

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: P895456

Luminaire Tested: 8TMB-SC3-LVRA-UNV-CC93-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895456
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-MID-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT, MI lumen setting
Light Source: -
Ballast/Driver: -

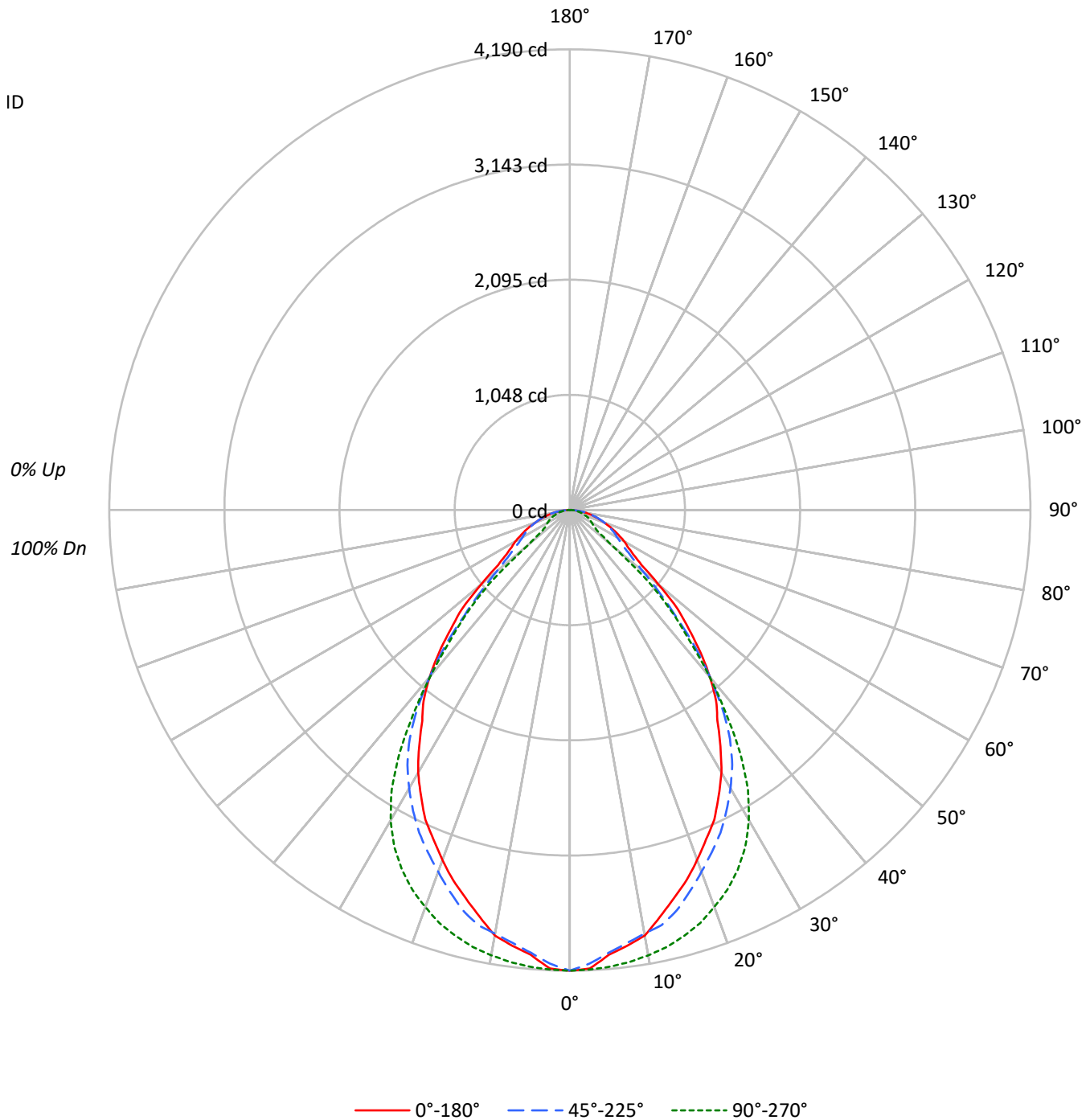
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6800.0 lumens
Efficiency: N/A
Efficacy: 101.6 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	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°	14866	14866	14866
5°	14465	14400	14850
10°	14158	14096	14815
15°	13427	13840	14732
20°	12791	13223	14508
25°	12167	12687	14137
30°	11304	11976	13348
35°	10136	11006	11708
40°	9183	9203	9153
45°	7678	6800	6633
50°	5800	4786	2712
55°	4362	3828	1710
60°	4053	3525	1648
65°	3771	3518	1650
70°	3450	3450	1625
75°	3271	3360	1570
80°	3022	3177	1610
85°	2638	2768	1759

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7857 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.0	5.7
10°-20°	1066.4	15.7
20°-30°	1512.2	22.2
30°-40°	1557.9	22.9
40°-50°	1088.1	16.0
50°-60°	522.1	7.7
60°-70°	366.3	5.4
70°-80°	229.0	3.4
80°-90°	70.8	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°	2965.6	43.6
0°-40°	4523.5	66.5
0°-60°	6133.8	90.2
0°-90°	6800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4190	4190	4190	4190	4190	
5°	4061	4056	4043	4149	4169	384
15°	3655	3682	3768	3876	4011	1029
25°	3108	3139	3241	3460	3611	1421
35°	2340	2404	2541	2594	2703	1475
45°	1530	1566	1355	1286	1322	1179
55°	705	671	619	396	276	661
65°	449	420	419	319	196	445
75°	239	235	245	212	114	251
85°	65	65	68	67	43	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4189.9	4189.9	4189.9	4189.9	4189.9
2.5°	4173.7	4160.7	4129.4	4186.6	4182.3
5°	4061.4	4056.0	4043.0	4148.8	4169.4
7.5°	3997.7	3986.9	3971.7	4088.4	4145.6
10°	3929.6	3942.6	3912.3	4019.3	4112.1
12.5°	3789.2	3823.8	3864.8	3948.0	4071.1
15°	3655.3	3682.3	3767.6	3875.6	4010.6
17.5°	3530.1	3561.4	3634.8	3796.8	3940.4
20°	3387.5	3430.7	3502.0	3709.3	3842.2
22.5°	3240.7	3280.6	3370.3	3592.7	3740.6
25°	3107.8	3139.2	3240.7	3459.9	3611.1
27.5°	2931.8	2990.1	3086.3	3297.9	3456.6
30°	2759.1	2808.7	2923.2	3101.4	3257.9
32.5°	2550.6	2623.0	2749.3	2885.4	3016.1
35°	2340.1	2403.8	2540.9	2593.8	2702.9
37.5°	2186.7	2204.0	2281.8	2275.3	2336.8
40°	1982.6	2017.2	1986.9	1906.0	1976.2
42.5°	1762.3	1803.4	1681.3	1587.4	1612.2
45°	1530.2	1565.8	1355.2	1286.1	1321.8
47.5°	1329.3	1326.1	1092.8	1046.4	996.7
50°	1050.7	1085.3	867.1	780.7	491.3
52.5°	820.7	833.7	714.9	498.9	322.9
55°	705.2	670.6	618.8	396.3	276.4
57.5°	626.3	583.1	548.6	368.2	252.7
60°	571.2	522.7	496.7	349.9	232.2
62.5°	508.6	470.8	461.1	333.7	213.8
65°	449.2	420.1	419.0	318.6	196.5
67.5°	389.8	373.6	378.0	300.2	177.1
70°	332.6	329.4	332.6	276.4	156.6
72.5°	284.0	280.8	289.4	246.2	133.9
75°	238.6	235.4	245.1	211.7	114.5
77.5°	190.1	192.2	198.7	176.0	96.1
80°	147.9	147.9	155.5	138.2	78.8
82.5°	105.8	106.9	111.2	101.5	61.6
85°	64.8	64.8	68.0	67.0	43.2
87.5°	21.6	24.8	29.2	31.3	21.6
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	15.02	16.38	15.39	16.69	17.01	11.36	12.71	11.72	13.02	13.34
	3H	16.76	17.97	17.14	18.30	18.66	13.33	14.54	13.71	14.87	15.23
	4H	17.43	18.56	17.84	18.91	19.29	14.04	15.16	14.44	15.51	15.90
	6H	17.94	18.98	18.36	19.35	19.74	14.56	15.60	14.97	15.97	16.36
	8H	18.11	19.10	18.54	19.49	19.89	14.75	15.73	15.17	16.12	16.53
	12H	18.22	19.16	18.65	19.55	19.98	14.88	15.83	15.32	16.21	16.64
4H	2H	15.55	16.68	15.96	17.03	17.41	12.98	14.11	13.38	14.46	14.84
	3H	17.53	18.46	17.94	18.87	19.27	15.16	16.09	15.57	16.49	16.89
	4H	18.33	19.17	18.77	19.59	20.03	16.04	16.87	16.47	17.29	17.73
	6H	18.98	19.70	19.44	20.15	20.61	16.68	17.40	17.14	17.85	18.31
	8H	19.20	19.87	19.66	20.32	20.79	16.89	17.56	17.36	18.01	18.48
	12H	19.35	19.95	19.84	20.43	20.91	17.05	17.65	17.53	18.13	18.60
8H	4H	18.62	19.29	19.09	19.74	20.21	16.69	17.36	17.15	17.81	18.28
	6H	19.40	19.96	19.90	20.45	20.93	17.55	18.10	18.05	18.60	19.08
	8H	19.70	20.20	20.22	20.72	21.21	17.87	18.37	18.39	18.89	19.38
	12H	19.94	20.38	20.45	20.87	21.44	18.14	18.58	18.65	19.07	19.64
12H	4H	18.63	19.24	19.12	19.72	20.19	16.76	17.36	17.24	17.84	18.31
	6H	19.45	19.95	19.97	20.47	20.96	17.68	18.18	18.20	18.70	19.19
	8H	19.82	20.26	20.33	20.75	21.32	18.10	18.54	18.61	19.03	19.60