	24552	25088
15°	24054	25089	24687
20°	24134	24814	23483
25°	24195	23643	23244
30°	24293	23106	23234
35°	24394	22969	23308
40°	24561	23002	23473
45°	24683	23032	23504
50°	24775	23089	10161
55°	24712	23016	3877
60°	24568	8782	4225
65°	24398	4077	4341
70°	23566	4389	4063
75°	22012	4188	3543
80°	19365	3681	3039
85°	15305	3187	2548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 24775 cd/sqm



TEST NUMBER: P895253
 CATALOG NUMBER: 8TMB-8SL-RFLW-UNV-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.4	3.9
10°-20°	1037.8	11.4
20°-30°	1548.5	17.0
30°-40°	1876.9	20.6
40°-50°	1921.9	21.1
50°-60°	1278.1	14.0
60°-70°	728.5	8.0
70°-80°	306.0	3.4
80°-90°	73.0	0.8
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°	2943.7	32.2
0°-40°	4820.6	52.8
0°-60°	8020.5	87.9
0°-90°	9128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3742	3742	3742	3742	3742	
5°	3691	3764	3734	3742	3777	351
15°	3588	3687	3742	3730	3682	1013
25°	3386	3549	3309	3236	3253	1562
35°	3086	3142	2906	2918	2948	1933
45°	2695	2532	2515	2545	2567	2079
55°	2189	2004	2039	446	343	1955
65°	1592	1425	266	283	283	1567
75°	880	185	167	146	142	934
85°	206	52	43	34	34	247
90°	0	0	0	0	0	



TEST NUMBER: P895253

CATALOG NUMBER: 8TMB-8SL-RFLW-UNV-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3742.5	3742.5	3742.5	3742.5	3742.5
2.5°	3695.3	3772.6	3734.0	3738.3	3751.1
5°	3691.0	3764.0	3734.0	3742.5	3776.9
7.5°	3673.9	3751.1	3734.0	3759.7	3798.3
10°	3648.1	3738.3	3734.0	3776.9	3815.5
12.5°	3622.4	3712.5	3734.0	3798.3	3832.7
15°	3588.0	3686.8	3742.5	3729.7	3682.5
17.5°	3545.1	3661.0	3721.1	3536.5	3532.2
20°	3502.2	3626.7	3600.9	3424.9	3407.8
22.5°	3446.4	3592.3	3424.9	3304.8	3326.2
25°	3386.3	3549.4	3309.1	3236.1	3253.3
27.5°	3321.9	3506.5	3184.6	3158.8	3180.3
30°	3249.0	3446.4	3090.2	3081.6	3107.3
32.5°	3171.7	3330.5	3000.0	3004.3	3034.4
35°	3085.9	3141.7	2905.6	2918.5	2948.5
37.5°	3000.0	2965.7	2815.5	2837.0	2867.0
40°	2905.6	2828.4	2721.1	2742.5	2776.9
42.5°	2802.6	2682.4	2618.1	2648.1	2678.2
45°	2695.3	2532.2	2515.1	2545.1	2566.6
47.5°	2583.7	2403.5	2407.8	2429.2	1819.8
50°	2459.3	2274.7	2291.9	1588.0	1008.6
52.5°	2326.2	2141.7	2176.0	884.1	510.7
55°	2188.9	2004.3	2038.7	446.4	343.4
57.5°	2043.0	1867.0	1330.5	321.9	339.1
60°	1897.0	1721.1	678.1	317.6	326.2
62.5°	1746.8	1575.1	321.9	304.7	309.0
65°	1592.3	1424.9	266.1	283.3	283.3
67.5°	1420.6	1266.1	253.2	253.2	248.9
70°	1244.7	1051.5	231.8	218.9	214.6
72.5°	1081.6	403.4	201.7	180.3	176.0
75°	879.8	184.6	167.4	145.9	141.6
77.5°	699.6	154.5	133.0	115.9	111.6
80°	519.3	120.2	98.7	85.8	81.5
82.5°	360.5	81.5	68.7	55.8	55.8
85°	206.0	51.5	42.9	34.3	34.3
87.5°	81.5	25.8	21.5	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P895253
 CATALOG NUMBER: 8TMB-8SL-RFLW-UNV-L830

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	24.00	25.52	24.37	25.84	26.15	11.77	13.29	12.13	13.60	13.92
	3H	26.02	27.38	26.40	27.71	28.07	14.08	15.44	14.46	15.77	16.13
	4H	26.48	27.76	26.88	28.10	28.48	14.79	16.07	15.19	16.42	16.79
	6H	26.89	28.06	27.30	28.43	28.82	15.28	16.45	15.69	16.82	17.21
	8H	27.04	28.16	27.47	28.54	28.95	15.42	16.53	15.84	16.92	17.32
	12H	27.14	28.21	27.57	28.59	29.02	15.50	16.57	15.93	16.95	17.38
4H	2H	23.84	25.11	24.24	25.46	25.84	12.57	13.84	12.97	14.19	14.56
	3H	26.05	27.09	26.46	27.49	27.89	15.08	16.12	15.49	16.52	16.92
	4H	26.49	27.43	26.93	27.85	28.29	15.90	16.84	16.33	17.25	17.69
	6H	26.96	27.77	27.42	28.22	28.68	16.49	17.30	16.95	17.75	18.21
	8H	27.15	27.91	27.61	28.36	28.82	16.66	17.42	17.12	17.86	18.33
	12H	27.30	27.98	27.79	28.46	28.93	16.78	17.45	17.26	17.93	18.40
8H	4H	26.41	27.17	26.88	27.62	28.09	16.73	17.50	17.20	17.94	18.41
	6H	26.87	27.50	27.37	27.99	28.47	17.36	17.99	17.85	18.48	18.96
	8H	27.07	27.64	27.59	28.15	28.64	17.56	18.12	18.07	18.63	19.12
	12H	27.26	27.76	27.77	28.25	28.81	17.71	18.22	18.22	18.71	19.27
12H	4H	26.38	27.06	26.86	27.54	28.01	16.81	17.48	17.29	17.96	18.44
	6H	26.82	27.39	27.34	27.90	28.39	17.45	18.02	17.96	18.53	19.01
	8H	27.05	27.55	27.56	28.04	28.61	17.70	18.20	18.21	18.70	19.26