

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: P895305

Luminaire Tested: 8TMB-SC3-ACL-UNV-CC93-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895305
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-CC93-HI-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 4000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

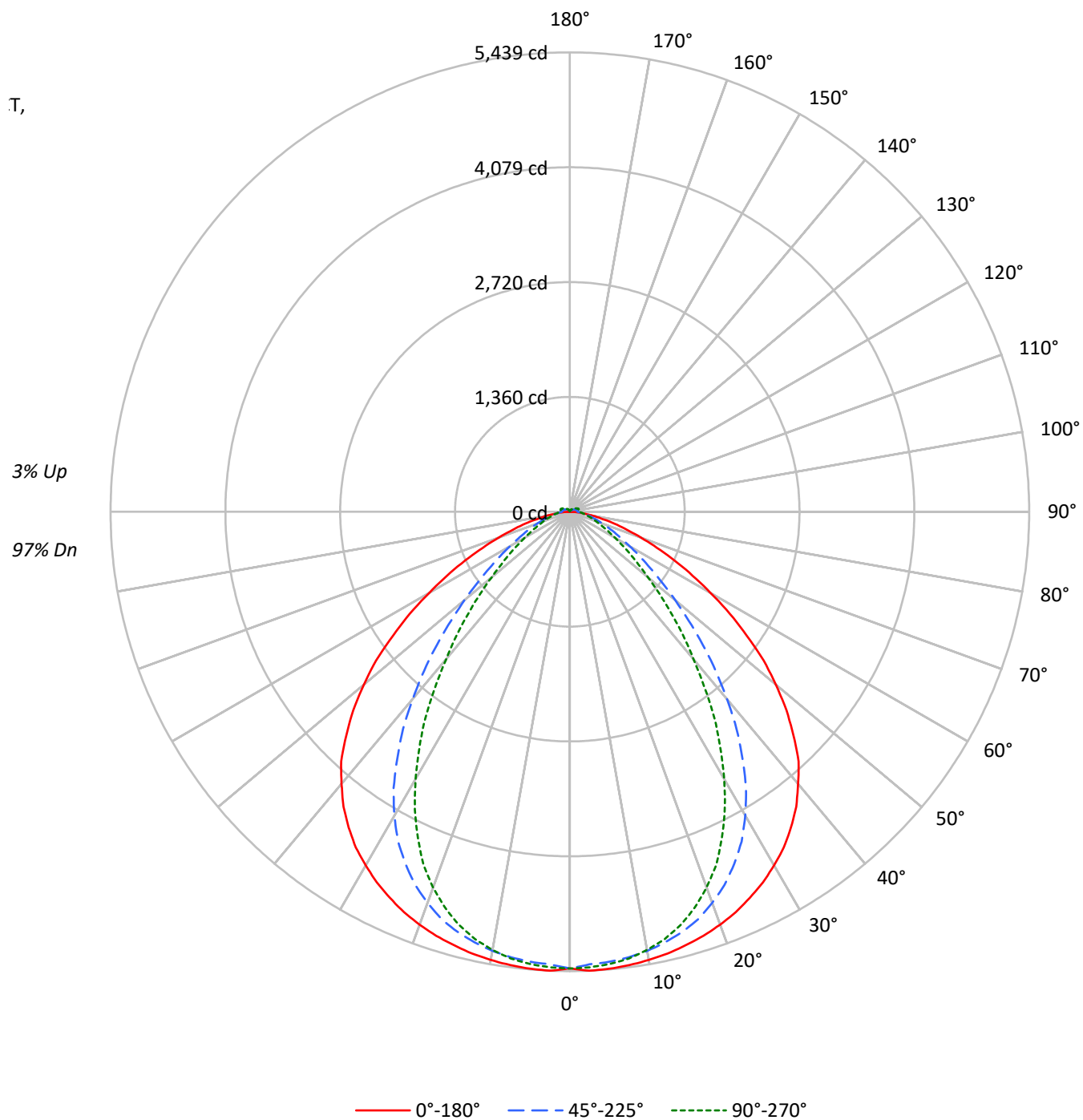
Lumens per Lamp: N/A
Luminaire Lumens: 11093.0 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.08')
CIE Type: Direct

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

TEST NUMBER: P895305

CATALOG NUMBER: 8TMB-SC3-ACL-UNV-CC93-HI-4000K

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°	27464	27464	27464
5°	27664	26735	26676
10°	27738	26171	25740
15°	27848	25506	24568
20°	28011	24584	22964
25°	28124	23296	20830
30°	28184	21520	18148
35°	28099	19030	15180
40°	27639	16088	11947
45°	26619	12997	9263
50°	24831	10094	6950
55°	22281	7735	5316
60°	19201	5953	4049
65°	16076	4703	3219
70°	12934	3781	2630
75°	10397	3054	2239
80°	7754	2529	1959
85°	5586	2159	1805

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 26619 cd/sqm

TEST NUMBER: P895305

CATALOG NUMBER: 8TMB-SC3-ACL-UNV-CC93-HI-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.2	4.6
10°-20°	1459.1	13.2
20°-30°	2127.3	19.2
30°-40°	2285.5	20.6
40°-50°	1902.2	17.1
50°-60°	1272.2	11.5
60°-70°	728.3	6.6
70°-80°	362.1	3.3
80°-90°	148.2	1.3
90°-100°	86.0	0.8
100°-110°	75.9	0.7
110°-120°	55.7	0.5
120°-130°	35.8	0.3
130°-140°	21.3	0.2
140°-150°	12.0	0.1
150°-160°	6.0	0.1
160°-170°	2.6	0.0
170°-180°	0.6	0.0
0°-30°	4098.7	36.9
0°-40°	6384.2	57.6
0°-60°	9558.6	86.2
0°-90°	10797.2	97.3
90°-120°	217.5	2.0
90°-150°	286.7	2.6
90°-180°	296.0	2.7
0°-180°	11093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5408	5408	5408	5408	5408	
5°	5431	5414	5349	5393	5376	517
15°	5311	5275	5149	5111	5065	1502
25°	5043	4923	4602	4370	4261	2326
35°	4565	4234	3562	3123	2986	2851
45°	3745	3112	2224	1800	1694	2879
55°	2554	1842	1159	916	869	2288
65°	1368	928	584	473	448	1367
75°	550	401	289	256	248	590
85°	107	120	134	140	142	125
90°	16	50	92	109	112	15
95°	24	50	90	109	112	18
105°	16	41	80	106	110	17
115°	8	24	63	87	95	8
125°	5	16	43	63	69	4
135°	3	13	28	43	47	2
145°	3	10	19	28	33	2
155°	3	8	13	17	22	2
165°	5	6	10	11	14	1
175°	5	5	6	6	6	0
180°	5	5	5	5	5	

TEST NUMBER: P895305

CATALOG NUMBER: 8TMB-SC3-ACL-UNV-CC93-HI-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5407.6	5407.6	5407.6	5407.6	5407.6
2.5°	5439.1	5424.9	5363.4	5412.3	5398.1
5°	5431.2	5413.9	5349.2	5393.4	5376.0
7.5°	5413.9	5394.9	5320.8	5355.5	5336.6
10°	5388.6	5365.0	5279.8	5297.1	5267.2
12.5°	5357.1	5327.1	5221.4	5216.7	5183.6
15°	5311.3	5275.0	5148.9	5111.0	5065.2
17.5°	5264.0	5210.4	5055.8	4978.5	4915.4
20°	5202.5	5131.5	4928.0	4812.9	4734.0
22.5°	5131.5	5035.3	4784.5	4607.8	4525.8
25°	5043.2	4923.3	4601.5	4369.6	4260.7
27.5°	4948.5	4789.2	4402.7	4098.3	3973.6
30°	4834.9	4637.8	4155.0	3789.1	3655.0
32.5°	4715.0	4445.3	3883.7	3464.1	3317.4
35°	4565.2	4233.9	3561.9	3123.4	2986.1
37.5°	4402.7	3981.5	3243.3	2774.8	2620.2
40°	4205.5	3714.9	2893.1	2429.3	2276.3
42.5°	4009.9	3424.7	2557.1	2117.0	1984.5
45°	3744.9	3112.3	2224.2	1799.9	1694.2
47.5°	3478.3	2777.9	1905.6	1542.8	1438.6
50°	3181.8	2449.8	1626.4	1295.1	1208.3
52.5°	2893.1	2143.8	1372.4	1094.8	1020.6
55°	2553.9	1842.5	1159.4	916.5	869.2
57.5°	2247.9	1563.3	978.0	776.1	731.9
60°	1924.5	1325.1	818.7	656.2	615.2
62.5°	1640.6	1113.7	689.4	556.8	528.5
65°	1367.7	927.6	583.7	473.2	448.0
67.5°	1116.8	774.5	492.2	403.8	383.3
70°	896.0	627.8	414.9	343.9	329.7
72.5°	705.1	504.8	345.5	296.6	283.9
75°	550.5	400.7	288.7	255.5	247.7
77.5°	397.5	312.3	241.4	219.3	214.5
80°	280.8	236.6	198.8	189.3	186.1
82.5°	186.1	171.9	164.1	164.1	162.5
85°	107.3	119.9	134.1	140.4	142.0
87.5°	55.2	80.5	107.3	119.9	121.5
90°	15.8	50.5	91.5	108.8	112.0
92.5°	23.7	50.5	89.9	108.8	112.0
95°	23.7	50.5	89.9	108.8	112.0
97.5°	22.1	48.9	89.9	108.8	112.0
100°	20.5	45.7	88.3	108.8	112.0
102.5°	17.4	44.2	85.2	107.3	112.0
105°	15.8	41.0	80.5	105.7	110.4
107.5°	14.2	34.7	75.7	101.0	107.3
110°	11.0	30.0	72.6	96.2	104.1

TEST NUMBER: P895305

CATALOG NUMBER: 8TMB-SC3-ACL-UNV-CC93-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.5	26.8	67.8	91.5	99.4
115°	7.9	23.7	63.1	86.8	94.6
117.5°	6.3	22.1	56.8	80.5	88.3
120°	4.7	20.5	52.1	75.7	82.0
122.5°	4.7	18.9	45.7	69.4	75.7
125°	4.7	15.8	42.6	63.1	69.4
127.5°	3.2	14.2	37.9	56.8	63.1
130°	3.2	14.2	34.7	52.1	56.8
132.5°	3.2	12.6	31.5	47.3	52.1
135°	3.2	12.6	28.4	42.6	47.3
137.5°	3.2	11.0	25.2	39.4	44.2
140°	3.2	11.0	23.7	34.7	39.4
142.5°	3.2	9.5	20.5	33.1	36.3
145°	3.2	9.5	18.9	28.4	33.1
147.5°	3.2	9.5	17.4	26.8	30.0
150°	3.2	7.9	15.8	22.1	26.8
152.5°	3.2	7.9	14.2	20.5	25.2
155°	3.2	7.9	12.6	17.4	22.1
157.5°	3.2	7.9	12.6	15.8	18.9
160°	4.7	6.3	11.0	14.2	17.4
162.5°	4.7	6.3	9.5	12.6	15.8
165°	4.7	6.3	9.5	11.0	14.2
167.5°	4.7	6.3	7.9	9.5	11.0
170°	4.7	4.7	7.9	7.9	7.9
172.5°	4.7	4.7	6.3	7.9	6.3
175°	4.7	4.7	6.3	6.3	6.3
177.5°	4.7	4.7	6.3	6.3	6.3
180°	4.7	4.7	4.7	4.7	4.7

(END OF REPORT)