

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: P895449

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-LVRA-UNV-CC93-HI-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 4000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

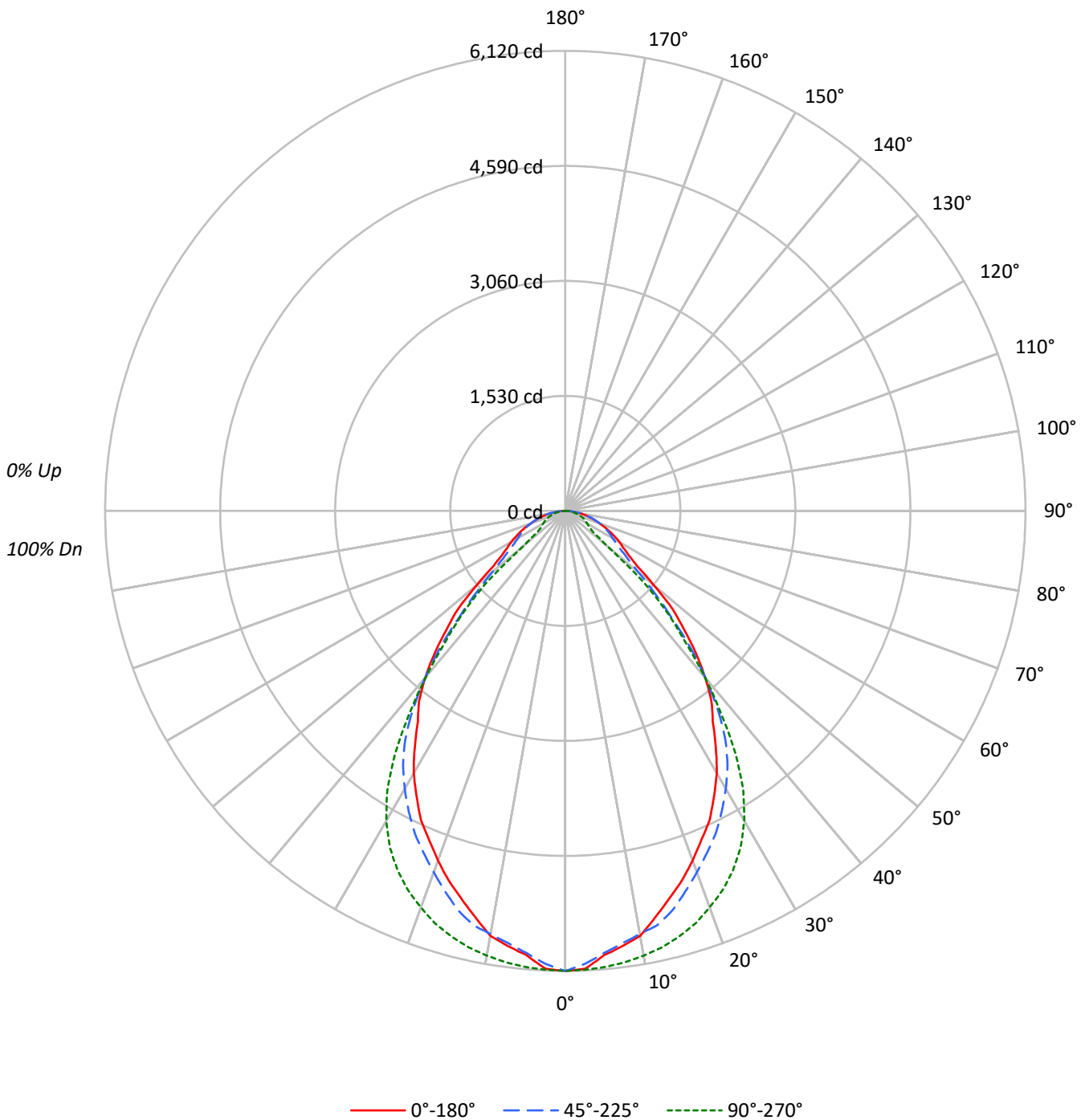
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9933.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' 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

TEST NUMBER: P895449
CATALOG NUMBER: 8TMB-SC3-LVRA-UNV-CC93-HI-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P895449
 CATALOG NUMBER: 8TMB-SC3-LVRA-UNV-CC93-HI-4000K

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21716	21716	21716
5°	21130	21035	21692
10°	20681	20590	21641
15°	19614	20216	21520
20°	18684	19315	21192
25°	17773	18533	20650
30°	16512	17494	19498
35°	14806	16077	17102
40°	13414	13443	13370
45°	11216	9933	9688
50°	8472	6992	3962
55°	6372	5591	2498
60°	5921	5149	2406
65°	5509	5138	2410
70°	5040	5040	2373
75°	4779	4909	2292
80°	4416	4640	2352
85°	3851	4047	2569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11477 cd/sqm



TEST NUMBER: P895449
 CATALOG NUMBER: 8TMB-SC3-LVRA-UNV-CC93-HI-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.3	5.7
10°-20°	1557.8	15.7
20°-30°	2208.9	22.2
30°-40°	2275.7	22.9
40°-50°	1589.5	16.0
50°-60°	762.7	7.7
60°-70°	535.1	5.4
70°-80°	334.5	3.4
80°-90°	103.5	1.0
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°	4332.0	43.6
0°-40°	6607.7	66.5
0°-60°	8959.9	90.2
0°-90°	9933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6120	6120	6120	6120	6120	
5°	5933	5925	5906	6060	6090	561
15°	5340	5379	5504	5661	5858	1504
25°	4540	4586	4734	5054	5275	2076
35°	3418	3511	3712	3789	3948	2154
45°	2235	2287	1980	1879	1931	1722
55°	1030	980	904	579	404	965
65°	656	614	612	465	287	650
75°	349	344	358	309	167	367
85°	95	95	99	98	63	106
90°	0	0	0	0	0	



TEST NUMBER: P895449

CATALOG NUMBER: 8TMB-SC3-LVRA-UNV-CC93-HI-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6120.3	6120.3	6120.3	6120.3	6120.3
2.5°	6096.6	6077.7	6032.0	6115.6	6109.3
5°	5932.6	5924.7	5905.8	6060.4	6090.3
7.5°	5839.5	5823.7	5801.7	5972.0	6055.6
10°	5740.1	5759.1	5714.9	5871.1	6006.7
12.5°	5535.1	5585.6	5645.5	5767.0	5946.8
15°	5339.5	5378.9	5503.5	5661.3	5858.4
17.5°	5156.5	5202.2	5309.5	5546.1	5755.9
20°	4948.3	5011.4	5115.5	5418.4	5612.4
22.5°	4733.8	4792.1	4923.0	5248.0	5464.1
25°	4539.7	4585.5	4733.8	5054.0	5274.8
27.5°	4282.6	4367.8	4508.2	4817.4	5049.2
30°	4030.2	4102.8	4270.0	4530.3	4759.0
32.5°	3725.8	3831.5	4016.0	4214.8	4405.7
35°	3418.2	3511.3	3711.6	3788.9	3948.2
37.5°	3194.2	3219.5	3333.0	3323.6	3413.5
40°	2896.1	2946.6	2902.4	2784.1	2886.6
42.5°	2574.3	2634.2	2456.0	2318.8	2355.1
45°	2235.2	2287.2	1979.6	1878.7	1930.7
47.5°	1941.8	1937.0	1596.3	1528.5	1455.9
50°	1534.8	1585.3	1266.6	1140.5	717.7
52.5°	1198.8	1217.7	1044.2	728.8	471.6
55°	1030.0	979.6	903.8	578.9	403.8
57.5°	914.9	851.8	801.3	537.9	369.1
60°	834.4	763.5	725.6	511.1	339.1
62.5°	743.0	687.7	673.5	487.4	312.3
65°	656.2	613.6	612.0	465.3	287.1
67.5°	569.4	545.8	552.1	438.5	258.7
70°	485.8	481.1	485.8	403.8	228.7
72.5°	414.9	410.1	422.7	359.6	195.6
75°	348.6	343.9	358.1	309.2	167.2
77.5°	277.6	280.8	290.2	257.1	140.4
80°	216.1	216.1	227.1	201.9	115.1
82.5°	154.6	156.2	162.5	148.3	89.9
85°	94.6	94.6	99.4	97.8	63.1
87.5°	31.5	36.3	42.6	45.7	31.5
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P895449
 CATALOG NUMBER: 8TMB-SC3-LVRA-UNV-CC93-HI-4000K

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	16.34	17.69	16.71	18.01	18.32	12.67	14.03	13.04	14.34	14.65
	3H	18.08	19.29	18.46	19.62	19.98	14.65	15.86	15.03	16.19	16.55
	4H	18.75	19.88	19.15	20.23	20.61	15.35	16.48	15.76	16.83	17.21
	6H	19.26	20.30	19.67	20.67	21.06	15.88	16.91	16.29	17.28	17.68
	8H	19.43	20.41	19.86	20.81	21.21	16.06	17.05	16.49	17.44	17.84
	12H	19.54	20.48	19.97	20.86	21.29	16.20	17.14	16.63	17.53	17.96
4H	2H	16.87	18.00	17.27	18.35	18.73	14.30	15.42	14.70	15.77	16.16
	3H	18.85	19.78	19.26	20.18	20.58	16.47	17.40	16.89	17.81	18.21
	4H	19.65	20.49	20.09	20.90	21.35	17.35	18.19	17.79	18.61	19.05
	6H	20.29	21.02	20.76	21.46	21.93	18.00	18.72	18.46	19.17	19.63
	8H	20.51	21.19	20.98	21.64	22.11	18.20	18.88	18.67	19.33	19.80
	12H	20.67	21.27	21.15	21.75	22.22	18.36	18.96	18.85	19.44	19.92
8H	4H	19.93	20.61	20.40	21.06	21.53	18.00	18.68	18.47	19.12	19.59
	6H	20.72	21.27	21.22	21.77	22.25	18.86	19.42	19.36	19.91	20.39
	8H	21.02	21.52	21.54	22.03	22.52	19.19	19.69	19.71	20.20	20.69
	12H	21.25	21.70	21.77	22.19	22.76	19.45	19.89	19.97	20.39	20.96
12H	4H	19.95	20.55	20.44	21.03	21.51	18.07	18.67	18.56	19.16	19.63
	6H	20.77	21.27	21.29	21.78	22.27	19.00	19.50	19.52	20.01	20.50
	8H	21.13	21.58	21.65	22.07	22.64	19.41	19.85	19.93	20.35	20.92