

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: P894423

Luminaire Tested: 8TMB-10SL-RFLW-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-10SL-RFLW-UNV-L840
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 4000K
Light Source: -
Ballast/Driver: -

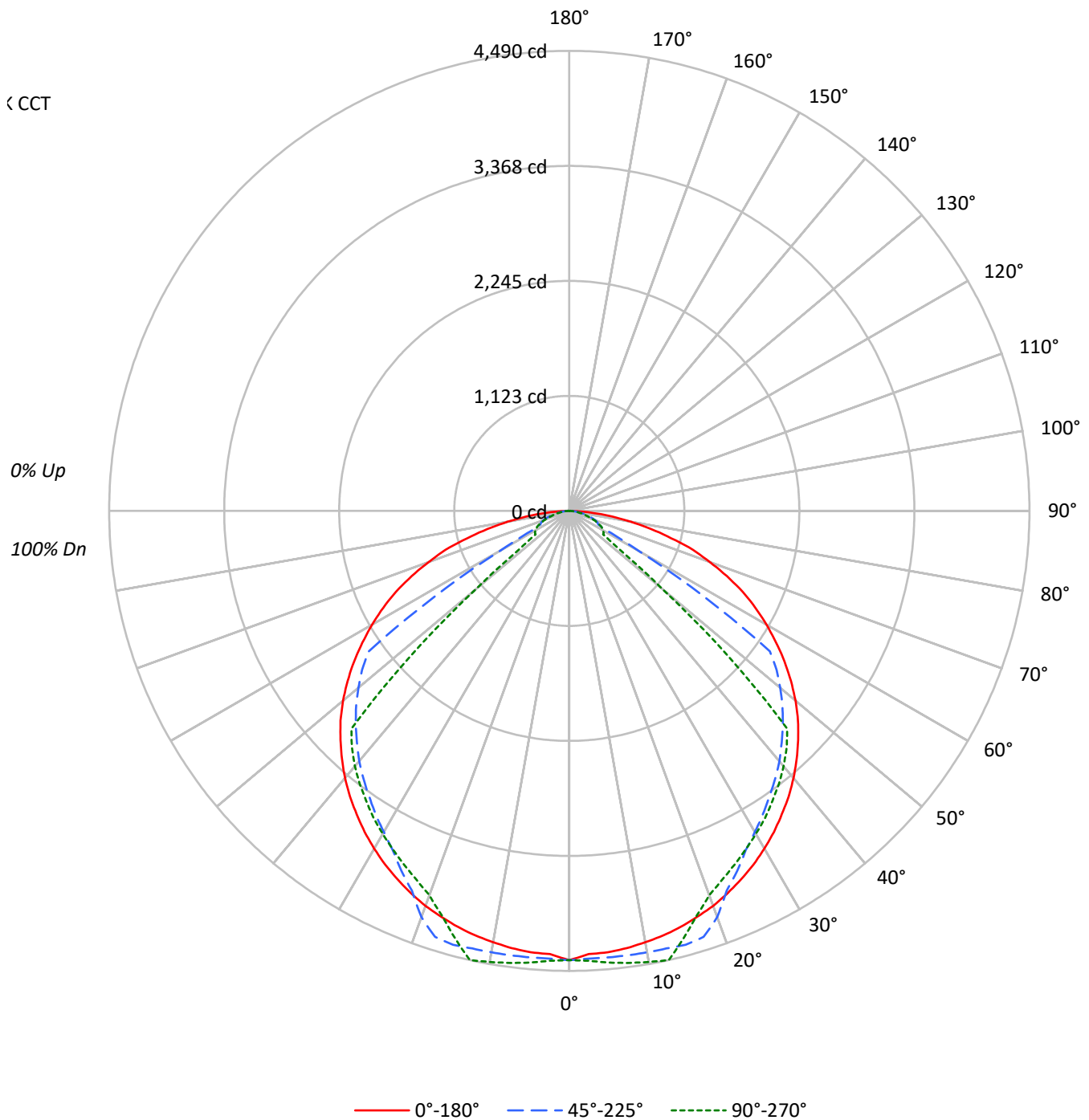
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10694.0 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 5.63
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	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	77	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	58	58	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	51	51	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	45	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	40	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	36	36	36	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	33	33	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28392	28392	28392
5°	28109	28436	28762
10°	28103	28765	29392
15°	28180	29394	28922
20°	28274	29071	27512
25°	28346	27699	27232
30°	28461	27070	27220
35°	28579	26910	27307
40°	28775	26948	27500
45°	28917	26983	27536
50°	29025	27050	11903
55°	28951	26964	4542
60°	28783	10289	4949
65°	28584	4777	5085
70°	27608	5140	4760
75°	25790	4906	4151
80°	22688	4311	3561
85°	17935	3737	2987

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 29025 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.7	3.9
10°-20°	1215.8	11.4
20°-30°	1814.1	17.0
30°-40°	2198.9	20.6
40°-50°	2251.6	21.1
50°-60°	1497.3	14.0
60°-70°	853.4	8.0
70°-80°	358.5	3.4
80°-90°	85.5	0.8
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°	3448.7	32.2
0°-40°	5647.7	52.8
0°-60°	9396.5	87.9
0°-90°	10694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4385	4385	4385	4385	4385	
5°	4324	4410	4375	4385	4425	411
15°	4204	4319	4385	4370	4314	1187
25°	3967	4158	3877	3791	3811	1830
35°	3615	3681	3404	3419	3454	2265
45°	3158	2967	2946	2982	3007	2436
55°	2564	2348	2388	523	402	2290
65°	1866	1669	312	332	332	1836
75°	1031	216	196	171	166	1094
85°	241	60	50	40	40	289
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4384.6	4384.6	4384.6	4384.6	4384.6
2.5°	4329.3	4419.8	4374.6	4379.6	4394.7
5°	4324.3	4409.8	4374.6	4384.6	4424.8
7.5°	4304.2	4394.7	4374.6	4404.7	4450.0
10°	4274.0	4379.6	4374.6	4424.8	4470.1
12.5°	4243.8	4349.4	4374.6	4450.0	4490.2
15°	4203.6	4319.3	4384.6	4369.5	4314.2
17.5°	4153.3	4289.1	4359.5	4143.3	4138.2
20°	4103.0	4248.9	4218.7	4012.5	3992.4
22.5°	4037.7	4208.6	4012.5	3871.7	3896.9
25°	3967.3	4158.4	3876.8	3791.3	3811.4
27.5°	3891.9	4108.1	3731.0	3700.8	3725.9
30°	3806.4	4037.7	3620.3	3610.3	3640.4
32.5°	3715.9	3901.9	3514.7	3519.8	3555.0
35°	3615.3	3680.7	3404.1	3419.2	3454.4
37.5°	3514.7	3474.5	3298.5	3323.7	3358.9
40°	3404.1	3313.6	3187.9	3213.0	3253.3
42.5°	3283.4	3142.6	3067.2	3102.4	3137.6
45°	3157.7	2966.7	2946.5	2981.7	3006.9
47.5°	3027.0	2815.8	2820.8	2846.0	2132.0
50°	2881.2	2665.0	2685.1	1860.4	1181.6
52.5°	2725.3	2509.1	2549.3	1035.8	598.4
55°	2564.4	2348.2	2388.4	522.9	402.3
57.5°	2393.4	2187.3	1558.8	377.1	397.2
60°	2222.5	2016.3	794.5	372.1	382.1
62.5°	2046.5	1845.4	377.1	357.0	362.0
65°	1865.5	1669.4	311.8	331.9	331.9
67.5°	1664.3	1483.3	296.7	296.7	291.6
70°	1458.2	1231.9	271.5	256.4	251.4
72.5°	1267.1	472.7	236.3	211.2	206.2
75°	1030.8	216.2	196.1	171.0	165.9
77.5°	819.6	181.0	155.9	135.8	130.7
80°	608.4	140.8	115.6	100.6	95.5
82.5°	422.4	95.5	80.5	65.4	65.4
85°	241.4	60.3	50.3	40.2	40.2
87.5°	95.5	30.2	25.1	15.1	15.1
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	24.55	26.07	24.92	26.39	26.70	12.32	13.84	12.68	14.15	14.47
	3H	26.57	27.93	26.95	28.26	28.62	14.63	15.99	15.01	16.32	16.68
	4H	27.03	28.31	27.43	28.65	29.03	15.34	16.62	15.74	16.97	17.34
	6H	27.44	28.61	27.85	28.98	29.37	15.83	17.00	16.24	17.37	17.76
	8H	27.59	28.71	28.02	29.10	29.50	15.97	17.08	16.39	17.47	17.87
	12H	27.69	28.76	28.12	29.14	29.57	16.05	17.12	16.48	17.50	17.93
4H	2H	24.39	25.66	24.79	26.01	26.39	13.12	14.39	13.52	14.74	15.11
	3H	26.60	27.64	27.01	28.04	28.44	15.63	16.67	16.04	17.07	17.47
	4H	27.04	27.98	27.48	28.40	28.84	16.45	17.39	16.88	17.80	18.24
	6H	27.51	28.32	27.97	28.77	29.23	17.04	17.85	17.50	18.30	18.76
	8H	27.70	28.46	28.16	28.91	29.37	17.21	17.97	17.67	18.41	18.88
	12H	27.85	28.53	28.34	29.01	29.48	17.33	18.01	17.81	18.48	18.96
8H	4H	26.96	27.72	27.43	28.17	28.64	17.28	18.05	17.75	18.49	18.96
	6H	27.42	28.05	27.92	28.54	29.02	17.91	18.54	18.41	19.03	19.51
	8H	27.62	28.19	28.14	28.70	29.19	18.11	18.67	18.62	19.18	19.67
	12H	27.81	28.31	28.32	28.80	29.36	18.26	18.77	18.77	19.26	19.82
12H	4H	26.93	27.61	27.41	28.09	28.56	17.36	18.04	17.84	18.51	18.99
	6H	27.38	27.94	27.89	28.45	28.94	18.00	18.57	18.51	19.08	19.57
	8H	27.60	28.10	28.11	28.59	29.16	18.25	18.76	18.76	19.25	19.81