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: P895369

Luminaire Tested: 8TMB-SC3-ASYMR-UNV-CC83-HI-5000K

Issue Date: 11/11/2024

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P895369
	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-5000K
Description:	Selectable 8FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 5000K CCT, HI lu setting
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13359.0 lumens
Efficiency:	N/A
Efficacy:	131.7 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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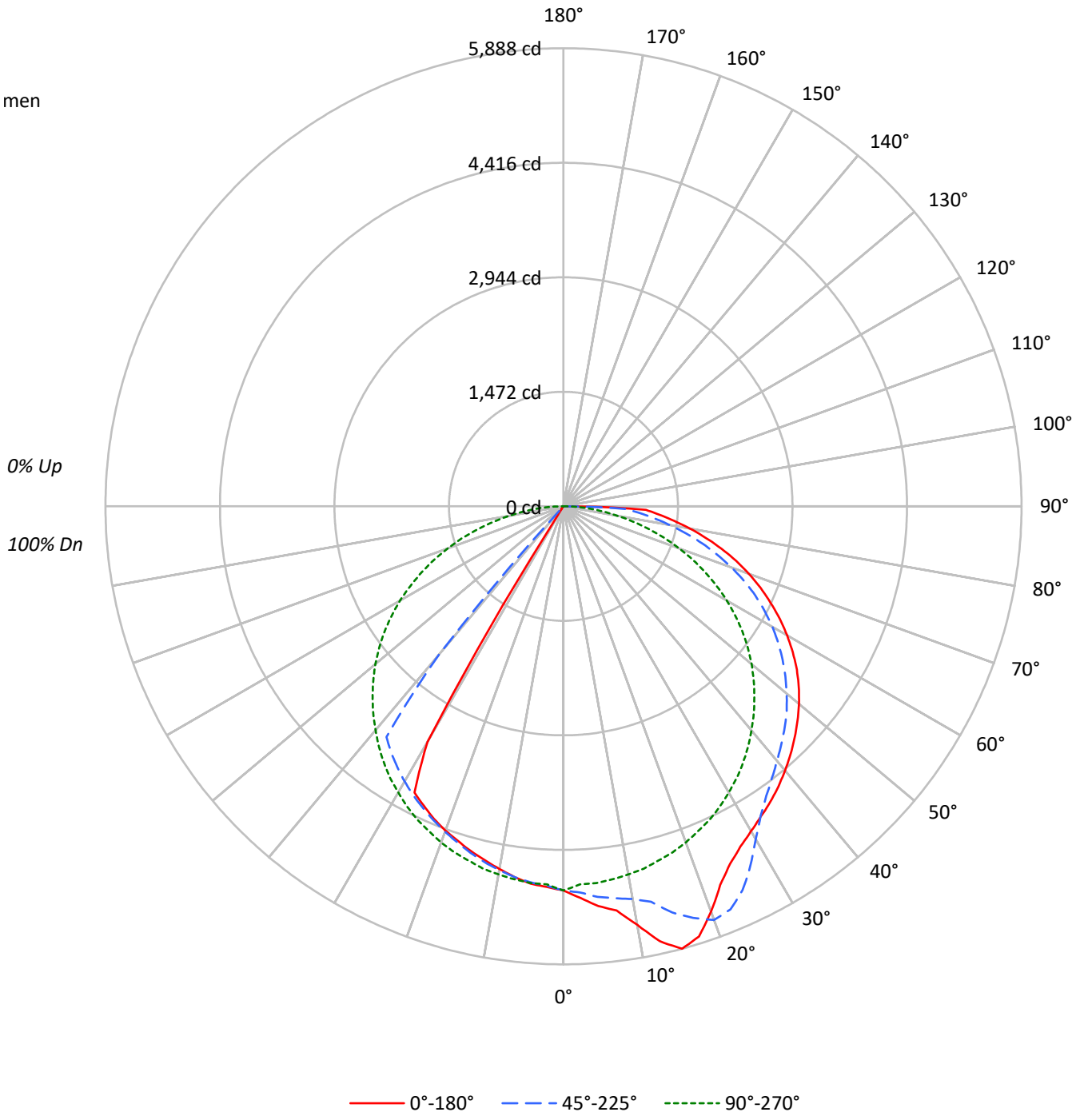
Luminous Intensity Polar Plot



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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°	31973	31973	31973	31973	31973
5°	33529	32756	31599	31543	31653
10°	35924	33693	31592	31220	31127
15°	39470	36247	31603	30920	30769
20°	38214	38994	31686	30673	30576
25°	36207	38915	31763	30570	30348
30°	36052	36940	31759	30533	26135
35°	36662	35924	31811	30536	357
40°	37458	36096	31769	21060	239
45°	38483	36826	31775	388	156
50°	39827	37747	31793	285	57
55°	41344	38822	31702	192	32
60°	42997	40140	31423	74	36
65°	45020	41727	30851	87	87
70°	48025	43476	29876	108	108
75°	52568	46271	28584	283	143
80°	61690	51778	26469	421	213
85°	91817	72700	24793	632	423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 87.5°
Luminance: 157435 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.2	3.5
10°-20°	1412.7	10.6
20°-30°	2171.5	16.3
30°-40°	2327.2	17.4
40°-50°	2113.6	15.8
50°-60°	1927.9	14.4
60°-70°	1434.3	10.7
70°-80°	1009.5	7.6
80°-90°	489.1	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°	4057.4	30.4
0°-40°	6384.6	47.8
0°-60°	10426.2	78.0
0°-90°	13359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13359.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4938	4938	4938	4938	4938	
5°	5158	5039	4861	4853	4870	500
15°	5888	5407	4714	4612	4590	1626
25°	5068	5446	4446	4279	4248	2356
35°	4638	4544	4024	3863	45	2905
45°	4202	4021	3470	42	17	3247
55°	3662	3439	2808	17	3	3271
65°	2938	2723	2014	6	6	2909
75°	2101	1849	1142	11	6	2216
85°	1236	978	334	8	6	1241
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°	*4937.5*	4937.5	4937.5	4937.5	4937.5	4937.5	4937.5	4937.5	4937.5
2.5°	*5039.3*	4982.8	4968.6	5008.2	4864.0	4960.1	4881.0	4897.9	4897.9
5°	*5158.1*	5078.9	5039.3	5028.0	4861.2	4926.2	4852.7	4852.7	4869.6
7.5°	*5240.1*	5152.4	5081.7	5053.5	4835.7	4892.3	4807.4	4807.4	4807.4
10°	*5463.5*	5299.5	5124.2	5073.3	4804.6	4847.0	4748.0	4753.7	4733.9
12.5°	*5726.5*	5579.5	5206.2	5064.8	4770.7	4790.5	4685.8	4683.0	4660.4
15°	*5887.7*	*5777.4*	*5406.9*	*5053.5*	*4714.1*	*4731.1*	*4612.3*	*4603.8*	*4589.7*
17.5°	*5797.2*	5780.2	5545.5	5045.0	4663.2	4649.1	4530.3	4521.8	4510.5
20°	*5545.5*	5587.9	5658.6	5028.0	4598.2	4569.9	4451.1	4445.5	4437.0
22.5°	*5265.6*	5308.0	5607.7	5056.3	4519.0	4485.1	4366.3	4360.6	4349.3
25°	*5067.6*	5067.6	5446.5	5124.2	4445.5	4383.2	4278.6	4270.1	4247.5
27.5°	*4929.0*	4903.6	5206.2	5200.5	4352.1	4281.4	4185.3	4176.8	4148.5
30°	*4821.6*	4779.2	4940.3	5237.3	4247.5	4171.2	4083.5	4075.0	3495.3
32.5°	*4725.4*	4680.2	4716.9	5268.4	4142.9	4052.4	3976.0	2836.4	124.4
35°	*4637.8*	4586.9	4544.4	5245.8	4024.1	3933.6	3862.9	82.0	45.2
37.5°	*4538.8*	4499.2	4403.0	5127.0	3896.8	3806.4	3738.5	45.2	39.6
40°	*4431.3*	4394.6	4270.1	4951.7	3758.3	3681.9	2491.4	39.6	28.3
42.5°	*4321.0*	4292.8	4145.7	4697.1	3619.7	3543.4	79.2	31.1	22.6
45°	*4202.3*	4176.8	4021.3	4388.9	3469.8	3399.1	42.4	22.6	17.0
47.5°	*4080.7*	4043.9	3891.2	4058.0	3317.1	3246.4	36.8	17.0	11.3
50°	*3953.4*	3913.8	3747.0	3766.8	3155.9	3085.2	28.3	11.3	5.7
52.5°	*3812.0*	3763.9	3594.3	3503.8	2986.3	2921.2	22.6	5.7	2.8
55°	*3662.1*	3608.4	3438.7	3274.7	2808.1	2734.6	17.0	5.7	2.8
57.5°	*3495.3*	3435.9	3274.7	3057.0	2618.6	1849.4	11.3	5.7	2.8
60°	*3320.0*	3260.6	3099.4	2853.4	2426.3	127.3	5.7	5.7	2.8
62.5°	*3133.3*	3071.1	2915.6	2646.9	2219.9	104.6	5.7	5.7	5.7
65°	*2938.2*	2864.7	2723.3	2434.8	2013.5	87.7	5.7	5.7	5.7
67.5°	*2743.1*	2649.7	2516.8	2217.1	1801.4	73.5	5.7	5.7	5.7
70°	*2536.6*	2434.8	2296.3	1996.5	1578.0	59.4	5.7	5.7	5.7
72.5°	*2324.5*	2225.6	2075.7	1773.1	1368.7	45.2	5.7	5.7	5.7
75°	*2101.1*	2010.6	1849.4	1549.7	1142.5	33.9	11.3	5.7	5.7
77.5°	*1869.2*	1798.5	1617.6	1320.6	921.9	22.6	11.3	5.7	5.7
80°	*1654.3*	1575.1	1388.5	1088.7	709.8	17.0	11.3	8.5	5.7
82.5°	*1433.7*	1363.0	1176.4	876.6	509.0	14.1	11.3	8.5	5.7
85°	*1235.8*	1167.9	978.5	684.4	333.7	11.3	8.5	8.5	5.7
87.5°	*1060.5*	998.2	811.6	500.5	189.5	8.5	8.5	8.5	5.7
90°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)