

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: P895296

Luminaire Tested: 8TMB-SC3-ACL-UNV-CC83-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895296
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-HI-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 4000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

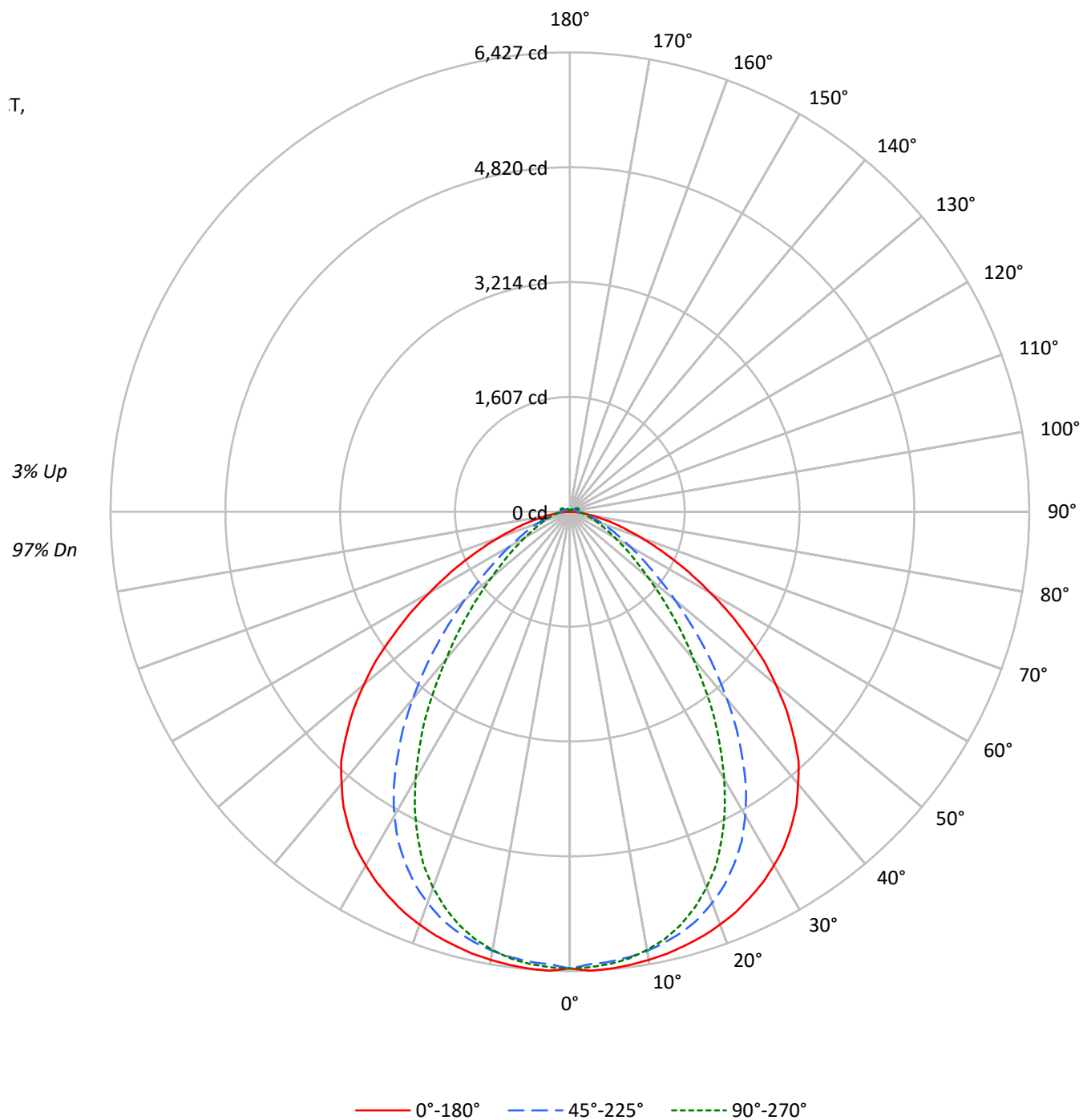
Lumens per Lamp: N/A
Luminaire Lumens: 13106.9 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.08')
CIE Type: Direct

Input Watts (W): 101.4
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	118	118	118	118	115	115	115	115	110	110	110		104	104	104		100
1	110	106	102	99	107	103	100	97	99	96	93		94	92	90		90
2	101	94	88	84	99	92	87	82	88	84	80		85	81	78		82
3	94	85	77	72	91	83	76	71	80	74	69		77	72	68		74
4	87	76	68	62	84	75	67	62	72	66	61		69	64	60		67
5	80	69	61	55	78	68	60	55	65	59	54		63	58	53		61
6	75	63	55	49	73	62	54	49	60	53	48		58	52	47		56
7	70	57	50	44	68	57	49	44	55	48	43		53	47	43		52
8	65	53	45	40	64	52	45	40	51	44	39		49	43	39		48
9	61	49	41	36	60	48	41	36	47	40	36		46	40	35		45
10	58	45	38	33	56	45	38	33	44	37	33		43	37	32		42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32449	32449	32449
5°	32686	31589	31519
10°	32775	30922	30413
15°	32904	30137	29029
20°	33097	29047	27134
25°	33230	27526	24612
30°	33301	25427	21443
35°	33200	22486	17937
40°	32658	19008	14117
45°	31452	15357	10945
50°	29338	11926	8211
55°	26327	9139	6281
60°	22687	7034	4785
65°	18995	5557	3803
70°	15282	4467	3107
75°	12286	3608	2645
80°	9162	2986	2315
85°	6596	2551	2132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 31452 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.2	4.6
10°-20°	1724.1	13.2
20°-30°	2513.5	19.2
30°-40°	2700.5	20.6
40°-50°	2247.6	17.1
50°-60°	1503.2	11.5
60°-70°	860.5	6.6
70°-80°	427.8	3.3
80°-90°	175.1	1.3
90°-100°	101.6	0.8
100°-110°	89.6	0.7
110°-120°	65.8	0.5
120°-130°	42.3	0.3
130°-140°	25.2	0.2
140°-150°	14.2	0.1
150°-160°	7.1	0.1
160°-170°	3.0	0.0
170°-180°	0.7	0.0
0°-30°	4842.8	36.9
0°-40°	7543.3	57.6
0°-60°	11294.0	86.2
0°-90°	12757.5	97.3
90°-120°	257.0	2.0
90°-150°	338.7	2.6
90°-180°	349.0	2.7
0°-180°	13106.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6389	6389	6389	6389	6389	
5°	6417	6397	6320	6373	6352	611
15°	6276	6233	6084	6039	5985	1774
25°	5959	5817	5437	5163	5034	2748
35°	5394	5003	4209	3690	3528	3369
45°	4425	3677	2628	2127	2002	3402
55°	3018	2177	1370	1083	1027	2703
65°	1616	1096	690	559	529	1615
75°	650	473	341	302	293	698
85°	127	142	158	166	168	148
90°	19	60	108	129	132	18
95°	28	60	106	129	132	22
105°	19	48	95	125	130	20
115°	9	28	75	102	112	9
125°	6	19	50	75	82	4
135°	4	15	34	50	56	3
145°	4	11	22	34	39	2
155°	4	9	15	20	26	2
165°	6	8	11	13	17	2
175°	6	6	8	8	8	1
180°	6	6	6	6	6	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6389.3	6389.3	6389.3	6389.3	6389.3
2.5°	6426.6	6409.8	6337.1	6394.9	6378.1
5°	6417.3	6396.8	6320.4	6372.6	6352.1
7.5°	6396.8	6374.4	6286.8	6327.8	6305.5
10°	6367.0	6339.0	6238.4	6258.9	6223.4
12.5°	6329.7	6294.3	6169.4	6163.8	6124.7
15°	6275.6	6232.8	6083.7	6038.9	5984.9
17.5°	6219.7	6156.3	5973.7	5882.4	5807.8
20°	6147.0	6063.2	5822.7	5686.7	5593.5
22.5°	6063.2	5949.5	5653.1	5444.4	5347.4
25°	5958.8	5817.1	5436.9	5162.9	5034.3
27.5°	5846.9	5658.7	5202.0	4842.3	4695.1
30°	5712.7	5479.8	4909.4	4477.0	4318.6
32.5°	5571.1	5252.4	4588.8	4093.0	3919.7
35°	5394.0	5002.6	4208.6	3690.5	3528.3
37.5°	5202.0	4704.4	3832.1	3278.5	3095.9
40°	4969.1	4389.4	3418.3	2870.4	2689.6
42.5°	4737.9	4046.5	3021.3	2501.3	2344.7
45°	4424.8	3677.4	2628.0	2126.7	2001.8
47.5°	4109.8	3282.3	2251.5	1822.9	1699.8
50°	3759.4	2894.6	1921.6	1530.2	1427.7
52.5°	3418.3	2533.0	1621.6	1293.5	1205.9
55°	3017.6	2177.0	1369.9	1082.9	1027.0
57.5°	2656.0	1847.1	1155.6	917.0	864.8
60°	2273.9	1565.6	967.3	775.4	726.9
62.5°	1938.4	1315.9	814.5	657.9	624.4
65°	1616.0	1096.0	689.6	559.2	529.3
67.5°	1319.6	915.2	581.5	477.1	452.9
70°	1058.7	741.8	490.2	406.3	389.5
72.5°	833.1	596.4	408.2	350.4	335.5
75°	650.5	473.4	341.1	301.9	292.6
77.5°	469.7	369.0	285.2	259.1	253.5
80°	331.8	279.6	234.8	223.7	219.9
82.5°	219.9	203.2	193.8	193.8	192.0
85°	126.7	141.7	158.4	165.9	167.7
87.5°	65.2	95.1	126.7	141.7	143.5
90°	18.6	59.6	108.1	128.6	132.3
92.5°	28.0	59.6	106.2	128.6	132.3
95°	28.0	59.6	106.2	128.6	132.3
97.5°	26.1	57.8	106.2	128.6	132.3
100°	24.2	54.1	104.4	128.6	132.3
102.5°	20.5	52.2	100.6	126.7	132.3
105°	18.6	48.5	95.1	124.9	130.5
107.5°	16.8	41.0	89.5	119.3	126.7
110°	13.0	35.4	85.7	113.7	123.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.2	31.7	80.1	108.1	117.4
115°	9.3	28.0	74.6	102.5	111.8
117.5°	7.5	26.1	67.1	95.1	104.4
120°	5.6	24.2	61.5	89.5	96.9
122.5°	5.6	22.4	54.1	82.0	89.5
125°	5.6	18.6	50.3	74.6	82.0
127.5°	3.7	16.8	44.7	67.1	74.6
130°	3.7	16.8	41.0	61.5	67.1
132.5°	3.7	14.9	37.3	55.9	61.5
135°	3.7	14.9	33.5	50.3	55.9
137.5°	3.7	13.0	29.8	46.6	52.2
140°	3.7	13.0	28.0	41.0	46.6
142.5°	3.7	11.2	24.2	39.1	42.9
145°	3.7	11.2	22.4	33.5	39.1
147.5°	3.7	11.2	20.5	31.7	35.4
150°	3.7	9.3	18.6	26.1	31.7
152.5°	3.7	9.3	16.8	24.2	29.8
155°	3.7	9.3	14.9	20.5	26.1
157.5°	3.7	9.3	14.9	18.6	22.4
160°	5.6	7.5	13.0	16.8	20.5
162.5°	5.6	7.5	11.2	14.9	18.6
165°	5.6	7.5	11.2	13.0	16.8
167.5°	5.6	7.5	9.3	11.2	13.0
170°	5.6	5.6	9.3	9.3	9.3
172.5°	5.6	5.6	7.5	9.3	7.5
175°	5.6	5.6	7.5	7.5	7.5
177.5°	5.6	5.6	7.5	7.5	7.5
180°	5.6	5.6	5.6	5.6	5.6

(END OF REPORT)