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: P895368

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

Issue Date: 11/11/2024

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P895368
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)
Test Lab:	INNOVATION CENTER
Issue Date:	11/11/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	8TMB-SC3-ASYMR-UNV-CC83-HI-4000K
Description:	Selectable 8FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 4000K CCT, HI lu setting
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13190.0 lumens
Efficiency:	N/A
Efficacy:	130.1 lumens/watt
Spacing Criteria (0/90/45):	1.18 / 1.28 / 1.25
Luminous Opening:	Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type:	Direct

Input Watts (W):	101.4
Input Voltage (V):	
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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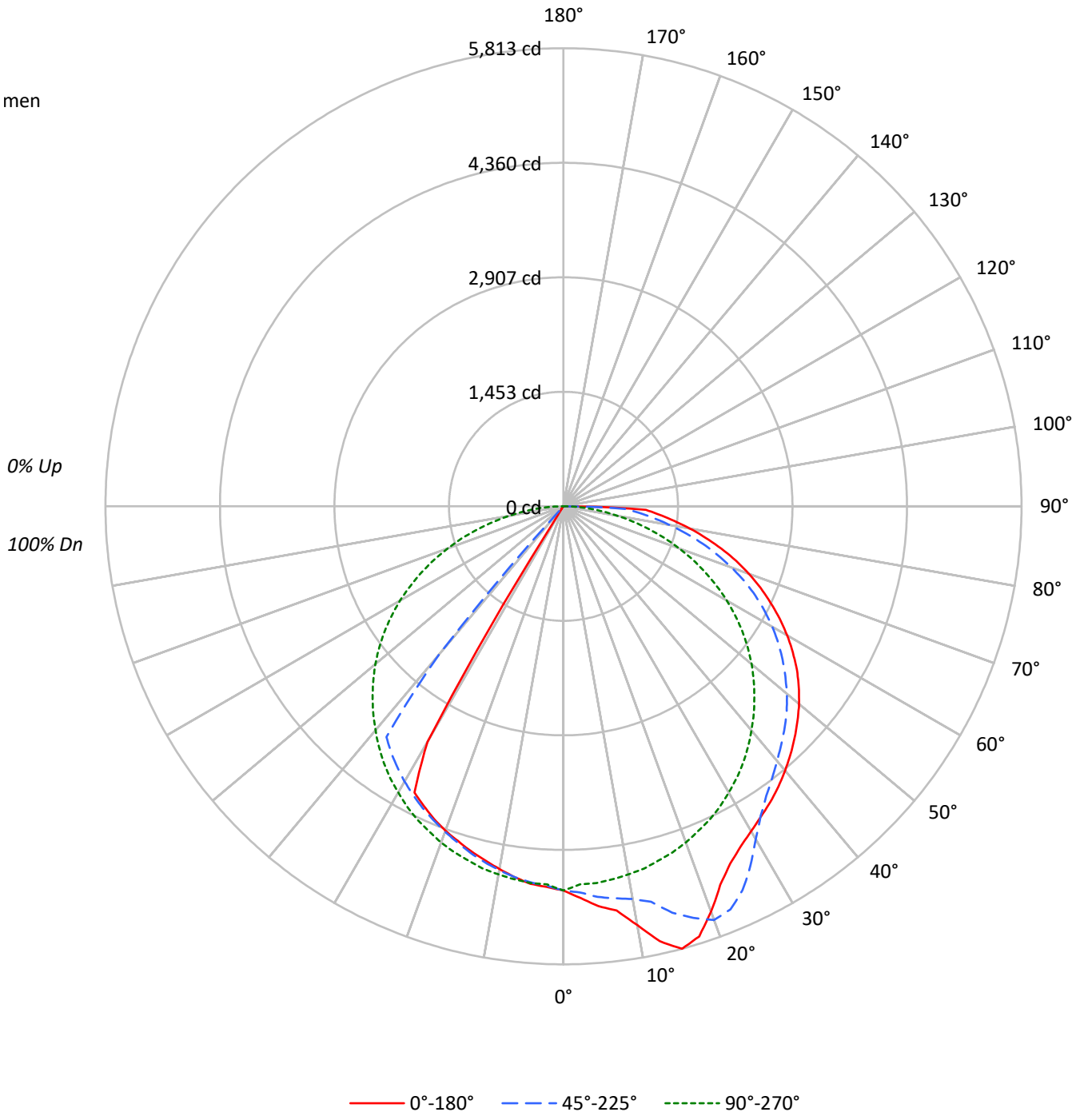
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	31568	31568	31568	31568	31568
5°	33104	32342	31199	31144	31253
10°	35470	33267	31192	30825	30733
15°	38971	35789	31203	30529	30379
20°	37731	38500	31285	30285	30188
25°	35749	38422	31360	30183	29964
30°	35596	36472	31358	30147	25805
35°	36198	35469	31408	30150	353
40°	36985	35639	31367	20794	236
45°	37996	36360	31373	384	154
50°	39323	37270	31391	281	56
55°	40821	38330	31302	190	32
60°	42453	39632	31025	73	36
65°	44450	41198	30461	86	86
70°	47418	42925	29498	106	106
75°	51905	45688	28222	280	140
80°	60911	51122	26133	418	209
85°	90658	71779	24481	624	416

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 87.5°
Luminance: 155431 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.2	3.5
10°-20°	1394.8	10.6
20°-30°	2144.1	16.3
30°-40°	2297.8	17.4
40°-50°	2086.9	15.8
50°-60°	1903.5	14.4
60°-70°	1416.1	10.7
70°-80°	996.8	7.6
80°-90°	482.9	3.7
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°	4006.1	30.4
0°-40°	6303.9	47.8
0°-60°	10294.3	78.0
0°-90°	13190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13190.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4875	4875	4875	4875	4875	
5°	5093	4976	4800	4791	4808	493
15°	5813	5338	4654	4554	4532	1605
25°	5004	5378	4389	4224	4194	2327
35°	4579	4487	3973	3814	45	2868
45°	4149	3970	3426	42	17	3206
55°	3616	3395	2773	17	3	3229
65°	2901	2689	1988	6	6	2872
75°	2075	1826	1128	11	6	2188
85°	1220	966	330	8	6	1226
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	*4875.1*	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1
2.5°	*4975.6*	4919.7	4905.8	4944.9	4802.5	4897.4	4819.2	4836.0	4836.0
5°	*5092.8*	5014.7	4975.6	4964.4	4799.7	4863.9	4791.3	4791.3	4808.0
7.5°	*5173.8*	5087.3	5017.5	4989.5	4774.5	4830.4	4746.6	4746.6	4746.6
10°	*5394.4*	5232.4	5059.3	5009.1	4743.8	4785.7	4688.0	4693.6	4674.0
12.5°	*5654.1*	5508.9	5140.3	5000.7	4710.3	4729.9	4626.6	4623.8	4601.4
15°	*5813.2*	*5704.3*	*5338.5*	*4989.5*	*4654.5*	*4671.2*	*4554.0*	*4545.6*	*4531.6*
17.5°	*5723.9*	5707.1	5475.4	4981.2	4604.2	4590.3	4473.0	4464.6	4453.4
20°	*5475.4*	5517.2	5587.0	4964.4	4540.0	4512.1	4394.8	4389.2	4380.8
22.5°	*5198.9*	5240.8	5536.8	4992.3	4461.8	4428.3	4311.0	4305.5	4294.3
25°	*5003.5*	5003.5	5377.6	5059.3	4389.2	4327.8	4224.5	4216.1	4193.8
27.5°	*4866.7*	4841.5	5140.3	5134.7	4297.1	4227.3	4132.3	4124.0	4096.1
30°	*4760.6*	4718.7	4877.8	5171.0	4193.8	4118.4	4031.8	4023.5	3451.1
32.5°	*4665.6*	4621.0	4657.3	5201.7	4090.5	4001.1	3925.7	2800.5	122.9
35°	*4579.1*	4528.8	4486.9	5179.4	3973.2	3883.8	3814.0	81.0	44.7
37.5°	*4481.4*	4442.3	4347.3	5062.1	3847.6	3758.2	3691.2	44.7	39.1
40°	*4375.3*	4339.0	4216.1	4889.0	3710.7	3635.3	2459.9	39.1	27.9
42.5°	*4266.4*	4238.4	4093.3	4637.7	3573.9	3498.5	78.2	30.7	22.3
45°	*4149.1*	4124.0	3970.4	4333.4	3425.9	3356.1	41.9	22.3	16.8
47.5°	*4029.0*	3992.7	3842.0	4006.7	3275.2	3205.4	36.3	16.8	11.2
50°	*3903.4*	3864.3	3699.6	3719.1	3116.0	3046.2	27.9	11.2	5.6
52.5°	*3763.8*	3716.3	3548.8	3459.4	2948.5	2884.3	22.3	5.6	2.8
55°	*3615.8*	3562.8	3395.2	3233.3	2772.6	2700.0	16.8	5.6	2.8
57.5°	*3451.1*	3392.4	3233.3	3018.3	2585.5	1826.1	11.2	5.6	2.8
60°	*3278.0*	3219.3	3060.2	2817.3	2395.6	125.6	5.6	5.6	2.8
62.5°	*3093.7*	3032.3	2878.7	2613.4	2191.8	103.3	5.6	5.6	5.6
65°	*2901.0*	2828.4	2688.8	2404.0	1988.0	86.6	5.6	5.6	5.6
67.5°	*2708.4*	2616.2	2485.0	2189.0	1778.6	72.6	5.6	5.6	5.6
70°	*2504.5*	2404.0	2267.2	1971.2	1558.0	58.6	5.6	5.6	5.6
72.5°	*2295.1*	2197.4	2049.4	1750.7	1351.4	44.7	5.6	5.6	5.6
75°	*2074.6*	1985.2	1826.1	1530.1	1128.0	33.5	11.2	5.6	5.6
77.5°	*1845.6*	1775.8	1597.1	1303.9	910.2	22.3	11.2	5.6	5.6
80°	*1633.4*	1555.2	1370.9	1075.0	700.8	16.8	11.2	8.4	5.6
82.5°	*1415.6*	1345.8	1161.5	865.6	502.6	14.0	11.2	8.4	5.6
85°	*1220.2*	1153.1	966.1	675.7	329.5	11.2	8.4	8.4	5.6
87.5°	*1047.0*	985.6	801.3	494.2	187.1	8.4	8.4	8.4	5.6
90°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)