

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: P895255

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895255
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-8SL-RFLW-UNV-L840
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 4000K
Light Source: -
Ballast/Driver: -

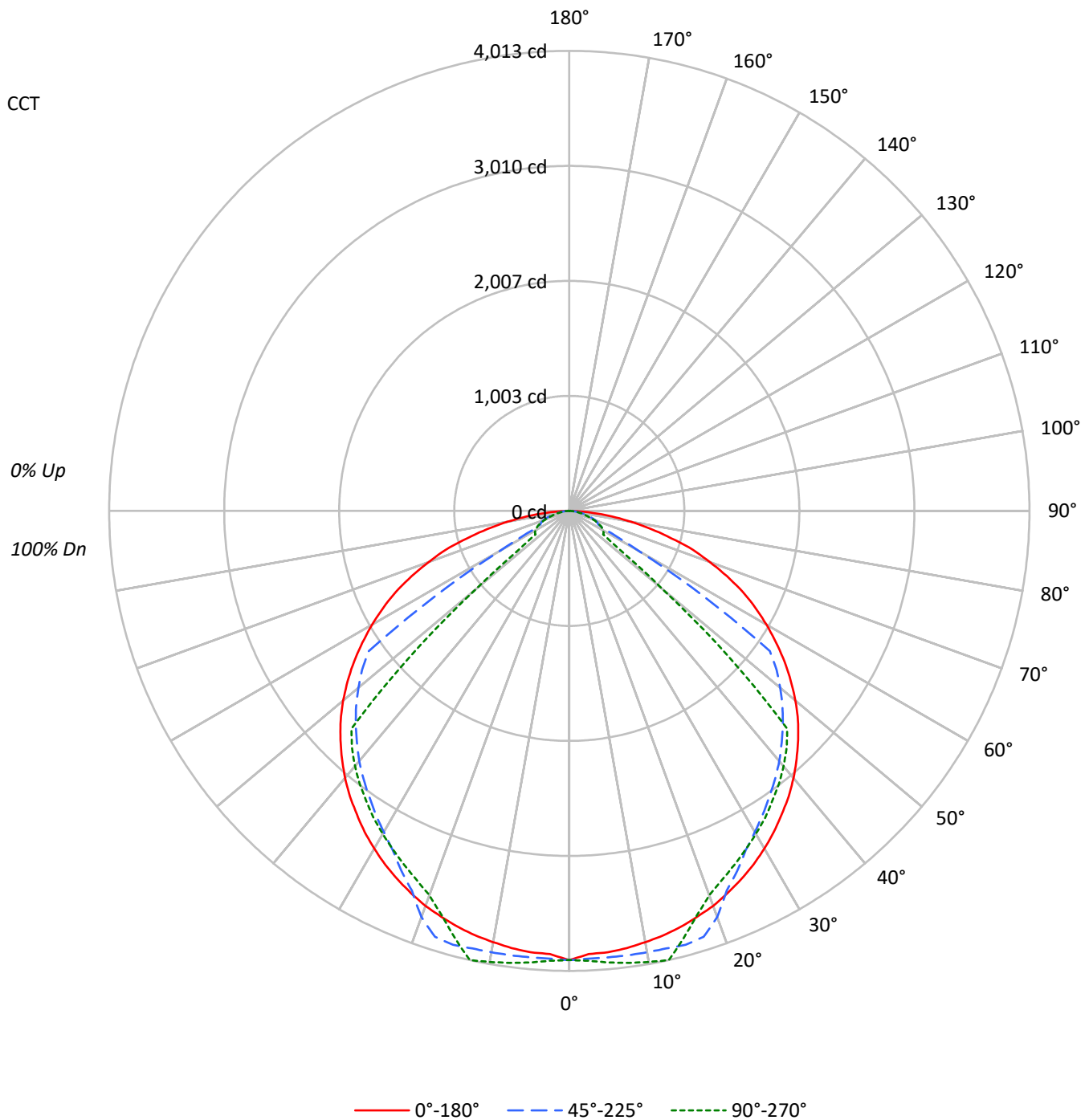
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9557.0 lumens
Efficiency: N/A
Efficacy: 160.4 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): 59.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 3.8
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°	25373	25373	25373
5°	25120	25412	25704
10°	25115	25706	26267
15°	25184	26268	25847
20°	25268	25981	24587
25°	25332	24754	24337
30°	25435	24192	24326
35°	25540	24049	24404
40°	25716	24083	24577
45°	25843	24115	24608
50°	25939	24174	10638
55°	25872	24098	4059
60°	25723	9195	4423
65°	25544	4269	4545
70°	24673	4595	4254
75°	23048	4386	3710
80°	20275	3856	3185
85°	16026	3336	2667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 25939 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.2	3.9
10°-20°	1086.6	11.4
20°-30°	1621.3	17.0
30°-40°	1965.1	20.6
40°-50°	2012.2	21.1
50°-60°	1338.1	14.0
60°-70°	762.7	8.0
70°-80°	320.4	3.4
80°-90°	76.4	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°	3082.1	32.2
0°-40°	5047.2	52.8
0°-60°	8397.5	87.9
0°-90°	9557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3918	3918	3918	3918	3918	
5°	3864	3941	3910	3918	3954	368
15°	3757	3860	3918	3905	3856	1061
25°	3546	3716	3465	3388	3406	1636
35°	3231	3289	3042	3056	3087	2024
45°	2822	2651	2633	2665	2687	2177
55°	2292	2098	2134	467	360	2046
65°	1667	1492	279	297	297	1640
75°	921	193	175	153	148	978
85°	216	54	45	36	36	259
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3918.4	3918.4	3918.4	3918.4	3918.4
2.5°	3869.0	3949.9	3909.5	3913.9	3927.4
5°	3864.5	3940.9	3909.5	3918.4	3954.4
7.5°	3846.5	3927.4	3909.5	3936.4	3976.9
10°	3819.6	3913.9	3909.5	3954.4	3994.8
12.5°	3792.6	3887.0	3909.5	3976.9	4012.8
15°	3756.7	3860.0	3918.4	3905.0	3855.5
17.5°	3711.7	3833.1	3896.0	3702.7	3698.3
20°	3666.8	3797.1	3770.2	3585.9	3567.9
22.5°	3608.4	3761.2	3585.9	3460.1	3482.6
25°	3545.5	3716.2	3464.6	3388.2	3406.2
27.5°	3478.1	3671.3	3334.3	3307.3	3329.8
30°	3401.7	3608.4	3235.4	3226.4	3253.4
32.5°	3320.8	3487.1	3141.0	3145.5	3177.0
35°	3230.9	3289.3	3042.2	3055.7	3087.1
37.5°	3141.0	3105.1	2947.8	2970.3	3001.7
40°	3042.2	2961.3	2849.0	2871.4	2907.4
42.5°	2934.3	2808.5	2741.1	2772.6	2804.0
45°	2822.0	2651.2	2633.3	2664.7	2687.2
47.5°	2705.2	2516.4	2520.9	2543.4	1905.3
50°	2574.8	2381.6	2399.6	1662.6	1056.0
52.5°	2435.5	2242.3	2278.3	925.7	534.7
55°	2291.7	2098.5	2134.5	467.3	359.5
57.5°	2139.0	1954.7	1393.0	337.0	355.0
60°	1986.2	1801.9	710.0	332.5	341.5
62.5°	1828.9	1649.2	337.0	319.0	323.5
65°	1667.1	1491.9	278.6	296.6	296.6
67.5°	1487.4	1325.6	265.1	265.1	260.6
70°	1303.2	1100.9	242.7	229.2	224.7
72.5°	1132.4	422.4	211.2	188.7	184.2
75°	921.2	193.2	175.3	152.8	148.3
77.5°	732.5	161.8	139.3	121.3	116.8
80°	543.7	125.8	103.4	89.9	85.4
82.5°	377.5	85.4	71.9	58.4	58.4
85°	215.7	53.9	44.9	35.9	35.9
87.5°	85.4	27.0	22.5	13.5	13.5
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	24.16	25.68	24.53	26.00	26.31	11.93	13.45	12.29	13.76	14.08
	3H	26.18	27.54	26.56	27.87	28.23	14.24	15.60	14.62	15.93	16.29
	4H	26.64	27.91	27.04	28.26	28.64	14.95	16.23	15.35	16.57	16.95
	6H	27.05	28.22	27.46	28.59	28.98	15.44	16.61	15.85	16.98	17.37
	8H	27.20	28.31	27.63	28.70	29.11	15.58	16.69	16.00	17.08	17.48
	12H	27.30	28.36	27.73	28.75	29.18	15.66	16.73	16.09	17.11	17.54
4H	2H	24.00	25.27	24.40	25.62	26.00	12.72	14.00	13.12	14.34	14.72
	3H	26.21	27.25	26.62	27.65	28.05	15.24	16.28	15.65	16.68	17.08
	4H	26.65	27.59	27.09	28.01	28.45	16.06	16.99	16.49	17.41	17.85
	6H	27.12	27.93	27.58	28.38	28.84	16.65	17.46	17.11	17.91	18.37
	8H	27.31	28.07	27.77	28.52	28.98	16.82	17.58	17.28	18.02	18.49
	12H	27.46	28.14	27.94	28.62	29.09	16.93	17.61	17.42	18.09	18.56
8H	4H	26.57	27.33	27.04	27.78	28.24	16.89	17.66	17.36	18.10	18.57
	6H	27.03	27.66	27.53	28.15	28.63	17.52	18.15	18.01	18.64	19.12
	8H	27.23	27.80	27.75	28.31	28.79	17.72	18.28	18.23	18.79	19.28
	12H	27.42	27.92	27.93	28.41	28.97	17.87	18.38	18.38	18.87	19.43
12H	4H	26.54	27.22	27.02	27.70	28.17	16.97	17.64	17.45	18.12	18.59
	6H	26.98	27.55	27.50	28.06	28.55	17.61	18.18	18.12	18.69	19.17
	8H	27.21	27.71	27.72	28.20	28.77	17.86	18.36	18.37	18.86	19.42