

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: P895027

Luminaire Tested: 8TMB-4SL-LVRF-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895027
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-4SL-LVRF-UNV-L940
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 4000K C
Light Source: -
Ballast/Driver: -

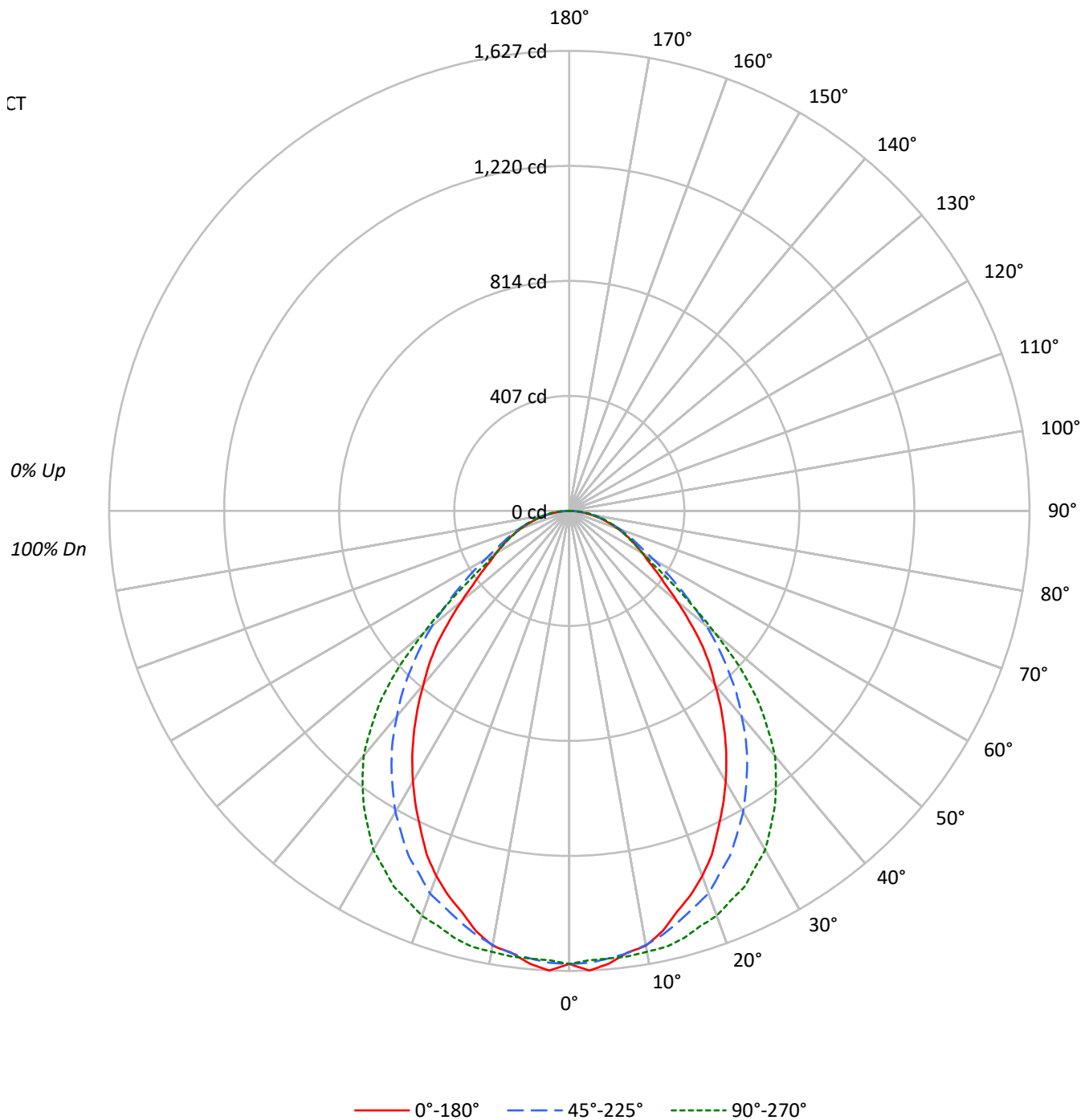
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3330.0 lumens
Efficiency: N/A
Efficacy: 120.7 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): 27.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4.5
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°	5685	5685	5685
5°	5724	5659	5659
10°	5626	5617	5704
15°	5393	5518	5745
20°	5188	5436	5754
25°	4867	5268	5741
30°	4530	5035	5674
35°	4147	4749	5493
40°	3712	4392	5241
45°	3295	3976	4712
50°	2741	3500	3716
55°	2335	2948	2701
60°	2117	2436	2135
65°	1994	2133	1986
70°	1876	1979	1936
75°	1748	1885	1851
80°	1600	1737	1788
85°	1392	1527	2003

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4712 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	4.6
10°-20°	426.9	12.8
20°-30°	619.9	18.6
30°-40°	690.3	20.7
40°-50°	609.8	18.3
50°-60°	400.2	12.0
60°-70°	245.0	7.4
70°-80°	142.6	4.3
80°-90°	43.7	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°	1198.4	36.0
0°-40°	1888.7	56.7
0°-60°	2898.7	87.0
0°-90°	3330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3330.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1602	1602	1602	1602	1602	
5°	1607	1608	1589	1605	1589	152
15°	1468	1485	1502	1561	1564	414
25°	1243	1273	1346	1431	1466	572
35°	957	1009	1096	1212	1268	597
45°	657	697	792	899	939	502
55°	377	404	477	472	437	342
65°	238	242	254	247	237	236
75°	128	129	138	140	135	135
85°	34	36	38	42	49	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1602.2	1602.2	1602.2	1602.2	1602.2
2.5°	1627.2	1607.2	1599.7	1607.2	1590.6
5°	1607.2	1608.1	1588.9	1604.7	1588.9
7.5°	1575.6	1586.4	1577.2	1601.4	1588.9
10°	1561.4	1562.2	1558.9	1583.9	1583.1
12.5°	1522.3	1524.8	1533.9	1571.4	1579.7
15°	1468.1	1484.8	1502.3	1561.4	1563.9
17.5°	1425.6	1445.6	1468.9	1532.3	1539.8
20°	1373.9	1382.3	1439.8	1495.6	1523.9
22.5°	1316.5	1332.3	1388.1	1463.1	1491.4
25°	1243.1	1273.1	1345.6	1431.4	1466.4
27.5°	1175.6	1210.6	1285.6	1381.4	1422.3
30°	1105.7	1145.6	1229.0	1323.1	1384.8
32.5°	1033.2	1083.2	1162.3	1270.6	1324.8
35°	957.3	1009.0	1096.5	1212.3	1268.1
37.5°	881.5	931.5	1026.5	1150.6	1200.6
40°	801.5	850.7	948.2	1074.0	1131.5
42.5°	732.4	774.9	874.9	982.3	1035.7
45°	656.6	696.6	792.4	899.0	939.0
47.5°	573.2	619.9	713.2	800.7	816.5
50°	496.6	544.9	634.1	684.9	673.2
52.5°	429.1	469.9	551.6	573.2	545.7
55°	377.4	404.1	476.6	472.4	436.6
57.5°	329.9	346.6	408.3	384.9	350.8
60°	298.3	305.8	343.3	321.6	300.8
62.5°	268.3	271.6	291.6	280.0	264.1
65°	237.5	241.6	254.1	246.6	236.6
67.5°	209.1	210.8	222.5	220.8	208.3
70°	180.8	183.3	190.8	194.1	186.6
72.5°	153.3	155.8	163.3	166.6	160.0
75°	127.5	129.1	137.5	140.0	135.0
77.5°	102.5	105.8	110.8	115.0	109.1
80°	78.3	80.0	85.0	90.0	87.5
82.5°	55.0	57.5	60.8	67.5	69.2
85°	34.2	35.8	37.5	42.5	49.2
87.5°	13.3	14.2	16.7	18.3	24.2
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	13.57	15.05	13.93	15.36	15.68	14.22	15.70	14.58	16.01	16.33
	3H	15.17	16.49	15.55	16.82	17.18	15.65	16.98	16.03	17.31	17.67
	4H	15.78	17.03	16.19	17.38	17.76	16.26	17.50	16.66	17.85	18.23
	6H	16.26	17.40	16.67	17.77	18.16	16.75	17.89	17.16	18.26	18.65
	8H	16.41	17.50	16.84	17.89	18.29	16.94	18.04	17.37	18.42	18.83
	12H	16.51	17.55	16.94	17.93	18.36	17.11	18.16	17.54	18.54	18.97
4H	2H	14.19	15.43	14.59	15.78	16.16	14.71	15.95	15.11	16.30	16.68
	3H	16.01	17.04	16.42	17.44	17.84	16.41	17.44	16.82	17.84	18.24
	4H	16.75	17.67	17.18	18.09	18.53	17.16	18.09	17.60	18.51	18.94
	6H	17.35	18.15	17.80	18.59	19.05	17.80	18.60	18.26	19.05	19.51
	8H	17.54	18.30	18.01	18.74	19.21	18.05	18.81	18.52	19.25	19.72
	12H	17.68	18.36	18.17	18.84	19.31	18.28	18.95	18.76	19.43	19.90
8H	4H	17.07	17.82	17.53	18.26	18.73	17.43	18.19	17.90	18.63	19.10
	6H	17.79	18.41	18.29	18.91	19.38	18.21	18.83	18.71	19.32	19.80
	8H	18.06	18.62	18.58	19.13	19.62	18.55	19.11	19.07	19.62	20.11
	12H	18.28	18.78	18.79	19.27	19.84	18.87	19.37	19.38	19.86	20.43
12H	4H	17.10	17.77	17.58	18.25	18.72	17.45	18.13	17.94	18.60	19.08
	6H	17.85	18.42	18.37	18.93	19.42	18.25	18.82	18.77	19.33	19.81
	8H	18.19	18.68	18.70	19.18	19.74	18.66	19.16	19.17	19.65	20.21