

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: P894234

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVR-UNV-CC93-HI-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

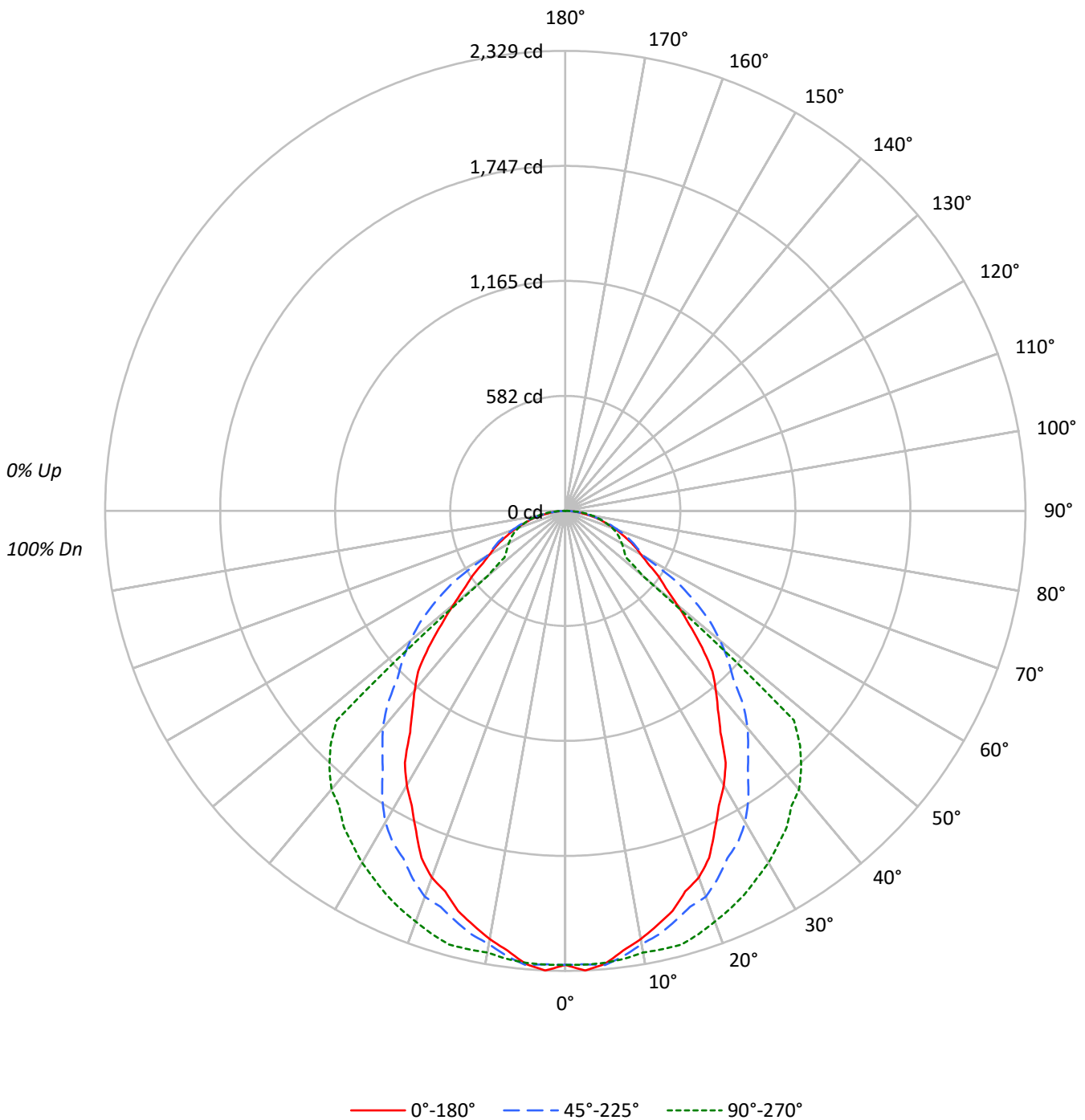
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4905.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65	65	
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36	36	
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	33	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16354	16354	16354
5°	16441	16483	16399
10°	15902	16089	16402
15°	15444	15832	16741
20°	14959	15741	16754
25°	14035	15234	16828
30°	13184	14958	16897
35°	11889	13989	16976
40°	11012	13346	17096
45°	9851	12096	16902
50°	8173	11330	5678
55°	7120	9946	4544
60°	6298	6482	4710
65°	5988	6305	5000
70°	5617	5958	5276
75°	5229	5616	5421
80°	4761	5290	5675
85°	4221	4506	6131

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 16902 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.0	4.4
10°-20°	613.3	12.5
20°-30°	902.2	18.4
30°-40°	1031.8	21.0
40°-50°	977.0	19.9
50°-60°	538.3	11.0
60°-70°	345.6	7.0
70°-80°	213.3	4.3
80°-90°	65.7	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°	1733.5	35.3
0°-40°	2765.3	56.4
0°-60°	4280.5	87.3
0°-90°	4905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2298	2298	2298	2298	2298	
5°	2302	2321	2308	2308	2296	216
15°	2097	2122	2149	2262	2273	589
25°	1788	1868	1940	2067	2144	823
35°	1369	1486	1611	1844	1954	865
45°	979	1072	1202	1542	1680	749
55°	574	602	802	413	366	513
65°	356	367	374	333	297	352
75°	190	194	204	215	197	202
85°	52	52	55	63	75	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2298.5	2298.5	2298.5	2298.5	2298.5
2.5°	2329.0	2334.9	2297.3	2296.1	2299.7
5°	2302.0	2320.8	2307.9	2307.9	2296.1
7.5°	2244.5	2276.2	2272.7	2299.7	2286.8
10°	2201.1	2226.9	2226.9	2297.3	2270.3
12.5°	2149.4	2178.8	2195.2	2269.1	2272.7
15°	2096.6	2122.4	2149.4	2262.1	2272.7
17.5°	2020.3	2067.2	2101.3	2211.6	2245.7
20°	1975.7	2003.8	2079.0	2168.2	2212.8
22.5°	1901.7	1942.8	2015.6	2115.4	2181.1
25°	1787.8	1867.7	1940.5	2067.2	2143.5
27.5°	1682.2	1742.1	1892.3	2026.1	2098.9
30°	1604.7	1651.7	1820.7	1966.3	2056.7
32.5°	1510.8	1587.1	1724.5	1907.6	2003.8
35°	1368.8	1486.2	1610.6	1844.2	1954.5
37.5°	1269.0	1350.0	1519.0	1778.5	1880.6
40°	1185.6	1259.6	1436.9	1696.3	1840.7
42.5°	1102.3	1162.2	1333.5	1635.2	1766.7
45°	979.0	1071.8	1202.1	1542.5	1679.8
47.5°	849.9	948.5	1116.4	1463.9	1569.5
50°	738.4	817.0	1023.6	1307.7	513.0
52.5°	640.9	713.7	925.0	473.1	387.4
55°	574.0	602.2	801.8	413.2	366.3
57.5°	494.2	540.0	672.6	393.3	347.5
60°	442.6	462.5	455.5	373.3	331.0
62.5°	401.5	415.6	413.2	353.3	312.3
65°	355.7	367.4	374.5	333.4	297.0
67.5°	309.9	320.5	331.0	308.7	275.9
70°	270.0	277.0	286.4	279.4	253.6
72.5°	228.9	237.1	243.0	248.9	224.2
75°	190.2	193.7	204.3	214.8	197.2
77.5°	155.0	158.5	165.5	177.3	167.9
80°	116.2	119.7	129.1	138.5	138.5
82.5°	82.2	84.5	90.4	103.3	109.2
85°	51.7	51.7	55.2	63.4	75.1
87.5°	20.0	20.0	23.5	28.2	37.6
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	17.66	19.14	18.02	19.46	19.77	15.46	16.94	15.83	17.26	17.57
	3H	19.19	20.51	19.56	20.84	21.20	17.79	19.12	18.17	19.45	19.81
	4H	19.78	21.02	20.18	21.37	21.75	18.74	19.98	19.14	20.33	20.71
	6H	20.23	21.38	20.65	21.75	22.14	19.53	20.67	19.94	21.04	21.43
	8H	20.38	21.47	20.81	21.86	22.26	19.84	20.93	20.27	21.32	21.72
	12H	20.48	21.52	20.91	21.90	22.33	20.09	21.13	20.52	21.51	21.94
4H	2H	18.21	19.45	18.61	19.80	20.18	16.57	17.81	16.97	18.16	18.54
	3H	19.98	21.01	20.39	21.41	21.81	19.01	20.04	19.42	20.44	20.84
	4H	20.70	21.63	21.13	22.04	22.48	20.08	21.00	20.51	21.42	21.86
	6H	21.29	22.09	21.75	22.54	23.00	20.97	21.77	21.42	22.21	22.68
	8H	21.48	22.23	21.94	22.67	23.14	21.32	22.07	21.78	22.51	22.98
	12H	21.61	22.29	22.10	22.77	23.24	21.61	22.28	22.09	22.76	23.23
8H	4H	21.01	21.76	21.47	22.21	22.67	20.46	21.22	20.93	21.66	22.13
	6H	21.72	22.34	22.22	22.84	23.31	21.50	22.12	22.00	22.62	23.09
	8H	21.98	22.54	22.50	23.05	23.54	21.94	22.51	22.46	23.02	23.51
	12H	22.19	22.69	22.70	23.18	23.75	22.33	22.83	22.84	23.32	23.89
12H	4H	21.04	21.72	21.53	22.20	22.67	20.50	21.17	20.98	21.65	22.12
	6H	21.78	22.35	22.30	22.86	23.35	21.56	22.13	22.08	22.64	23.13
	8H	22.10	22.60	22.61	23.10	23.66	22.07	22.57	22.58	23.06	23.63