

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: P895243

Luminaire Tested: 8TMB-8SL-LVRA-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895243
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-8SL-LVRA-UNV-L940
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

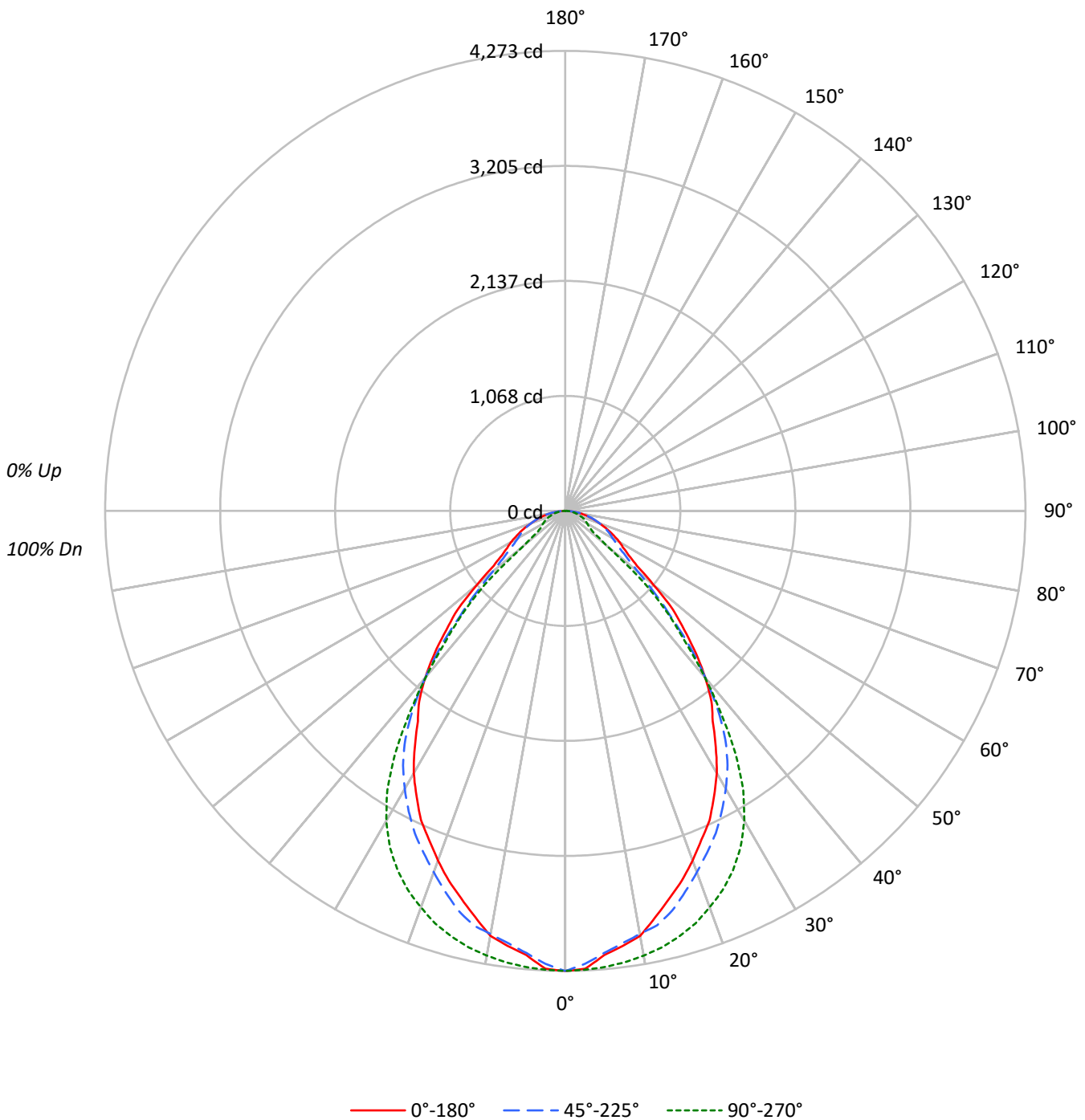
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6935.0 lumens
Efficiency: N/A
Efficacy: 116.4 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): 59.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 3.8
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°	15162	15162	15162
5°	14753	14686	15145
10°	14439	14375	15110
15°	13694	14114	15025
20°	13045	13485	14795
25°	12408	12939	14418
30°	11528	12214	13613
35°	10337	11225	11940
40°	9365	9386	9335
45°	7830	6935	6764
50°	5915	4881	2766
55°	4449	3903	1744
60°	4134	3595	1680
65°	3846	3587	1682
70°	3519	3519	1657
75°	3337	3427	1600
80°	3083	3241	1643
85°	2691	2825	1795

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8013 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.7	5.7
10°-20°	1087.6	15.7
20°-30°	1542.2	22.2
30°-40°	1588.8	22.9
40°-50°	1109.7	16.0
50°-60°	532.5	7.7
60°-70°	373.6	5.4
70°-80°	233.6	3.4
80°-90°	72.2	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°	3024.5	43.6
0°-40°	4613.4	66.5
0°-60°	6255.6	90.2
0°-90°	6935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4273	4273	4273	4273	4273	
5°	4142	4136	4123	4231	4252	392
15°	3728	3755	3842	3953	4090	1050
25°	3170	3202	3305	3529	3683	1449
35°	2386	2452	2591	2645	2757	1504
45°	1560	1597	1382	1312	1348	1202
55°	719	684	631	404	282	674
65°	458	428	427	325	200	454
75°	243	240	250	216	117	256
85°	66	66	69	68	44	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4273.1	4273.1	4273.1	4273.1	4273.1
2.5°	4256.5	4243.3	4211.4	4269.7	4265.3
5°	4142.0	4136.5	4123.3	4231.2	4252.1
7.5°	4077.0	4066.0	4050.6	4169.5	4227.9
10°	4007.6	4020.9	3990.0	4099.0	4193.8
12.5°	3864.5	3899.7	3941.6	4026.4	4151.9
15°	3727.9	3755.4	3842.4	3952.6	4090.2
17.5°	3600.2	3632.1	3707.0	3872.2	4018.7
20°	3454.8	3498.8	3571.5	3783.0	3918.4
22.5°	3305.0	3345.8	3437.2	3664.0	3814.9
25°	3169.5	3201.5	3305.0	3528.6	3682.8
27.5°	2990.0	3049.5	3147.5	3363.4	3525.3
30°	2813.8	2864.5	2981.2	3162.9	3322.6
32.5°	2601.3	2675.1	2803.9	2942.7	3075.9
35°	2386.5	2451.5	2591.4	2645.3	2756.6
37.5°	2230.1	2247.8	2327.1	2320.4	2383.2
40°	2022.0	2057.2	2026.4	1943.8	2015.4
42.5°	1797.3	1839.2	1714.7	1618.9	1644.2
45°	1560.5	1596.9	1382.1	1311.7	1348.0
47.5°	1355.7	1352.4	1114.5	1067.2	1016.5
50°	1071.6	1106.8	884.3	796.2	501.1
52.5°	837.0	850.2	729.1	508.8	329.3
55°	719.2	683.9	631.0	404.2	281.9
57.5°	638.8	594.7	559.5	375.5	257.7
60°	582.6	533.0	506.6	356.8	236.8
62.5°	518.7	480.2	470.3	340.3	218.1
65°	458.1	428.4	427.3	324.9	200.4
67.5°	397.6	381.1	385.5	306.2	180.6
70°	339.2	335.9	339.2	281.9	159.7
72.5°	289.6	286.3	295.1	251.1	136.6
75°	243.4	240.1	250.0	215.9	116.7
77.5°	193.8	196.0	202.6	179.5	98.0
80°	150.9	150.9	158.6	141.0	80.4
82.5°	107.9	109.0	113.4	103.5	62.8
85°	66.1	66.1	69.4	68.3	44.1
87.5°	22.0	25.3	29.7	31.9	22.0
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	15.09	16.45	15.46	16.76	17.07	11.42	12.78	11.79	13.09	13.41
	3H	16.83	18.04	17.21	18.37	18.73	13.40	14.61	13.78	14.94	15.30
	4H	17.50	18.63	17.90	18.98	19.36	14.11	15.23	14.51	15.58	15.97
	6H	18.01	19.05	18.42	19.42	19.81	14.63	15.67	15.04	16.04	16.43
	8H	18.18	19.17	18.61	19.56	19.96	14.81	15.80	15.24	16.19	16.59
	12H	18.29	19.23	18.72	19.62	20.05	14.95	15.90	15.39	16.28	16.71
4H	2H	15.62	16.75	16.03	17.10	17.48	13.05	14.17	13.45	14.52	14.91
	3H	17.60	18.53	18.01	18.93	19.34	15.22	16.16	15.64	16.56	16.96
	4H	18.40	19.24	18.84	19.66	20.10	16.10	16.94	16.54	17.36	17.80
	6H	19.05	19.77	19.51	20.22	20.68	16.75	17.47	17.21	17.92	18.38
	8H	19.27	19.94	19.73	20.39	20.86	16.96	17.63	17.42	18.08	18.55
	12H	19.42	20.02	19.90	20.50	20.97	17.11	17.71	17.60	18.20	18.67
8H	4H	18.69	19.36	19.15	19.81	20.28	16.75	17.43	17.22	17.88	18.35
	6H	19.47	20.03	19.97	20.52	21.00	17.61	18.17	18.12	18.67	19.15
	8H	19.77	20.27	20.29	20.78	21.28	17.94	18.44	18.46	18.96	19.45
	12H	20.01	20.45	20.52	20.94	21.51	18.21	18.65	18.72	19.14	19.71
12H	4H	18.70	19.30	19.19	19.79	20.26	16.83	17.43	17.31	17.91	18.38
	6H	19.52	20.02	20.04	20.54	21.03	17.75	18.25	18.27	18.77	19.26
	8H	19.89	20.33	20.40	20.82	21.39	18.17	18.61	18.68	19.10	19.67