

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: P895462

Luminaire Tested: 8TMB-SC3-LVRF-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895462
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: 8TMB-SC3-LVRF-UNV-CC83-LOW-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 5000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

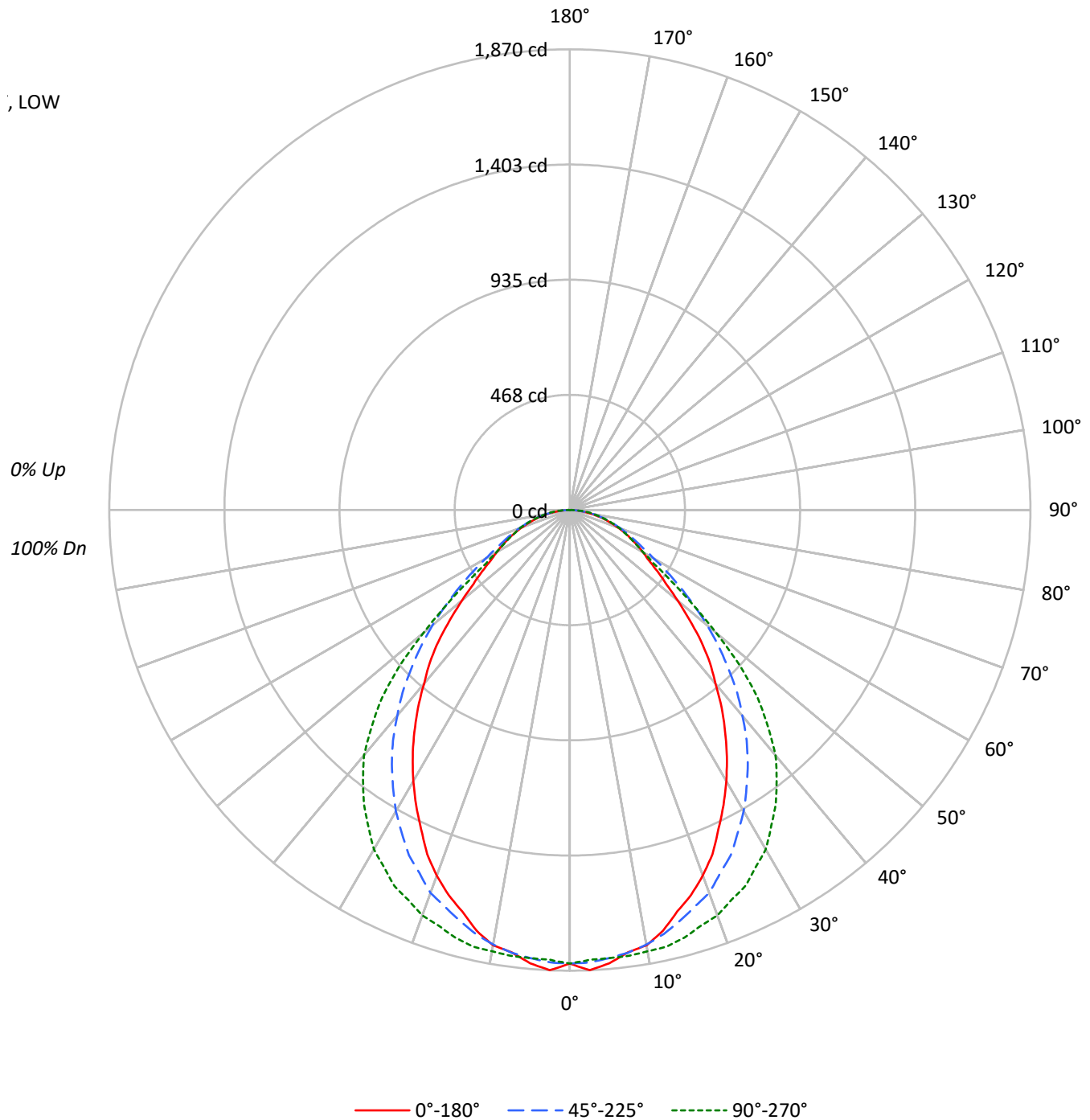
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3826.0 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
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	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°	6532	6532	6532
5°	6577	6502	6502
10°	6464	6453	6553
15°	6196	6340	6601
20°	5961	6246	6611
25°	5592	6052	6596
30°	5204	5785	6518
35°	4764	5457	6311
40°	4265	5046	6021
45°	3785	4568	5414
50°	3150	4021	4270
55°	2683	3387	3103
60°	2432	2799	2452
65°	2290	2452	2283
70°	2155	2274	2224
75°	2008	2166	2126
80°	1839	1994	2054
85°	1596	1755	2300

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5414 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	4.6
10°-20°	490.4	12.8
20°-30°	712.2	18.6
30°-40°	793.1	20.7
40°-50°	700.7	18.3
50°-60°	459.8	12.0
60°-70°	281.5	7.4
70°-80°	163.8	4.3
80°-90°	50.2	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°	1376.9	36.0
0°-40°	2170.0	56.7
0°-60°	3330.5	87.0
0°-90°	3826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1841	1841	1841	1841	1841	
5°	1847	1848	1826	1844	1826	174
15°	1687	1706	1726	1794	1797	476
25°	1428	1463	1546	1645	1685	657
35°	1100	1159	1260	1393	1457	686
45°	754	800	910	1033	1079	577
55°	434	464	548	543	502	393
65°	273	278	292	283	272	271
75°	146	148	158	161	155	155
85°	39	41	43	49	56	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1840.9	1840.9	1840.9	1840.9	1840.9
2.5°	1869.6	1846.6	1838.0	1846.6	1827.5
5°	1846.6	1847.6	1825.6	1843.8	1825.6
7.5°	1810.3	1822.7	1812.2	1839.9	1825.6
10°	1794.0	1794.9	1791.1	1819.8	1818.9
12.5°	1749.0	1751.9	1762.4	1805.5	1815.0
15°	1686.8	1705.9	1726.0	1794.0	1796.9
17.5°	1637.9	1660.9	1687.7	1760.5	1769.1
20°	1578.6	1588.2	1654.2	1718.4	1750.9
22.5°	1512.5	1530.7	1594.9	1681.0	1713.6
25°	1428.3	1462.8	1546.0	1644.6	1684.9
27.5°	1350.8	1391.0	1477.1	1587.2	1634.1
30°	1270.3	1316.3	1412.0	1520.2	1591.0
32.5°	1187.1	1244.5	1335.4	1459.9	1522.1
35°	1099.9	1159.3	1259.8	1392.9	1457.0
37.5°	1012.8	1070.3	1179.4	1322.0	1379.5
40°	920.9	977.4	1089.4	1234.0	1300.0
42.5°	841.5	890.3	1005.2	1128.7	1189.9
45°	754.4	800.3	910.4	1032.9	1078.9
47.5°	658.6	712.2	819.5	920.0	938.2
50°	570.6	626.1	728.5	786.9	773.5
52.5°	493.0	539.9	633.7	658.6	627.0
55°	433.7	464.3	547.6	542.8	501.6
57.5°	379.1	398.2	469.1	442.3	403.0
60°	342.7	351.3	394.4	369.5	345.6
62.5°	308.3	312.1	335.1	321.7	303.5
65°	272.8	277.6	292.0	283.4	271.9
67.5°	240.3	242.2	255.6	253.7	239.3
70°	207.7	210.6	219.2	223.1	214.4
72.5°	176.1	179.0	187.6	191.5	183.8
75°	146.5	148.4	158.0	160.8	155.1
77.5°	117.7	121.6	127.3	132.1	125.4
80°	90.0	91.9	97.6	103.4	100.5
82.5°	63.2	66.1	69.9	77.5	79.5
85°	39.2	41.2	43.1	48.8	56.5
87.5°	15.3	16.3	19.1	21.1	27.8
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	14.05	15.53	14.41	15.84	16.16	14.70	16.18	15.07	16.50	16.81
	3H	15.65	16.98	16.03	17.30	17.67	16.14	17.46	16.52	17.79	18.15
	4H	16.27	17.51	16.67	17.86	18.24	16.74	17.98	17.14	18.33	18.71
	6H	16.74	17.88	17.15	18.25	18.64	17.23	18.38	17.64	18.74	19.14
	8H	16.89	17.98	17.32	18.37	18.77	17.43	18.52	17.85	18.91	19.31
	12H	16.99	18.03	17.42	18.42	18.85	17.59	18.64	18.03	19.02	19.45
4H	2H	14.67	15.91	15.07	16.26	16.64	15.20	16.44	15.60	16.79	17.17
	3H	16.49	17.52	16.90	17.92	18.32	16.89	17.92	17.30	18.32	18.72
	4H	17.23	18.16	17.66	18.57	19.01	17.65	18.57	18.08	18.99	19.43
	6H	17.83	18.63	18.29	19.08	19.54	18.28	19.09	18.74	19.53	19.99
	8H	18.03	18.78	18.49	19.22	19.69	18.54	19.29	19.00	19.73	20.20
	12H	18.17	18.84	18.65	19.32	19.79	18.76	19.43	19.24	19.91	20.38
8H	4H	17.55	18.30	18.01	18.75	19.21	17.92	18.67	18.38	19.11	19.58
	6H	18.27	18.90	18.77	19.39	19.87	18.69	19.31	19.19	19.81	20.28
	8H	18.55	19.11	19.06	19.62	20.11	19.04	19.60	19.55	20.11	20.60
	12H	18.76	19.26	19.27	19.75	20.32	19.35	19.85	19.86	20.34	20.91
12H	4H	17.58	18.26	18.07	18.73	19.21	17.94	18.61	18.42	19.09	19.56
	6H	18.34	18.90	18.85	19.41	19.90	18.74	19.30	19.25	19.81	20.30
	8H	18.67	19.17	19.18	19.66	20.23	19.14	19.64	19.65	20.13	20.70