

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: P894424

Luminaire Tested: 8TMB-10SL-RFLW-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894424
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-L850
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 5000K
Light Source: -
Ballast/Driver: -

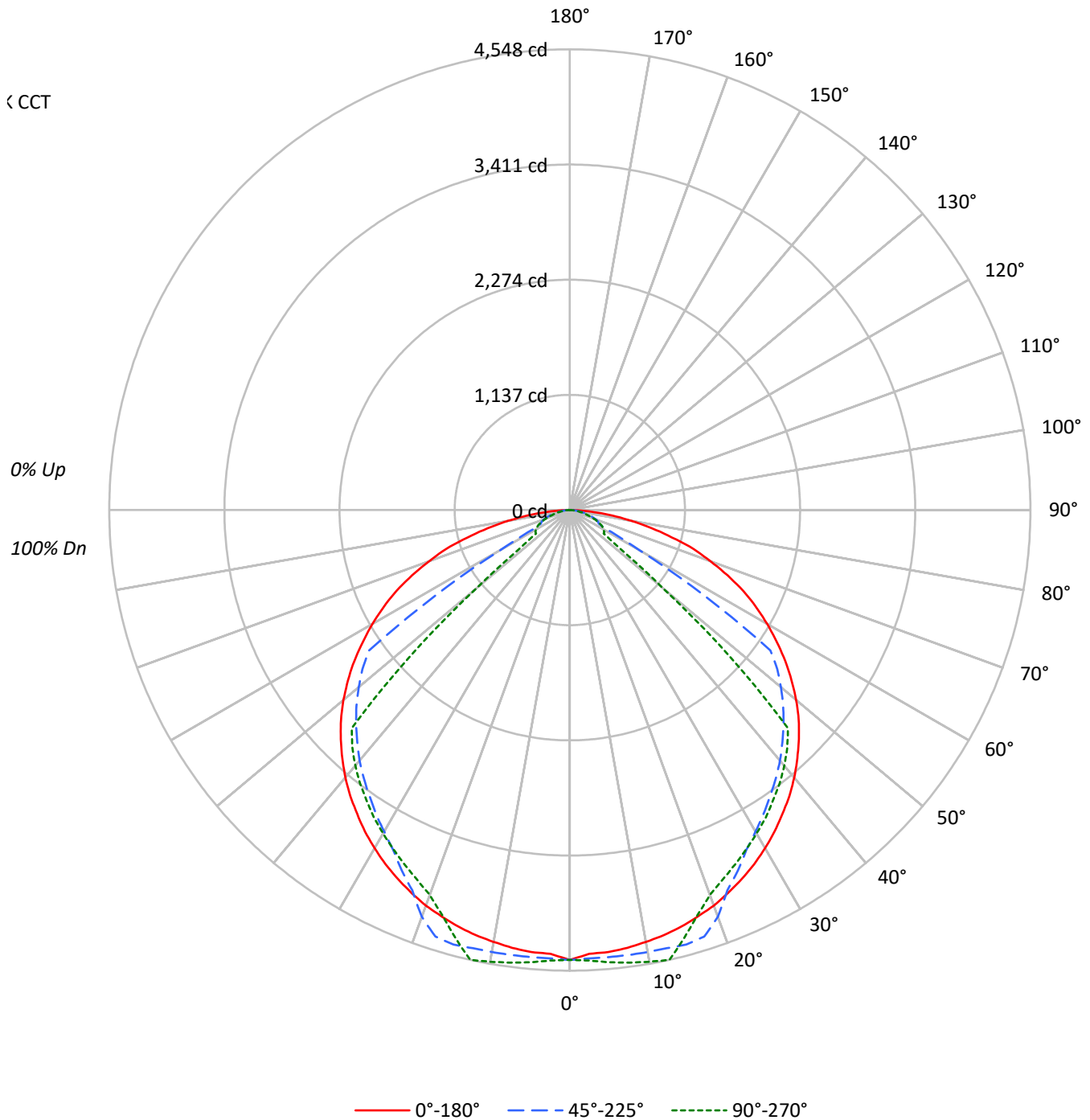
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10831.0 lumens
Efficiency: N/A
Efficacy: 154.7 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°	28756	28756	28756
5°	28469	28800	29131
10°	28463	29133	29769
15°	28542	29771	29293
20°	28636	29443	27865
25°	28709	28054	27581
30°	28825	27417	27569
35°	28945	27254	27657
40°	29144	27293	27852
45°	29288	27329	27889
50°	29397	27396	12057
55°	29322	27310	4599
60°	29152	10420	5012
65°	28950	4837	5150
70°	27962	5207	4820
75°	26120	4969	4206
80°	22978	4367	3610
85°	18158	3782	3024

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 29397 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.1	3.9
10°-20°	1231.4	11.4
20°-30°	1837.4	17.0
30°-40°	2227.1	20.6
40°-50°	2280.4	21.1
50°-60°	1516.5	14.0
60°-70°	864.4	8.0
70°-80°	363.1	3.4
80°-90°	86.6	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°	3492.9	32.2
0°-40°	5720.0	52.8
0°-60°	9516.9	87.9
0°-90°	10831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10831.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4441	4441	4441	4441	4441	
5°	4380	4466	4431	4441	4482	417
15°	4258	4375	4441	4426	4370	1202
25°	4018	4212	3926	3840	3860	1854
35°	3662	3728	3448	3463	3499	2294
45°	3198	3005	2984	3020	3045	2467
55°	2597	2378	2419	530	407	2319
65°	1889	1691	316	336	336	1859
75°	1044	219	199	173	168	1108
85°	244	61	51	41	41	293
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4440.8	4440.8	4440.8	4440.8	4440.8
2.5°	4384.8	4476.4	4430.6	4435.7	4451.0
5°	4379.7	4466.3	4430.6	4440.8	4481.5
7.5°	4359.3	4451.0	4430.6	4461.2	4507.0
10°	4328.8	4435.7	4430.6	4481.5	4527.4
12.5°	4298.2	4405.1	4430.6	4507.0	4547.7
15°	4257.5	4374.6	4440.8	4425.5	4369.5
17.5°	4206.5	4344.0	4415.3	4196.3	4191.3
20°	4155.6	4303.3	4272.7	4063.9	4043.6
22.5°	4089.4	4262.5	4063.9	3921.3	3946.8
25°	4018.1	4211.6	3926.4	3839.9	3860.2
27.5°	3941.7	4160.7	3778.7	3748.2	3773.7
30°	3855.1	4089.4	3666.7	3656.5	3687.1
32.5°	3763.5	3951.9	3559.8	3564.9	3600.5
35°	3661.6	3727.8	3447.7	3463.0	3498.7
37.5°	3559.8	3519.0	3340.8	3366.2	3401.9
40°	3447.7	3356.1	3228.7	3254.2	3294.9
42.5°	3325.5	3182.9	3106.5	3142.2	3177.8
45°	3198.2	3004.7	2984.3	3019.9	3045.4
47.5°	3065.8	2851.9	2857.0	2882.4	2159.3
50°	2918.1	2699.1	2719.5	1884.3	1196.8
52.5°	2760.2	2541.2	2582.0	1049.1	606.0
55°	2597.3	2378.3	2419.0	529.6	407.4
57.5°	2424.1	2215.3	1578.7	381.9	402.3
60°	2251.0	2042.2	804.6	376.9	387.0
62.5°	2072.7	1869.0	381.9	361.6	366.7
65°	1889.4	1690.8	315.7	336.1	336.1
67.5°	1685.7	1502.3	300.5	300.5	295.4
70°	1476.9	1247.7	275.0	259.7	254.6
72.5°	1283.3	478.7	239.4	213.9	208.8
75°	1044.0	219.0	198.6	173.2	168.1
77.5°	830.1	183.3	157.9	137.5	132.4
80°	616.2	142.6	117.1	101.9	96.8
82.5°	427.8	96.8	81.5	66.2	66.2
85°	244.4	61.1	50.9	40.7	40.7
87.5°	96.8	30.6	25.5	15.3	15.3
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	24.60	26.12	24.96	26.43	26.74	12.36	13.88	12.73	14.20	14.51
	3H	26.62	27.97	26.99	28.30	28.66	14.68	16.03	15.05	16.36	16.72
	4H	27.08	28.35	27.48	28.70	29.08	15.39	16.66	15.79	17.01	17.39
	6H	27.49	28.66	27.90	29.02	29.42	15.87	17.05	16.29	17.41	17.80
	8H	27.63	28.75	28.06	29.14	29.54	16.01	17.13	16.44	17.52	17.92
	12H	27.73	28.80	28.16	29.18	29.61	16.10	17.16	16.53	17.55	17.98
4H	2H	24.44	25.71	24.84	26.06	26.44	13.16	14.43	13.56	14.78	15.16
	3H	26.64	27.69	27.05	28.09	28.49	15.67	16.72	16.08	17.12	17.52
	4H	27.09	28.03	27.52	28.44	28.88	16.49	17.43	16.92	17.85	18.28
	6H	27.55	28.37	28.01	28.81	29.27	17.08	17.90	17.54	18.34	18.80
	8H	27.75	28.51	28.21	28.95	29.42	17.25	18.01	17.72	18.46	18.93
	12H	27.90	28.58	28.38	29.05	29.53	17.37	18.05	17.85	18.53	19.00
8H	4H	27.01	27.77	27.47	28.21	28.68	17.33	18.09	17.79	18.53	19.00
	6H	27.47	28.09	27.96	28.59	29.06	17.95	18.58	18.45	19.07	19.55
	8H	27.67	28.23	28.18	28.74	29.23	18.15	18.72	18.67	19.23	19.72
	12H	27.85	28.35	28.36	28.84	29.41	18.31	18.81	18.82	19.30	19.87
12H	4H	26.98	27.65	27.46	28.13	28.61	17.40	18.08	17.88	18.56	19.03
	6H	27.42	27.99	27.93	28.50	28.98	18.04	18.61	18.56	19.12	19.61
	8H	27.64	28.14	28.15	28.64	29.20	18.30	18.80	18.81	19.29	19.86