

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: P895466

Luminaire Tested: 8TMB-SC3-LVRF-UNV-CC93-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895466
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-CC93-HI-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3500K CCT
lumen setting
Light Source: -
Ballast/Driver: -

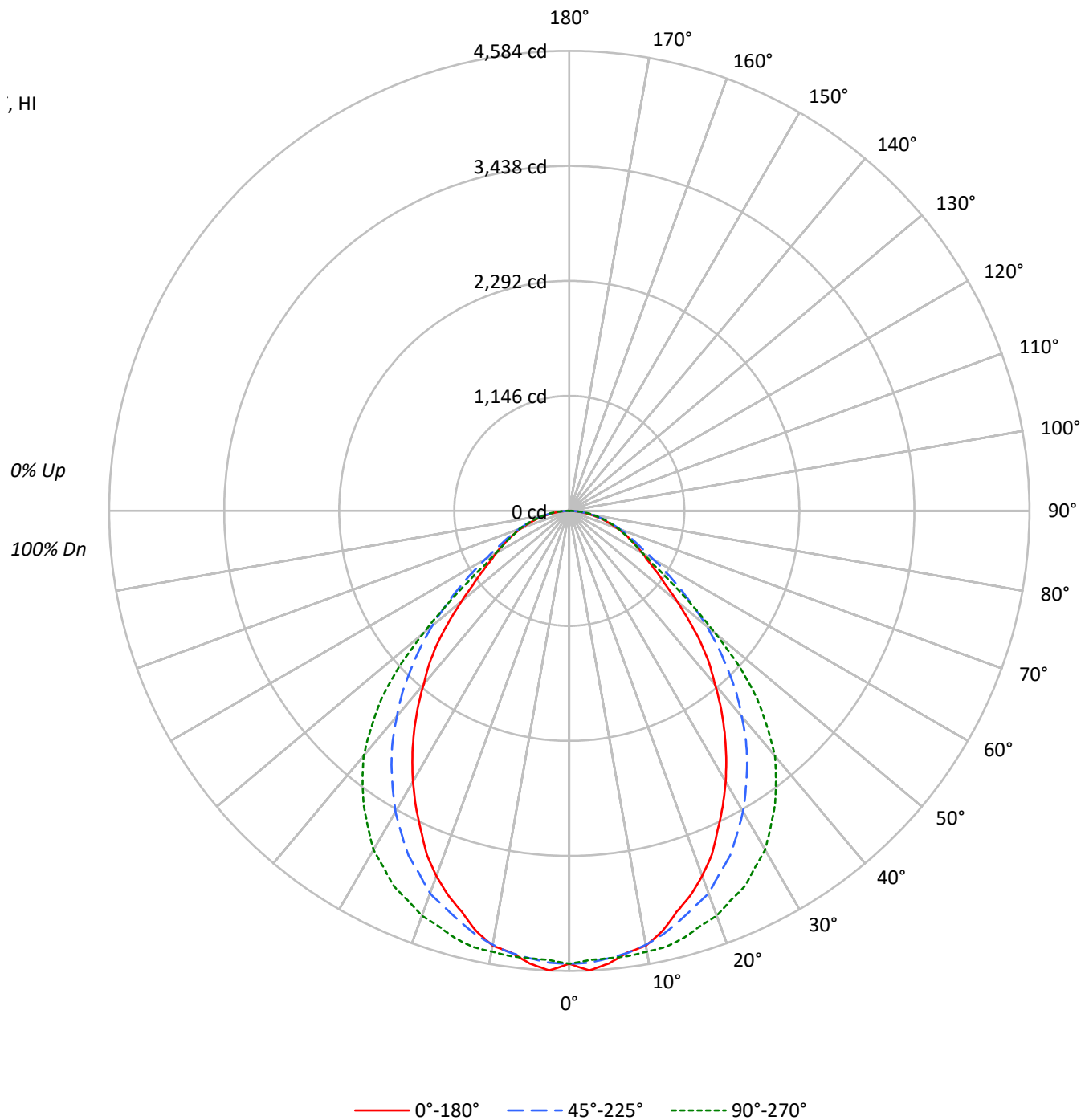
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9380.0 lumens
Efficiency: N/A
Efficacy: 92.5 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°	16013	16013	16013
5°	16125	15941	15941
10°	15846	15821	16066
15°	15191	15544	16182
20°	14613	15313	16208
25°	13709	14839	16171
30°	12760	14183	15981
35°	11681	13378	15472
40°	10458	12371	14762
45°	9280	11200	13272
50°	7721	9859	10468
55°	6577	8305	7608
60°	5962	6862	6013
65°	5616	6010	5596
70°	5284	5576	5454
75°	4923	5309	5212
80°	4507	4892	5035
85°	3916	4299	5638

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13272 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.3	4.6
10°-20°	1202.4	12.8
20°-30°	1746.1	18.6
30°-40°	1944.4	20.7
40°-50°	1717.8	18.3
50°-60°	1127.2	12.0
60°-70°	690.2	7.4
70°-80°	401.7	4.3
80°-90°	123.0	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°	3375.8	36.0
0°-40°	5320.1	56.7
0°-60°	8165.1	87.0
0°-90°	9380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9380.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4513	4513	4513	4513	4513	
5°	4527	4530	4476	4520	4476	427
15°	4135	4182	4232	4398	4405	1167
25°	3502	3586	3790	4032	4131	1611
35°	2697	2842	3089	3415	3572	1682
45°	1849	1962	2232	2532	2645	1415
55°	1063	1138	1342	1331	1230	964
65°	669	681	716	695	666	665
75°	359	364	387	394	380	381
85°	96	101	106	120	138	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4513.2	4513.2	4513.2	4513.2	4513.2
2.5°	4583.6	4527.3	4506.2	4527.3	4480.4
5°	4527.3	4529.7	4475.7	4520.3	4475.7
7.5°	4438.1	4468.6	4442.8	4510.9	4475.7
10°	4398.2	4400.6	4391.2	4461.6	4459.2
12.5°	4287.9	4295.0	4320.8	4426.4	4449.9
15°	4135.4	4182.3	4231.6	4398.2	4405.3
17.5°	4015.7	4072.0	4137.7	4316.1	4337.2
20°	3870.2	3893.6	4055.6	4212.8	4292.6
22.5°	3708.2	3752.8	3910.1	4121.3	4201.1
25°	3501.7	3586.2	3790.4	4032.1	4130.7
27.5°	3311.6	3410.1	3621.4	3891.3	4006.3
30°	3114.4	3227.1	3461.8	3727.0	3900.7
32.5°	2910.2	3051.1	3274.0	3579.1	3731.7
35°	2696.7	2842.2	3088.6	3414.8	3572.1
37.5°	2483.1	2623.9	2891.5	3241.2	3382.0
40°	2257.8	2396.3	2670.9	3025.2	3187.2
42.5°	2063.0	2182.7	2464.3	2767.1	2917.3
45°	1849.4	1962.1	2232.0	2532.4	2645.0
47.5°	1614.7	1746.1	2009.0	2255.4	2300.0
50°	1398.8	1534.9	1786.0	1929.2	1896.4
52.5°	1208.7	1323.7	1553.7	1614.7	1537.3
55°	1063.2	1138.3	1342.5	1330.7	1229.8
57.5°	929.4	976.3	1150.0	1084.3	988.1
60°	840.2	861.3	967.0	905.9	847.3
62.5°	755.7	765.1	821.4	788.6	744.0
65°	668.9	680.6	715.8	694.7	666.5
67.5°	589.1	593.8	626.6	621.9	586.7
70°	509.3	516.3	537.5	546.8	525.7
72.5°	431.8	438.9	460.0	469.4	450.6
75°	359.1	363.8	387.3	394.3	380.2
77.5°	288.7	298.1	312.1	323.9	307.5
80°	220.6	225.3	239.4	253.5	246.4
82.5°	154.9	161.9	171.3	190.1	194.8
85°	96.2	100.9	105.6	119.7	138.5
87.5°	37.6	39.9	46.9	51.6	68.1
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	17.17	18.65	17.53	18.96	19.27	17.82	19.30	18.18	19.61	19.93
	3H	18.77	20.09	19.14	20.42	20.78	19.25	20.58	19.63	20.91	21.27
	4H	19.38	20.63	19.78	20.97	21.35	19.86	21.10	20.26	21.45	21.83
	6H	19.85	21.00	20.27	21.37	21.76	20.34	21.49	20.76	21.86	22.25
	8H	20.01	21.10	20.43	21.49	21.89	20.54	21.63	20.97	22.02	22.42
	12H	20.11	21.15	20.54	21.53	21.96	20.71	21.75	21.14	22.14	22.57
4H	2H	17.79	19.03	18.19	19.38	19.76	18.31	19.55	18.71	19.90	20.28
	3H	19.61	20.64	20.02	21.04	21.44	20.01	21.04	20.42	21.44	21.84
	4H	20.35	21.27	20.78	21.69	22.13	20.76	21.69	21.19	22.10	22.54
	6H	20.94	21.75	21.40	22.19	22.65	21.40	22.20	21.86	22.65	23.11
	8H	21.14	21.89	21.61	22.34	22.81	21.65	22.40	22.12	22.85	23.32
	12H	21.28	21.95	21.77	22.43	22.91	21.88	22.55	22.36	23.03	23.50
8H	4H	20.66	21.42	21.13	21.86	22.33	21.03	21.78	21.50	22.23	22.70
	6H	21.39	22.01	21.89	22.50	22.98	21.81	22.43	22.30	22.92	23.40
	8H	21.66	22.22	22.18	22.73	23.22	22.15	22.71	22.67	23.22	23.71
	12H	21.88	22.38	22.39	22.87	23.43	22.47	22.97	22.98	23.46	24.02
12H	4H	20.70	21.37	21.18	21.85	22.32	21.05	21.72	21.53	22.20	22.67
	6H	21.45	22.01	21.97	22.52	23.01	21.85	22.41	22.37	22.92	23.41
	8H	21.79	22.28	22.30	22.78	23.34	22.26	22.75	22.77	23.25	23.81