

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: P895484

Luminaire Tested: 8TMB-SC3-RFLW-UNV-CC93-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895484
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-CC93-HI-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

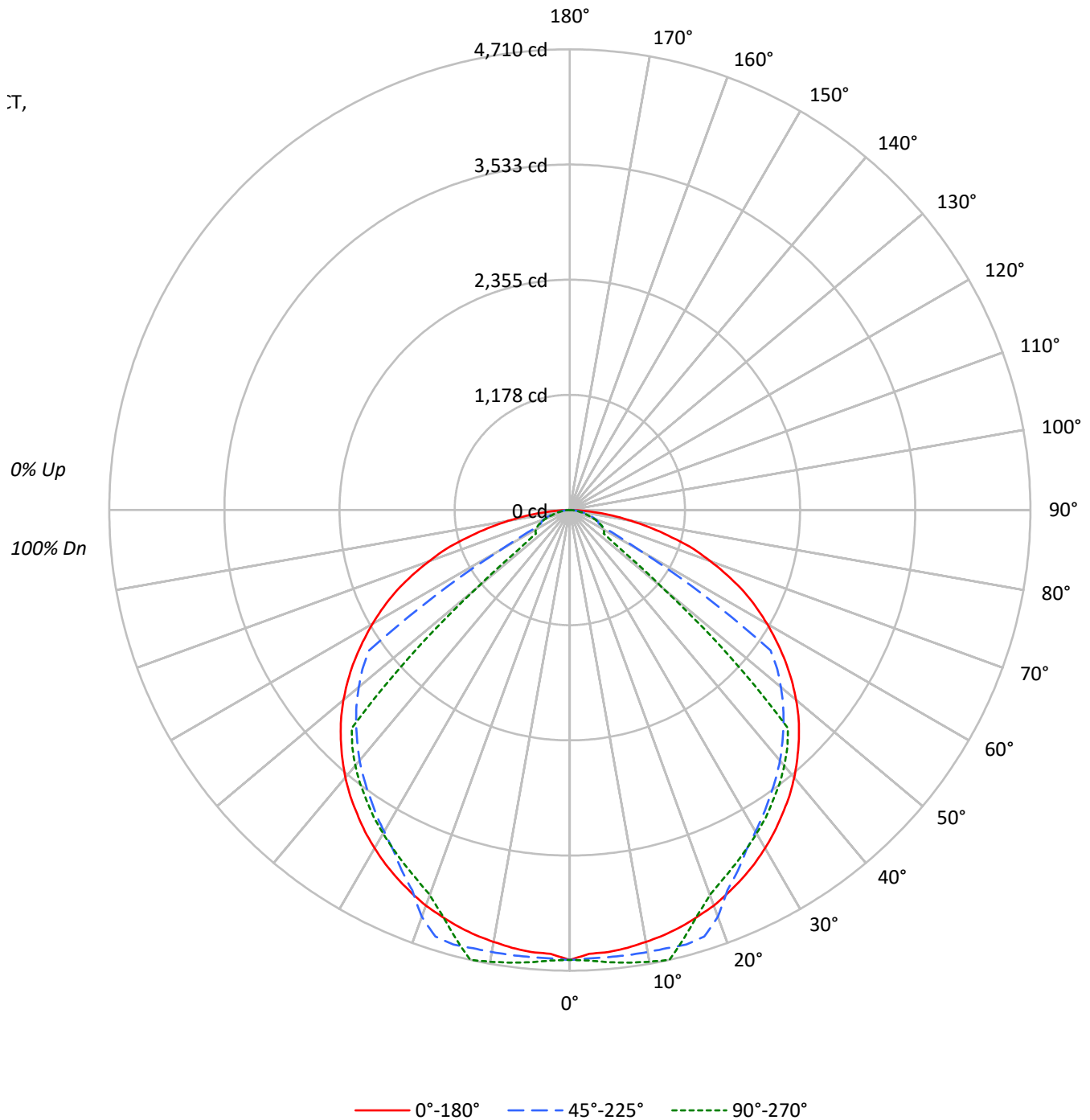
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11217.0 lumens
Efficiency: N/A
Efficacy: 110.6 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): 101.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
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	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°	29781	29781	29781
5°	29484	29826	30169
10°	29477	30171	30830
15°	29559	30832	30336
20°	29657	30493	28858
25°	29732	29054	28564
30°	29853	28394	28552
35°	29977	28226	28642
40°	30183	28265	28845
45°	30332	28303	28882
50°	30445	28372	12486
55°	30367	28283	4763
60°	30191	10792	5191
65°	29981	5010	5334
70°	28958	5392	4993
75°	27051	5146	4353
80°	23799	4523	3737
85°	18812	3915	3135

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 30445 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.2	3.9
10°-20°	1275.3	11.4
20°-30°	1902.9	17.0
30°-40°	2306.5	20.6
40°-50°	2361.7	21.1
50°-60°	1570.6	14.0
60°-70°	895.2	8.0
70°-80°	376.1	3.4
80°-90°	89.7	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°	3617.4	32.2
0°-40°	5923.8	52.8
0°-60°	9856.1	87.9
0°-90°	11217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11217.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4599	4599	4599	4599	4599	
5°	4536	4625	4588	4599	4641	431
15°	4409	4530	4599	4583	4525	1245
25°	4161	4362	4066	3977	3998	1920
35°	3792	3861	3571	3586	3623	2375
45°	3312	3112	3091	3128	3154	2555
55°	2690	2463	2505	548	422	2402
65°	1957	1751	327	348	348	1925
75°	1081	227	206	179	174	1148
85°	253	63	53	42	42	303
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4599.1	4599.1	4599.1	4599.1	4599.1
2.5°	4541.0	4636.0	4588.5	4593.8	4609.6
5°	4535.8	4625.4	4588.5	4599.1	4641.2
7.5°	4514.7	4609.6	4588.5	4620.2	4667.6
10°	4483.0	4593.8	4588.5	4641.2	4688.7
12.5°	4451.4	4562.1	4588.5	4667.6	4709.8
15°	4409.2	4530.5	4599.1	4583.2	4525.2
17.5°	4356.4	4498.8	4572.7	4345.9	4340.6
20°	4303.7	4456.7	4425.0	4208.8	4187.7
22.5°	4235.1	4414.5	4208.8	4061.1	4087.5
25°	4161.3	4361.7	4066.4	3976.7	3997.8
27.5°	4082.2	4309.0	3913.4	3881.8	3908.1
30°	3992.5	4235.1	3797.4	3786.8	3818.5
32.5°	3897.6	4092.7	3686.6	3691.9	3728.8
35°	3792.1	3860.7	3570.6	3586.4	3623.3
37.5°	3686.6	3644.4	3459.8	3486.2	3523.1
40°	3570.6	3475.7	3343.8	3370.2	3412.4
42.5°	3444.0	3296.3	3217.2	3254.1	3291.1
45°	3312.2	3111.7	3090.6	3127.6	3153.9
47.5°	3175.0	2953.5	2958.8	2985.2	2236.2
50°	3022.1	2795.3	2816.4	1951.4	1239.4
52.5°	2858.6	2631.8	2674.0	1086.5	627.6
55°	2689.8	2463.0	2505.2	548.5	421.9
57.5°	2510.5	2294.3	1635.0	395.6	416.7
60°	2331.2	2114.9	833.3	390.3	400.8
62.5°	2146.6	1935.6	395.6	374.5	379.7
65°	1956.7	1751.0	327.0	348.1	348.1
67.5°	1745.7	1555.9	311.2	311.2	305.9
70°	1529.5	1292.2	284.8	269.0	263.7
72.5°	1329.1	495.8	247.9	221.5	216.2
75°	1081.2	226.8	205.7	179.3	174.0
77.5°	859.7	189.9	163.5	142.4	137.1
80°	638.2	147.7	121.3	105.5	100.2
82.5°	443.0	100.2	84.4	68.6	68.6
85°	253.2	63.3	52.7	42.2	42.2
87.5°	100.2	31.6	26.4	15.8	15.8
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	24.72	26.24	25.08	26.55	26.87	12.48	14.00	12.85	14.32	14.63
	3H	26.74	28.10	27.12	28.42	28.79	14.80	16.16	15.18	16.48	16.85
	4H	27.20	28.47	27.60	28.82	29.20	15.51	16.78	15.91	17.13	17.51
	6H	27.61	28.78	28.02	29.15	29.54	15.99	17.17	16.41	17.53	17.93
	8H	27.76	28.87	28.18	29.26	29.66	16.13	17.25	16.56	17.64	18.04
	12H	27.85	28.92	28.28	29.30	29.73	16.22	17.29	16.65	17.67	18.10
4H	2H	24.56	25.83	24.96	26.18	26.56	13.28	14.55	13.68	14.90	15.28
	3H	26.76	27.81	27.17	28.21	28.61	15.79	16.84	16.20	17.24	17.64
	4H	27.21	28.15	27.64	28.56	29.00	16.61	17.55	17.05	17.97	18.41
	6H	27.68	28.49	28.13	28.93	29.39	17.20	18.02	17.66	18.46	18.92
	8H	27.87	28.63	28.33	29.07	29.54	17.37	18.14	17.84	18.58	19.05
	12H	28.02	28.70	28.50	29.18	29.65	17.49	18.17	17.97	18.65	19.12
8H	4H	27.13	27.89	27.59	28.33	28.80	17.45	18.21	17.92	18.66	19.12
	6H	27.59	28.22	28.09	28.71	29.19	18.07	18.70	18.57	19.19	19.67
	8H	27.79	28.35	28.30	28.86	29.35	18.27	18.84	18.79	19.35	19.84
	12H	27.97	28.47	28.48	28.97	29.53	18.43	18.93	18.94	19.42	19.99
12H	4H	27.10	27.78	27.58	28.26	28.73	17.52	18.20	18.00	18.68	19.15
	6H	27.54	28.11	28.06	28.62	29.11	18.17	18.73	18.68	19.24	19.73
	8H	27.76	28.26	28.27	28.76	29.32	18.42	18.92	18.93	19.41	19.98