

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: P976632

Luminaire Tested: 22SR-LD2-C-25-UNV-L840-CD1-ST-U

Issue Date: 03/18/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P976632  
Test Lab: INNOVATION CENTER(P3)  
Issue Date: 03/18/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22SR-LD2-C-25-UNV-L840-CD1-ST-U  
Description: METALUX SKYRIDGE 2x2 2500LM PACKAGE 80CRI 4000K TROFFER with Straw SKYTRIM  
Light Source: 4000K CCT, 80+ CRI LEDS  
Ballast/Driver: -

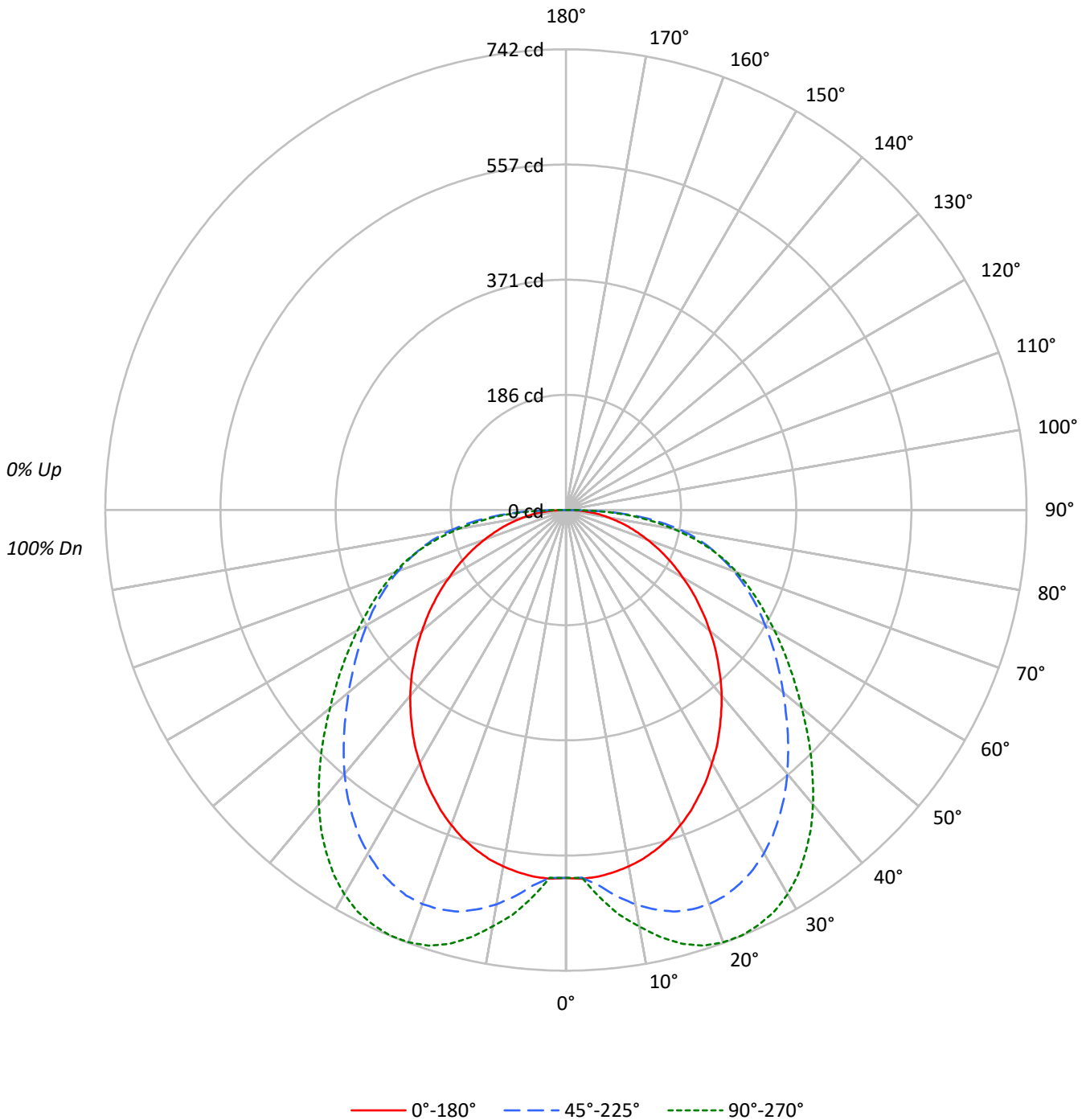
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2244.0 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.62 / 1.55  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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CATALOG NUMBER: 22SR-LD2-C-25-UNV-L840-CD1-ST-U

### Luminous Intensity Polar Plot





TEST NUMBER: P976632

CATALOG NUMBER: 22SR-LD2-C-25-UNV-L840-CD1-ST-U

**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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	107	102	97	92	104	99	95	91	95	91	88	91	88	85	87	85	83	80	80	80	80
2	97	87	80	74	94	86	79	73	82	76	71	79	74	69	75	71	68	65	65	65	65
3	88	76	67	60	85	75	66	60	72	64	59	69	63	58	66	61	57	54	54	54	54
4	80	67	58	51	78	66	57	50	63	56	49	61	54	49	59	53	48	46	46	46	46
5	73	60	50	43	71	59	50	43	56	49	42	54	47	42	52	46	42	39	39	39	39
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	47	41	36	34	34	34	34
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30	30	30	30
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	40	33	29	27	27	27	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24	24	24	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	21	21	21	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1595	1595	1595
5°	1601	1639	1693
10°	1592	1762	1861
15°	1575	1865	2015
20°	1546	1934	2121
25°	1507	1971	2187
30°	1462	1983	2220
35°	1418	1972	2211
40°	1371	1949	2175
45°	1318	1922	2124
50°	1267	1914	2076
55°	1218	1935	2063
60°	1170	1993	2087
65°	1132	2101	2164
70°	1099	2264	2303
75°	1083	2527	2502
80°	1088	2921	2741
85°	1149	3600	3242

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 50°  
 Vertical Angle: 87.5°  
 Luminance: 4288 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.9	2.6
10°-20°	185.5	8.3
20°-30°	297.2	13.2
30°-40°	363.0	16.2
40°-50°	373.8	16.7
50°-60°	346.5	15.4
60°-70°	297.0	13.2
70°-80°	223.4	10.0
80°-90°	98.7	4.4
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°	541.6	24.1
0°-40°	904.6	40.3
0°-60°	1624.9	72.4
0°-90°	2244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2244.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	593	593	593	593	593	
5°	593	593	607	621	627	56
15°	565	607	670	708	723	159
25°	508	582	664	717	736	234
35°	432	516	600	654	673	270
45°	346	432	505	545	558	267
55°	260	346	412	434	440	232
65°	178	269	330	337	340	176
75°	104	190	243	242	241	110
85°	37	88	117	107	105	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7
2.5°	594.4	593.6	592.7	593.6	592.7	592.7	591.9	591.0	592.7	592.7	592.7
5°	592.7	591.9	591.0	591.9	591.9	593.6	594.4	598.5	603.5	606.7	611.7
7.5°	588.6	587.8	586.9	589.5	592.7	598.5	605.2	613.4	620.9	627.4	633.2
10°	582.8	582.0	582.0	587.8	596.0	606.7	615.9	625.8	635.7	644.8	653.0
12.5°	575.3	575.3	576.2	586.9	599.4	612.5	623.3	635.7	648.1	658.8	668.7
15°	565.4	564.6	568.8	583.7	599.4	614.2	628.2	642.3	657.2	669.6	680.3
17.5°	553.8	553.1	561.3	579.5	596.0	613.4	629.9	645.6	661.4	674.5	687.0
20°	539.8	539.8	551.4	572.9	591.0	610.1	627.4	644.0	661.4	675.4	688.7
22.5°	524.9	525.8	540.6	563.0	582.8	602.6	620.9	639.0	656.4	672.1	685.3
25°	507.5	509.2	526.6	549.7	571.2	591.9	610.8	629.9	648.1	663.8	677.9
27.5°	490.2	491.8	512.5	535.7	558.0	578.7	598.5	618.3	637.3	653.0	667.2
30°	470.4	474.5	495.2	519.1	542.3	563.0	583.7	603.5	621.6	638.2	653.0
32.5°	452.2	455.4	478.6	501.7	525.8	546.4	567.1	586.1	604.3	620.9	634.9
35°	431.5	436.5	459.7	482.8	506.0	526.6	547.3	566.3	584.5	600.2	614.2
37.5°	410.9	417.5	439.7	463.8	486.0	506.8	527.5	545.6	563.8	578.7	591.9
40°	390.2	396.0	419.1	442.3	465.4	485.3	505.1	522.4	539.8	554.7	567.1
42.5°	368.7	375.3	398.4	420.8	443.1	462.9	482.8	500.2	516.7	529.9	541.5
45°	346.3	354.7	376.9	399.3	421.6	441.4	460.4	477.0	491.8	505.1	515.9
47.5°	324.9	334.0	356.2	378.6	400.1	419.1	438.2	454.7	468.7	480.3	490.2
50°	302.6	313.3	334.8	356.2	378.6	397.7	415.8	430.7	445.5	457.1	465.4
52.5°	281.1	291.8	314.2	335.6	357.1	376.2	394.3	410.0	423.3	434.1	443.1
55°	259.6	271.2	293.5	314.9	336.4	355.5	373.6	388.5	401.8	412.5	419.9
57.5°	238.9	251.3	272.9	295.1	316.6	335.6	353.8	368.7	381.1	391.0	398.4
60°	217.4	231.4	252.9	274.4	296.8	316.6	334.0	348.9	361.3	370.4	376.9
62.5°	197.6	211.6	233.1	255.5	277.8	297.6	314.9	329.9	341.4	350.6	355.5
65°	177.8	192.6	214.1	236.5	258.7	278.5	295.9	310.8	321.6	329.9	334.8
67.5°	158.7	173.6	195.0	217.4	239.7	259.6	277.0	291.0	301.7	309.2	312.5
70°	139.7	154.6	176.1	198.4	219.9	240.6	257.9	271.2	281.9	287.7	290.1
72.5°	121.6	137.3	157.9	178.6	200.8	220.8	238.1	252.1	260.4	265.4	269.5
75°	104.2	119.0	138.8	159.5	180.2	200.8	217.4	229.8	238.1	243.0	244.7
77.5°	86.8	101.6	120.7	139.7	160.4	179.3	195.9	207.5	214.1	218.2	220.8
80°	70.2	83.5	100.9	119.0	138.0	155.4	170.3	181.0	186.8	188.5	188.5
82.5°	54.6	65.3	80.2	95.9	112.4	128.1	141.4	149.6	153.7	154.6	153.7
85°	37.2	44.6	56.2	68.6	81.0	95.1	106.6	112.4	114.9	116.6	114.9
87.5°	19.8	22.4	28.9	36.4	45.4	54.6	62.0	66.1	68.6	68.6	69.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7
2.5°	592.7	592.7	593.6	592.7	592.7	593.6	592.7	592.7
5°	614.2	615.9	620.0	621.6	622.4	625.0	625.0	626.6
7.5°	637.3	641.5	645.6	648.9	651.4	654.7	655.6	657.2
10°	658.8	663.8	668.7	673.7	677.1	678.6	680.3	681.2
12.5°	676.2	682.9	689.4	694.3	698.6	701.0	703.5	704.4
15°	688.7	697.7	705.1	711.7	715.9	719.2	721.7	723.3
17.5°	696.9	706.8	715.0	722.5	727.5	730.7	734.1	735.7
20°	699.3	709.3	719.2	726.6	732.4	736.5	739.1	740.7
22.5°	696.9	707.6	717.5	725.8	731.6	736.5	739.1	741.5
25°	690.2	701.8	712.6	720.8	727.5	732.4	734.9	736.5
27.5°	680.3	692.8	703.5	711.7	718.4	723.3	726.6	728.3
30°	666.3	677.9	689.4	697.7	704.4	709.3	712.6	714.3
32.5°	648.9	660.5	671.3	679.5	687.0	691.1	694.3	696.0
35°	627.4	639.0	649.8	657.2	664.6	668.7	672.1	673.0
37.5°	604.3	615.9	625.8	632.4	639.8	643.1	647.2	648.1
40°	578.7	589.5	598.5	605.2	611.7	615.1	617.5	619.2
42.5°	552.2	562.1	571.2	577.0	582.0	585.2	588.6	588.6
45°	526.6	534.0	542.3	547.3	552.2	554.7	557.2	558.0
47.5°	500.2	507.5	514.2	517.4	522.4	524.1	525.8	526.6
50°	474.5	481.1	486.0	489.4	492.7	494.4	496.0	496.0
52.5°	449.6	455.4	459.7	461.2	464.6	465.4	466.2	467.0
55°	426.6	430.7	434.1	434.8	437.3	437.3	439.0	439.7
57.5°	404.2	406.7	409.2	409.2	410.9	410.9	412.5	413.3
60°	382.0	383.5	384.4	384.4	386.1	385.2	386.9	387.7
62.5°	359.6	360.5	360.5	360.5	361.3	361.3	362.0	362.9
65°	337.3	337.3	337.3	337.3	338.1	337.3	339.0	339.8
67.5°	314.9	314.2	314.2	313.3	314.9	314.2	315.8	316.6
70°	291.8	291.8	290.1	290.1	291.0	291.8	292.7	292.7
72.5°	268.6	267.1	267.1	266.2	267.1	267.8	269.5	268.6
75°	244.7	243.9	242.2	241.4	241.4	240.6	241.4	240.6
77.5°	216.5	214.1	210.7	210.0	208.3	207.5	208.3	209.2
80°	183.6	181.0	178.6	177.8	176.1	176.1	176.1	176.9
82.5°	148.8	147.2	144.6	144.6	143.0	143.0	143.0	142.2
85°	110.0	109.1	107.4	107.4	105.9	105.9	105.9	105.0
87.5°	64.5	64.5	62.8	63.7	61.1	61.1	61.1	62.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.0	14.7	13.4	15.0	15.3	14.9	16.6	15.3	17.0	17.3
	3H	14.8	16.4	15.2	16.7	17.0	17.3	18.9	17.7	19.2	19.6
	4H	15.5	17.0	15.9	17.4	17.7	18.5	19.9	18.8	20.3	20.6
	6H	16.1	17.5	16.5	17.9	18.2	19.4	20.8	19.9	21.2	21.6
	8H	16.3	17.7	16.8	18.0	18.4	19.9	21.2	20.3	21.6	22.0
	12H	16.5	17.8	16.9	18.1	18.6	20.3	21.5	20.7	21.9	22.3
4H	2H	14.3	15.8	14.7	16.1	16.5	15.7	17.2	16.1	17.5	17.9
	3H	16.6	17.8	17.0	18.2	18.6	18.4	19.6	18.8	20.0	20.4
	4H	17.6	18.7	18.0	19.1	19.6	19.7	20.8	20.1	21.2	21.6
	6H	18.4	19.4	18.8	19.8	20.3	20.8	21.8	21.3	22.3	22.7
	8H	18.6	19.6	19.1	20.0	20.5	21.3	22.3	21.8	22.7	23.2
	12H	18.9	19.7	19.3	20.2	20.7	21.8	22.7	22.3	23.1	23.6
8H	4H	18.5	19.5	19.0	19.9	20.4	20.2	21.1	20.6	21.6	22.0
	6H	19.7	20.5	20.2	21.0	21.5	21.6	22.4	22.0	22.8	23.3
	8H	20.2	20.9	20.7	21.4	21.9	22.2	22.9	22.7	23.4	23.9
	12H	20.6	21.2	21.1	21.7	22.2	22.8	23.4	23.3	23.9	24.5
12H	4H	18.7	19.6	19.2	20.1	20.5	20.3	21.1	20.7	21.6	22.1
	6H	20.0	20.8	20.6	21.2	21.8	21.7	22.5	22.2	22.9	23.5
	8H	20.7	21.3	21.2	21.8	22.4	22.5	23.1	23.0	23.6	24.1

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-457-7

Test Date: 07/02/2025

Luminaire Tested: 24SR-LD2-64-C-UNV-L940-CD1-U

Data in this report applies to families of products including 24SR-LD2-64-C-UNV-L940-CD1-U

**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2506-457-7  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 07/02/2025  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: Metalux  
 Catalog Number: **24SR-LD2-64-C-UNV-L940-CD1-U**  
 Description: 2X4 SKYRIDGE 6400LM Fixture with new LTN chip

**Spectral Parameters**

CCT (K): 3850  
 CIE u': 0.2283  
 CIE v': 0.5037  
 Duv: -0.0006  
 CIE x: 0.3868  
 CIE y: 0.3794  
 CIE z: 0.2338  
 Peak Wavelength (nm): 630  
 Dominant Wavelength (nm): 579  
 Purity: 29.94798  
 Rf: 91.3  
 Rg: 99.8

CRI (Ra):	94.0		
R1:	95.3	R9:	65.3
R2:	96.3	R10:	89.6
R3:	95.7	R11:	95.5
R4:	95.2	R12:	76.1
R5:	94.4	R13:	95.5
R6:	94.3	R14:	96.8
R7:	94.1	R15:	92.3
R8:	86.7		



**Test Conditions**

Stabilization Time: 38M  
 Operation Time: 1H 38M  
 Sphere Temperature (°C): 24.4

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Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	10/22/2024	10/22/2025
Sphere Thermometer	ONSET IN0085	10/22/2024	10/22/2025
Room Thermometer	ONSET IN0046	10/22/2024	10/22/2025

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CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



CCT = 3850K  
 CIE x = 0.3868  
 CIE y = 0.3794  
 Duv = -0.0006

Point lies inside the ANSI 4000K 4-step quadrangle

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**Photopic Flux vs. Wavelength**

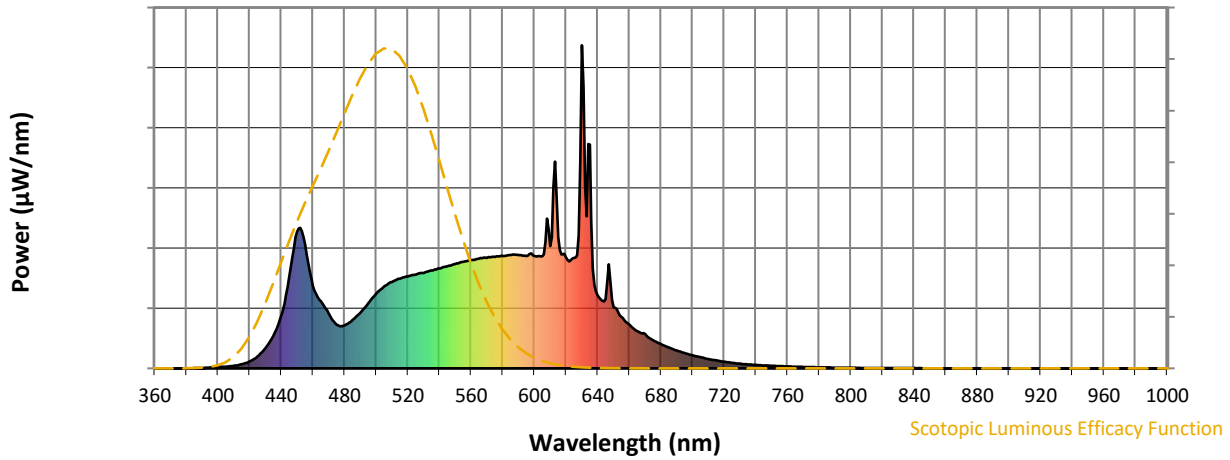


**Photopic Lumens: NR**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	173	NR	620	343	NR	750	8	NR	880	0	NR
365	0	NR	495	201	NR	625	342	NR	755	7	NR	885	0	NR
370	0	NR	500	231	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	253	NR	635	692	NR	765	5	NR	895	0	NR
380	0	NR	510	268	NR	640	226	NR	770	4	NR	900	0	NR
385	1	NR	515	277	NR	645	214	NR	775	4	NR	905	0	NR
390	1	NR	520	284	NR	650	190	NR	780	3	NR	910	0	NR
395	3	NR	525	290	NR	655	160	NR	785	3	NR	915	0	NR
400	4	NR	530	296	NR	660	136	NR	790	2	NR	920	0	NR
405	5	NR	535	303	NR	665	115	NR	795	2	NR	925	0	NR
410	8	NR	540	310	NR	670	106	NR	800	2	NR	930	0	NR
415	13	NR	545	316	NR	675	87	NR	805	2	NR	935	0	NR
420	22	NR	550	323	NR	680	75	NR	810	1	NR	940	0	NR
425	37	NR	555	330	NR	685	64	NR	815	1	NR	945	0	NR
430	62	NR	560	335	NR	690	55	NR	820	1	NR	950	0	NR
435	102	NR	565	340	NR	695	47	NR	825	1	NR	955	0	NR
440	164	NR	570	342	NR	700	40	NR	830	1	NR	960	0	NR
445	281	NR	575	345	NR	705	34	NR	835	1	NR	965	0	NR
450	423	NR	580	348	NR	710	29	NR	840	1	NR	970	0	NR
455	384	NR	585	350	NR	715	25	NR	845	1	NR	975	0	NR
460	256	NR	590	351	NR	720	21	NR	850	0	NR	980	0	NR
465	208	NR	595	348	NR	725	17	NR	855	0	NR	985	0	NR
470	169	NR	600	348	NR	730	14	NR	860	0	NR	990	0	NR
475	135	NR	605	347	NR	735	12	NR	865	0	NR	995	0	NR
480	133	NR	610	379	NR	740	11	NR	870	0	NR	1000	0	NR
485	149	NR	615	406	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2506-457-7

**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: NR**

**S/P: 1.74**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	173	NR	620	343	NR	750	8	NR	880	0	NR
365	0	NR	495	201	NR	625	342	NR	755	7	NR	885	0	NR
370	0	NR	500	231	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	253	NR	635	692	NR	765	5	NR	895	0	NR
380	0	NR	510	268	NR	640	226	NR	770	4	NR	900	0	NR
385	1	NR	515	277	NR	645	214	NR	775	4	NR	905	0	NR
390	1	NR	520	284	NR	650	190	NR	780	3	NR	910	0	NR
395	3	NR	525	290	NR	655	160	NR	785	3	NR	915	0	NR
400	4	NR	530	296	NR	660	136	NR	790	2	NR	920	0	NR
405	5	NR	535	303	NR	665	115	NR	795	2	NR	925	0	NR
410	8	NR	540	310	NR	670	106	NR	800	2	NR	930	0	NR
415	13	NR	545	316	NR	675	87	NR	805	2	NR	935	0	NR
420	22	NR	550	323	NR	680	75	NR	810	1	NR	940	0	NR
425	37	NR	555	330	NR	685	64	NR	815	1	NR	945	0	NR
430	62	NR	560	335	NR	690	55	NR	820	1	NR	950	0	NR
435	102	NR	565	340	NR	695	47	NR	825	1	NR	955	0	NR
440	164	NR	570	342	NR	700	40	NR	830	1	NR	960	0	NR
445	281	NR	575	345	NR	705	34	NR	835	1	NR	965	0	NR
450	423	NR	580	348	NR	710	29	NR	840	1	NR	970	0	NR
455	384	NR	585	350	NR	715	25	NR	845	1	NR	975	0	NR
460	256	NR	590	351	NR	720	21	NR	850	0	NR	980	0	NR
465	208	NR	595	348	NR	725	17	NR	855	0	NR	985	0	NR
470	169	NR	600	348	NR	730	14	NR	860	0	NR	990	0	NR
475	135	NR	605	347	NR	735	12	NR	865	0	NR	995	0	NR
480	133	NR	610	379	NR	740	11	NR	870	0	NR	1000	0	NR
485	149	NR	615	406	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2506-457-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.6

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	173	NR	620	343	NR	750	8	NR	880	0	NR
365	0	NR	495	201	NR	625	342	NR	755	7	NR	885	0	NR
370	0	NR	500	231	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	253	NR	635	692	NR	765	5	NR	895	0	NR
380	0	NR	510	268	NR	640	226	NR	770	4	NR	900	0	NR
385	1	NR	515	277	NR	645	214	NR	775	4	NR	905	0	NR
390	1	NR	520	284	NR	650	190	NR	780	3	NR	910	0	NR
395	3	NR	525	290	NR	655	160	NR	785	3	NR	915	0	NR
400	4	NR	530	296	NR	660	136	NR	790	2	NR	920	0	NR
405	5	NR	535	303	NR	665	115	NR	795	2	NR	925	0	NR
410	8	NR	540	310	NR	670	106	NR	800	2	NR	930	0	NR
415	13	NR	545	316	NR	675	87	NR	805	2	NR	935	0	NR
420	22	NR	550	323	NR	680	75	NR	810	1	NR	940	0	NR
425	37	NR	555	330	NR	685	64	NR	815	1	NR	945	0	NR
430	62	NR	560	335	NR	690	55	NR	820	1	NR	950	0	NR
435	102	NR	565	340	NR	695	47	NR	825	1	NR	955	0	NR
440	164	NR	570	342	NR	700	40	NR	830	1	NR	960	0	NR
445	281	NR	575	345	NR	705	34	NR	835	1	NR	965	0	NR
450	423	NR	580	348	NR	710	29	NR	840	1	NR	970	0	NR
455	384	NR	585	350	NR	715	25	NR	845	1	NR	975	0	NR
460	256	NR	590	351	NR	720	21	NR	850	0	NR	980	0	NR
465	208	NR	595	348	NR	725	17	NR	855	0	NR	985	0	NR
470	169	NR	600	348	NR	730	14	NR	860	0	NR	990	0	NR
475	135	NR	605	347	NR	735	12	NR	865	0	NR	995	0	NR
480	133	NR	610	379	NR	740	11	NR	870	0	NR	1000	0	NR
485	149	NR	615	406	NR	745	9	NR	875	0	NR			

**Summary**

$R_f = 91.3$   
 $R_g = 99.8$   
 $CIE R_a = 94.0$   
 $R_9 = 65.3$



**Color Vector Graphics**

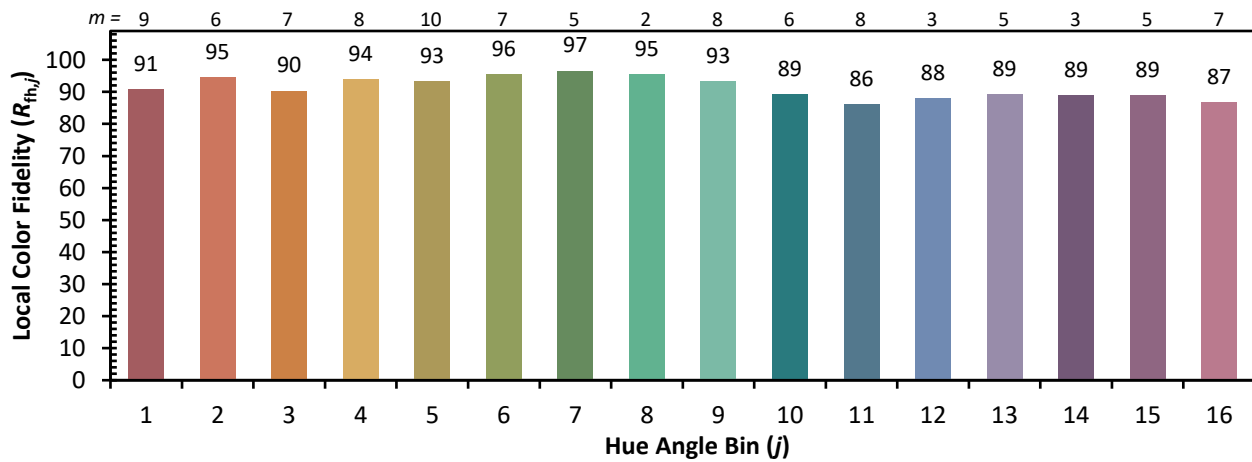
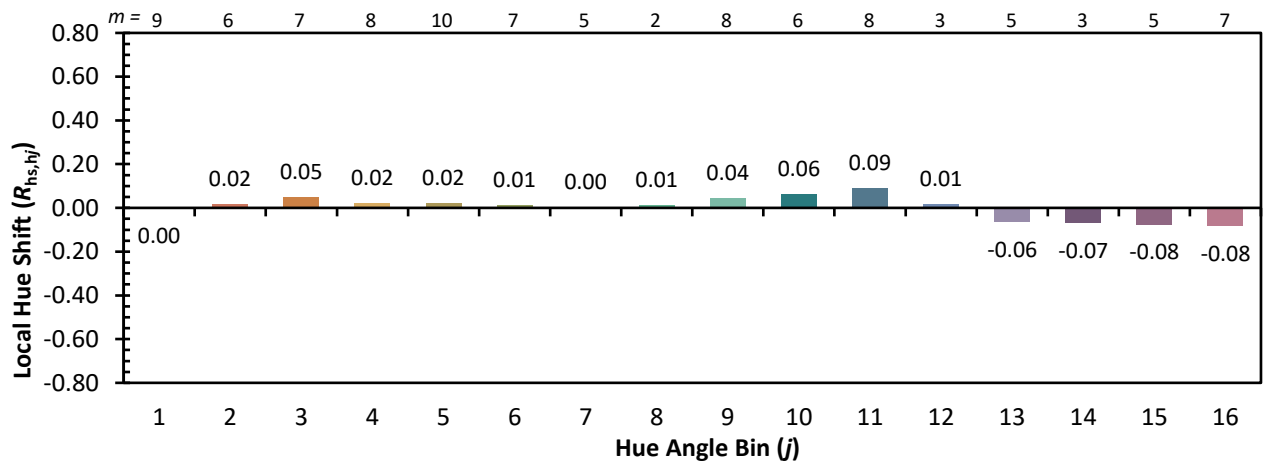
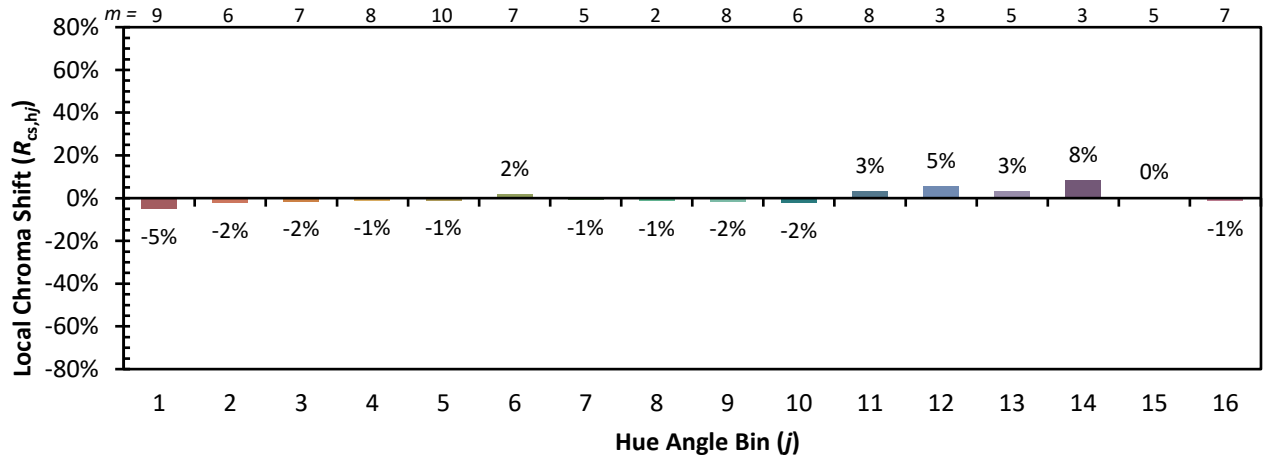


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

CES01 = 86	CES26 = 93	CES51 = 98	CES76 = 87
CES02 = 62	CES27 = 91	CES52 = 99	CES77 = 88
CES03 = 31	CES28 = 96	CES53 = 97	CES78 = 83
CES04 = 69	CES29 = 96	CES54 = 94	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 92
CES06 = 50	CES31 = 96	CES56 = 95	CES81 = 79
CES07 = 42	CES32 = 88	CES57 = 94	CES82 = 96
CES08 = 41	CES33 = 99	CES58 = 95	CES83 = 95
CES09 = 29	CES34 = 93	CES59 = 97	CES84 = 94
CES10 = 74	CES35 = 96	CES60 = 93	CES85 = 81
CES11 = 57	CES36 = 81	CES61 = 92	CES86 = 83
CES12 = 63	CES37 = 94	CES62 = 87	CES87 = 92
CES13 = 43	CES38 = 88	CES63 = 93	CES88 = 98
CES14 = 74	CES39 = 99	CES64 = 91	CES89 = 85
CES15 = 71	CES40 = 97	CES65 = 89	CES90 = 97
CES16 = 47	CES41 = 97	CES66 = 88	CES91 = 73
CES17 = 49	CES42 = 93	CES67 = 87	CES92 = 77
CES18 = 56	CES43 = 93	CES68 = 88	CES93 = 86
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 76
CES20 = 66	CES45 = 96	CES70 = 86	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 81	CES96 = 92
CES22 = 78	CES47 = 93	CES72 = 94	CES97 = 95
CES23 = 91	CES48 = 92	CES73 = 80	CES98 = 95
CES24 = 90	CES49 = 96	CES74 = 91	CES99 = 93
CES25 = 71	CES50 = 98	CES75 = 83	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)