

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: P895476

Luminaire Tested: 8TMB-SC3-RFLW-UNV-CC83-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895476
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-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 4000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

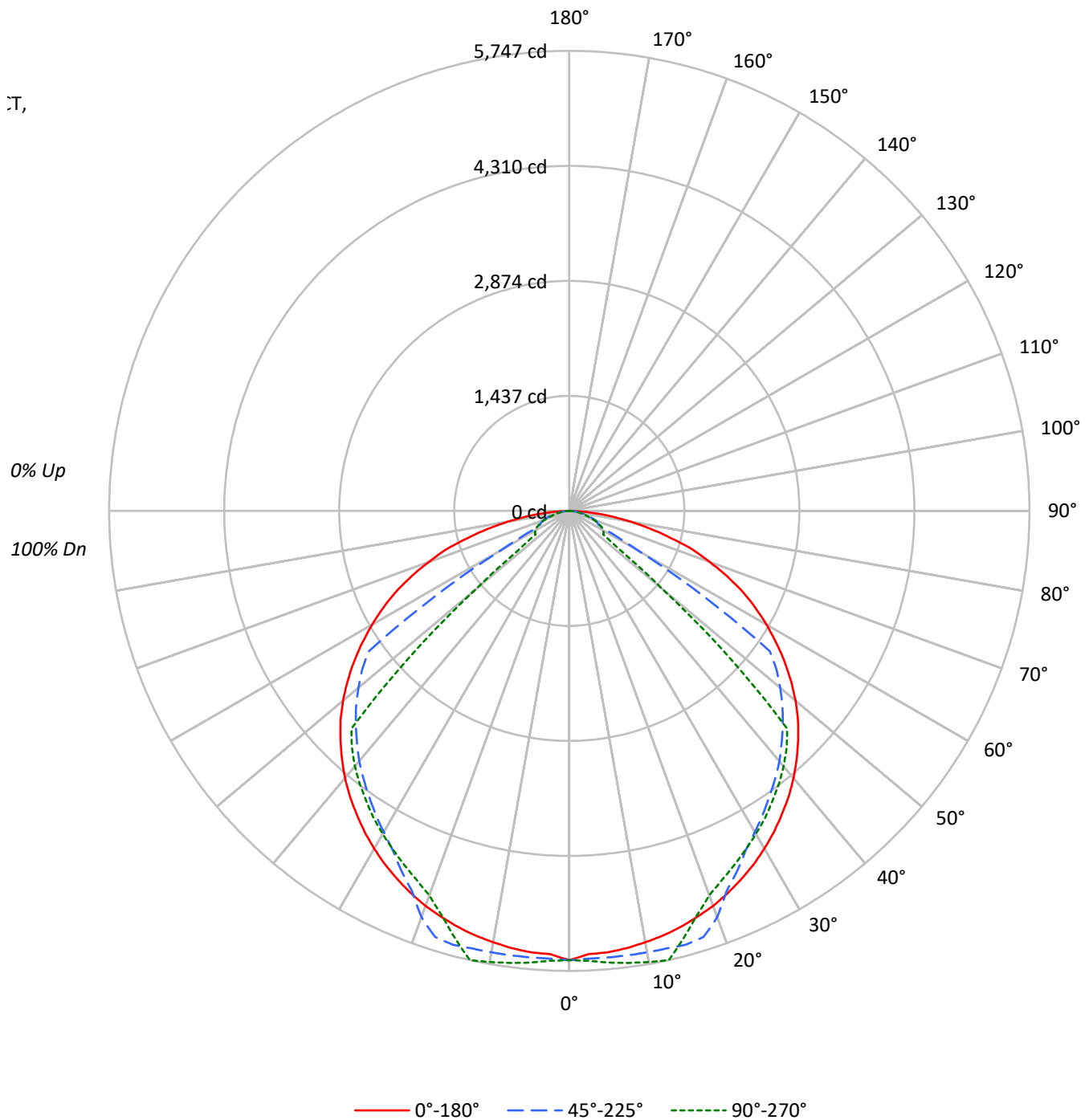
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13688.0 lumens
Efficiency: N/A
Efficacy: 135.0 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

TEST NUMBER: P895476
CATALOG NUMBER: 8TMB-SC3-RFLW-UNV-CC83-HI-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P895476

CATALOG NUMBER: 8TMB-SC3-RFLW-UNV-CC83-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	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°	36342	36342	36342
5°	35979	36396	36815
10°	35971	36817	37621
15°	36070	37624	37019
20°	36190	37210	35215
25°	36282	35454	34856
30°	36429	34649	34842
35°	36581	34444	34952
40°	36832	34492	35200
45°	37013	34538	35245
50°	37151	34622	15237
55°	37057	34513	5813
60°	36841	13170	6334
65°	36586	6114	6509
70°	35336	6579	6093
75°	33010	6280	5314
80°	29042	5519	4561
85°	22950	4785	3826

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 37151 cd/sqm



TEST NUMBER: P895476

CATALOG NUMBER: 8TMB-SC3-RFLW-UNV-CC83-HI-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.0	3.9
10°-20°	1556.2	11.4
20°-30°	2322.0	17.0
30°-40°	2814.6	20.6
40°-50°	2881.9	21.1
50°-60°	1916.5	14.0
60°-70°	1092.4	8.0
70°-80°	458.9	3.4
80°-90°	109.4	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°	4414.3	32.2
0°-40°	7228.8	52.8
0°-60°	12027.3	87.9
0°-90°	13688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13688.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5612	5612	5612	5612	5612	
5°	5535	5644	5599	5612	5664	526
15°	5380	5528	5612	5593	5522	1520
25°	5078	5323	4962	4853	4878	2343
35°	4628	4711	4357	4376	4422	2899
45°	4042	3797	3772	3816	3849	3118
55°	3282	3006	3057	669	515	2931
65°	2388	2137	399	425	425	2350
75°	1319	277	251	219	212	1401
85°	309	77	64	52	52	370
90°	0	0	0	0	0	



TEST NUMBER: P895476

CATALOG NUMBER: 8TMB-SC3-RFLW-UNV-CC83-HI-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5612.2	5612.2	5612.2	5612.2	5612.2
2.5°	5541.4	5657.2	5599.3	5605.7	5625.1
5°	5535.0	5644.4	5599.3	5612.2	5663.7
7.5°	5509.2	5625.1	5599.3	5637.9	5695.9
10°	5470.6	5605.7	5599.3	5663.7	5721.6
12.5°	5432.0	5567.1	5599.3	5695.9	5747.3
15°	5380.5	5528.5	5612.2	5592.9	5522.1
17.5°	5316.1	5489.9	5580.0	5303.3	5296.8
20°	5251.8	5438.4	5399.8	5135.9	5110.2
22.5°	5168.1	5386.9	5135.9	4955.7	4987.9
25°	5078.0	5322.6	4962.1	4852.7	4878.5
27.5°	4981.5	5258.2	4775.5	4736.9	4769.1
30°	4872.0	5168.1	4633.9	4621.0	4659.7
32.5°	4756.2	4994.3	4498.8	4505.2	4550.2
35°	4627.5	4711.1	4357.2	4376.5	4421.5
37.5°	4498.8	4447.3	4222.0	4254.2	4299.2
40°	4357.2	4241.3	4080.4	4112.6	4164.1
42.5°	4202.7	4022.5	3926.0	3971.0	4016.1
45°	4041.8	3797.2	3771.5	3816.5	3848.7
47.5°	3874.5	3604.2	3610.6	3642.8	2728.9
50°	3687.8	3411.1	3436.8	2381.3	1512.5
52.5°	3488.3	3211.6	3263.0	1325.8	765.9
55°	3282.4	3005.6	3057.1	669.3	514.9
57.5°	3063.5	2799.7	1995.2	482.7	508.4
60°	2844.7	2580.8	1016.9	476.3	489.1
62.5°	2619.4	2362.0	482.7	457.0	463.4
65°	2387.8	2136.7	399.0	424.8	424.8
67.5°	2130.3	1898.6	379.7	379.7	373.3
70°	1866.4	1576.8	347.5	328.2	321.8
72.5°	1621.9	605.0	302.5	270.3	263.9
75°	1319.4	276.7	251.0	218.8	212.4
77.5°	1049.1	231.7	199.5	173.8	167.3
80°	778.8	180.2	148.0	128.7	122.3
82.5°	540.6	122.3	103.0	83.7	83.7
85°	308.9	77.2	64.4	51.5	51.5
87.5°	122.3	38.6	32.2	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P895476
 CATALOG NUMBER: 8TMB-SC3-RFLW-UNV-CC83-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	25.41	26.93	25.77	27.24	27.56	13.17	14.70	13.54	15.01	15.32
	3H	27.43	28.79	27.81	29.12	29.48	15.49	16.85	15.87	17.18	17.54
	4H	27.89	29.16	28.29	29.51	29.89	16.20	17.47	16.60	17.82	18.20
	6H	28.30	29.47	28.71	29.84	30.23	16.69	17.86	17.10	18.23	18.62
	8H	28.45	29.56	28.87	29.95	30.35	16.82	17.94	17.25	18.33	18.73
	12H	28.55	29.61	28.98	30.00	30.42	16.91	17.98	17.34	18.36	18.79
4H	2H	25.25	26.52	25.65	26.87	27.25	13.97	15.24	14.37	15.59	15.97
	3H	27.45	28.50	27.86	28.90	29.30	16.48	17.53	16.89	17.93	18.33
	4H	27.90	28.84	28.33	29.26	29.70	17.30	18.24	17.74	18.66	19.10
	6H	28.37	29.18	28.82	29.62	30.09	17.90	18.71	18.35	19.15	19.61
	8H	28.56	29.32	29.02	29.76	30.23	18.07	18.83	18.53	19.27	19.74
	12H	28.71	29.39	29.19	29.87	30.34	18.18	18.86	18.67	19.34	19.81
8H	4H	27.82	28.58	28.28	29.03	29.49	18.14	18.90	18.61	19.35	19.82
	6H	28.28	28.91	28.78	29.40	29.88	18.77	19.39	19.26	19.89	20.36
	8H	28.48	29.04	28.99	29.55	30.04	18.97	19.53	19.48	20.04	20.53
	12H	28.66	29.16	29.17	29.66	30.22	19.12	19.62	19.63	20.12	20.68
12H	4H	27.79	28.47	28.27	28.95	29.42	18.21	18.89	18.70	19.37	19.84
	6H	28.23	28.80	28.75	29.31	29.80	18.86	19.42	19.37	19.93	20.42
	8H	28.45	28.96	28.96	29.45	30.01	19.11	19.61	19.62	20.11	20.67