

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: P895446

Luminaire Tested: 8TMB-SC3-LVRA-UNV-CC83-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895446
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-MID-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 4000K CCT, MI lumen setting
Light Source: -
Ballast/Driver: -

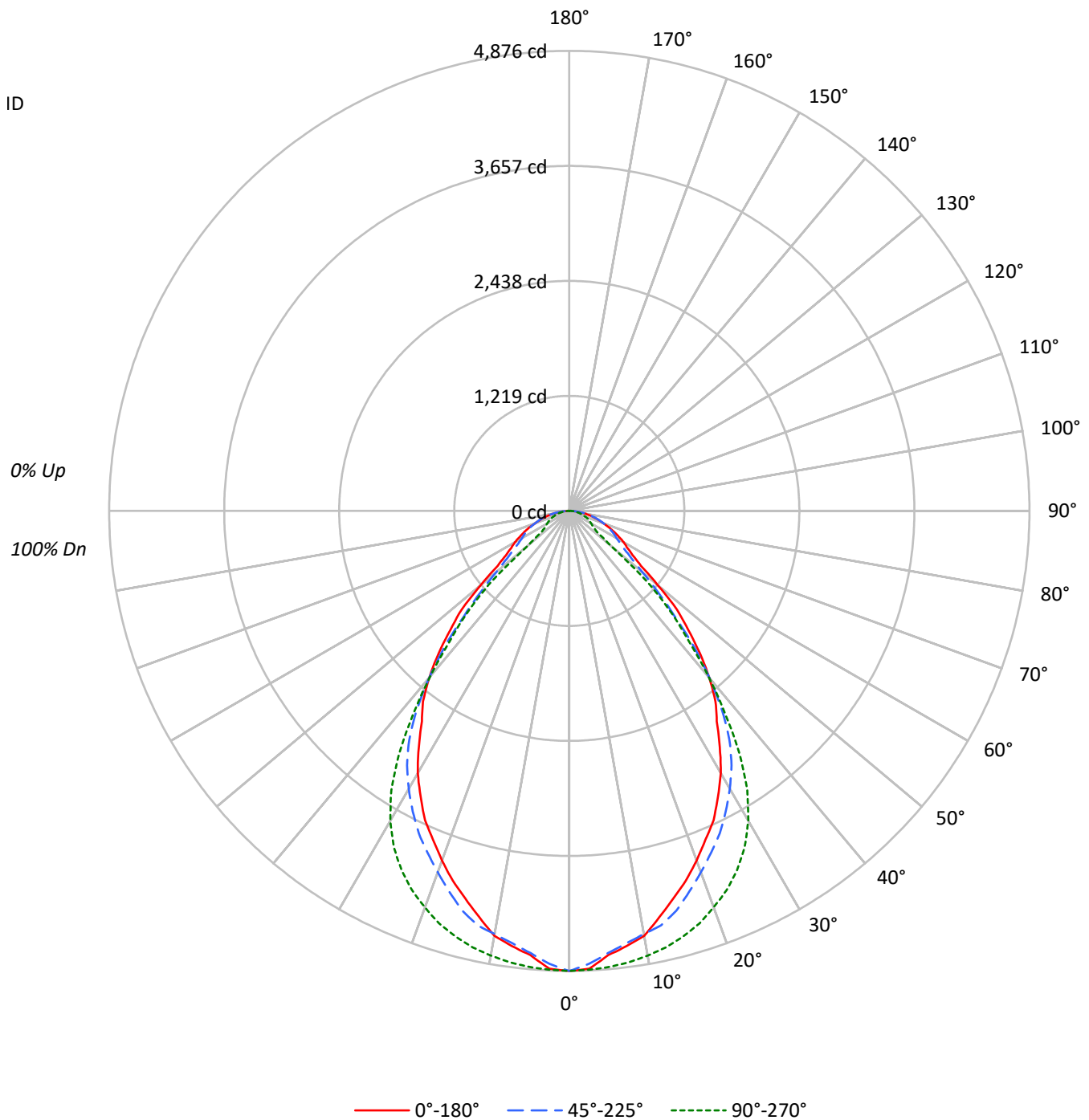
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7914.0 lumens
Efficiency: N/A
Efficacy: 118.3 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): 66.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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		0	
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	100	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	78	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45	45	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41	41	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17302	17302	17302
5°	16835	16759	17283
10°	16477	16405	17243
15°	15627	16107	17145
20°	14886	15389	16884
25°	14160	14766	16453
30°	13156	13939	15535
35°	11796	12809	13626
40°	10687	10711	10653
45°	8936	7914	7719
50°	6750	5571	3156
55°	5077	4455	1990
60°	4718	4102	1917
65°	4389	4094	1920
70°	4016	4016	1890
75°	3807	3911	1826
80°	3519	3698	1874
85°	3070	3224	2048

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9144 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.4	5.7
10°-20°	1241.1	15.7
20°-30°	1759.9	22.2
30°-40°	1813.1	22.9
40°-50°	1266.4	16.0
50°-60°	607.7	7.7
60°-70°	426.3	5.4
70°-80°	266.6	3.4
80°-90°	82.4	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°	3451.5	43.6
0°-40°	5264.6	66.5
0°-60°	7138.7	90.2
0°-90°	7914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4876	4876	4876	4876	4876	
5°	4727	4720	4705	4828	4852	447
15°	4254	4286	4385	4511	4668	1198
25°	3617	3653	3772	4027	4203	1654
35°	2723	2798	2957	3019	3146	1716
45°	1781	1822	1577	1497	1538	1372
55°	821	780	720	461	322	769
65°	523	489	488	371	229	518
75°	278	274	285	246	133	292
85°	75	75	79	78	50	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4876.3	4876.3	4876.3	4876.3	4876.3
2.5°	4857.4	4842.3	4805.9	4872.5	4867.5
5°	4726.7	4720.4	4705.3	4828.5	4852.4
7.5°	4652.6	4640.0	4622.4	4758.1	4824.7
10°	4573.4	4588.5	4553.3	4677.7	4785.8
12.5°	4410.0	4450.2	4498.0	4594.8	4738.0
15°	4254.2	4285.6	4384.9	4510.6	4667.6
17.5°	4108.4	4144.8	4230.3	4418.8	4586.0
20°	3942.5	3992.8	4075.7	4317.0	4471.6
22.5°	3771.6	3818.1	3922.4	4181.3	4353.5
25°	3617.0	3653.4	3771.6	4026.7	4202.6
27.5°	3412.1	3480.0	3591.9	3838.2	4022.9
30°	3211.0	3268.9	3402.1	3609.4	3791.7
32.5°	2968.5	3052.7	3199.7	3358.1	3510.2
35°	2723.4	2797.6	2957.2	3018.8	3145.7
37.5°	2545.0	2565.1	2655.6	2648.0	2719.7
40°	2307.4	2347.6	2312.5	2218.2	2299.9
42.5°	2051.0	2098.8	1956.8	1847.5	1876.4
45°	1780.8	1822.3	1577.2	1496.8	1538.3
47.5°	1547.1	1543.3	1271.9	1217.8	1160.0
50°	1222.8	1263.1	1009.2	908.6	571.8
52.5°	955.1	970.2	832.0	580.6	375.8
55°	820.7	780.5	720.1	461.2	321.7
57.5°	728.9	678.7	638.4	428.6	294.1
60°	664.8	608.3	578.1	407.2	270.2
62.5°	591.9	548.0	536.6	388.3	248.8
65°	522.8	488.9	487.6	370.7	228.7
67.5°	453.7	434.8	439.9	349.4	206.1
70°	387.1	383.3	387.1	321.7	182.2
72.5°	330.5	326.8	336.8	286.5	155.8
75°	277.7	274.0	285.3	246.3	133.2
77.5°	221.2	223.7	231.2	204.9	111.9
80°	172.2	172.2	181.0	160.9	91.7
82.5°	123.2	124.4	129.4	118.1	71.6
85°	75.4	75.4	79.2	77.9	50.3
87.5°	25.1	28.9	33.9	36.4	25.1
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	15.55	16.91	15.92	17.22	17.53	11.88	13.24	12.25	13.55	13.87
	3H	17.29	18.50	17.67	18.83	19.19	13.86	15.07	14.24	15.40	15.76
	4H	17.96	19.09	18.36	19.44	19.82	14.56	15.69	14.97	16.04	16.42
	6H	18.47	19.51	18.88	19.88	20.27	15.09	16.13	15.50	16.50	16.89
	8H	18.64	19.63	19.07	20.02	20.42	15.27	16.26	15.70	16.65	17.05
	12H	18.75	19.69	19.18	20.07	20.50	15.41	16.35	15.84	16.74	17.17
4H	2H	16.08	17.21	16.48	17.56	17.94	13.51	14.63	13.91	14.98	15.37
	3H	18.06	18.99	18.47	19.39	19.80	15.68	16.61	16.10	17.02	17.42
	4H	18.86	19.70	19.30	20.12	20.56	16.56	17.40	17.00	17.82	18.26
	6H	19.50	20.23	19.97	20.67	21.14	17.21	17.93	17.67	18.38	18.84
	8H	19.72	20.40	20.19	20.85	21.32	17.42	18.09	17.88	18.54	19.01
	12H	19.88	20.48	20.36	20.96	21.43	17.57	18.17	18.06	18.66	19.13
8H	4H	19.15	19.82	19.61	20.27	20.74	17.21	17.89	17.68	18.34	18.81
	6H	19.93	20.48	20.43	20.98	21.46	18.07	18.63	18.57	19.12	19.60
	8H	20.23	20.73	20.75	21.24	21.73	18.40	18.90	18.92	19.41	19.91
	12H	20.47	20.91	20.98	21.40	21.97	18.66	19.11	19.18	19.60	20.17
12H	4H	19.16	19.76	19.65	20.24	20.72	17.28	17.88	17.77	18.37	18.84
	6H	19.98	20.48	20.50	20.99	21.49	18.21	18.71	18.73	19.22	19.72
	8H	20.35	20.79	20.86	21.28	21.85	18.62	19.06	19.14	19.56	20.13