

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: P894266

Luminaire Tested: 4MB-SC3-LVRF-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVRF-UNV-CC83-LOW-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 5000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

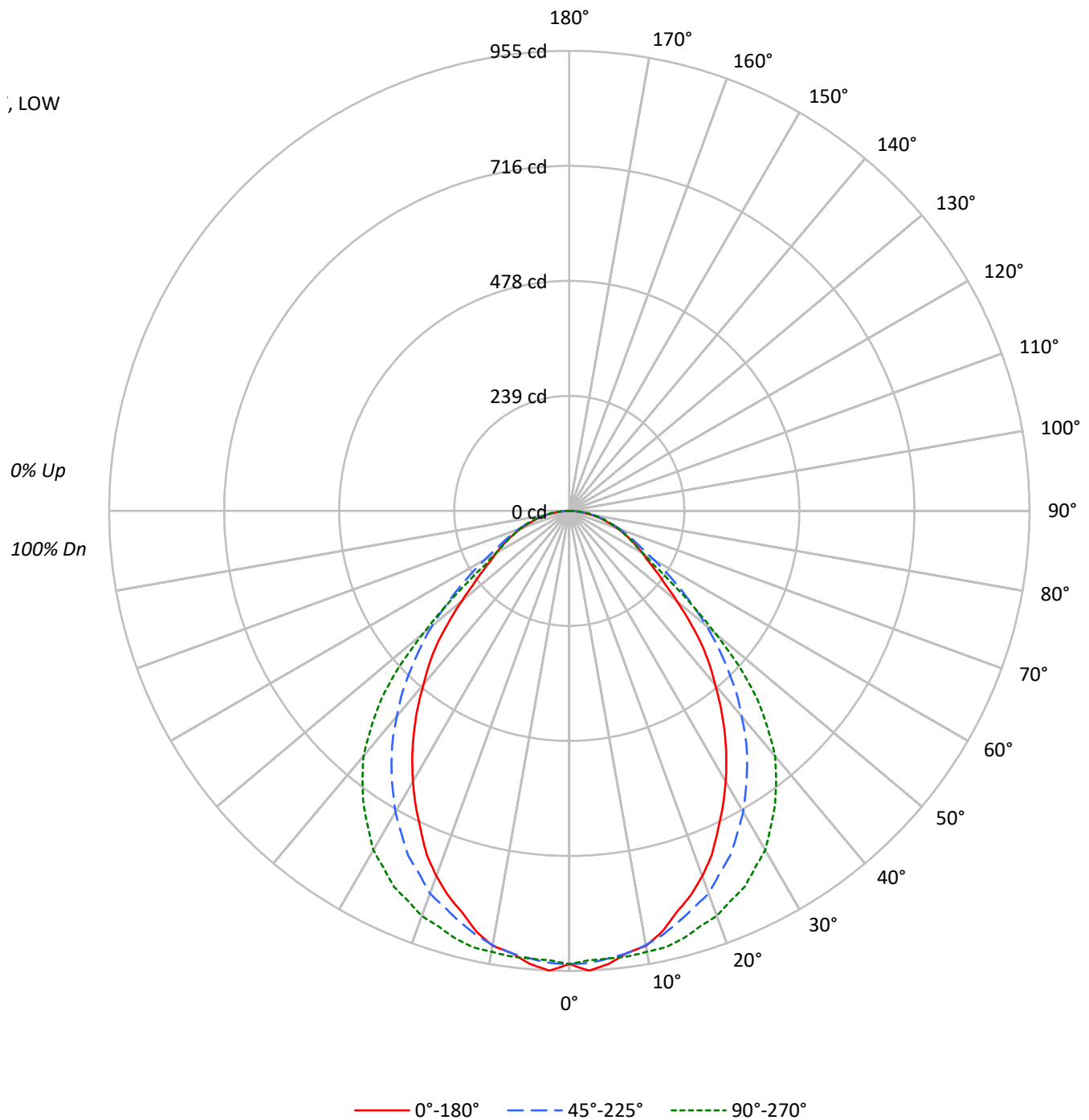
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1955.0 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
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	100	100	100	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	75	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	65	65	65	65	
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57	57	57	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50	50	50	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45	45	45	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40	40	
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	36	36	36	36	
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33	33	33	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6693	6693	6693
5°	6739	6662	6662
10°	6623	6612	6715
15°	6349	6497	6763
20°	6107	6400	6774
25°	5729	6202	6759
30°	5333	5928	6679
35°	4881	5591	6467
40°	4371	5171	6170
45°	3879	4681	5547
50°	3227	4121	4374
55°	2749	3471	3179
60°	2492	2867	2513
65°	2347	2512	2338
70°	2207	2330	2280
75°	2056	2218	2177
80°	1885	2045	2106
85°	1641	1796	2359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5547 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	4.6
10°-20°	250.6	12.8
20°-30°	363.9	18.6
30°-40°	405.2	20.7
40°-50°	358.0	18.3
50°-60°	234.9	12.0
60°-70°	143.9	7.4
70°-80°	83.7	4.3
80°-90°	25.6	1.3
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°	703.6	36.0
0°-40°	1108.8	56.7
0°-60°	1701.8	87.0
0°-90°	1955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	944	944	933	942	933	89
15°	862	872	882	917	918	243
25°	730	747	790	840	861	336
35°	562	592	644	712	744	351
45°	386	409	465	528	551	295
55°	222	237	280	277	256	201
65°	139	142	149	145	139	139
75°	75	76	81	82	79	79
85°	20	21	22	25	29	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	940.7	940.7	940.7	940.7	940.7
2.5°	955.3	943.6	939.2	943.6	933.8
5°	943.6	944.1	932.8	942.1	932.8
7.5°	925.0	931.4	926.0	940.2	932.8
10°	916.7	917.2	915.2	929.9	929.4
12.5°	893.7	895.2	900.5	922.6	927.4
15°	861.9	871.7	882.0	916.7	918.2
17.5°	837.0	848.7	862.4	899.6	904.0
20°	806.6	811.5	845.3	878.0	894.7
22.5°	772.9	782.2	814.9	859.0	875.6
25°	729.8	747.4	790.0	840.4	860.9
27.5°	690.2	710.8	754.8	811.0	835.0
30°	649.1	672.6	721.5	776.8	813.0
32.5°	606.6	635.9	682.4	746.0	777.8
35°	562.0	592.4	643.7	711.7	744.5
37.5°	517.5	546.9	602.6	675.5	704.9
40°	470.6	499.4	556.7	630.5	664.3
42.5°	430.0	454.9	513.6	576.7	608.0
45°	385.5	408.9	465.2	527.8	551.3
47.5°	336.5	363.9	418.7	470.1	479.4
50°	291.5	319.9	372.3	402.1	395.2
52.5°	251.9	275.9	323.8	336.5	320.4
55°	221.6	237.2	279.8	277.4	256.3
57.5°	193.7	203.5	239.7	226.0	205.9
60°	175.1	179.5	201.5	188.8	176.6
62.5°	157.5	159.5	171.2	164.4	155.1
65°	139.4	141.9	149.2	144.8	138.9
67.5°	122.8	123.8	130.6	129.6	122.3
70°	106.1	107.6	112.0	114.0	109.6
72.5°	90.0	91.5	95.9	97.8	93.9
75°	74.8	75.8	80.7	82.2	79.2
77.5°	60.2	62.1	65.1	67.5	64.1
80°	46.0	47.0	49.9	52.8	51.4
82.5°	32.3	33.8	35.7	39.6	40.6
85°	20.1	21.0	22.0	24.9	28.9
87.5°	7.8	8.3	9.8	10.8	14.2
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	14.13	15.62	14.50	15.93	16.24	14.79	16.27	15.15	16.58	16.90
	3H	15.74	17.06	16.11	17.39	17.75	16.22	17.55	16.60	17.88	18.24
	4H	16.35	17.59	16.75	17.94	18.32	16.83	18.07	17.23	18.42	18.80
	6H	16.82	17.97	17.24	18.34	18.73	17.31	18.46	17.73	18.83	19.22
	8H	16.98	18.07	17.40	18.46	18.86	17.51	18.60	17.94	18.99	19.39
	12H	17.08	18.12	17.51	18.50	18.93	17.68	18.72	18.11	19.11	19.53
4H	2H	14.76	16.00	15.16	16.35	16.73	15.28	16.52	15.68	16.87	17.25
	3H	16.58	17.61	16.99	18.01	18.41	16.98	18.01	17.39	18.41	18.81
	4H	17.32	18.24	17.75	18.66	19.10	17.73	18.66	18.16	19.07	19.51
	6H	17.91	18.72	18.37	19.16	19.62	18.37	19.17	18.82	19.61	20.08
	8H	18.11	18.86	18.57	19.31	19.78	18.62	19.37	19.09	19.82	20.29
	12H	18.25	18.92	18.74	19.40	19.88	18.85	19.52	19.33	20.00	20.47
8H	4H	17.63	18.39	18.10	18.83	19.30	18.00	18.75	18.47	19.20	19.67
	6H	18.36	18.98	18.86	19.47	19.95	18.78	19.40	19.27	19.89	20.37
	8H	18.63	19.19	19.15	19.70	20.19	19.12	19.68	19.64	20.19	20.68
	12H	18.85	19.35	19.36	19.84	20.40	19.44	19.94	19.95	20.43	20.99
12H	4H	17.67	18.34	18.15	18.82	19.29	18.02	18.69	18.50	19.17	19.64
	6H	18.42	18.98	18.94	19.49	19.98	18.82	19.38	19.34	19.89	20.38
	8H	18.76	19.25	19.27	19.75	20.31	19.23	19.72	19.74	20.22	20.78