

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: P895467

Luminaire Tested: 8TMB-SC3-LVRF-UNV-CC93-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895467
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-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 4000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

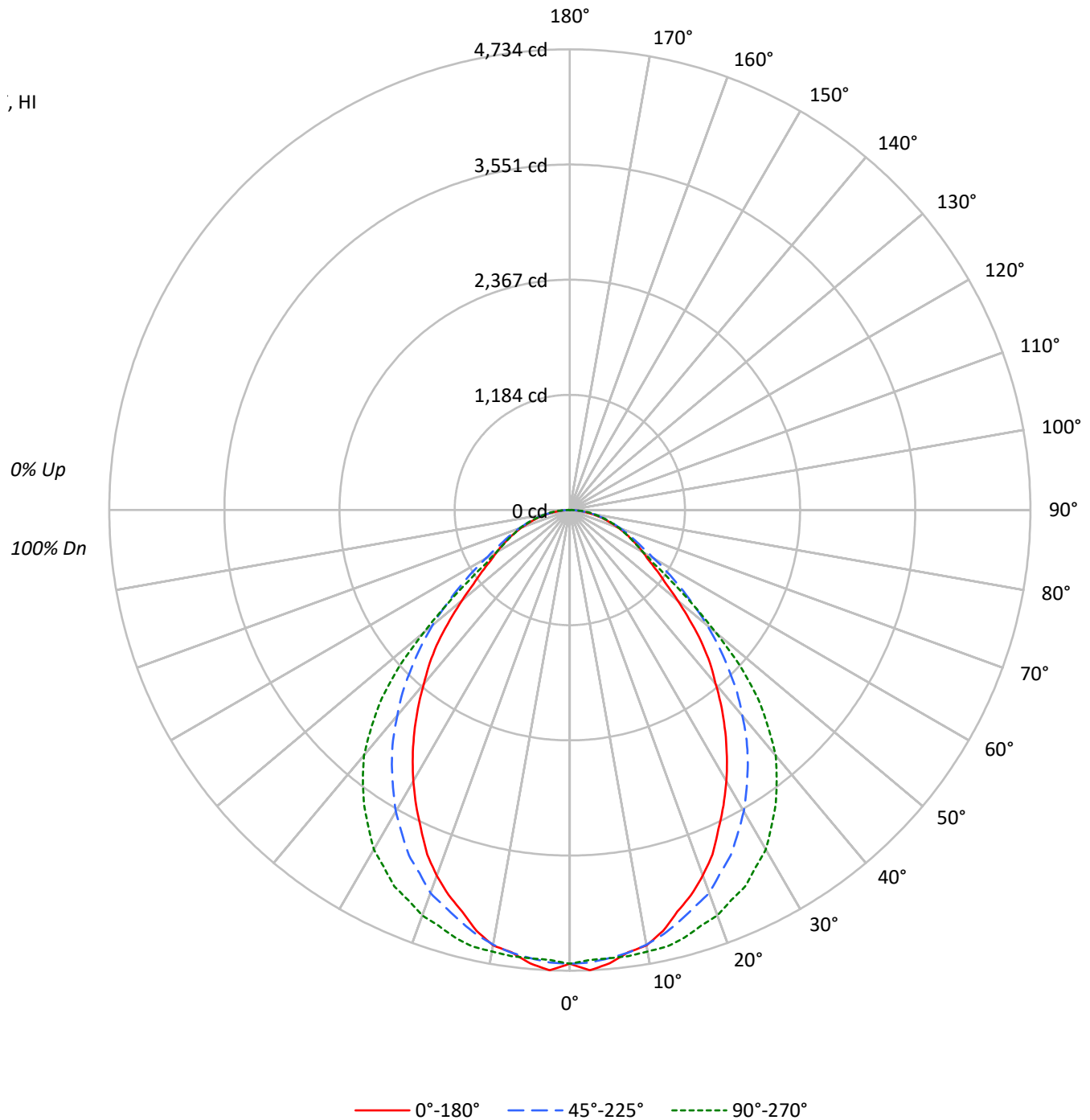
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9688.0 lumens
Efficiency: N/A
Efficacy: 95.5 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°	16539	16539	16539
5°	16654	16464	16464
10°	16366	16340	16594
15°	15689	16054	16713
20°	15093	15816	16741
25°	14159	15326	16702
30°	13179	14649	16506
35°	12064	13817	15981
40°	10801	12777	15247
45°	9585	11568	13708
50°	7975	10183	10811
55°	6793	8577	7857
60°	6158	7087	6210
65°	5801	6207	5780
70°	5457	5759	5633
75°	5085	5484	5384
80°	4657	5053	5200
85°	4047	4441	5822

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13708 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.3	4.6
10°-20°	1241.9	12.8
20°-30°	1803.4	18.6
30°-40°	2008.2	20.7
40°-50°	1774.2	18.3
50°-60°	1164.2	12.0
60°-70°	712.9	7.4
70°-80°	414.8	4.3
80°-90°	127.1	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°	3486.6	36.0
0°-40°	5494.8	56.7
0°-60°	8433.2	87.0
0°-90°	9688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9688.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4661	4661	4661	4661	4661	
5°	4676	4678	4623	4669	4623	441
15°	4271	4320	4370	4543	4550	1205
25°	3617	3704	3915	4164	4266	1664
35°	2785	2936	3190	3527	3689	1737
45°	1910	2026	2305	2616	2732	1461
55°	1098	1176	1386	1374	1270	996
65°	691	703	739	718	688	687
75°	371	376	400	407	393	393
85°	99	104	109	124	143	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4661.4	4661.4	4661.4	4661.4	4661.4
2.5°	4734.1	4676.0	4654.1	4676.0	4627.5
5°	4676.0	4678.4	4622.6	4668.7	4622.6
7.5°	4583.9	4615.4	4588.7	4659.0	4622.6
10°	4542.6	4545.1	4535.4	4608.1	4605.7
12.5°	4428.7	4436.0	4462.7	4571.7	4596.0
15°	4271.2	4319.6	4370.5	4542.6	4549.9
17.5°	4147.5	4205.7	4273.6	4457.8	4479.6
20°	3997.2	4021.5	4188.7	4351.1	4433.6
22.5°	3830.0	3876.0	4038.4	4256.6	4339.0
25°	3616.7	3703.9	3914.8	4164.5	4266.3
27.5°	3420.3	3522.1	3740.3	4019.1	4137.8
30°	3216.7	3333.0	3575.5	3849.4	4028.7
32.5°	3005.8	3151.2	3381.5	3696.7	3854.2
35°	2785.2	2935.5	3190.0	3527.0	3689.4
37.5°	2564.6	2710.1	2986.4	3347.6	3493.0
40°	2331.9	2474.9	2758.6	3124.6	3291.8
42.5°	2130.7	2254.4	2545.2	2857.9	3013.1
45°	1910.1	2026.5	2305.3	2615.5	2731.9
47.5°	1667.7	1803.5	2075.0	2329.5	2375.6
50°	1444.7	1585.3	1844.7	1992.6	1958.6
52.5°	1248.4	1367.2	1604.7	1667.7	1587.7
55°	1098.1	1175.7	1386.5	1374.4	1270.2
57.5°	959.9	1008.4	1187.8	1119.9	1020.5
60°	867.8	889.6	998.7	935.7	875.1
62.5°	780.5	790.2	848.4	814.5	768.4
65°	690.9	703.0	739.3	717.5	688.4
67.5°	608.4	613.3	647.2	642.4	606.0
70°	526.0	533.3	555.1	564.8	543.0
72.5°	446.0	453.3	475.1	484.8	465.4
75°	370.9	375.7	400.0	407.2	392.7
77.5°	298.2	307.9	322.4	334.5	317.5
80°	227.9	232.7	247.3	261.8	254.5
82.5°	160.0	167.3	177.0	196.3	201.2
85°	99.4	104.2	109.1	123.6	143.0
87.5°	38.8	41.2	48.5	53.3	70.3
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	17.28	18.76	17.64	19.07	19.39	17.93	19.41	18.29	19.72	20.04
	3H	18.88	20.20	19.26	20.53	20.90	19.37	20.69	19.74	21.02	21.38
	4H	19.50	20.74	19.90	21.09	21.47	19.97	21.21	20.37	21.56	21.94
	6H	19.97	21.11	20.38	21.48	21.87	20.46	21.60	20.87	21.97	22.36
	8H	20.12	21.21	20.55	21.60	22.00	20.65	21.75	21.08	22.14	22.54
	12H	20.22	21.26	20.65	21.65	22.07	20.82	21.87	21.25	22.25	22.68
4H	2H	17.90	19.14	18.30	19.49	19.87	18.42	19.67	18.82	20.01	20.39
	3H	19.72	20.75	20.13	21.15	21.55	20.12	21.15	20.53	21.55	21.95
	4H	20.46	21.38	20.89	21.80	22.24	20.87	21.80	21.31	22.22	22.66
	6H	21.06	21.86	21.51	22.30	22.77	21.51	22.31	21.97	22.76	23.22
	8H	21.25	22.01	21.72	22.45	22.92	21.76	22.52	22.23	22.96	23.43
	12H	21.40	22.07	21.88	22.55	23.02	21.99	22.66	22.47	23.14	23.61
8H	4H	20.78	21.53	21.24	21.97	22.44	21.14	21.90	21.61	22.34	22.81
	6H	21.50	22.12	22.00	22.62	23.09	21.92	22.54	22.42	23.03	23.51
	8H	21.77	22.33	22.29	22.84	23.33	22.26	22.82	22.78	23.33	23.82
	12H	21.99	22.49	22.50	22.98	23.55	22.58	23.08	23.09	23.57	24.14
12H	4H	20.81	21.48	21.29	21.96	22.43	21.16	21.84	21.65	22.31	22.79
	6H	21.57	22.13	22.08	22.64	23.13	21.96	22.53	22.48	23.04	23.52
	8H	21.90	22.40	22.41	22.89	23.45	22.37	22.87	22.88	23.36	23.92