

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: P895477

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895477
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 5000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

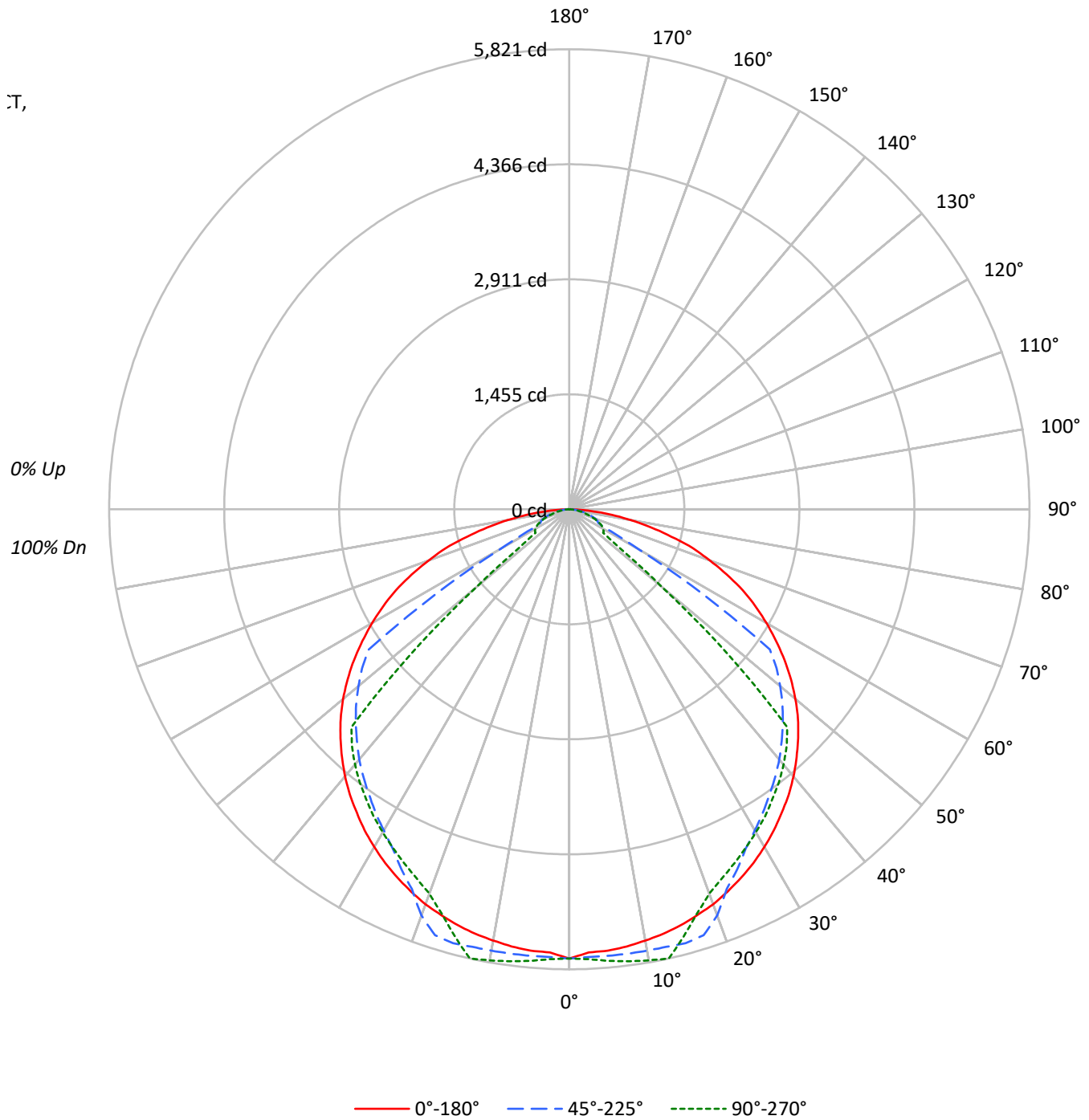
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13863.0 lumens
Efficiency: N/A
Efficacy: 136.7 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				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°	36806	36806	36806
5°	36438	36862	37286
10°	36431	37288	38102
15°	36531	38104	37493
20°	36653	37686	35665
25°	36745	35907	35302
30°	36895	35092	35286
35°	37048	34884	35400
40°	37303	34933	35649
45°	37487	34980	35696
50°	37626	35066	15431
55°	37530	34955	5888
60°	37313	13338	6416
65°	37054	6192	6592
70°	35789	6664	6170
75°	33431	6360	5382
80°	29411	5590	4617
85°	23248	4844	3871

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 37626 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.8	3.9
10°-20°	1576.1	11.4
20°-30°	2351.7	17.0
30°-40°	2850.5	20.6
40°-50°	2918.8	21.1
50°-60°	1941.0	14.0
60°-70°	1106.3	8.0
70°-80°	464.8	3.4
80°-90°	110.8	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°	4470.7	32.2
0°-40°	7321.2	52.8
0°-60°	12181.1	87.9
0°-90°	13863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13863.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5684	5684	5684	5684	5684	
5°	5606	5716	5671	5684	5736	533
15°	5449	5599	5684	5664	5593	1539
25°	5143	5391	5026	4915	4941	2373
35°	4687	4771	4413	4432	4478	2936
45°	4094	3846	3820	3865	3898	3158
55°	3324	3044	3096	678	522	2969
65°	2418	2164	404	430	430	2380
75°	1336	280	254	222	215	1419
85°	313	78	65	52	52	375
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5683.9	5683.9	5683.9	5683.9	5683.9
2.5°	5612.2	5729.6	5670.9	5677.4	5697.0
5°	5605.7	5716.5	5670.9	5683.9	5736.1
7.5°	5579.6	5697.0	5670.9	5710.0	5768.7
10°	5540.5	5677.4	5670.9	5736.1	5794.7
12.5°	5501.4	5638.3	5670.9	5768.7	5820.8
15°	5449.3	5599.2	5683.9	5664.4	5592.7
17.5°	5384.1	5560.1	5651.3	5371.1	5364.5
20°	5318.9	5507.9	5468.8	5201.6	5175.5
22.5°	5234.2	5455.8	5201.6	5019.1	5051.7
25°	5142.9	5390.6	5025.6	4914.8	4940.9
27.5°	5045.1	5325.4	4836.6	4797.5	4830.0
30°	4934.3	5234.2	4693.2	4680.1	4719.2
32.5°	4817.0	5058.2	4556.3	4562.8	4608.4
35°	4686.6	4771.4	4412.9	4432.4	4478.1
37.5°	4556.3	4504.1	4276.0	4308.6	4354.2
40°	4412.9	4295.5	4132.6	4165.2	4217.3
42.5°	4256.4	4073.9	3976.1	4021.8	4067.4
45°	4093.5	3845.8	3819.7	3865.3	3897.9
47.5°	3924.0	3650.2	3656.8	3689.3	2763.7
50°	3735.0	3454.7	3480.8	2411.8	1531.8
52.5°	3532.9	3252.6	3304.8	1342.8	775.7
55°	3324.3	3044.0	3096.2	677.9	521.5
57.5°	3102.7	2835.4	2020.7	488.9	514.9
60°	2881.1	2613.8	1029.9	482.4	495.4
62.5°	2652.9	2392.2	488.9	462.8	469.3
65°	2418.3	2164.1	404.1	430.2	430.2
67.5°	2157.5	1922.9	384.6	384.6	378.1
70°	1890.3	1597.0	352.0	332.4	325.9
72.5°	1642.6	612.7	306.4	273.8	267.2
75°	1336.2	280.3	254.2	221.6	215.1
77.5°	1062.5	234.7	202.1	176.0	169.5
80°	788.7	182.5	149.9	130.4	123.8
82.5°	547.5	123.8	104.3	84.7	84.7
85°	312.9	78.2	65.2	52.1	52.1
87.5°	123.8	39.1	32.6	19.6	19.6
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	25.45	26.97	25.82	27.29	27.60	13.22	14.74	13.58	15.05	15.37
	3H	27.47	28.83	27.85	29.16	29.52	15.53	16.89	15.91	17.22	17.58
	4H	27.94	29.21	28.34	29.56	29.93	16.25	17.52	16.65	17.87	18.25
	6H	28.34	29.52	28.75	29.88	30.27	16.73	17.90	17.14	18.27	18.66
	8H	28.49	29.61	28.92	30.00	30.40	16.87	17.98	17.29	18.37	18.77
	12H	28.59	29.66	29.02	30.04	30.47	16.95	18.02	17.39	18.40	18.83
4H	2H	25.29	26.57	25.69	26.91	27.29	14.02	15.29	14.42	15.64	16.02
	3H	27.50	28.54	27.91	28.95	29.35	16.53	17.57	16.94	17.98	18.38
	4H	27.95	28.88	28.38	29.30	29.74	17.35	18.29	17.78	18.70	19.14
	6H	28.41	29.23	28.87	29.67	30.13	17.94	18.75	18.40	19.20	19.66
	8H	28.60	29.36	29.07	29.81	30.28	18.11	18.87	18.57	19.32	19.78
	12H	28.75	29.43	29.24	29.91	30.38	18.23	18.91	18.71	19.39	19.86
8H	4H	27.86	28.62	28.33	29.07	29.54	18.19	18.95	18.65	19.39	19.86
	6H	28.32	28.95	28.82	29.44	29.92	18.81	19.44	19.31	19.93	20.41
	8H	28.52	29.09	29.04	29.60	30.09	19.01	19.58	19.52	20.09	20.57
	12H	28.71	29.21	29.22	29.70	30.27	19.17	19.67	19.68	20.16	20.73
12H	4H	27.83	28.51	28.32	28.99	29.46	18.26	18.94	18.74	19.42	19.89
	6H	28.28	28.84	28.79	29.35	29.84	18.90	19.47	19.42	19.98	20.47
	8H	28.50	29.00	29.01	29.49	30.06	19.16	19.66	19.67	20.15	20.71