

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: P895300

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-15)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-ACL-UNV-CC83-LOW-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 5000K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

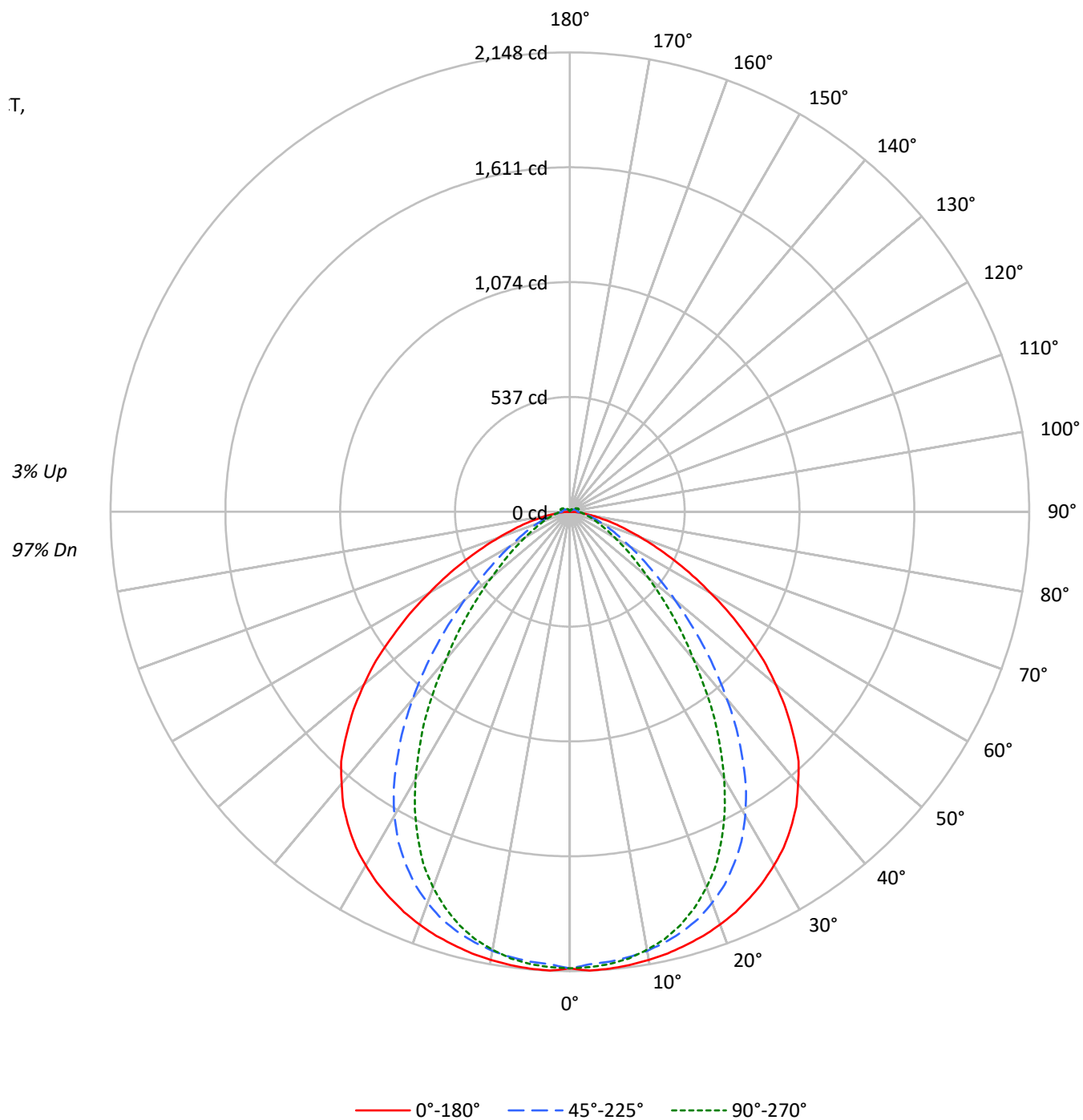
Lumens per Lamp: N/A
Luminaire Lumens: 4380.0 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.08')
CIE Type: Direct

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

TEST NUMBER: P895300

CATALOG NUMBER: 8TMB-SC3-ACL-UNV-CC83-LOW-5000K

Luminous Intensity Polar Plot



TEST NUMBER: P895300

CATALOG NUMBER: 8TMB-SC3-ACL-UNV-CC83-LOW-5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100
1	110	106	102	99	107	103	100	97	99	96	93	94	92	90	90	89	87
2	101	94	88	84	99	92	87	82	88	84	80	85	81	78	82	79	76
3	94	85	77	72	91	83	76	71	80	74	69	77	72	68	74	70	66
4	87	76	68	62	84	75	67	62	72	66	61	69	64	60	67	62	59
5	80	69	61	55	78	68	60	55	65	59	54	63	58	53	61	56	52
6	75	63	55	49	73	62	54	49	60	53	48	58	52	47	56	51	47
7	70	57	50	44	68	57	49	44	55	48	43	53	47	43	52	46	42
8	65	53	45	40	64	52	45	40	51	44	39	49	43	39	48	42	38
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10844	10844	10844
5°	10923	10556	10533
10°	10952	10333	10163
15°	10996	10071	9701
20°	11060	9707	9067
25°	11105	9199	8224
30°	11128	8497	7166
35°	11094	7514	5994
40°	10913	6352	4717
45°	10511	5132	3657
50°	9804	3986	2744
55°	8798	3054	2099
60°	7582	2351	1599
65°	6347	1857	1271
70°	5107	1493	1039
75°	4106	1206	884
80°	3062	998	774
85°	2207	852	713

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10511 cd/sqm

TEST NUMBER: P895300

CATALOG NUMBER: 8TMB-SC3-ACL-UNV-CC83-LOW-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.2	4.6
10°-20°	576.1	13.2
20°-30°	840.0	19.2
30°-40°	902.4	20.6
40°-50°	751.1	17.1
50°-60°	502.3	11.5
60°-70°	287.6	6.6
70°-80°	143.0	3.3
80°-90°	58.5	1.3
90°-100°	33.9	0.8
100°-110°	30.0	0.7
110°-120°	22.0	0.5
120°-130°	14.1	0.3
130°-140°	8.4	0.2
140°-150°	4.7	0.1
150°-160°	2.4	0.1
160°-170°	1.0	0.0
170°-180°	0.2	0.0
0°-30°	1618.3	36.9
0°-40°	2520.8	57.6
0°-60°	3774.2	86.2
0°-90°	4263.2	97.3
90°-120°	85.9	2.0
90°-150°	113.2	2.6
90°-180°	117.0	2.7
0°-180°	4380.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2135	2135	2135	2135	2135	
5°	2144	2138	2112	2130	2123	204
15°	2097	2083	2033	2018	2000	593
25°	1991	1944	1817	1725	1682	918
35°	1802	1672	1406	1233	1179	1126
45°	1479	1229	878	711	669	1137
55°	1008	728	458	362	343	903
65°	540	366	230	187	177	540
75°	217	158	114	101	98	233
85°	42	47	53	55	56	50
90°	6	20	36	43	44	6
95°	9	20	36	43	44	7
105°	6	16	32	42	44	7
115°	3	9	25	34	37	3
125°	2	6	17	25	27	1
135°	1	5	11	17	19	1
145°	1	4	8	11	13	1
155°	1	3	5	7	9	1
165°	2	2	4	4	6	1
175°	2	2	2	2	2	0
180°	2	2	2	2	2	

TEST NUMBER: P895300

CATALOG NUMBER: 8TMB-SC3-ACL-UNV-CC83-LOW-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2135.1	2135.1	2135.1	2135.1	2135.1
2.5°	2147.6	2142.0	2117.7	2137.0	2131.4
5°	2144.5	2137.6	2112.1	2129.5	2122.7
7.5°	2137.6	2130.2	2100.9	2114.6	2107.1
10°	2127.7	2118.3	2084.7	2091.5	2079.7
12.5°	2115.2	2103.4	2061.6	2059.8	2046.7
15°	2097.1	2082.8	2033.0	2018.0	2000.0
17.5°	2078.5	2057.3	1996.2	1965.7	1940.8
20°	2054.2	2026.1	1945.8	1900.3	1869.2
22.5°	2026.1	1988.1	1889.1	1819.4	1787.0
25°	1991.3	1943.9	1816.9	1725.3	1682.3
27.5°	1953.9	1891.0	1738.4	1618.2	1569.0
30°	1909.0	1831.2	1640.6	1496.1	1443.1
32.5°	1861.7	1755.2	1533.5	1367.8	1309.9
35°	1802.5	1671.7	1406.4	1233.2	1179.1
37.5°	1738.4	1572.1	1280.6	1095.6	1034.6
40°	1660.5	1466.8	1142.3	959.2	898.8
42.5°	1583.3	1352.2	1009.6	835.9	783.5
45°	1478.7	1228.9	878.2	710.7	668.9
47.5°	1373.4	1096.8	752.4	609.1	568.0
50°	1256.3	967.3	642.2	511.4	477.1
52.5°	1142.3	846.5	541.9	432.3	403.0
55°	1008.4	727.5	457.8	361.9	343.2
57.5°	887.6	617.2	386.2	306.4	289.0
60°	759.9	523.2	323.3	259.1	242.9
62.5°	647.8	439.7	272.2	219.9	208.7
65°	540.0	366.2	230.5	186.9	176.9
67.5°	441.0	305.8	194.3	159.5	151.4
70°	353.8	247.9	163.8	135.8	130.2
72.5°	278.4	199.3	136.4	117.1	112.1
75°	217.4	158.2	114.0	100.9	97.8
77.5°	157.0	123.3	95.3	86.6	84.7
80°	110.9	93.4	78.5	74.7	73.5
82.5°	73.5	67.9	64.8	64.8	64.2
85°	42.4	47.3	52.9	55.4	56.1
87.5°	21.8	31.8	42.4	47.3	48.0
90°	6.2	19.9	36.1	43.0	44.2
92.5°	9.3	19.9	35.5	43.0	44.2
95°	9.3	19.9	35.5	43.0	44.2
97.5°	8.7	19.3	35.5	43.0	44.2
100°	8.1	18.1	34.9	43.0	44.2
102.5°	6.9	17.4	33.6	42.4	44.2
105°	6.2	16.2	31.8	41.7	43.6
107.5°	5.6	13.7	29.9	39.9	42.4
110°	4.4	11.8	28.7	38.0	41.1



TEST NUMBER: P895300

CATALOG NUMBER: 8TMB-SC3-ACL-UNV-CC83-LOW-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.7	10.6	26.8	36.1	39.2
115°	3.1	9.3	24.9	34.3	37.4
117.5°	2.5	8.7	22.4	31.8	34.9
120°	1.9	8.1	20.6	29.9	32.4
122.5°	1.9	7.5	18.1	27.4	29.9
125°	1.9	6.2	16.8	24.9	27.4
127.5°	1.2	5.6	14.9	22.4	24.9
130°	1.2	5.6	13.7	20.6	22.4
132.5°	1.2	5.0	12.5	18.7	20.6
135°	1.2	5.0	11.2	16.8	18.7
137.5°	1.2	4.4	10.0	15.6	17.4
140°	1.2	4.4	9.3	13.7	15.6
142.5°	1.2	3.7	8.1	13.1	14.3
145°	1.2	3.7	7.5	11.2	13.1
147.5°	1.2	3.7	6.9	10.6	11.8
150°	1.2	3.1	6.2	8.7	10.6
152.5°	1.2	3.1	5.6	8.1	10.0
155°	1.2	3.1	5.0	6.9	8.7
157.5°	1.2	3.1	5.0	6.2	7.5
160°	1.9	2.5	4.4	5.6	6.9
162.5°	1.9	2.5	3.7	5.0	6.2
165°	1.9	2.5	3.7	4.4	5.6
167.5°	1.9	2.5	3.1	3.7	4.4
170°	1.9	1.9	3.1	3.1	3.1
172.5°	1.9	1.9	2.5	3.1	2.5
175°	1.9	1.9	2.5	2.5	2.5
177.5°	1.9	1.9	2.5	2.5	2.5
180°	1.9	1.9	1.9	1.9	1.9

(END OF REPORT)