

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: P892675

Luminaire Tested: 2MB-3SL-RFLW-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-3SL-RFLW-UNV-L940
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 4000K
Light Source: -
Ballast/Driver: -

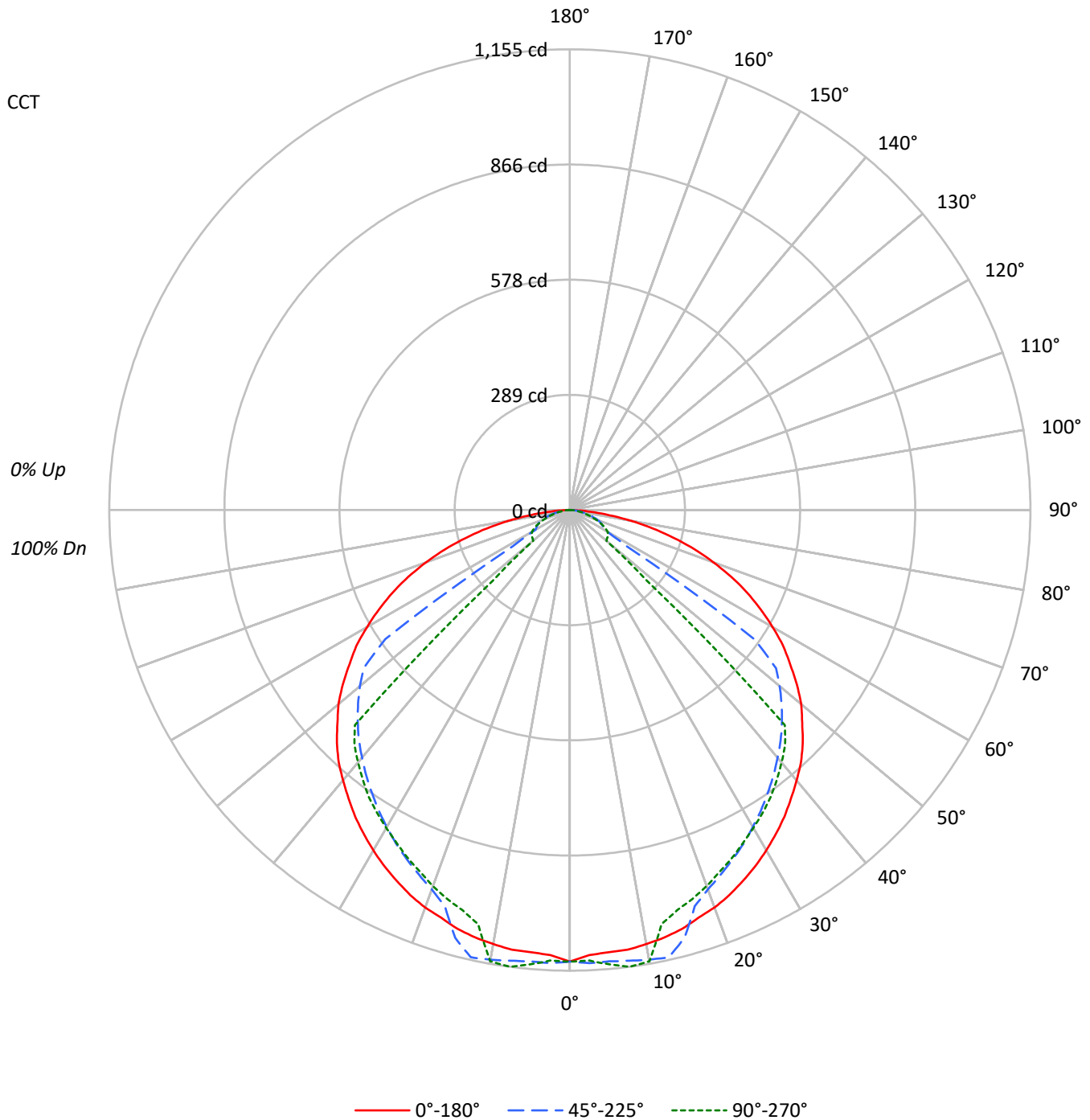
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2658.0 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.37
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 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	80	77	77	77	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	67	67	67	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	58	58	58	56
5	80	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	51	51	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	46	46	46	44
7	69	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	41	41	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	37	37	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	30	30	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29554	29554	29554
5°	29164	29767	29966
10°	29300	30347	30448
15°	29389	30010	28080
20°	29467	28120	27872
25°	29562	27833	27724
30°	29707	27669	27747
35°	29902	27585	27993
40°	30152	27630	28151
45°	30498	27769	28146
50°	30755	27908	4866
55°	30693	25704	5280
60°	30682	5190	5723
65°	30320	5510	5671
70°	29290	5740	5252
75°	27256	5397	4630
80°	23379	4796	4029
85°	15667	4583	3445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 30846 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	4.1
10°-20°	305.8	11.5
20°-30°	457.7	17.2
30°-40°	551.8	20.8
40°-50°	555.7	20.9
50°-60°	346.7	13.0
60°-70°	218.0	8.2
70°-80°	90.6	3.4
80°-90°	23.2	0.9
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°	872.0	32.8
0°-40°	1423.8	53.6
0°-60°	2326.2	87.5
0°-90°	2658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1113	1136	1136	1137	1143	106
15°	1087	1120	1110	1039	1039	307
25°	1026	1066	966	959	962	474
35°	938	878	866	871	878	587
45°	826	747	752	762	762	637
55°	674	594	565	111	116	604
65°	491	424	89	93	92	484
75°	270	65	54	47	46	285
85°	52	19	15	12	12	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1132.0	1132.0	1132.0	1132.0	1132.0
2.5°	1116.7	1137.1	1137.1	1132.0	1130.7
5°	1112.8	1135.8	1135.8	1137.1	1143.4
7.5°	1111.6	1133.2	1139.6	1147.3	1154.9
10°	1105.2	1130.7	1144.7	1154.9	1148.5
12.5°	1097.5	1125.6	1148.5	1083.5	1063.1
15°	1087.3	1120.5	1110.3	1038.9	1038.9
17.5°	1072.0	1112.8	1041.5	1021.1	1022.3
20°	1060.6	1106.5	1012.1	1000.7	1003.2
22.5°	1045.3	1093.7	989.2	979.0	981.5
25°	1026.2	1065.7	966.2	958.6	962.4
27.5°	1007.0	1008.3	943.3	938.2	940.7
30°	985.4	953.5	917.8	916.5	920.4
32.5°	962.4	912.7	892.3	894.9	900.0
35°	938.2	878.3	865.5	870.6	878.3
37.5°	911.4	846.4	838.8	847.7	852.8
40°	884.7	813.3	810.7	819.7	826.0
42.5°	857.9	781.4	782.7	791.6	799.3
45°	826.0	747.0	752.1	762.3	762.3
47.5°	790.3	710.0	720.2	698.6	258.8
50°	757.2	673.1	687.1	206.5	119.8
52.5°	717.7	633.5	651.4	113.5	117.3
55°	674.3	594.0	564.7	110.9	116.0
57.5°	634.8	553.2	168.3	109.6	113.5
60°	587.6	512.4	99.4	107.1	109.6
62.5°	539.2	469.1	94.3	102.0	102.0
65°	490.8	424.5	89.2	93.1	91.8
67.5°	438.5	378.6	84.1	81.6	80.3
70°	383.7	233.3	75.2	70.1	68.8
72.5°	328.9	80.3	65.0	58.6	57.4
75°	270.2	65.0	53.5	47.2	45.9
77.5°	212.9	53.5	42.1	37.0	35.7
80°	155.5	40.8	31.9	28.0	26.8
82.5°	100.7	29.3	24.2	19.1	17.8
85°	52.3	19.1	15.3	11.5	11.5
87.5°	20.4	11.5	7.6	5.1	3.8
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	24.76	26.27	25.12	26.58	26.90	13.40	14.91	13.76	15.22	15.54
	3H	26.68	28.03	27.06	28.36	28.72	15.53	16.88	15.90	17.21	17.57
	4H	27.16	28.43	27.56	28.78	29.16	16.21	17.48	16.61	17.83	18.21
	6H	27.60	28.77	28.01	29.13	29.52	16.67	17.84	17.09	18.21	18.60
	8H	27.74	28.85	28.16	29.24	29.64	16.81	17.92	17.24	18.31	18.71
	12H	27.81	28.88	28.24	29.26	29.69	16.90	17.96	17.33	18.34	18.77
4H	2H	24.60	25.87	25.00	26.22	26.60	14.15	15.41	14.55	15.76	16.14
	3H	26.63	27.68	27.04	28.08	28.48	16.49	17.53	16.90	17.93	18.33
	4H	27.12	28.06	27.55	28.47	28.91	17.28	18.22	17.72	18.64	19.07
	6H	27.63	28.44	28.09	28.89	29.35	17.86	18.67	18.31	19.11	19.57
	8H	27.82	28.58	28.28	29.02	29.49	18.03	18.78	18.49	19.23	19.70
	12H	27.94	28.62	28.43	29.10	29.57	18.15	18.82	18.63	19.30	19.77
8H	4H	27.04	27.80	27.51	28.25	28.71	17.87	18.63	18.34	19.07	19.54
	6H	27.55	28.18	28.05	28.67	29.15	18.52	19.15	19.02	19.64	20.12
	8H	27.75	28.32	28.27	28.83	29.32	18.75	19.31	19.26	19.82	20.31
	12H	27.91	28.41	28.42	28.90	29.47	18.92	19.42	19.43	19.91	20.48
12H	4H	27.01	27.69	27.50	28.17	28.64	17.95	18.63	18.44	19.11	19.58
	6H	27.51	28.07	28.02	28.58	29.07	18.63	19.20	19.15	19.71	20.20
	8H	27.73	28.23	28.24	28.72	29.29	18.92	19.42	19.43	19.91	20.47