

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: P895485

Luminaire Tested: 8TMB-SC3-RFLW-UNV-CC93-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895485
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-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 4000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

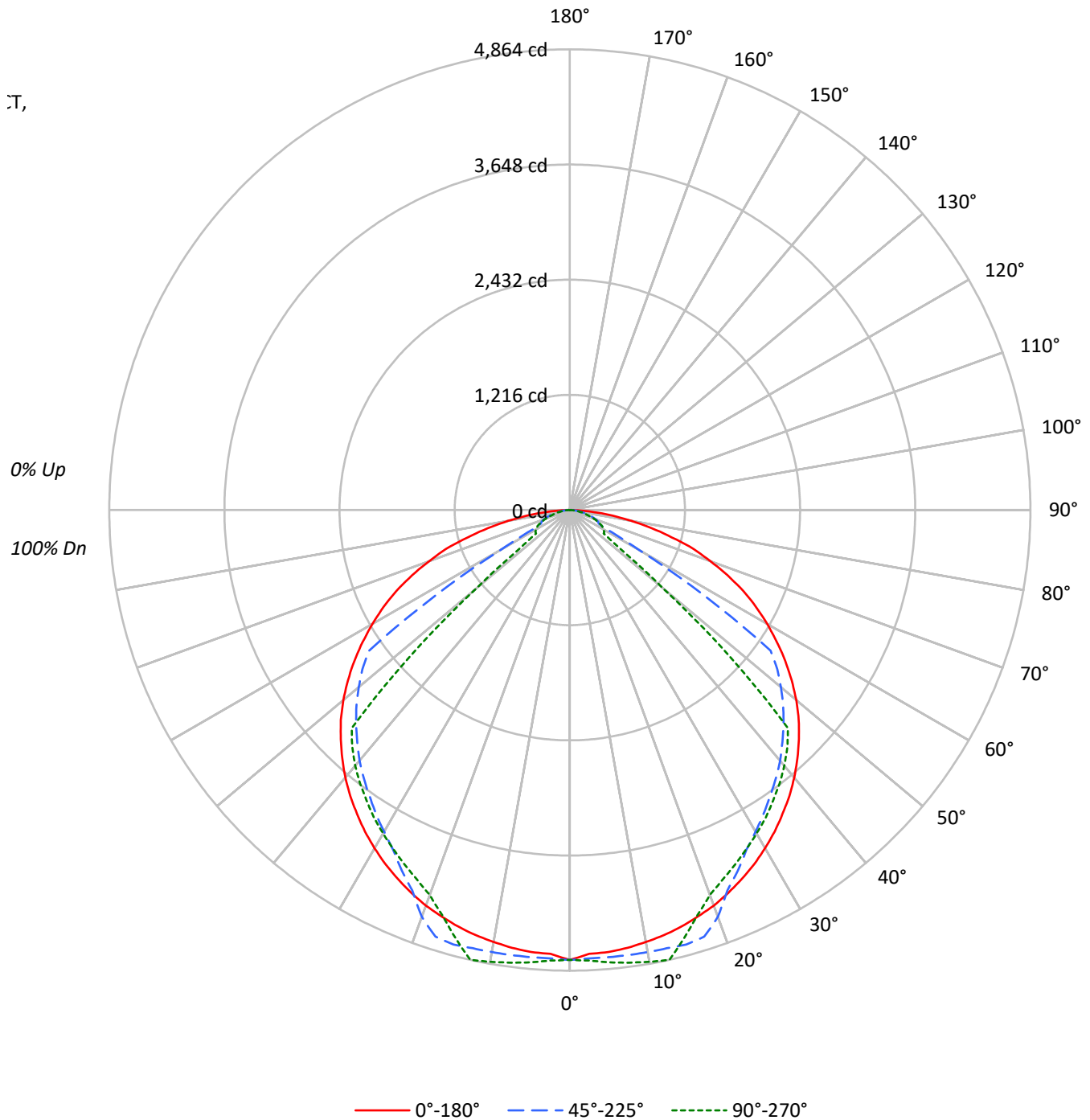
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11585.0 lumens
Efficiency: N/A
Efficacy: 114.3 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				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	100	100	100	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87	87	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75	75	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64	64	64	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56	56	56	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	49	49	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43	43	43	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38	38	38	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35	35	35	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31	31	31	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	30758	30758	30758
5°	30451	30804	31159
10°	30445	31161	31841
15°	30528	31843	31332
20°	30630	31493	29804
25°	30707	30007	29501
30°	30832	29326	29489
35°	30960	29152	29582
40°	31172	29193	29791
45°	31327	29231	29830
50°	31443	29303	12896
55°	31364	29211	4920
60°	31182	11147	5362
65°	30965	5174	5508
70°	29908	5568	5157
75°	27939	5314	4498
80°	24578	4673	3860
85°	19429	4049	3239

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 31443 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.6	3.9
10°-20°	1317.1	11.4
20°-30°	1965.3	17.0
30°-40°	2382.1	20.6
40°-50°	2439.2	21.1
50°-60°	1622.1	14.0
60°-70°	924.5	8.0
70°-80°	388.4	3.4
80°-90°	92.6	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°	3736.1	32.2
0°-40°	6118.2	52.8
0°-60°	10179.4	87.9
0°-90°	11585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11585.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4750	4750	4750	4750	4750	
5°	4685	4777	4739	4750	4794	446
15°	4554	4679	4750	4734	4674	1286
25°	4298	4505	4200	4107	4129	1983
35°	3916	3987	3688	3704	3742	2453
45°	3421	3214	3192	3230	3257	2639
55°	2778	2544	2587	566	436	2481
65°	2021	1808	338	360	360	1989
75°	1117	234	212	185	180	1186
85°	262	65	54	44	44	313
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4749.9	4749.9	4749.9	4749.9	4749.9
2.5°	4690.0	4788.1	4739.0	4744.5	4760.8
5°	4684.6	4777.2	4739.0	4749.9	4793.5
7.5°	4662.8	4760.8	4739.0	4771.7	4820.8
10°	4630.1	4744.5	4739.0	4793.5	4842.5
12.5°	4597.4	4711.8	4739.0	4820.8	4864.3
15°	4553.8	4679.1	4749.9	4733.6	4673.7
17.5°	4499.4	4646.4	4722.7	4488.5	4483.0
20°	4444.9	4602.9	4570.2	4346.8	4325.1
22.5°	4374.1	4559.3	4346.8	4194.3	4221.6
25°	4297.8	4504.8	4199.8	4107.2	4129.0
27.5°	4216.1	4450.3	4041.8	4009.1	4036.4
30°	4123.5	4374.1	3922.0	3911.1	3943.8
32.5°	4025.5	4227.0	3807.6	3813.0	3851.2
35°	3916.5	3987.3	3687.7	3704.1	3742.2
37.5°	3807.6	3764.0	3573.3	3600.6	3638.7
40°	3687.7	3589.7	3453.5	3480.7	3524.3
42.5°	3557.0	3404.5	3322.8	3360.9	3399.0
45°	3420.8	3213.8	3192.0	3230.2	3257.4
47.5°	3279.2	3050.4	3055.9	3083.1	2309.6
50°	3121.2	2887.0	2908.8	2015.5	1280.1
52.5°	2952.4	2718.1	2761.7	1122.1	648.2
55°	2778.1	2543.8	2587.4	566.5	435.8
57.5°	2592.9	2369.5	1688.6	408.5	430.3
60°	2407.7	2184.3	860.7	403.1	414.0
62.5°	2217.0	1999.1	408.5	386.7	392.2
65°	2020.9	1808.5	337.7	359.5	359.5
67.5°	1803.0	1606.9	321.4	321.4	315.9
70°	1579.7	1334.6	294.1	277.8	272.4
72.5°	1372.7	512.0	256.0	228.8	223.3
75°	1116.7	234.2	212.4	185.2	179.8
77.5°	887.9	196.1	168.9	147.1	141.6
80°	659.1	152.5	125.3	108.9	103.5
82.5°	457.6	103.5	87.2	70.8	70.8
85°	261.5	65.4	54.5	43.6	43.6
87.5°	103.5	32.7	27.2	16.3	16.3
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	24.83	26.35	25.19	26.66	26.98	12.59	14.12	12.96	14.43	14.74
	3H	26.85	28.21	27.23	28.54	28.90	14.91	16.27	15.29	16.60	16.96
	4H	27.31	28.58	27.71	28.93	29.31	15.62	16.89	16.02	17.24	17.62
	6H	27.72	28.89	28.13	29.26	29.65	16.11	17.28	16.52	17.65	18.04
	8H	27.87	28.98	28.29	29.37	29.77	16.24	17.36	16.67	17.75	18.15
	12H	27.97	29.03	28.40	29.42	29.84	16.33	17.40	16.76	17.78	18.21
4H	2H	24.67	25.94	25.07	26.29	26.67	13.39	14.66	13.79	15.01	15.39
	3H	26.87	27.92	27.29	28.32	28.72	15.90	16.95	16.31	17.35	17.75
	4H	27.32	28.26	27.75	28.68	29.12	16.72	17.66	17.16	18.08	18.52
	6H	27.79	28.60	28.25	29.05	29.51	17.32	18.13	17.77	18.57	19.03
	8H	27.98	28.74	28.44	29.18	29.65	17.49	18.25	17.95	18.69	19.16
	12H	28.13	28.81	28.61	29.29	29.76	17.60	18.28	18.09	18.76	19.23
8H	4H	27.24	28.00	27.70	28.45	28.91	17.56	18.32	18.03	18.77	19.24
	6H	27.70	28.33	28.20	28.82	29.30	18.19	18.81	18.68	19.31	19.78
	8H	27.90	28.46	28.41	28.97	29.46	18.39	18.95	18.90	19.46	19.95
	12H	28.08	28.59	28.59	29.08	29.64	18.54	19.04	19.05	19.54	20.10
12H	4H	27.21	27.89	27.69	28.37	28.84	17.63	18.31	18.12	18.79	19.26
	6H	27.65	28.22	28.17	28.73	29.22	18.28	18.84	18.79	19.35	19.84
	8H	27.88	28.38	28.39	28.87	29.43	18.53	19.03	19.04	19.53	20.09