

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: P895429

Luminaire Tested: 8TMB-SC3-LVR-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-LVR-UNV-CC83-MID-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 5000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

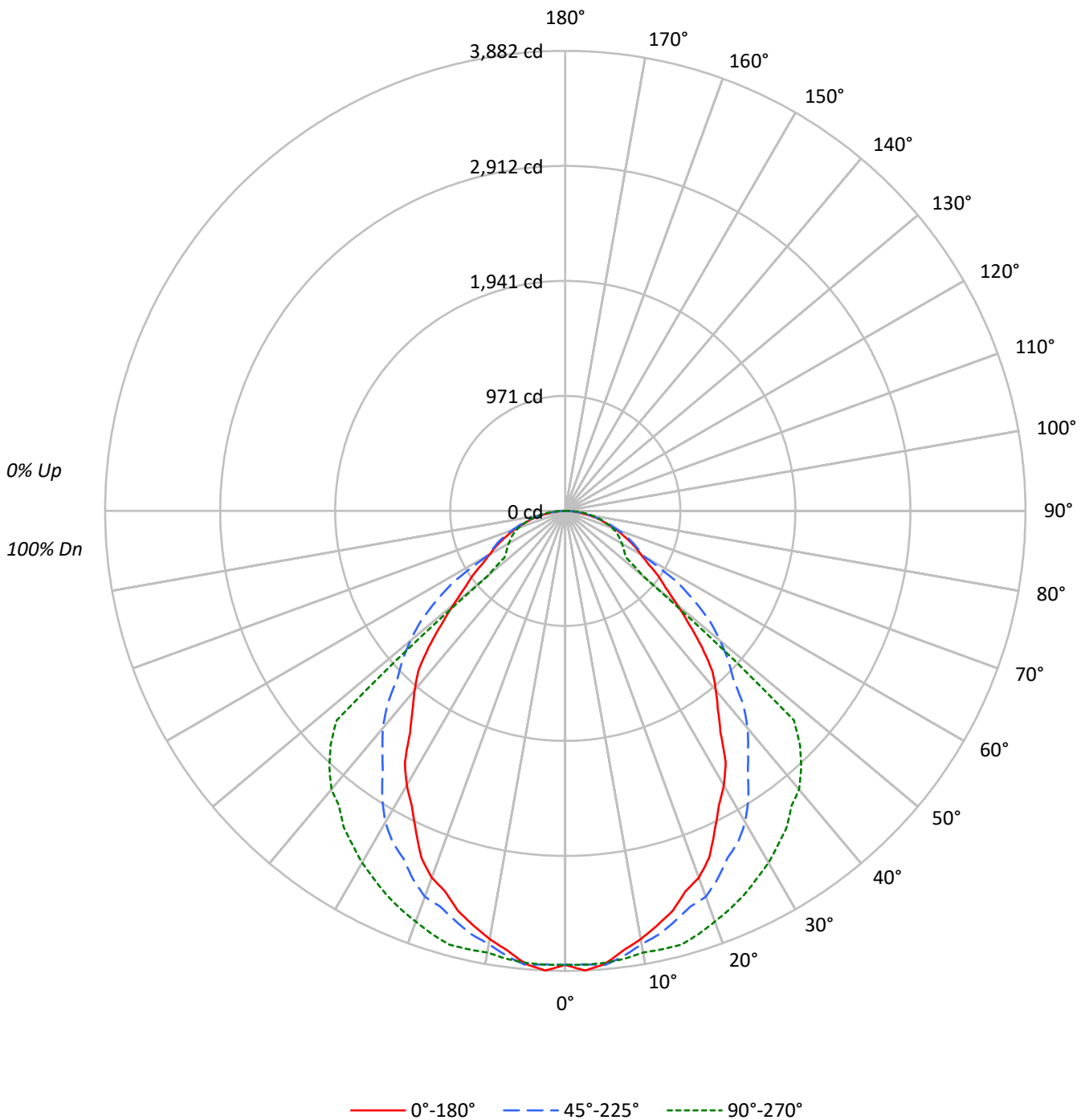
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8176.0 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
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 (A_{in}): 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	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	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13594	13594	13594
5°	13667	13701	13632
10°	13219	13373	13634
15°	12837	13161	13915
20°	12435	13085	13927
25°	11667	12663	13988
30°	10959	12434	14045
35°	9883	11628	14112
40°	9154	11093	14211
45°	8189	10054	14050
50°	6794	9419	4720
55°	5919	8267	3777
60°	5235	5387	3916
65°	4978	5241	4157
70°	4668	4953	4385
75°	4346	4668	4506
80°	3958	4397	4718
85°	3505	3745	5097

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 14050 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.4	4.4
10°-20°	1022.3	12.5
20°-30°	1503.8	18.4
30°-40°	1719.8	21.0
40°-50°	1628.5	19.9
50°-60°	897.2	11.0
60°-70°	576.1	7.0
70°-80°	355.5	4.3
80°-90°	109.4	1.3
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°	2889.5	35.3
0°-40°	4609.3	56.4
0°-60°	7135.0	87.3
0°-90°	8176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8176.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3831	3831	3831	3831	3831	
5°	3837	3868	3847	3847	3827	360
15°	3495	3538	3583	3771	3788	981
25°	2980	3113	3234	3446	3573	1372
35°	2282	2477	2685	3074	3258	1442
45°	1632	1786	2004	2571	2800	1248
55°	957	1004	1336	689	610	856
65°	593	612	624	556	495	587
75°	317	323	340	358	329	337
85°	86	86	92	106	125	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3831.3	3831.3	3831.3	3831.3	3831.3
2.5°	3882.2	3891.9	3829.3	3827.4	3833.2
5°	3837.2	3868.5	3846.9	3846.9	3827.4
7.5°	3741.3	3794.1	3788.2	3833.2	3811.7
10°	3668.9	3711.9	3711.9	3829.3	3784.3
12.5°	3582.8	3631.7	3659.1	3782.4	3788.2
15°	3494.7	3537.8	3582.8	3770.6	3788.2
17.5°	3367.5	3445.8	3502.6	3686.5	3743.2
20°	3293.2	3340.1	3465.4	3614.1	3688.4
22.5°	3169.9	3238.4	3359.7	3526.0	3635.6
25°	2980.1	3113.2	3234.5	3445.8	3573.0
27.5°	2804.0	2903.8	3154.3	3377.3	3498.6
30°	2674.9	2753.1	3034.9	3277.5	3428.2
32.5°	2518.3	2645.5	2874.4	3179.7	3340.1
35°	2281.6	2477.2	2684.6	3074.0	3258.0
37.5°	2115.2	2250.2	2532.0	2964.5	3134.7
40°	1976.3	2099.6	2395.0	2827.5	3068.2
42.5°	1837.4	1937.2	2222.9	2725.7	2944.9
45°	1631.9	1786.5	2003.7	2571.1	2800.1
47.5°	1416.7	1581.0	1860.9	2440.0	2616.2
50°	1230.8	1361.9	1706.3	2179.8	855.1
52.5°	1068.4	1189.7	1541.9	788.6	645.7
55°	956.8	1003.8	1336.4	688.8	610.5
57.5°	823.8	900.1	1121.2	655.5	579.2
60°	737.7	771.0	759.2	622.2	551.8
62.5°	669.2	692.7	688.8	589.0	520.5
65°	592.9	612.5	624.2	555.7	495.1
67.5°	516.6	534.2	551.8	514.6	459.8
70°	450.0	461.8	477.4	465.7	422.7
72.5°	381.6	395.3	405.0	414.8	373.7
75°	317.0	322.9	340.5	358.1	328.7
77.5°	258.3	264.2	275.9	295.5	279.8
80°	193.7	199.6	215.2	230.9	230.9
82.5°	137.0	140.9	150.7	172.2	182.0
85°	86.1	86.1	92.0	105.7	125.2
87.5°	33.3	33.3	39.1	47.0	62.6
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	17.02	18.50	17.38	18.81	19.13	14.82	16.30	15.18	16.62	16.93
	3H	18.54	19.87	18.92	20.20	20.56	17.15	18.48	17.53	18.80	19.17
	4H	19.14	20.38	19.54	20.73	21.11	18.10	19.34	18.50	19.69	20.07
	6H	19.59	20.74	20.01	21.11	21.50	18.88	20.03	19.30	20.40	20.79
	8H	19.74	20.83	20.16	21.22	21.62	19.20	20.29	19.62	20.68	21.08
	12H	19.83	20.88	20.26	21.26	21.69	19.44	20.49	19.87	20.87	21.30
4H	2H	17.57	18.81	17.97	19.16	19.54	15.92	17.17	16.32	17.52	17.90
	3H	19.34	20.37	19.75	20.77	21.17	18.37	19.40	18.78	19.80	20.20
	4H	20.06	20.99	20.49	21.40	21.84	19.44	20.36	19.87	20.78	21.22
	6H	20.65	21.45	21.10	21.89	22.35	20.32	21.13	20.78	21.57	22.03
	8H	20.83	21.59	21.30	22.03	22.50	20.67	21.43	21.14	21.87	22.34
	12H	20.97	21.64	21.45	22.12	22.59	20.96	21.64	21.45	22.12	22.59
8H	4H	20.37	21.12	20.83	21.56	22.03	19.82	20.57	20.29	21.02	21.49
	6H	21.08	21.70	21.58	22.19	22.67	20.86	21.48	21.36	21.97	22.45
	8H	21.34	21.90	21.85	22.41	22.90	21.30	21.86	21.82	22.37	22.86
	12H	21.55	22.05	22.06	22.54	23.11	21.69	22.19	22.20	22.68	23.24
12H	4H	20.40	21.08	20.89	21.55	22.03	19.86	20.53	20.34	21.01	21.48
	6H	21.14	21.71	21.66	22.22	22.70	20.92	21.48	21.44	21.99	22.48
	8H	21.46	21.96	21.97	22.45	23.02	21.43	21.93	21.94	22.42	22.99