

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: P895483

Luminaire Tested: 8TMB-SC3-RFLW-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895483
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-SC3-RFLW-UNV-CC83-MID-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 5000K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

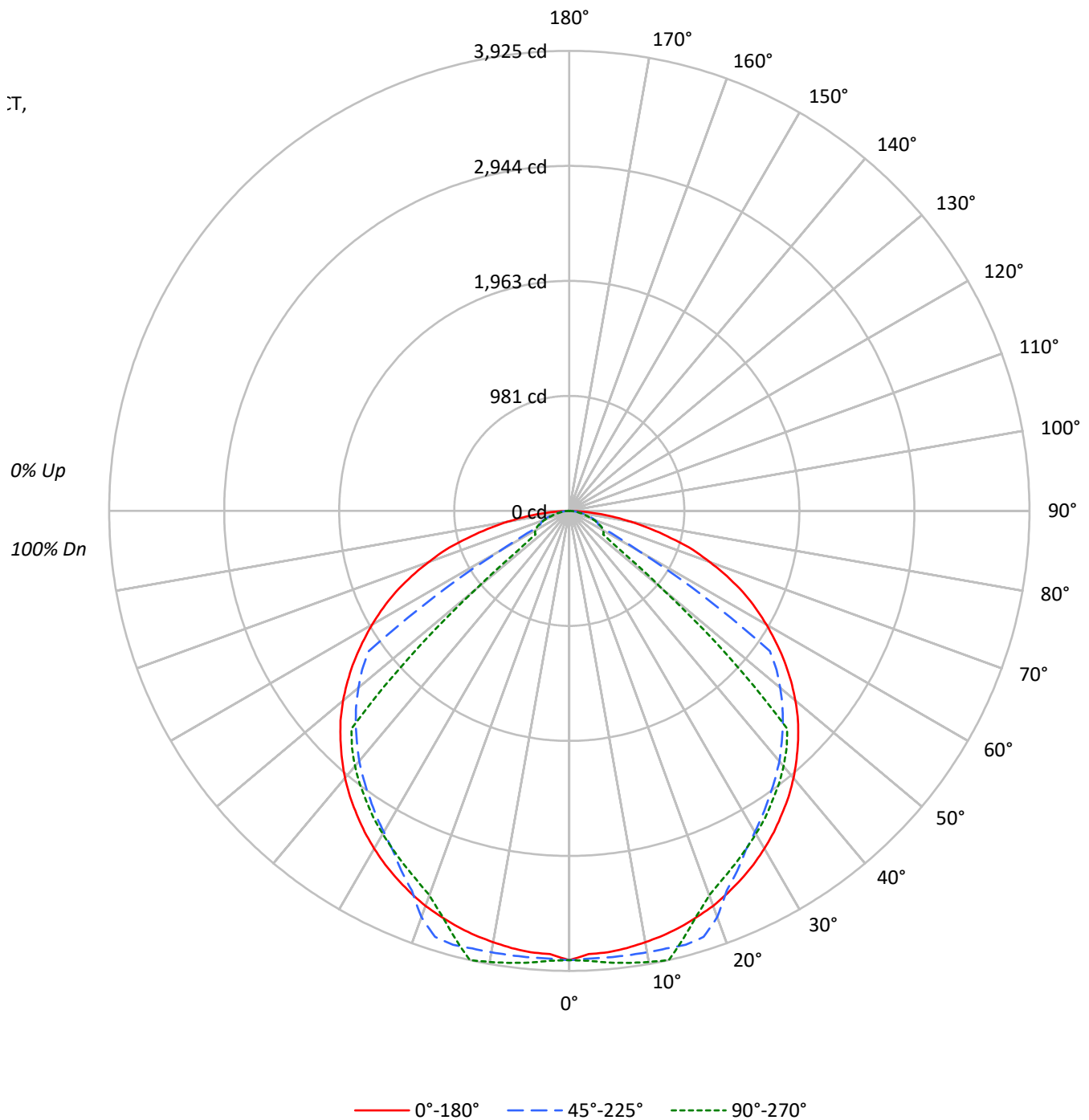
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9348.0 lumens
Efficiency: N/A
Efficacy: 139.7 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): 66.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	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	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	58	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	51	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	36	36	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	33	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24819	24819	24819
5°	24571	24857	25142
10°	24566	25144	25693
15°	24633	25695	25282
20°	24715	25412	24049
25°	24778	24213	23805
30°	24879	23663	23794
35°	24982	23523	23870
40°	25154	23556	24039
45°	25278	23587	24070
50°	25371	23645	10405
55°	25307	23570	3969
60°	25160	8994	4326
65°	24986	4175	4445
70°	24134	4493	4161
75°	22542	4288	3628
80°	19831	3770	3114
85°	15677	3269	2615

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 25371 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.0	3.9
10°-20°	1062.8	11.4
20°-30°	1585.8	17.0
30°-40°	1922.2	20.6
40°-50°	1968.2	21.1
50°-60°	1308.9	14.0
60°-70°	746.0	8.0
70°-80°	313.4	3.4
80°-90°	74.7	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°	3014.7	32.2
0°-40°	4936.8	52.8
0°-60°	8213.9	87.9
0°-90°	9348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9348.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3833	3833	3833	3833	3833	
5°	3780	3855	3824	3833	3868	359
15°	3674	3776	3833	3820	3771	1038
25°	3468	3635	3389	3314	3332	1600
35°	3160	3217	2976	2989	3020	1980
45°	2760	2593	2576	2606	2628	2130
55°	2242	2053	2088	457	352	2002
65°	1631	1459	272	290	290	1605
75°	901	189	171	149	145	957
85°	211	53	44	35	35	253
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3832.8	3832.8	3832.8	3832.8	3832.8
2.5°	3784.4	3863.5	3824.0	3828.4	3841.5
5°	3780.0	3854.7	3824.0	3832.8	3867.9
7.5°	3762.4	3841.5	3824.0	3850.3	3889.9
10°	3736.1	3828.4	3824.0	3867.9	3907.5
12.5°	3709.7	3802.0	3824.0	3889.9	3925.1
15°	3674.5	3775.6	3832.8	3819.6	3771.2
17.5°	3630.6	3749.2	3810.8	3621.8	3617.4
20°	3586.6	3714.1	3687.7	3507.5	3489.9
22.5°	3529.5	3678.9	3507.5	3384.4	3406.4
25°	3467.9	3635.0	3388.8	3314.1	3331.7
27.5°	3402.0	3591.0	3261.4	3235.0	3257.0
30°	3327.3	3529.5	3164.7	3155.9	3182.2
32.5°	3248.2	3410.8	3072.4	3076.8	3107.5
35°	3160.3	3217.4	2975.7	2988.8	3019.6
37.5°	3072.4	3037.2	2883.4	2905.3	2936.1
40°	2975.7	2896.5	2786.7	2808.6	2843.8
42.5°	2870.2	2747.1	2681.2	2711.9	2742.7
45°	2760.3	2593.3	2575.7	2606.4	2628.4
47.5°	2646.0	2461.4	2465.8	2487.8	1863.6
50°	2518.5	2329.5	2347.1	1626.3	1032.9
52.5°	2382.3	2193.3	2228.4	905.4	523.0
55°	2241.6	2052.6	2087.8	457.1	351.6
57.5°	2092.2	1912.0	1362.6	329.7	347.2
60°	1942.7	1762.5	694.5	325.3	334.0
62.5°	1788.9	1613.1	329.7	312.1	316.5
65°	1630.7	1459.3	272.5	290.1	290.1
67.5°	1454.9	1296.6	259.3	259.3	254.9
70°	1274.7	1076.9	237.3	224.2	219.8
72.5°	1107.6	413.2	206.6	184.6	180.2
75°	901.0	189.0	171.4	149.4	145.0
77.5°	716.4	158.2	136.3	118.7	114.3
80°	531.8	123.1	101.1	87.9	83.5
82.5°	369.2	83.5	70.3	57.1	57.1
85°	211.0	52.7	44.0	35.2	35.2
87.5°	83.5	26.4	22.0	13.2	13.2
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	24.08	25.61	24.45	25.92	26.23	11.85	13.37	12.21	13.68	14.00
	3H	26.10	27.46	26.48	27.79	28.15	14.16	15.52	14.54	15.85	16.21
	4H	26.57	27.84	26.97	28.19	28.57	14.88	16.15	15.28	16.50	16.88
	6H	26.97	28.15	27.39	28.51	28.90	15.36	16.53	15.77	16.90	17.29
	8H	27.12	28.24	27.55	28.63	29.03	15.50	16.61	15.93	17.00	17.41
	12H	27.22	28.29	27.65	28.67	29.10	15.59	16.65	16.02	17.03	17.46
4H	2H	23.93	25.20	24.33	25.55	25.92	12.65	13.92	13.05	14.27	14.65
	3H	26.13	27.18	26.54	27.58	27.98	15.16	16.21	15.57	16.61	17.01
	4H	26.58	27.52	27.01	27.93	28.37	15.98	16.92	16.41	17.33	17.77
	6H	27.04	27.86	27.50	28.30	28.76	16.57	17.39	17.03	17.83	18.29
	8H	27.23	27.99	27.70	28.44	28.91	16.74	17.50	17.20	17.95	18.41
	12H	27.39	28.06	27.87	28.54	29.01	16.86	17.54	17.34	18.02	18.49
8H	4H	26.49	27.26	26.96	27.70	28.17	16.82	17.58	17.28	18.02	18.49
	6H	26.95	27.58	27.45	28.07	28.55	17.44	18.07	17.94	18.56	19.04
	8H	27.15	27.72	27.67	28.23	28.72	17.64	18.21	18.16	18.72	19.20
	12H	27.34	27.84	27.85	28.33	28.90	17.80	18.30	18.31	18.79	19.36
12H	4H	26.46	27.14	26.95	27.62	28.09	16.89	17.57	17.37	18.05	18.52
	6H	26.91	27.47	27.42	27.98	28.47	17.53	18.10	18.05	18.61	19.10
	8H	27.13	27.63	27.64	28.12	28.69	17.79	18.29	18.30	18.78	19.35