

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: P895486

Luminaire Tested: 8TMB-SC3-RFLW-UNV-CC93-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895486
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 5000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

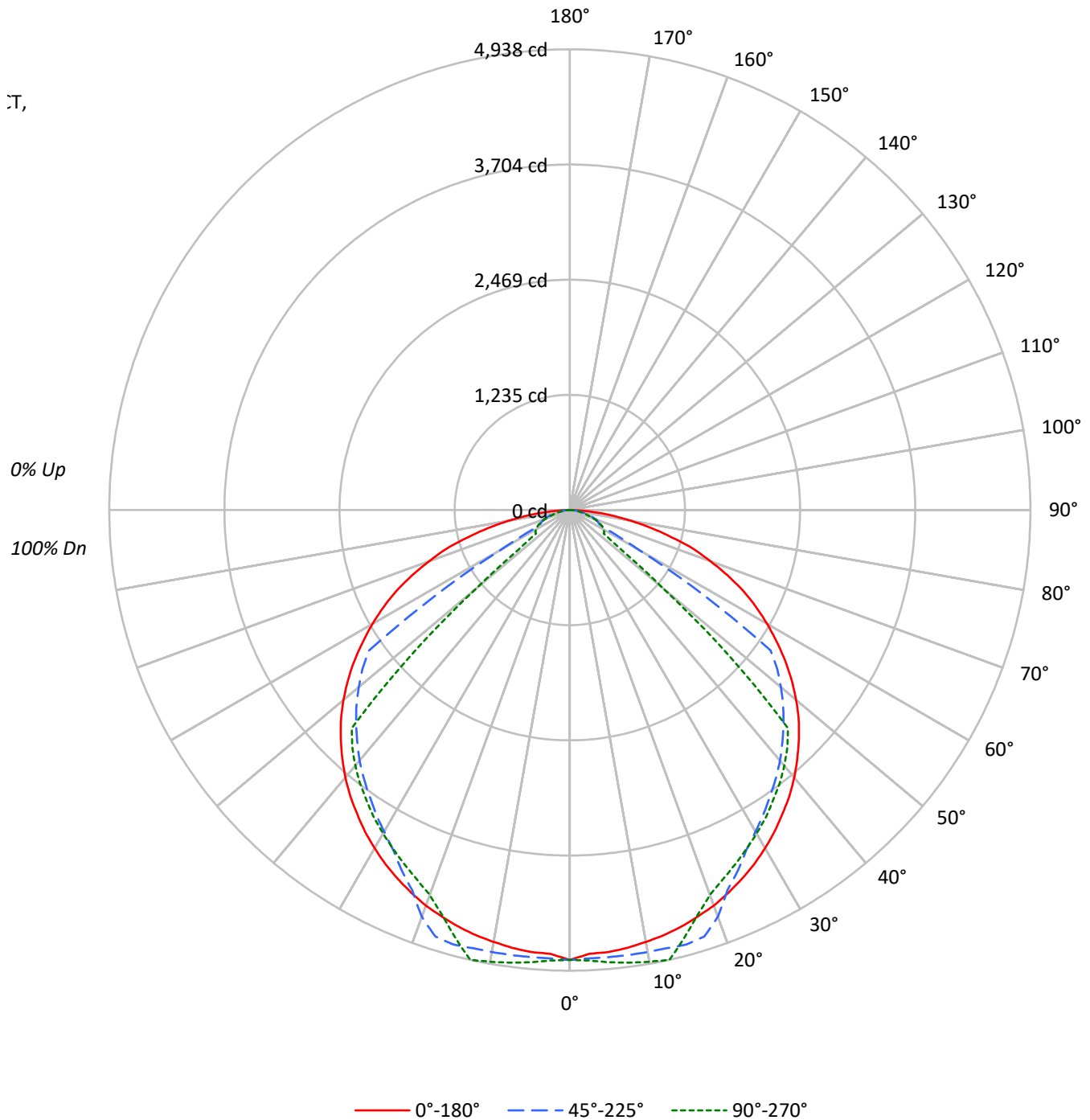
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11760.0 lumens
Efficiency: N/A
Efficacy: 116.0 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°	31223	31223	31223
5°	30910	31270	31629
10°	30904	31631	32322
15°	30989	32324	31805
20°	31092	31969	30254
25°	31171	30460	29946
30°	31298	29768	29933
35°	31428	29592	30029
40°	31643	29634	30242
45°	31800	29674	30281
50°	31919	29746	13090
55°	31837	29652	4995
60°	31652	11315	5442
65°	31432	5252	5591
70°	30359	5653	5235
75°	28359	5394	4566
80°	24951	4743	3919
85°	19719	4109	3284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 31919 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.5	3.9
10°-20°	1337.0	11.4
20°-30°	1995.0	17.0
30°-40°	2418.1	20.6
40°-50°	2476.0	21.1
50°-60°	1646.6	14.0
60°-70°	938.5	8.0
70°-80°	394.3	3.4
80°-90°	94.0	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°	3792.5	32.2
0°-40°	6210.6	52.8
0°-60°	10333.2	87.9
0°-90°	11760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4822	4822	4822	4822	4822	
5°	4755	4849	4811	4822	4866	452
15°	4623	4750	4822	4805	4744	1306
25°	4363	4573	4263	4169	4191	2013
35°	3976	4048	3743	3760	3799	2490
45°	3472	3262	3240	3279	3307	2679
55°	2820	2582	2626	575	442	2518
65°	2051	1836	343	365	365	2019
75°	1134	238	216	188	182	1204
85°	265	66	55	44	44	318
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4821.7	4821.7	4821.7	4821.7	4821.7
2.5°	4760.9	4860.4	4810.6	4816.2	4832.7
5°	4755.3	4849.3	4810.6	4821.7	4865.9
7.5°	4733.2	4832.7	4810.6	4843.8	4893.6
10°	4700.0	4816.2	4810.6	4865.9	4915.7
12.5°	4666.9	4783.0	4810.6	4893.6	4937.8
15°	4622.6	4749.8	4821.7	4805.1	4744.3
17.5°	4567.3	4716.6	4794.0	4556.3	4550.7
20°	4512.0	4672.4	4639.2	4412.5	4390.4
22.5°	4440.2	4628.2	4412.5	4257.7	4285.3
25°	4362.7	4572.9	4263.2	4169.2	4191.3
27.5°	4279.8	4517.6	4102.9	4069.7	4097.3
30°	4185.8	4440.2	3981.2	3970.2	4003.3
32.5°	4086.3	4290.9	3865.1	3870.6	3909.3
35°	3975.7	4047.6	3743.4	3760.0	3798.7
37.5°	3865.1	3820.9	3627.3	3655.0	3693.7
40°	3743.4	3643.9	3505.7	3533.3	3577.6
42.5°	3610.7	3455.9	3373.0	3411.7	3450.4
45°	3472.5	3262.4	3240.3	3279.0	3306.6
47.5°	3328.7	3096.5	3102.0	3129.7	2344.5
50°	3168.4	2930.6	2952.7	2045.9	1299.4
52.5°	2997.0	2759.2	2803.4	1139.1	658.0
55°	2820.0	2582.3	2626.5	575.1	442.4
57.5°	2632.0	2405.3	1714.1	414.7	436.8
60°	2444.0	2217.3	873.7	409.2	420.2
62.5°	2250.5	2029.3	414.7	392.6	398.1
65°	2051.4	1835.8	342.8	364.9	364.9
67.5°	1830.3	1631.2	326.2	326.2	320.7
70°	1603.5	1354.7	298.6	282.0	276.5
72.5°	1393.4	519.8	259.9	232.2	226.7
75°	1133.5	237.8	215.6	188.0	182.5
77.5°	901.3	199.1	171.4	149.3	143.8
80°	669.1	154.8	127.2	110.6	105.1
82.5°	464.5	105.1	88.5	71.9	71.9
85°	265.4	66.4	55.3	44.2	44.2
87.5°	105.1	33.2	27.6	16.6	16.6
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	24.88	26.40	25.25	26.72	27.03	12.65	14.17	13.01	14.48	14.80
	3H	26.90	28.26	27.28	28.59	28.95	14.96	16.32	15.34	16.65	17.01
	4H	27.36	28.64	27.76	28.98	29.36	15.67	16.95	16.07	17.30	17.67
	6H	27.77	28.94	28.18	29.31	29.70	16.16	17.33	16.57	17.70	18.09
	8H	27.92	29.04	28.35	29.43	29.83	16.30	17.41	16.72	17.80	18.20
	12H	28.02	29.09	28.45	29.47	29.90	16.38	17.45	16.81	17.83	18.26
4H	2H	24.72	25.99	25.12	26.34	26.72	13.45	14.72	13.85	15.07	15.44
	3H	26.93	27.97	27.34	28.37	28.77	15.96	17.00	16.37	17.40	17.80
	4H	27.37	28.31	27.81	28.73	29.17	16.78	17.72	17.21	18.13	18.57
	6H	27.84	28.65	28.30	29.10	29.56	17.37	18.18	17.83	18.63	19.09
	8H	28.03	28.79	28.50	29.24	29.70	17.54	18.30	18.00	18.74	19.21
	12H	28.18	28.86	28.67	29.34	29.81	17.66	18.34	18.14	18.81	19.29
8H	4H	27.29	28.05	27.76	28.50	28.97	17.61	18.38	18.08	18.82	19.29
	6H	27.75	28.38	28.25	28.87	29.35	18.24	18.87	18.74	19.36	19.84
	8H	27.95	28.52	28.47	29.03	29.52	18.44	19.00	18.95	19.51	20.00
	12H	28.14	28.64	28.65	29.13	29.70	18.59	19.10	19.10	19.59	20.15
12H	4H	27.26	27.94	27.74	28.42	28.89	17.69	18.37	18.17	18.84	19.32
	6H	27.71	28.27	28.22	28.78	29.27	18.33	18.90	18.85	19.41	19.90
	8H	27.93	28.43	28.44	28.92	29.49	18.58	19.09	19.09	19.58	20.14