

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: P894280

Luminaire Tested: 4MB-SC3-RFLW-UNV-CC83-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894280
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: 4MB-SC3-RFLW-UNV-CC83-HI-4000K
Description: Selectable 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 4000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

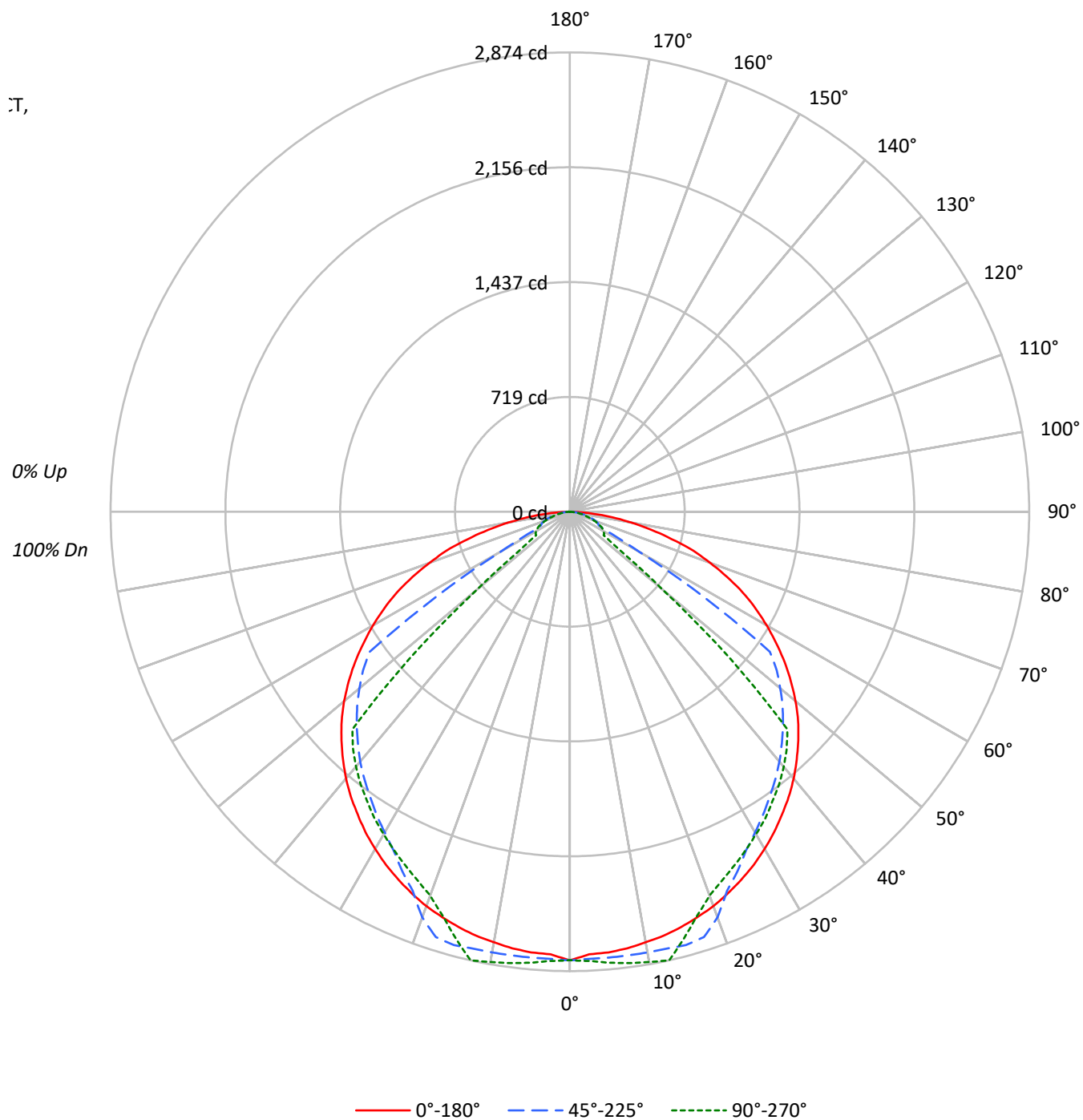
Lumens per Lamp: N/A
Luminaire Lumens: 6844.0 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38
Luminous Opening: Rectangular (W 0.21' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 50.7
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	108	104	101	98	100	97	94		96	94	92		92
2	101	94	88	83	99	92	87	82	89	84	80		86	82	78		83
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	60	71	65	59		69	63	59		67
5	79	67	59	53	77	66	58	53	64	57	52		62	56	51		61
6	73	61	53	47	72	60	52	46	58	51	46		57	50	46		55
7	68	55	47	41	67	55	47	41	53	46	41		52	45	41		50
8	64	51	43	37	62	50	42	37	49	42	37		48	41	37		46
9	60	47	39	33	58	46	39	33	45	38	33		44	38	33		43
10	56	43	35	30	55	43	35	30	42	35	30		41	34	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36437	36437	36437
5°	36073	36493	36912
10°	36066	36915	37721
15°	36165	37723	37117
20°	36286	37308	35307
25°	36377	35548	34948
30°	36525	34741	34933
35°	36676	34535	35045
40°	36929	34583	35292
45°	37111	34628	35339
50°	37249	34714	15276
55°	37155	34603	5827
60°	36940	13203	6352
65°	36683	6130	6526
70°	35430	6598	6109
75°	33097	6296	5328
80°	29119	5534	4569
85°	23018	4797	3829

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 50°

Luminance: 37249 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	3.9
10°-20°	778.1	11.4
20°-30°	1161.0	17.0
30°-40°	1407.3	20.6
40°-50°	1441.0	21.1
50°-60°	958.3	14.0
60°-70°	546.2	8.0
70°-80°	229.5	3.4
80°-90°	54.7	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°	2207.1	32.2
0°-40°	3614.4	52.8
0°-60°	6013.6	87.9
0°-90°	6844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2806	2806	2806	2806	2806	
5°	2768	2822	2800	2806	2832	263
15°	2690	2764	2806	2796	2761	760
25°	2539	2661	2481	2426	2439	1171
35°	2314	2356	2179	2188	2211	1449
45°	2021	1899	1886	1908	1924	1559
55°	1641	1503	1528	335	257	1466
65°	1194	1068	200	212	212	1175
75°	660	138	126	109	106	700
85°	154	39	32	26	26	185
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2806.1	2806.1	2806.1	2806.1	2806.1
2.5°	2770.7	2828.6	2799.7	2802.9	2812.5
5°	2767.5	2822.2	2799.7	2806.1	2831.8
7.5°	2754.6	2812.5	2799.7	2819.0	2847.9
10°	2735.3	2802.9	2799.7	2831.8	2860.8
12.5°	2716.0	2783.6	2799.7	2847.9	2873.7
15°	2690.2	2764.3	2806.1	2796.4	2761.0
17.5°	2658.1	2745.0	2790.0	2651.6	2648.4
20°	2625.9	2719.2	2699.9	2568.0	2555.1
22.5°	2584.1	2693.5	2568.0	2477.9	2493.9
25°	2539.0	2661.3	2481.1	2426.4	2439.2
27.5°	2490.7	2629.1	2387.8	2368.4	2384.5
30°	2436.0	2584.1	2317.0	2310.5	2329.8
32.5°	2378.1	2497.2	2249.4	2252.6	2275.1
35°	2313.7	2355.6	2178.6	2188.2	2210.8
37.5°	2249.4	2223.6	2111.0	2127.1	2149.6
40°	2178.6	2120.7	2040.2	2056.3	2082.0
42.5°	2101.4	2011.2	1963.0	1985.5	2008.0
45°	2020.9	1898.6	1885.7	1908.3	1924.4
47.5°	1937.2	1802.1	1805.3	1821.4	1364.4
50°	1843.9	1705.5	1718.4	1190.7	756.2
52.5°	1744.2	1605.8	1631.5	662.9	382.9
55°	1641.2	1502.8	1528.5	334.7	257.4
57.5°	1531.8	1399.8	997.6	241.3	254.2
60°	1422.4	1290.4	508.4	238.1	244.6
62.5°	1309.7	1181.0	241.3	228.5	231.7
65°	1193.9	1068.4	199.5	212.4	212.4
67.5°	1065.2	949.3	189.9	189.9	186.6
70°	933.2	788.4	173.8	164.1	160.9
72.5°	810.9	302.5	151.2	135.2	131.9
75°	659.7	138.4	125.5	109.4	106.2
77.5°	524.5	115.8	99.8	86.9	83.7
80°	389.4	90.1	74.0	64.4	61.1
82.5°	270.3	61.1	51.5	41.8	41.8
85°	154.5	38.6	32.2	25.7	25.7
87.5°	61.1	19.3	16.1	9.7	9.7
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	25.42	26.94	25.78	27.25	27.57	13.18	14.70	13.55	15.02	15.33
	3H	27.44	28.80	27.82	29.12	29.49	15.50	16.86	15.88	17.18	17.55
	4H	27.90	29.17	28.30	29.52	29.90	16.21	17.48	16.61	17.83	18.21
	6H	28.31	29.48	28.72	29.85	30.24	16.69	17.87	17.11	18.23	18.63
	8H	28.46	29.57	28.88	29.96	30.36	16.83	17.95	17.26	18.34	18.74
	12H	28.55	29.62	28.99	30.00	30.43	16.92	17.99	17.35	18.37	18.80
4H	2H	25.26	26.53	25.66	26.88	27.26	13.98	15.25	14.38	15.60	15.98
	3H	27.46	28.51	27.87	28.91	29.31	16.49	17.54	16.90	17.94	18.34
	4H	27.91	28.85	28.34	29.27	29.70	17.31	18.25	17.75	18.67	19.11
	6H	28.38	29.19	28.83	29.63	30.09	17.90	18.72	18.36	19.16	19.62
	8H	28.57	29.33	29.03	29.77	30.24	18.07	18.84	18.54	19.28	19.75
	12H	28.72	29.40	29.20	29.88	30.35	18.19	18.87	18.67	19.35	19.82
8H	4H	27.83	28.59	28.29	29.03	29.50	18.15	18.91	18.62	19.36	19.82
	6H	28.29	28.92	28.79	29.41	29.89	18.77	19.40	19.27	19.89	20.37
	8H	28.49	29.05	29.00	29.56	30.05	18.97	19.54	19.49	20.05	20.54
	12H	28.67	29.17	29.18	29.67	30.23	19.13	19.63	19.64	20.12	20.69
12H	4H	27.80	28.48	28.28	28.96	29.43	18.22	18.90	18.71	19.38	19.85
	6H	28.24	28.81	28.76	29.32	29.81	18.87	19.43	19.38	19.94	20.43
	8H	28.46	28.97	28.97	29.46	30.02	19.12	19.62	19.63	20.11	20.68