

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: P895459

Luminaire Tested: 8TMB-SC3-LVRF-UNV-CC83-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-LVRF-UNV-CC83-HI-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 5000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

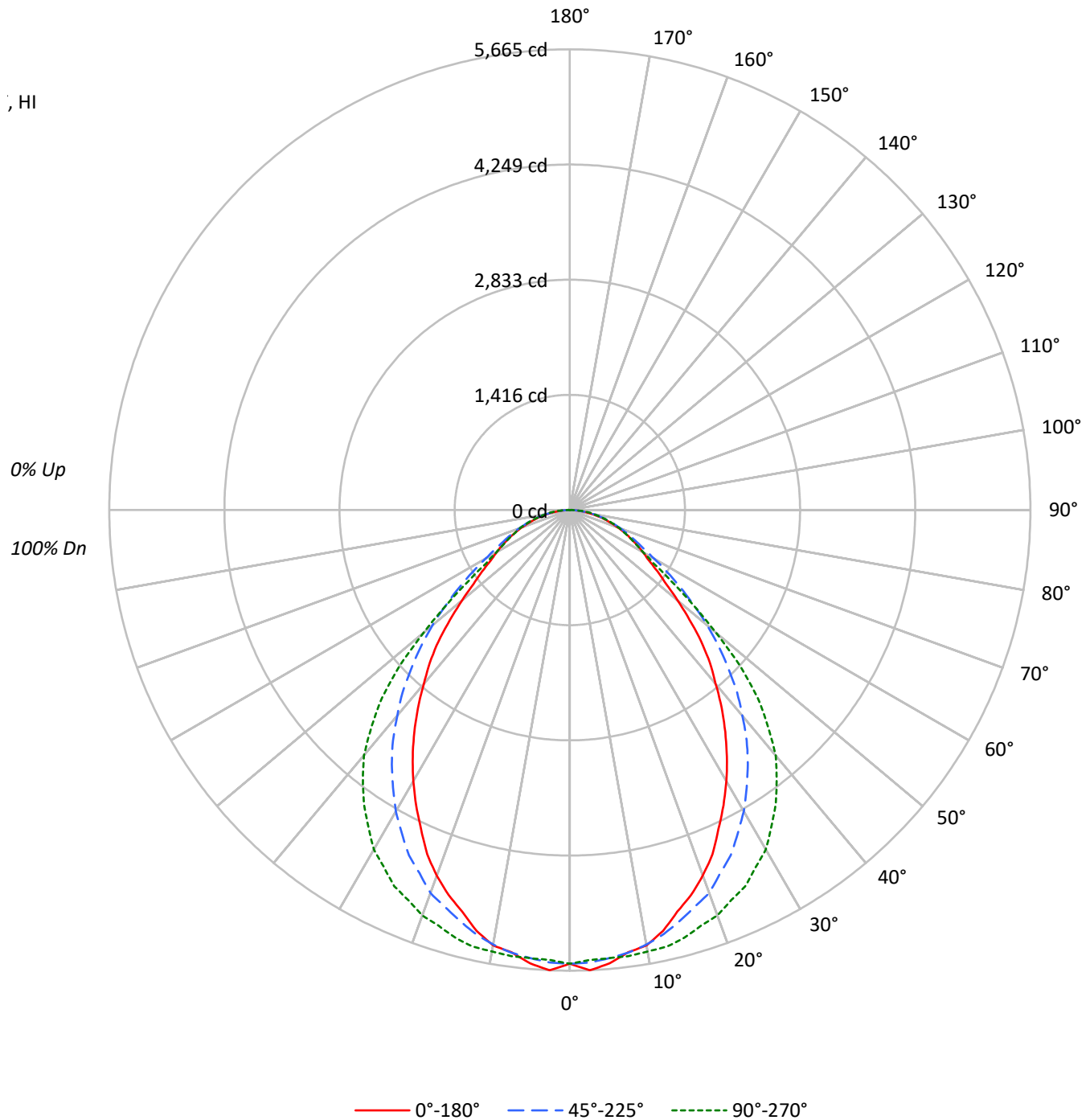
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11593.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
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	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	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	56	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	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19791	19791	19791
5°	19929	19702	19702
10°	19585	19554	19857
15°	18774	19211	20000
20°	18061	18926	20032
25°	16943	18340	19987
30°	15770	17529	19751
35°	14436	16535	19123
40°	12925	15289	18245
45°	11469	13842	16404
50°	9543	12185	12938
55°	8128	10264	9403
60°	7369	8481	7431
65°	6941	7428	6916
70°	6529	6891	6741
75°	6084	6561	6442
80°	5572	6046	6224
85°	4840	5313	6966

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 16404 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.1	4.6
10°-20°	1486.1	12.8
20°-30°	2158.0	18.6
30°-40°	2403.1	20.7
40°-50°	2123.1	18.3
50°-60°	1393.1	12.0
60°-70°	853.1	7.4
70°-80°	496.4	4.3
80°-90°	152.1	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°	4172.2	36.0
0°-40°	6575.3	56.7
0°-60°	10091.5	87.0
0°-90°	11593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5578	5578	5578	5578	5578	
5°	5595	5598	5532	5587	5532	528
15°	5111	5169	5230	5436	5445	1442
25°	4328	4432	4685	4983	5105	1991
35°	3333	3513	3817	4220	4415	2079
45°	2286	2425	2759	3130	3269	1749
55°	1314	1407	1659	1645	1520	1192
65°	827	841	885	859	824	822
75°	444	450	479	487	470	471
85°	119	125	130	148	171	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5578.0	5578.0	5578.0	5578.0	5578.0
2.5°	5665.0	5595.4	5569.3	5595.4	5537.4
5°	5595.4	5598.3	5531.6	5586.7	5531.6
7.5°	5485.2	5522.9	5491.0	5575.1	5531.6
10°	5435.9	5438.8	5427.2	5514.2	5511.3
12.5°	5299.6	5308.3	5340.2	5470.7	5499.7
15°	5111.0	5169.0	5229.9	5435.9	5444.6
17.5°	4963.1	5032.7	5113.9	5334.4	5360.5
20°	4783.2	4812.2	5012.4	5206.7	5305.4
22.5°	4583.1	4638.2	4832.5	5093.6	5192.2
25°	4327.8	4432.2	4684.6	4983.4	5105.2
27.5°	4092.9	4214.7	4475.8	4809.3	4951.5
30°	3849.2	3988.4	4278.5	4606.3	4820.9
32.5°	3596.9	3770.9	4046.5	4423.5	4612.1
35°	3332.9	3512.7	3817.3	4220.5	4414.8
37.5°	3068.9	3243.0	3573.6	4005.8	4179.9
40°	2790.5	2961.6	3301.0	3739.0	3939.1
42.5°	2549.7	2697.6	3045.7	3419.9	3605.6
45°	2285.7	2425.0	2758.6	3129.8	3269.1
47.5°	1995.7	2158.1	2483.0	2787.6	2842.7
50°	1728.8	1897.0	2207.4	2384.4	2343.8
52.5°	1493.9	1636.0	1920.3	1995.7	1899.9
55°	1314.0	1406.8	1659.2	1644.7	1520.0
57.5°	1148.7	1206.7	1421.3	1340.1	1221.2
60°	1038.4	1064.6	1195.1	1119.7	1047.1
62.5°	934.0	945.6	1015.2	974.6	919.5
65°	826.7	841.2	884.7	858.6	823.8
67.5°	728.1	733.9	774.5	768.7	725.2
70°	629.4	638.2	664.3	675.9	649.8
72.5°	533.7	542.4	568.5	580.1	556.9
75°	443.8	449.6	478.6	487.3	469.9
77.5°	356.8	368.4	385.8	400.3	380.0
80°	272.7	278.5	295.9	313.3	304.6
82.5°	191.4	200.1	211.8	235.0	240.8
85°	118.9	124.7	130.5	147.9	171.1
87.5°	46.4	49.3	58.0	63.8	84.1
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	17.90	19.38	18.27	19.70	20.01	18.55	20.03	18.92	20.35	20.66
	3H	19.50	20.83	19.88	21.16	21.52	19.99	21.31	20.37	21.64	22.01
	4H	20.12	21.36	20.52	21.71	22.09	20.59	21.84	20.99	22.19	22.57
	6H	20.59	21.74	21.00	22.10	22.50	21.08	22.23	21.49	22.59	22.99
	8H	20.74	21.83	21.17	22.22	22.63	21.28	22.37	21.71	22.76	23.16
	12H	20.84	21.89	21.27	22.27	22.70	21.45	22.49	21.88	22.87	23.30
4H	2H	18.52	19.77	18.92	20.12	20.49	19.05	20.29	19.45	20.64	21.02
	3H	20.34	21.37	20.75	21.77	22.17	20.74	21.77	21.16	22.17	22.58
	4H	21.08	22.01	21.52	22.42	22.86	21.50	22.42	21.93	22.84	23.28
	6H	21.68	22.48	22.14	22.93	23.39	22.13	22.94	22.59	23.38	23.84
	8H	21.88	22.63	22.34	23.07	23.54	22.39	23.14	22.85	23.59	24.05
	12H	22.02	22.69	22.50	23.17	23.64	22.61	23.28	23.09	23.76	24.23
8H	4H	21.40	22.15	21.86	22.60	23.07	21.77	22.52	22.23	22.97	23.43
	6H	22.12	22.75	22.62	23.24	23.72	22.54	23.17	23.04	23.66	24.14
	8H	22.40	22.96	22.91	23.47	23.96	22.89	23.45	23.40	23.96	24.45
	12H	22.62	23.11	23.13	23.60	24.17	23.21	23.70	23.72	24.19	24.76
12H	4H	21.44	22.11	21.92	22.59	23.06	21.79	22.46	22.27	22.94	23.41
	6H	22.19	22.75	22.70	23.26	23.75	22.59	23.15	23.10	23.66	24.15
	8H	22.52	23.02	23.03	23.51	24.08	22.99	23.49	23.50	23.98	24.55