

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: P895422

Luminaire Tested: 8TMB-SC3-LVR-UNV-CC83-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895422
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-HI-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 4000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

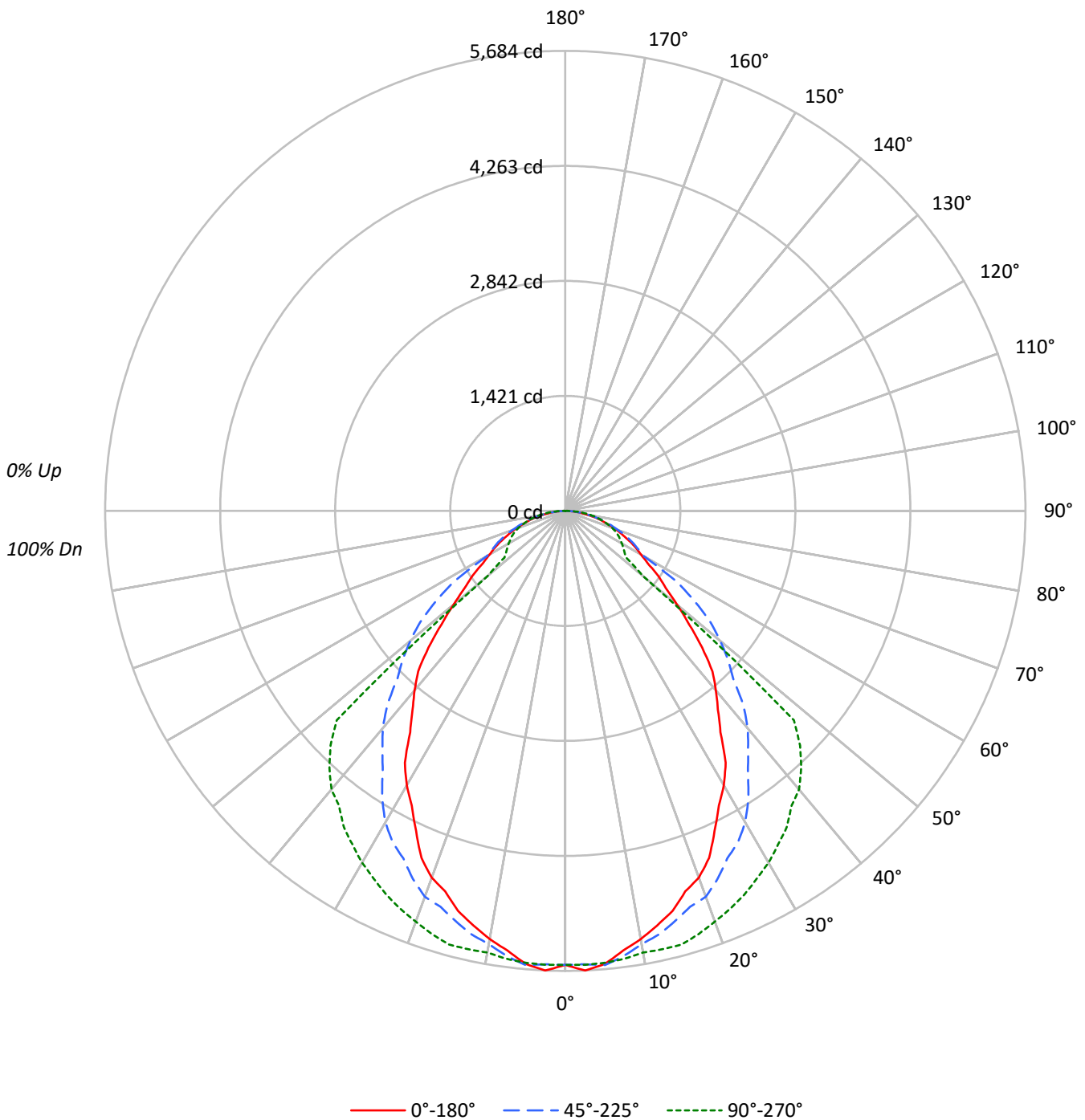
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11971.0 lumens
Efficiency: N/A
Efficacy: 118.1 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): 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			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°	19904	19904	19904
5°	20010	20062	19959
10°	19354	19581	19963
15°	18796	19269	20374
20°	18206	19158	20391
25°	17082	18540	20481
30°	16046	18206	20565
35°	14470	17026	20662
40°	13402	16242	20807
45°	11990	14721	20572
50°	9947	13790	6911
55°	8667	12105	5530
60°	7665	7888	5733
65°	7288	7673	6085
70°	6835	7253	6419
75°	6362	6834	6598
80°	5795	6438	6908
85°	5134	5484	7466

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 20572 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.1	4.4
10°-20°	1496.8	12.5
20°-30°	2201.9	18.4
30°-40°	2518.0	21.0
40°-50°	2384.3	19.9
50°-60°	1313.7	11.0
60°-70°	843.4	7.0
70°-80°	520.5	4.3
80°-90°	160.2	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°	4230.7	35.3
0°-40°	6748.8	56.4
0°-60°	10446.8	87.3
0°-90°	11971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5610	5610	5610	5610	5610	
5°	5618	5664	5633	5633	5604	527
15°	5117	5180	5246	5521	5547	1437
25°	4363	4558	4736	5045	5232	2009
35°	3341	3627	3931	4501	4770	2112
45°	2389	2616	2934	3765	4100	1828
55°	1401	1470	1957	1008	894	1253
65°	868	897	914	814	725	859
75°	464	473	498	524	481	494
85°	126	126	135	155	183	141
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5609.6	5609.6	5609.6	5609.6	5609.6
2.5°	5684.1	5698.4	5606.8	5603.9	5612.5
5°	5618.2	5664.1	5632.6	5632.6	5603.9
7.5°	5477.8	5555.2	5546.6	5612.5	5581.0
10°	5371.8	5434.9	5434.9	5606.8	5540.9
12.5°	5245.8	5317.4	5357.5	5538.0	5546.6
15°	5116.9	5179.9	5245.8	5520.8	5546.6
17.5°	4930.6	5045.2	5128.3	5397.6	5480.7
20°	4821.8	4890.5	5073.9	5291.6	5400.5
22.5°	4641.3	4741.5	4919.2	5162.7	5323.1
25°	4363.4	4558.2	4735.8	5045.2	5231.5
27.5°	4105.5	4251.6	4618.3	4945.0	5122.6
30°	3916.4	4031.0	4443.6	4798.8	5019.4
32.5°	3687.2	3873.5	4208.7	4655.6	4890.5
35°	3340.6	3627.1	3930.8	4500.9	4770.2
37.5°	3097.0	3294.7	3707.3	4340.4	4589.7
40°	2893.6	3074.1	3506.7	4139.9	4492.3
42.5°	2690.2	2836.3	3254.6	3990.9	4311.8
45°	2389.4	2615.7	2933.7	3764.6	4099.8
47.5°	2074.2	2314.9	2724.6	3572.6	3830.5
50°	1802.1	1994.0	2498.3	3191.6	1252.0
52.5°	1564.3	1741.9	2257.6	1154.6	945.4
55°	1401.0	1469.7	1956.8	1008.5	893.9
57.5°	1206.2	1317.9	1641.6	959.8	848.0
60°	1080.1	1128.8	1111.6	911.1	807.9
62.5°	979.8	1014.2	1008.5	862.4	762.1
65°	868.1	896.7	913.9	813.7	724.8
67.5°	756.4	782.1	807.9	753.5	673.3
70°	658.9	676.1	699.1	681.9	618.8
72.5°	558.7	578.7	593.1	607.4	547.2
75°	464.1	472.7	498.5	524.3	481.3
77.5°	378.2	386.8	404.0	432.6	409.7
80°	283.6	292.2	315.1	338.1	338.1
82.5°	200.5	206.3	220.6	252.1	266.4
85°	126.1	126.1	134.7	154.7	183.4
87.5°	48.7	48.7	57.3	68.8	91.7
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	18.34	19.82	18.71	20.14	20.45	16.14	17.63	16.51	17.94	18.25
	3H	19.87	21.19	20.25	21.52	21.88	18.47	19.80	18.85	20.13	20.49
	4H	20.46	21.70	20.86	22.05	22.43	19.42	20.67	19.82	21.02	21.40
	6H	20.92	22.06	21.33	22.43	22.82	20.21	21.36	20.62	21.72	22.12
	8H	21.06	22.15	21.49	22.54	22.94	20.52	21.61	20.95	22.00	22.40
	12H	21.16	22.20	21.59	22.58	23.01	20.77	21.81	21.20	22.20	22.63
4H	2H	18.89	20.14	19.29	20.48	20.86	17.25	18.49	17.65	18.84	19.22
	3H	20.66	21.69	21.08	22.09	22.50	19.69	20.72	20.10	21.12	21.52
	4H	21.38	22.31	21.82	22.73	23.17	20.76	21.69	21.19	22.10	22.54
	6H	21.97	22.77	22.43	23.22	23.68	21.65	22.45	22.11	22.90	23.36
	8H	22.16	22.91	22.62	23.36	23.82	22.00	22.75	22.46	23.20	23.66
	12H	22.30	22.97	22.78	23.45	23.92	22.29	22.96	22.77	23.44	23.91
8H	4H	21.69	22.44	22.16	22.89	23.36	21.15	21.90	21.61	22.34	22.81
	6H	22.40	23.03	22.90	23.52	24.00	22.18	22.81	22.68	23.30	23.78
	8H	22.66	23.23	23.18	23.74	24.23	22.63	23.19	23.14	23.70	24.19
	12H	22.87	23.37	23.38	23.86	24.43	23.01	23.51	23.52	24.00	24.57
12H	4H	21.73	22.40	22.21	22.88	23.35	21.18	21.85	21.66	22.33	22.81
	6H	22.47	23.03	22.98	23.54	24.03	22.25	22.81	22.76	23.32	23.81
	8H	22.79	23.29	23.30	23.78	24.34	22.75	23.25	23.26	23.75	24.31