

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: P895439

Luminaire Tested: 8TMB-SC3-LVRA-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895439
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-CC83-HI-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

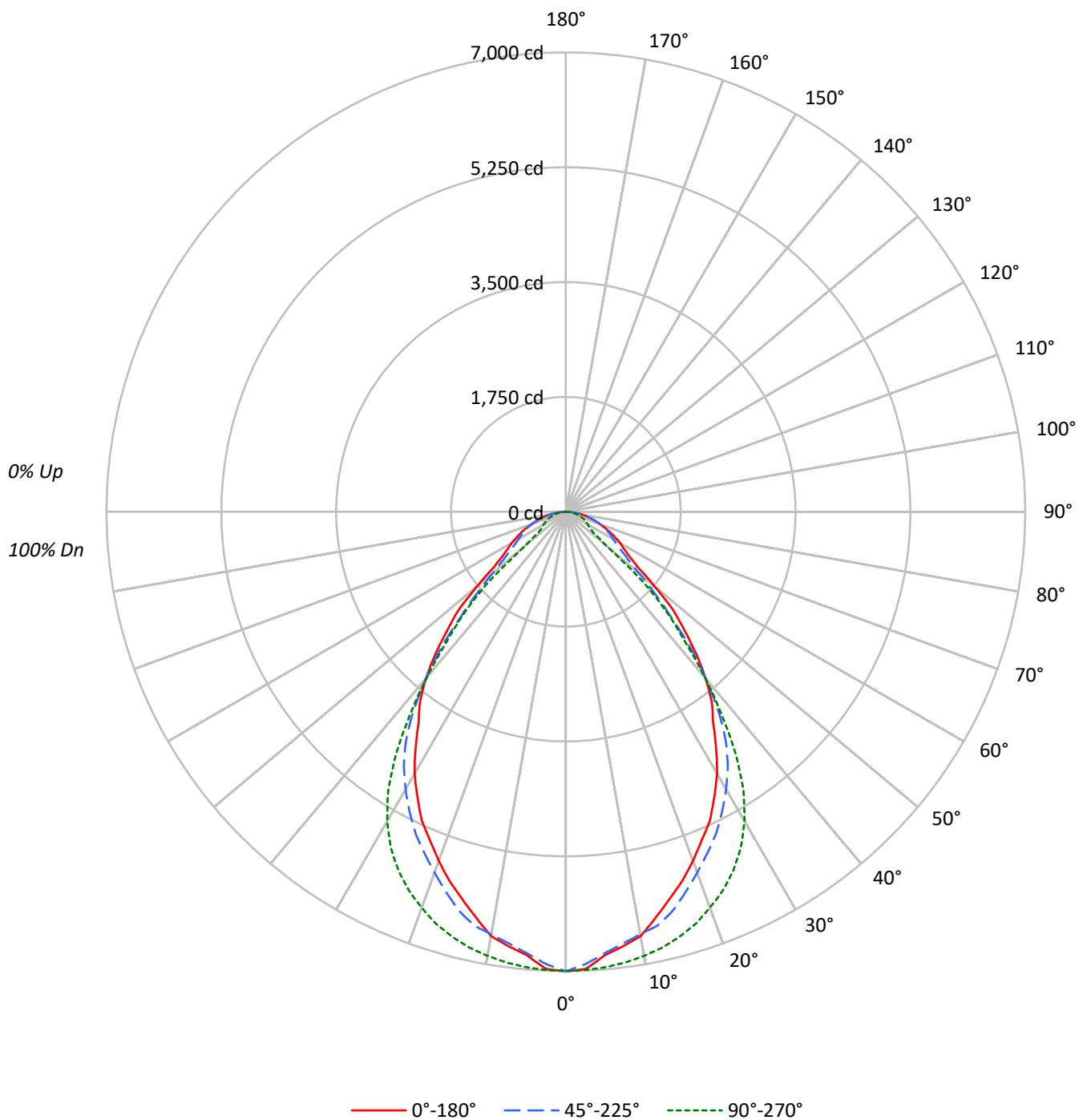
Lumens per Lamp: N/A
Luminaire Lumens: 11361.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

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

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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78		
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69		
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62		
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55		
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50		
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45		
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38		
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24838	24838	24838
5°	24168	24058	24810
10°	23654	23550	24753
15°	22433	23122	24614
20°	21370	22092	24238
25°	20328	21197	23619
30°	18886	20010	22301
35°	16934	18388	19560
40°	15342	15376	15292
45°	12828	11361	11081
50°	9690	7997	4531
55°	7288	6395	2857
60°	6773	5889	2753
65°	6301	5877	2757
70°	5765	5765	2714
75°	5466	5614	2621
80°	5051	5308	2691
85°	4405	4629	2939

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13127 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.6	5.7
10°-20°	1781.7	15.7
20°-30°	2526.5	22.2
30°-40°	2602.8	22.9
40°-50°	1818.0	16.0
50°-60°	872.3	7.7
60°-70°	612.0	5.4
70°-80°	382.6	3.4
80°-90°	118.3	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°	4954.8	43.6
0°-40°	7557.6	66.5
0°-60°	10248.0	90.2
0°-90°	11361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11361.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7000	7000	7000	7000	7000	
5°	6786	6776	6755	6932	6966	642
15°	6107	6152	6295	6475	6701	1720
25°	5192	5245	5414	5780	6033	2374
35°	3910	4016	4245	4334	4516	2464
45°	2556	2616	2264	2149	2208	1970
55°	1178	1120	1034	662	462	1104
65°	750	702	700	532	328	744
75°	399	393	410	354	191	420
85°	108	108	114	112	72	121
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7000.2	7000.2	7000.2	7000.2	7000.2
2.5°	6973.1	6951.5	6899.1	6994.8	6987.5
5°	6785.5	6776.4	6754.8	6931.6	6965.9
7.5°	6679.0	6661.0	6635.7	6830.6	6926.2
10°	6565.4	6587.0	6536.5	6715.1	6870.3
12.5°	6330.8	6388.6	6457.1	6596.0	6801.7
15°	6107.1	6152.2	6294.7	6475.2	6700.7
17.5°	5897.8	5950.1	6072.8	6343.4	6583.4
20°	5659.7	5731.8	5850.9	6197.3	6419.2
22.5°	5414.3	5481.1	5630.8	6002.5	6249.6
25°	5192.4	5244.7	5414.3	5780.5	6033.1
27.5°	4898.3	4995.7	5156.3	5509.9	5775.1
30°	4609.6	4692.6	4883.9	5181.6	5443.2
32.5°	4261.4	4382.3	4593.4	4820.7	5039.0
35°	3909.6	4016.1	4245.2	4333.6	4515.8
37.5°	3653.4	3682.3	3812.2	3801.4	3904.2
40°	3312.4	3370.2	3319.7	3184.4	3301.6
42.5°	2944.4	3013.0	2809.1	2652.1	2693.6
45°	2556.5	2616.0	2264.2	2148.8	2208.3
47.5°	2220.9	2215.5	1825.8	1748.2	1665.2
50°	1755.5	1813.2	1448.7	1304.4	820.9
52.5°	1371.2	1392.8	1194.4	833.5	539.4
55°	1178.1	1120.4	1033.8	662.1	461.9
57.5°	1046.4	974.2	916.5	615.2	422.2
60°	954.4	873.2	829.9	584.5	387.9
62.5°	849.8	786.6	770.4	557.5	357.2
65°	750.5	701.8	700.0	532.2	328.4
67.5°	651.3	624.2	631.5	501.6	295.9
70°	555.7	550.3	555.7	461.9	261.6
72.5°	474.5	469.1	483.5	411.3	223.7
75°	398.7	393.3	409.5	353.6	191.2
77.5°	317.5	321.1	332.0	294.1	160.6
80°	247.2	247.2	259.8	230.9	131.7
82.5°	176.8	178.6	185.8	169.6	102.8
85°	108.2	108.2	113.7	111.9	72.2
87.5°	36.1	41.5	48.7	52.3	36.1
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	16.81	18.16	17.17	18.47	18.79	13.14	14.49	13.50	14.81	15.12
	3H	18.55	19.75	18.93	20.08	20.45	15.12	16.32	15.50	16.65	17.02
	4H	19.22	20.34	19.62	20.70	21.08	15.82	16.95	16.22	17.30	17.68
	6H	19.72	20.76	20.14	21.13	21.53	16.34	17.38	16.76	17.75	18.14
	8H	19.90	20.88	20.32	21.27	21.68	16.53	17.51	16.96	17.90	18.31
	12H	20.01	20.95	20.44	21.33	21.76	16.67	17.61	17.10	17.99	18.42
4H	2H	17.34	18.47	17.74	18.82	19.20	14.76	15.89	15.16	16.24	16.62
	3H	19.32	20.25	19.73	20.65	21.05	16.94	17.87	17.35	18.27	18.68
	4H	20.12	20.95	20.55	21.37	21.81	17.82	18.66	18.25	19.07	19.52
	6H	20.76	21.48	21.22	21.93	22.39	18.46	19.19	18.92	19.63	20.10
	8H	20.98	21.66	21.45	22.10	22.57	18.67	19.35	19.14	19.79	20.26
	12H	21.13	21.73	21.62	22.22	22.69	18.83	19.43	19.31	19.91	20.38
8H	4H	20.40	21.08	20.87	21.52	21.99	18.47	19.15	18.94	19.59	20.06
	6H	21.18	21.74	21.69	22.24	22.72	19.33	19.89	19.83	20.38	20.86
	8H	21.49	21.99	22.01	22.50	22.99	19.66	20.16	20.18	20.67	21.16
	12H	21.72	22.16	22.23	22.66	23.23	19.92	20.36	20.43	20.86	21.43
12H	4H	20.42	21.02	20.90	21.50	21.97	18.54	19.14	19.03	19.62	20.10
	6H	21.24	21.74	21.76	22.25	22.74	19.47	19.97	19.99	20.48	20.97
	8H	21.60	22.04	22.11	22.54	23.11	19.88	20.32	20.39	20.82	21.38