

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: P894270

Luminaire Tested: 4MB-SC3-LVRF-UNV-CC93-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894270
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-CC93-HI-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3500K CCT
lumen setting
Light Source: -
Ballast/Driver: -

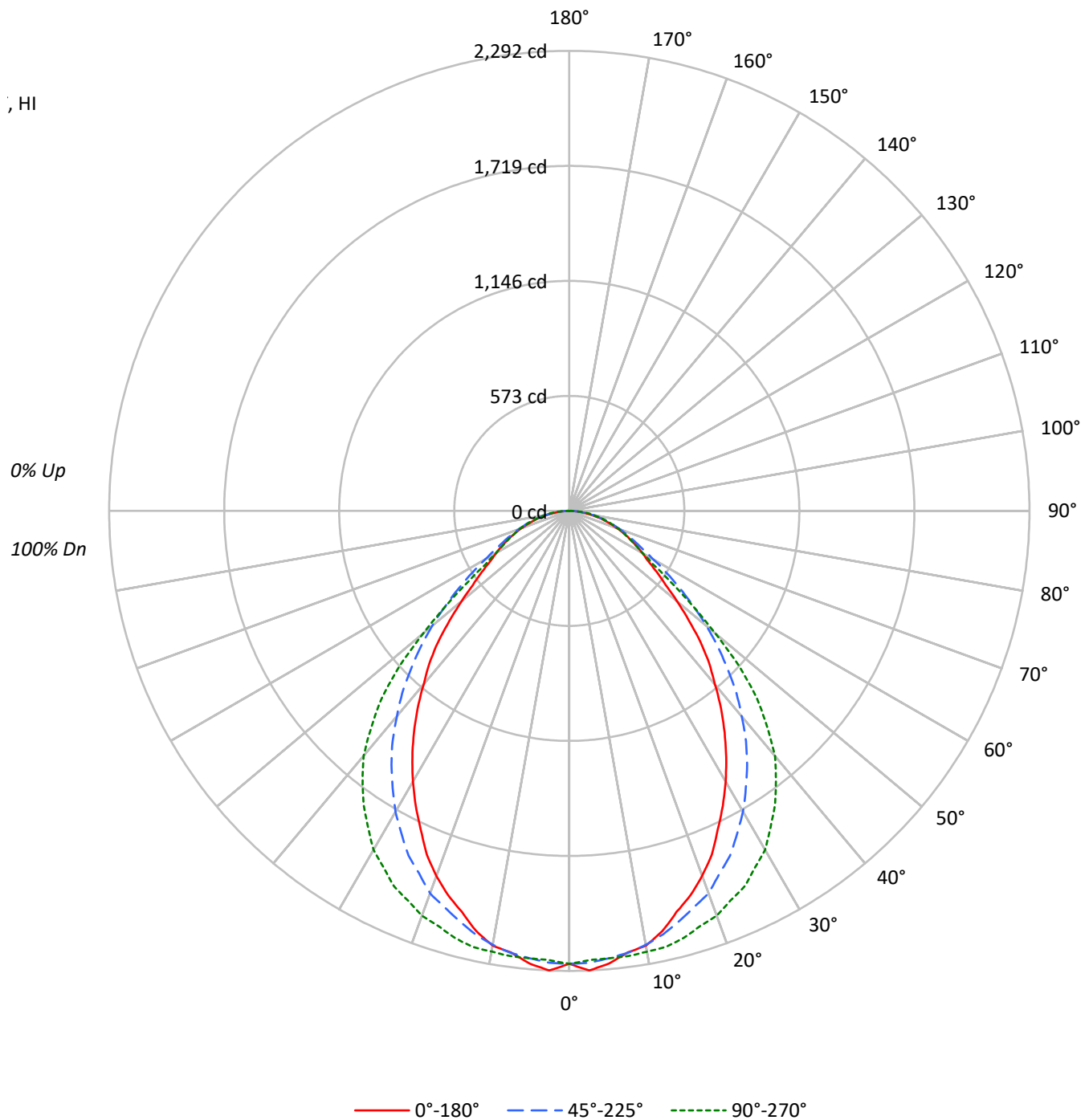
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4690.0 lumens
Efficiency: N/A
Efficacy: 92.5 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): 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			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	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16056	16056	16056
5°	16168	15983	15983
10°	15888	15863	16108
15°	15231	15585	16224
20°	14652	15354	16251
25°	13745	14878	16214
30°	12793	14221	16023
35°	11711	13413	15513
40°	10485	12403	14801
45°	9304	11229	13307
50°	7742	9885	10496
55°	6594	8326	7628
60°	5978	6880	6028
65°	5630	6025	5611
70°	5296	5590	5469
75°	4934	5322	5226
80°	4519	4905	5048
85°	3927	4310	5649

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13307 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	4.6
10°-20°	601.2	12.8
20°-30°	873.0	18.6
30°-40°	972.2	20.7
40°-50°	858.9	18.3
50°-60°	563.6	12.0
60°-70°	345.1	7.4
70°-80°	200.8	4.3
80°-90°	61.5	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°	1687.9	36.0
0°-40°	2660.1	56.7
0°-60°	4082.5	87.0
0°-90°	4690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4690.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2257	2257	2257	2257	2257	
5°	2264	2265	2238	2260	2238	213
15°	2068	2091	2116	2199	2203	583
25°	1751	1793	1895	2016	2065	806
35°	1348	1421	1544	1707	1786	841
45°	925	981	1116	1266	1322	707
55°	532	569	671	665	615	482
65°	334	340	358	347	333	333
75°	180	182	194	197	190	190
85°	48	50	53	60	69	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2256.6	2256.6	2256.6	2256.6	2256.6
2.5°	2291.8	2263.7	2253.1	2263.7	2240.2
5°	2263.7	2264.8	2237.8	2260.1	2237.8
7.5°	2219.1	2234.3	2221.4	2255.4	2237.8
10°	2199.1	2200.3	2195.6	2230.8	2229.6
12.5°	2144.0	2147.5	2160.4	2213.2	2224.9
15°	2067.7	2091.2	2115.8	2199.1	2202.6
17.5°	2007.8	2036.0	2068.9	2158.0	2168.6
20°	1935.1	1946.8	2027.8	2106.4	2146.3
22.5°	1854.1	1876.4	1955.0	2060.6	2100.5
25°	1750.8	1793.1	1895.2	2016.0	2065.3
27.5°	1655.8	1705.1	1810.7	1945.6	2003.1
30°	1557.2	1613.5	1730.9	1863.5	1950.3
32.5°	1455.1	1525.5	1637.0	1789.6	1865.8
35°	1348.3	1421.1	1544.3	1707.4	1786.0
37.5°	1241.5	1312.0	1445.7	1620.6	1691.0
40°	1128.9	1198.1	1335.4	1512.6	1593.6
42.5°	1031.5	1091.3	1232.2	1383.5	1458.6
45°	924.7	981.0	1116.0	1266.2	1322.5
47.5°	807.4	873.1	1004.5	1127.7	1150.0
50°	699.4	767.5	893.0	964.6	948.2
52.5°	604.3	661.8	776.8	807.4	768.6
55°	531.6	569.1	671.2	665.4	614.9
57.5°	464.7	488.2	575.0	542.2	494.0
60°	420.1	430.7	483.5	453.0	423.6
62.5°	377.9	382.6	410.7	394.3	372.0
65°	334.4	340.3	357.9	347.4	333.3
67.5°	294.5	296.9	313.3	311.0	293.4
70°	254.6	258.2	268.7	273.4	262.9
72.5°	215.9	219.4	230.0	234.7	225.3
75°	179.5	181.9	193.6	197.1	190.1
77.5°	144.3	149.0	156.1	161.9	153.7
80°	110.3	112.7	119.7	126.7	123.2
82.5°	77.5	81.0	85.7	95.1	97.4
85°	48.1	50.5	52.8	59.8	69.2
87.5°	18.8	19.9	23.5	25.8	34.0
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	17.17	18.66	17.54	18.97	19.28	17.83	19.31	18.19	19.62	19.94
	3H	18.78	20.10	19.15	20.43	20.79	19.26	20.59	19.64	20.92	21.28
	4H	19.39	20.63	19.79	20.98	21.36	19.87	21.11	20.27	21.46	21.84
	6H	19.86	21.01	20.28	21.38	21.77	20.35	21.50	20.77	21.87	22.26
	8H	20.02	21.11	20.44	21.50	21.90	20.55	21.64	20.98	22.03	22.43
	12H	20.12	21.16	20.55	21.54	21.97	20.72	21.76	21.15	22.15	22.57
4H	2H	17.80	19.04	18.20	19.39	19.77	18.32	19.56	18.72	19.91	20.29
	3H	19.62	20.65	20.03	21.05	21.45	20.02	21.05	20.43	21.45	21.85
	4H	20.36	21.28	20.79	21.70	22.14	20.77	21.70	21.20	22.11	22.55
	6H	20.95	21.76	21.41	22.20	22.66	21.41	22.21	21.86	22.65	23.12
	8H	21.15	21.90	21.61	22.35	22.82	21.66	22.41	22.13	22.86	23.33
	12H	21.29	21.96	21.77	22.44	22.91	21.88	22.56	22.37	23.04	23.51
8H	4H	20.67	21.43	21.14	21.87	22.34	21.04	21.79	21.51	22.24	22.71
	6H	21.40	22.02	21.90	22.51	22.99	21.82	22.44	22.31	22.93	23.41
	8H	21.67	22.23	22.19	22.74	23.23	22.16	22.72	22.68	23.23	23.72
	12H	21.89	22.39	22.40	22.88	23.44	22.48	22.98	22.99	23.47	24.03
12H	4H	20.71	21.38	21.19	21.86	22.33	21.06	21.73	21.54	22.21	22.68
	6H	21.46	22.02	21.98	22.53	23.02	21.86	22.42	22.38	22.93	23.42
	8H	21.80	22.29	22.31	22.78	23.35	22.27	22.76	22.78	23.26	23.82