

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: P895475

Luminaire Tested: 8TMB-SC3-RFLW-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895475
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-HI-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

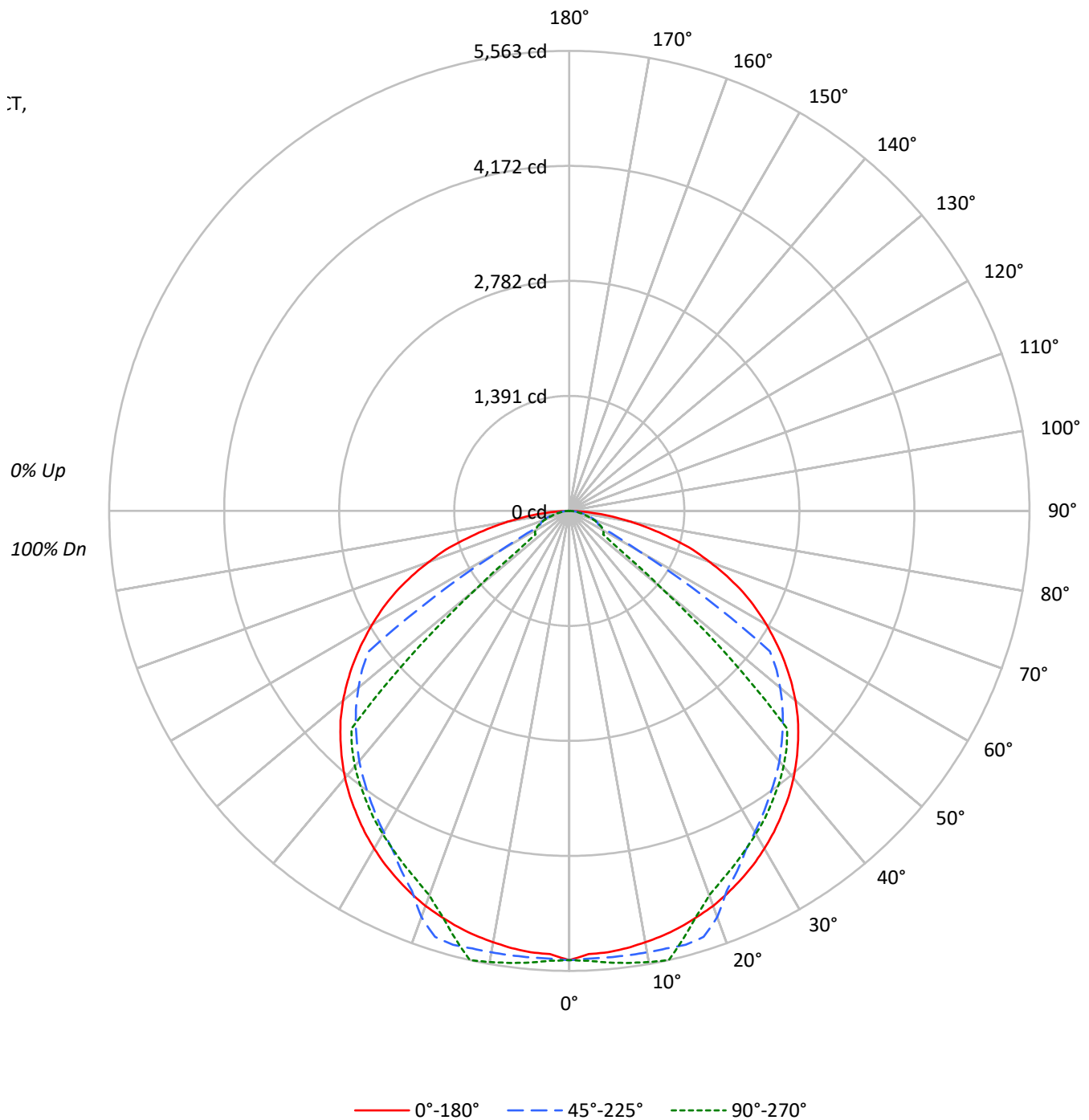
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13250.0 lumens
Efficiency: N/A
Efficacy: 130.7 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): 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°	35179	35179	35179
5°	34827	35232	35637
10°	34820	35639	36418
15°	34916	36419	35835
20°	35032	36019	34088
25°	35121	34320	33741
30°	35263	33540	33727
35°	35410	33341	33834
40°	35653	33389	34073
45°	35829	33433	34118
50°	35962	33514	14749
55°	35870	33409	5627
60°	35663	12748	6132
65°	35414	5919	6300
70°	34206	6369	5898
75°	31955	6080	5144
80°	28110	5344	4415
85°	22215	4629	3700

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 35962 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.8	3.9
10°-20°	1506.5	11.4
20°-30°	2247.7	17.0
30°-40°	2724.5	20.6
40°-50°	2789.7	21.1
50°-60°	1855.2	14.0
60°-70°	1057.4	8.0
70°-80°	444.2	3.4
80°-90°	105.9	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°	4273.0	32.2
0°-40°	6997.5	52.8
0°-60°	11642.4	87.9
0°-90°	13250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5433	5433	5433	5433	5433	
5°	5358	5464	5420	5433	5482	510
15°	5208	5352	5433	5414	5345	1471
25°	4916	5152	4803	4698	4722	2268
35°	4479	4560	4218	4236	4280	2806
45°	3912	3676	3651	3694	3726	3018
55°	3177	2909	2959	648	498	2837
65°	2311	2068	386	411	411	2274
75°	1277	268	243	212	206	1356
85°	299	75	62	50	50	358
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5432.6	5432.6	5432.6	5432.6	5432.6
2.5°	5364.1	5476.2	5420.1	5426.4	5445.1
5°	5357.8	5463.8	5420.1	5432.6	5482.4
7.5°	5332.9	5445.1	5420.1	5457.5	5513.6
10°	5295.5	5426.4	5420.1	5482.4	5538.5
12.5°	5258.2	5389.0	5420.1	5513.6	5563.4
15°	5208.3	5351.6	5432.6	5413.9	5345.4
17.5°	5146.0	5314.2	5401.5	5133.6	5127.3
20°	5083.7	5264.4	5227.0	4971.6	4946.7
22.5°	5002.7	5214.5	4971.6	4797.1	4828.3
25°	4915.5	5152.2	4803.4	4697.5	4722.4
27.5°	4822.1	5089.9	4622.7	4585.3	4616.5
30°	4716.1	5002.7	4485.6	4473.2	4510.6
32.5°	4604.0	4834.5	4354.8	4361.0	4404.6
35°	4479.4	4560.4	4217.7	4236.4	4280.0
37.5°	4354.8	4305.0	4086.9	4118.1	4161.7
40°	4217.7	4105.6	3949.9	3981.0	4030.8
42.5°	4068.2	3893.8	3800.3	3843.9	3887.5
45°	3912.5	3675.7	3650.8	3694.4	3725.6
47.5°	3750.5	3488.8	3495.1	3526.2	2641.5
50°	3569.8	3301.9	3326.8	2305.1	1464.1
52.5°	3376.7	3108.8	3158.6	1283.4	741.4
55°	3177.3	2909.4	2959.3	647.9	498.4
57.5°	2965.5	2710.1	1931.3	467.3	492.2
60°	2753.7	2498.2	984.3	461.0	473.5
62.5°	2535.6	2286.4	467.3	442.3	448.6
65°	2311.3	2068.4	386.3	411.2	411.2
67.5°	2062.1	1837.9	367.6	367.6	361.3
70°	1806.7	1526.4	336.4	317.7	311.5
72.5°	1570.0	585.6	292.8	261.7	255.4
75°	1277.2	267.9	243.0	211.8	205.6
77.5°	1015.5	224.3	193.1	168.2	162.0
80°	753.8	174.4	143.3	124.6	118.4
82.5°	523.3	118.4	99.7	81.0	81.0
85°	299.0	74.8	62.3	49.8	49.8
87.5°	118.4	37.4	31.2	18.7	18.7
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	25.30	26.82	25.66	27.13	27.45	13.06	14.58	13.43	14.90	15.21
	3H	27.32	28.67	27.69	29.00	29.36	15.38	16.74	15.75	17.06	17.42
	4H	27.78	29.05	28.18	29.40	29.78	16.09	17.36	16.49	17.71	18.09
	6H	28.19	29.36	28.60	29.72	30.12	16.57	17.75	16.99	18.11	18.50
	8H	28.33	29.45	28.76	29.84	30.24	16.71	17.83	17.14	18.22	18.62
	12H	28.43	29.50	28.86	29.88	30.31	16.80	17.87	17.23	18.25	18.68
4H	2H	25.14	26.41	25.54	26.76	27.14	13.86	15.13	14.26	15.48	15.86
	3H	27.34	28.39	27.75	28.79	29.19	16.37	17.42	16.78	17.82	18.22
	4H	27.79	28.73	28.22	29.14	29.58	17.19	18.13	17.62	18.55	18.99
	6H	28.25	29.07	28.71	29.51	29.97	17.78	18.60	18.24	19.04	19.50
	8H	28.45	29.21	28.91	29.65	30.12	17.95	18.71	18.42	19.16	19.63
	12H	28.60	29.28	29.08	29.76	30.23	18.07	18.75	18.55	19.23	19.70
8H	4H	27.71	28.47	28.17	28.91	29.38	18.03	18.79	18.49	19.24	19.70
	6H	28.17	28.79	28.66	29.29	29.76	18.65	19.28	19.15	19.77	20.25
	8H	28.37	28.93	28.88	29.44	29.93	18.85	19.42	19.37	19.93	20.42
	12H	28.55	29.05	29.06	29.54	30.11	19.01	19.51	19.52	20.00	20.57
12H	4H	27.68	28.36	28.16	28.83	29.31	18.10	18.78	18.58	19.26	19.73
	6H	28.12	28.69	28.63	29.20	29.68	18.74	19.31	19.26	19.82	20.31
	8H	28.34	28.84	28.85	29.34	29.90	19.00	19.50	19.51	19.99	20.56