

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: P893092

Luminaire Tested: 2MB-SC3-RFLW-UNV-CC93-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893092
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-SC3-RFLW-UNV-CC93-HI-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

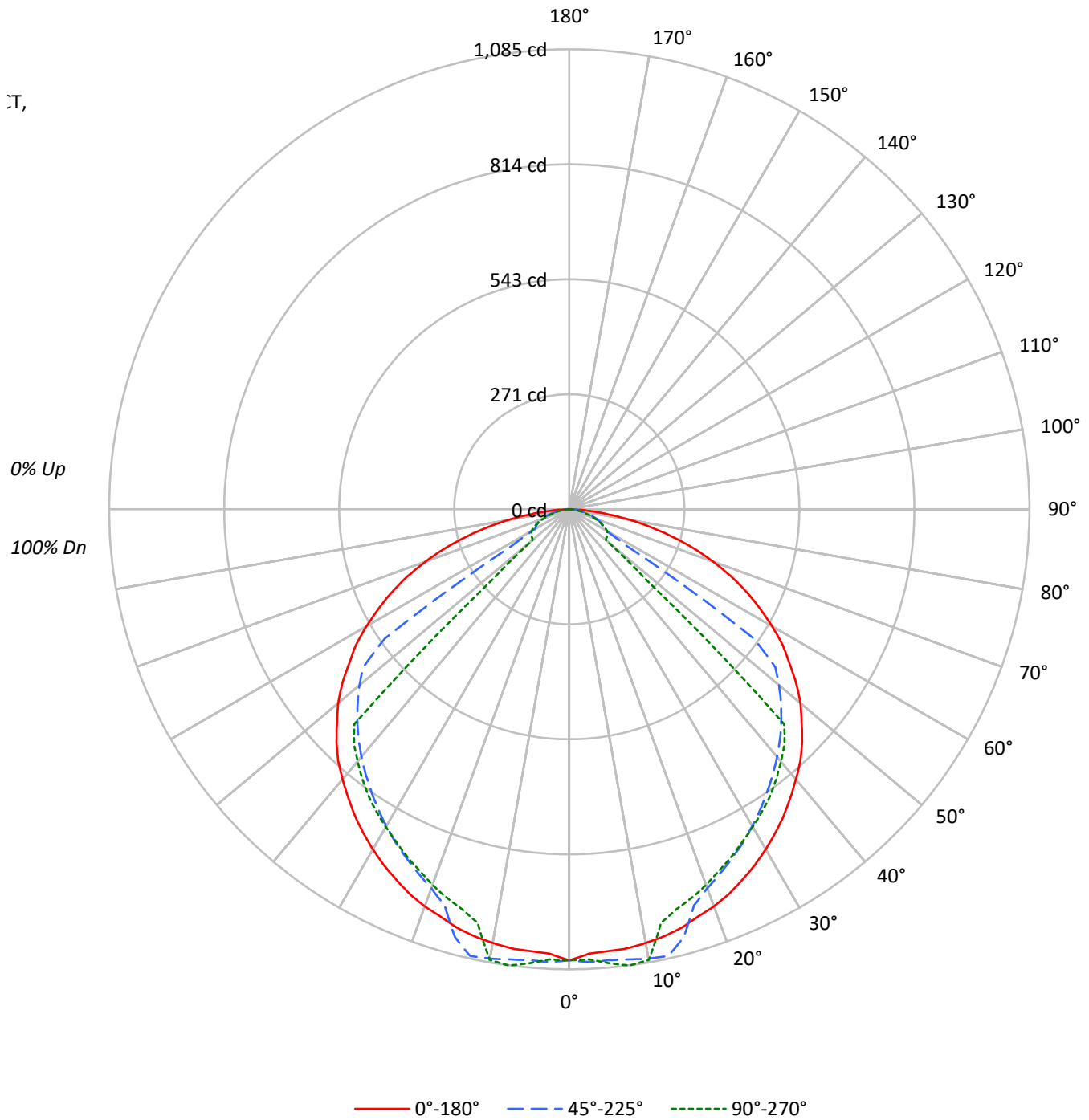
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2498.0 lumens
Efficiency: N/A
Efficacy: 119.0 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 (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	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°	27774	27774	27774
5°	27411	27974	28163
10°	27537	28520	28616
15°	27621	28205	26391
20°	27692	26428	26194
25°	27781	26160	26056
30°	27919	26005	26077
35°	28101	25925	26307
40°	28335	25967	26457
45°	28663	26097	26451
50°	28903	26226	4573
55°	28845	24156	4961
60°	28839	4877	5378
65°	28491	5183	5331
70°	27526	5397	4939
75°	25622	5074	4348
80°	21981	4495	3789
85°	14708	4314	3235

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 28989 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	4.1
10°-20°	287.4	11.5
20°-30°	430.1	17.2
30°-40°	518.6	20.8
40°-50°	522.2	20.9
50°-60°	325.8	13.0
60°-70°	204.8	8.2
70°-80°	85.2	3.4
80°-90°	21.9	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°	819.5	32.8
0°-40°	1338.1	53.6
0°-60°	2186.1	87.5
0°-90°	2498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1046	1067	1067	1069	1075	100
15°	1022	1053	1044	976	976	288
25°	964	1002	908	901	904	445
35°	882	825	813	818	825	552
45°	776	702	707	716	716	598
55°	634	558	531	104	109	568
65°	461	399	84	88	86	455
75°	254	61	50	44	43	268
85°	49	18	14	11	11	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1063.8	1063.8	1063.8	1063.8	1063.8
2.5°	1049.4	1068.6	1068.6	1063.8	1062.6
5°	1045.9	1067.4	1067.4	1068.6	1074.6
7.5°	1044.7	1065.0	1071.0	1078.2	1085.4
10°	1038.7	1062.6	1075.8	1085.4	1079.4
12.5°	1031.5	1057.8	1079.4	1018.3	999.1
15°	1021.9	1053.0	1043.5	976.4	976.4
17.5°	1007.5	1045.9	978.8	959.6	960.8
20°	996.7	1039.9	951.2	940.4	942.8
22.5°	982.4	1027.9	929.6	920.1	922.5
25°	964.4	1001.5	908.1	900.9	904.5
27.5°	946.4	947.6	886.5	881.7	884.1
30°	926.1	896.1	862.6	861.4	865.0
32.5°	904.5	857.8	838.6	841.0	845.8
35°	881.7	825.4	813.4	818.2	825.4
37.5°	856.6	795.5	788.3	796.7	801.5
40°	831.4	764.3	761.9	770.3	776.3
42.5°	806.3	734.4	735.6	744.0	751.1
45°	776.3	702.0	706.8	716.4	716.4
47.5°	742.8	667.3	676.9	656.5	243.2
50°	711.6	632.5	645.7	194.1	112.6
52.5°	674.5	595.4	612.2	106.6	110.2
55°	633.7	558.3	530.7	104.2	109.0
57.5°	596.6	519.9	158.1	103.0	106.6
60°	552.3	481.6	93.4	100.6	103.0
62.5°	506.8	440.9	88.7	95.8	95.8
65°	461.2	398.9	83.9	87.5	86.3
67.5°	412.1	355.8	79.1	76.7	75.5
70°	360.6	219.2	70.7	65.9	64.7
72.5°	309.1	75.5	61.1	55.1	53.9
75°	254.0	61.1	50.3	44.3	43.1
77.5°	200.1	50.3	39.5	34.7	33.5
80°	146.2	38.3	29.9	26.4	25.2
82.5°	94.6	27.6	22.8	18.0	16.8
85°	49.1	18.0	14.4	10.8	10.8
87.5°	19.2	10.8	7.2	4.8	3.6
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	24.54	26.05	24.91	26.37	26.68	13.18	14.69	13.54	15.01	15.32
	3H	26.46	27.81	26.84	28.14	28.50	15.31	16.66	15.69	16.99	17.35
	4H	26.95	28.21	27.35	28.56	28.94	16.00	17.26	16.40	17.61	17.99
	6H	27.38	28.55	27.79	28.92	29.31	16.46	17.63	16.87	17.99	18.38
	8H	27.52	28.63	27.95	29.02	29.42	16.59	17.70	17.02	18.09	18.50
	12H	27.60	28.66	28.03	29.04	29.47	16.68	17.74	17.11	18.13	18.55
4H	2H	24.39	25.65	24.79	26.00	26.38	13.93	15.20	14.33	15.55	15.92
	3H	26.42	27.46	26.83	27.86	28.26	16.27	17.32	16.69	17.72	18.12
	4H	26.90	27.84	27.34	28.26	28.70	17.07	18.00	17.50	18.42	18.86
	6H	27.42	28.23	27.87	28.67	29.13	17.64	18.45	18.10	18.89	19.36
	8H	27.60	28.36	28.07	28.81	29.27	17.81	18.57	18.27	19.01	19.48
	12H	27.73	28.40	28.21	28.88	29.35	17.93	18.61	18.41	19.09	19.56
8H	4H	26.83	27.59	27.29	28.03	28.50	17.65	18.41	18.12	18.86	19.33
	6H	27.34	27.96	27.84	28.46	28.93	18.31	18.93	18.81	19.43	19.90
	8H	27.54	28.10	28.05	28.61	29.10	18.53	19.10	19.05	19.61	20.09
	12H	27.70	28.20	28.21	28.69	29.25	18.71	19.21	19.22	19.70	20.26
12H	4H	26.80	27.47	27.28	27.95	28.42	17.74	18.41	18.22	18.89	19.36
	6H	27.29	27.86	27.81	28.37	28.86	18.42	18.98	18.93	19.49	19.98
	8H	27.52	28.02	28.03	28.51	29.07	18.70	19.20	19.21	19.69	20.26