

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: P976624

Luminaire Tested: 22SR-LD2-C-29-UNV-L950-CD1-SO-U

Issue Date: 03/18/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P976624  
Test Lab: INNOVATION CENTER(P3)  
Issue Date: 03/18/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22SR-LD2-C-29-UNV-L950-CD1-SO-U  
Description: METALUX SKYRIDGE 2x2 2900LM PACKAGE 90CRI 5000K TROFFER with Storaro Orange SKYTR  
Light Source: 5000K CCT, 90+ CRI LEDS  
Ballast/Driver: -

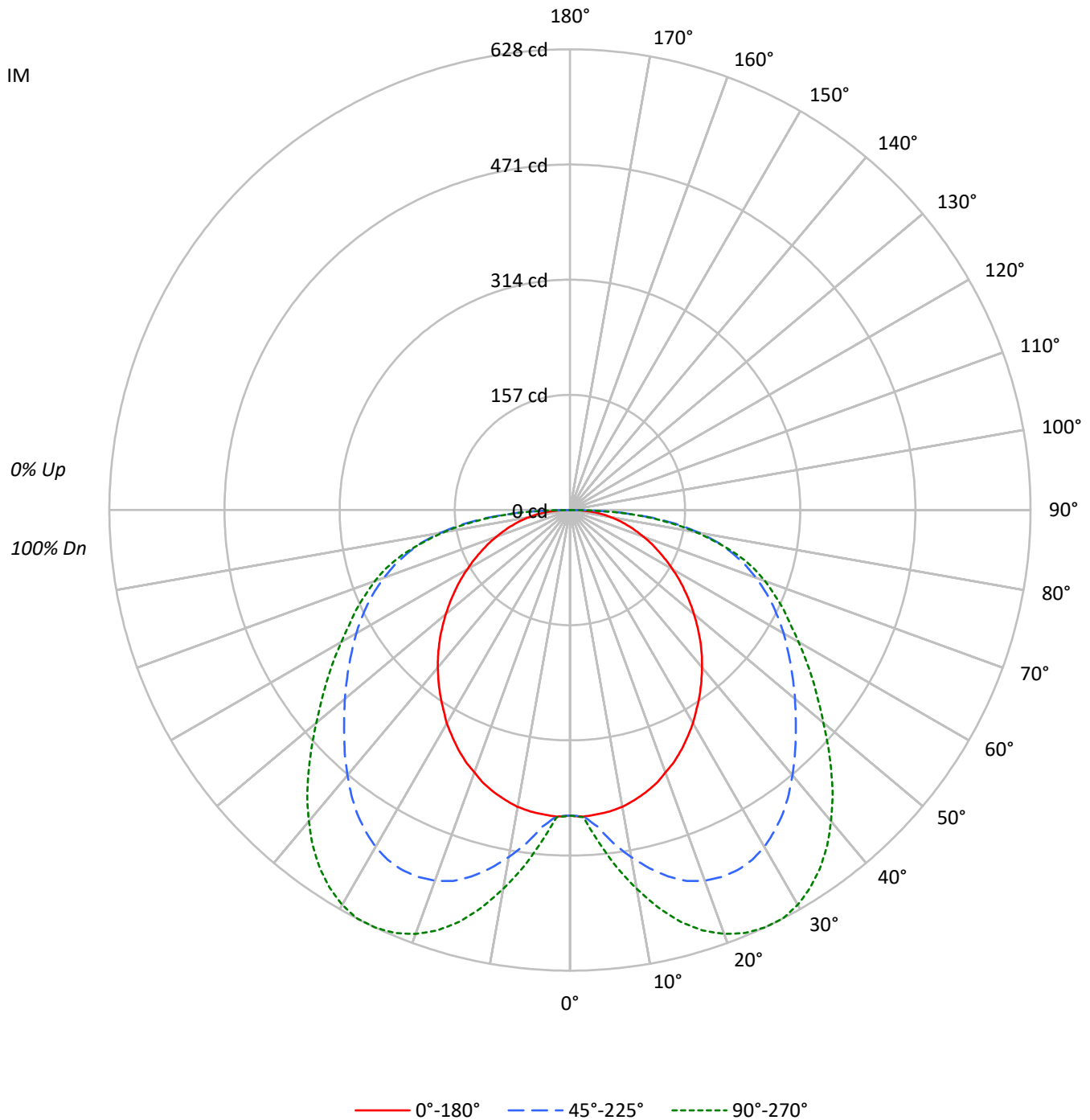
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1918.0 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.85 / 1.71  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.3  
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

TEST NUMBER: P976624  
CATALOG NUMBER: 22SR-LD2-C-29-UNV-L950-CD1-SO-U

### Luminous Intensity Polar Plot





TEST NUMBER: P976624

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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	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	101	96	91	104	99	94	90	94	90	87	90	87	84	87	84	82	79	79	79	79
2	96	86	79	72	93	85	77	71	81	75	70	77	72	68	74	70	66	64	64	64	64
3	87	75	66	59	84	73	65	58	70	63	57	67	61	56	65	60	55	53	53	53	53
4	79	66	56	49	77	64	56	49	62	54	48	59	53	47	57	51	46	44	44	44	44
5	72	58	49	42	70	57	48	41	55	47	41	53	46	40	51	45	40	38	38	38	38
6	67	52	43	36	65	51	42	36	49	41	35	48	41	35	46	40	35	32	32	32	32
7	62	47	38	31	60	46	38	31	45	37	31	43	36	31	42	35	31	28	28	28	28
8	57	43	34	28	56	42	34	28	41	33	27	40	32	27	38	32	27	25	25	25	25
9	53	39	31	25	52	39	30	25	37	30	25	36	29	24	35	29	24	22	22	22	22
10	50	36	28	22	49	36	28	22	35	27	22	34	27	22	33	26	22	20	20	20	20

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

	0°	45°	90°
0°	1121	1121	1121
5°	1125	1171	1229
10°	1123	1313	1433
15°	1110	1441	1618
20°	1090	1540	1761
25°	1069	1608	1864
30°	1043	1647	1931
35°	1013	1661	1955
40°	984	1658	1945
45°	956	1657	1918
50°	925	1677	1889
55°	895	1724	1896
60°	870	1812	1938
65°	850	1939	2047
70°	843	2123	2227
75°	850	2394	2463
80°	888	2783	2710
85°	960	3282	3162

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 87.5°  
 Luminance: 3658 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.7	2.2
10°-20°	142.6	7.4
20°-30°	239.8	12.5
30°-40°	302.2	15.8
40°-50°	318.6	16.6
50°-60°	303.6	15.8
60°-70°	268.6	14.0
70°-80°	208.7	10.9
80°-90°	91.2	4.8
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°	425.1	22.2
0°-40°	727.2	37.9
0°-60°	1349.4	70.4
0°-90°	1918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1918.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	416	417	433	449	455	40
15°	399	446	517	565	581	112
25°	360	444	541	605	628	166
35°	308	406	506	572	595	193
45°	251	346	435	487	504	194
55°	191	288	368	398	404	171
65°	134	231	304	317	322	133
75°	82	169	230	235	237	86
85°	31	77	106	102	102	33
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°	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5
2.5°	418.4	418.4	417.4	417.4	417.4	417.4	416.5	416.5	417.4	417.4	417.4
5°	416.5	416.5	416.5	416.5	416.5	418.4	420.2	424.8	428.7	433.4	438.0
7.5°	414.5	413.6	413.6	415.5	419.2	425.8	433.4	442.7	451.2	458.8	465.3
10°	410.8	410.8	410.8	416.5	425.8	438.0	449.3	459.6	470.1	480.4	490.7
12.5°	405.2	405.2	407.1	418.4	432.4	447.5	460.6	474.8	488.8	500.1	512.3
15°	398.6	398.6	403.3	419.2	437.1	454.0	470.9	487.0	502.9	517.1	530.2
17.5°	391.0	390.1	399.5	419.2	439.0	458.8	477.5	496.3	514.2	530.2	544.3
20°	380.7	381.7	394.9	417.4	439.0	461.6	481.4	501.0	520.8	537.7	552.7
22.5°	371.4	373.2	389.2	413.6	437.1	460.6	482.3	502.9	523.6	541.4	557.5
25°	360.1	361.9	380.7	407.1	431.4	455.9	478.5	501.0	521.8	541.4	558.4
27.5°	347.9	350.6	372.3	398.6	424.8	449.3	472.8	495.4	517.9	537.7	554.6
30°	335.6	339.3	362.8	390.1	415.5	440.9	465.3	488.0	510.5	530.2	548.0
32.5°	321.5	326.3	351.6	378.8	405.2	429.7	454.0	477.5	499.2	518.9	536.8
35°	308.4	314.0	339.3	366.7	392.9	418.4	441.9	465.3	486.0	505.7	523.6
37.5°	294.2	299.9	326.3	353.5	378.8	404.2	427.7	450.3	470.9	489.7	506.7
40°	280.2	286.7	312.1	339.3	363.8	389.2	411.8	434.3	454.0	471.9	488.8
42.5°	266.0	273.6	298.9	325.3	349.6	374.1	396.7	418.4	437.1	454.0	469.1
45°	251.1	259.4	283.9	310.2	334.7	358.2	380.7	401.5	419.2	435.3	450.3
47.5°	235.9	245.4	269.8	296.2	319.7	343.2	363.8	384.4	401.5	417.4	430.5
50°	220.9	231.3	255.7	281.0	304.5	328.1	348.8	368.5	384.4	400.5	412.7
52.5°	205.8	218.1	242.5	267.0	290.5	313.1	333.7	352.5	368.5	383.6	394.9
55°	190.8	204.0	228.4	252.8	276.4	298.9	318.7	338.4	353.5	367.5	378.0
57.5°	176.7	189.9	214.3	238.8	262.3	284.9	304.5	323.4	338.4	351.6	361.9
60°	161.7	176.7	200.2	224.7	248.2	270.7	290.5	309.2	324.3	336.6	345.0
62.5°	147.5	162.7	187.1	210.6	234.0	256.7	276.4	295.2	309.2	320.6	328.1
65°	133.5	149.5	173.0	196.5	220.0	242.5	262.3	280.2	294.2	304.5	311.1
67.5°	120.3	136.3	159.8	182.3	205.8	227.5	248.2	265.1	277.3	287.6	292.3
70°	107.1	123.2	145.7	168.3	190.8	212.4	232.2	249.1	261.4	269.8	274.4
72.5°	94.0	110.0	131.6	153.2	175.9	196.5	216.3	232.2	243.5	251.1	254.8
75°	81.8	96.8	117.6	138.2	158.9	179.6	198.4	213.4	223.7	230.3	234.0
77.5°	69.6	84.6	103.4	122.2	141.9	161.7	179.6	192.8	203.1	207.7	211.5
80°	57.3	70.5	87.4	104.4	123.2	140.1	157.0	168.3	176.7	179.6	180.5
82.5°	45.1	55.4	69.6	83.7	99.7	114.7	128.8	137.2	144.8	145.7	146.7
85°	31.1	37.5	48.0	58.3	70.5	82.8	94.0	100.6	106.3	106.3	107.1
87.5°	15.9	17.9	22.5	29.1	36.7	43.3	51.7	54.6	58.3	59.3	59.3
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°	416.5	416.5	416.5	416.5	416.5	416.5	416.5	416.5
2.5°	418.4	418.4	418.4	419.2	419.2	419.2	419.2	419.2
5°	441.9	444.6	448.4	450.3	452.2	454.0	455.0	455.0
7.5°	470.1	474.8	480.4	484.1	487.0	489.7	491.7	491.7
10°	497.3	504.9	509.5	516.1	519.9	521.8	524.5	524.5
12.5°	520.8	529.2	536.8	544.3	548.0	550.9	554.6	554.6
15°	540.5	551.8	560.3	568.8	573.5	577.2	580.1	580.9
17.5°	556.6	567.8	577.2	586.5	592.3	597.0	599.7	600.7
20°	565.9	579.1	589.4	598.8	605.4	611.0	613.9	614.9
22.5°	572.5	585.7	597.0	607.3	614.9	620.5	623.2	624.2
25°	573.5	587.5	599.7	610.0	618.6	624.2	627.0	627.9
27.5°	570.6	585.7	597.9	609.2	617.6	623.2	627.0	627.9
30°	564.0	579.1	592.3	603.6	611.0	617.6	620.5	621.3
32.5°	552.7	567.8	580.9	591.3	599.7	606.3	609.2	610.0
35°	539.7	553.7	565.9	577.2	584.7	591.3	595.1	595.1
37.5°	521.8	535.8	548.0	558.4	565.9	572.5	575.3	576.2
40°	502.9	516.1	527.4	537.7	545.3	550.9	553.7	553.7
42.5°	483.1	496.3	506.7	515.2	521.8	527.4	529.2	530.2
45°	462.5	473.8	483.1	490.7	496.3	501.0	502.9	503.9
47.5°	442.7	453.2	461.6	468.2	472.8	475.7	476.7	477.5
50°	423.1	432.4	439.0	444.6	447.5	450.3	451.2	451.2
52.5°	404.2	412.7	417.4	421.1	424.0	426.8	426.8	426.8
55°	386.3	392.9	396.7	399.5	401.5	403.3	404.2	404.2
57.5°	368.5	373.2	376.0	378.8	379.8	380.7	380.7	381.7
60°	350.6	354.5	356.2	358.2	358.2	359.1	360.1	360.1
62.5°	332.7	334.7	336.6	337.5	337.5	339.3	339.3	339.3
65°	314.0	315.8	316.8	316.8	317.7	319.7	319.7	321.5
67.5°	295.2	296.2	296.2	297.1	297.9	299.9	299.9	301.8
70°	276.4	277.3	276.4	278.3	278.3	280.2	281.0	283.0
72.5°	256.7	256.7	256.7	257.5	258.5	260.4	261.4	262.3
75°	234.0	235.0	235.0	235.0	234.0	235.0	235.0	236.9
77.5°	208.7	206.8	205.0	205.0	203.1	204.0	204.0	205.8
80°	177.6	175.9	173.9	173.9	172.0	173.9	174.9	174.9
82.5°	143.8	142.9	141.1	141.1	140.1	140.1	140.1	141.1
85°	105.3	104.4	102.4	102.4	101.5	101.5	102.4	102.4
87.5°	58.3	57.3	56.4	56.4	54.6	55.4	57.3	56.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P976624

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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	12.1	13.9	12.5	14.2	14.5	14.9	16.6	15.3	17.0	17.3
	3H	14.0	15.6	14.3	15.9	16.3	17.4	19.0	17.8	19.3	19.7
	4H	14.7	16.2	15.1	16.6	16.9	18.6	20.1	19.0	20.5	20.8
	6H	15.3	16.7	15.7	17.1	17.5	19.7	21.1	20.1	21.4	21.8
	8H	15.5	16.9	16.0	17.3	17.7	20.1	21.5	20.5	21.9	22.3
	12H	15.7	17.0	16.1	17.4	17.8	20.5	21.8	20.9	22.2	22.6
4H	2H	13.8	15.3	14.2	15.6	16.0	15.6	17.2	16.0	17.5	17.9
	3H	16.1	17.4	16.5	17.8	18.2	18.4	19.7	18.9	20.1	20.5
	4H	17.1	18.2	17.5	18.7	19.1	19.8	21.0	20.3	21.4	21.8
	6H	17.9	18.9	18.3	19.3	19.8	21.1	22.1	21.5	22.5	23.0
	8H	18.2	19.1	18.6	19.6	20.0	21.6	22.6	22.0	23.0	23.5
	12H	18.4	19.3	18.8	19.7	20.2	22.1	23.0	22.5	23.4	23.9
8H	4H	18.2	19.2	18.7	19.6	20.1	20.3	21.3	20.8	21.8	22.2
	6H	19.4	20.2	19.9	20.7	21.2	21.8	22.6	22.3	23.1	23.6
	8H	19.9	20.6	20.4	21.1	21.6	22.5	23.2	23.0	23.7	24.2
	12H	20.2	20.9	20.7	21.4	21.9	23.1	23.7	23.6	24.2	24.8
12H	4H	18.4	19.3	18.9	19.8	20.3	20.4	21.3	20.9	21.8	22.3
	6H	19.8	20.5	20.3	21.0	21.5	22.0	22.7	22.5	23.2	23.7
	8H	20.4	21.1	20.9	21.6	22.1	22.7	23.4	23.2	23.9	24.4

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-457-8

Test Date: 07/02/2025

Luminaire Tested: 24SR-LD2-64-C-UNV-L950-CD1-U

Data in this report applies to families of products including 24SR-LD2-64-C-UNV-L950-CD1-U

**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2506-457-8  
 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-L950-CD1-U**  
 Description: 2X4 SKYRIDGE 6400LM Fixture with new LTN chip

**Spectral Parameters**

CCT (K): 4803  
 CIE u': 0.2133  
 CIE v': 0.4881  
 Duv: 0.0004  
 CIE x: 0.3510  
 CIE y: 0.3570  
 CIE z: 0.2921  
 Peak Wavelength (nm): 630  
 Dominant Wavelength (nm): 574  
 Purity: 12.41797  
 Rf: 91.5  
 Rg: 100.9

CRI (Ra):	94.6		
R1:	95.9	R9:	74.3
R2:	96.0	R10:	88.6
R3:	94.0	R11:	95.2
R4:	95.8	R12:	71.3
R5:	94.6	R13:	96.0
R6:	92.9	R14:	96.1
R7:	96.3	R15:	94.1
R8:	91.2		



**Test Conditions**

Stabilization Time: 43M  
 Operation Time: 1H 43M  
 Sphere Temperature (°C): 24.9

REPORT NUMBER: SP1-2506-457-8

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



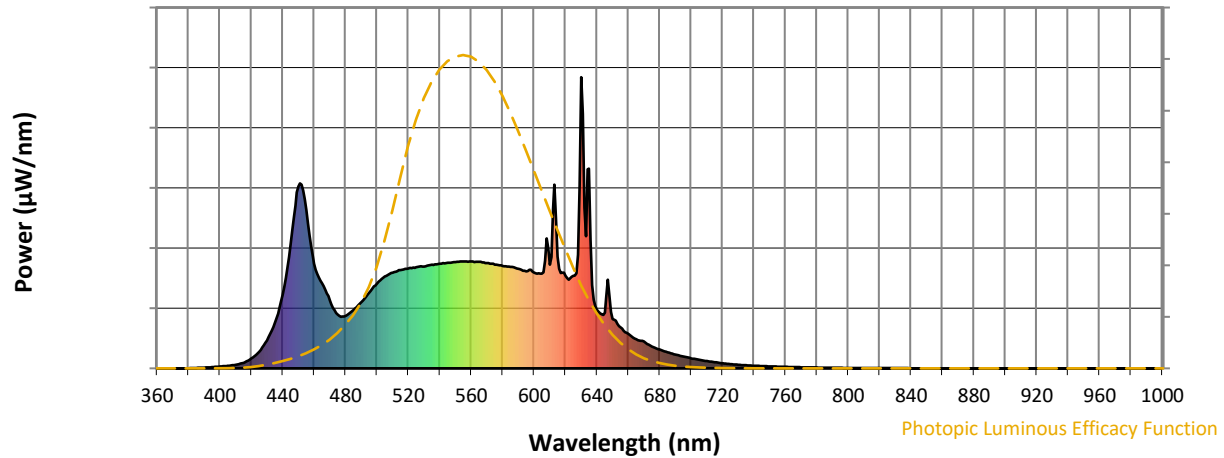
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

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**Photopic Flux vs. Wavelength**

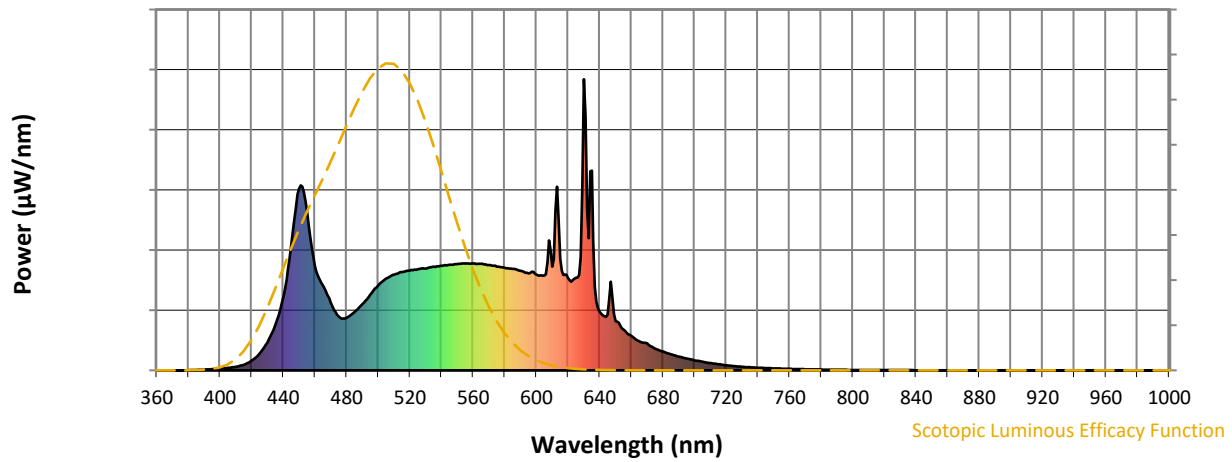


**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	227	NR	620	318	NR	750	7	NR	880	0	NR
365	0	NR	495	259	NR	625	318	NR	755	6	NR	885	0	NR
370	0	NR	500	292	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	315	NR	635	686	NR	765	4	NR	895	0	NR
380	0	NR	510	329	NR	640	202	NR	770	4	NR	900	0	NR
385	1	NR	515	338	NR	645	192	NR	775	3	NR	905	0	NR
390	3	NR	520	343	NR	650	169	NR	780	3	NR	910	0	NR
395	5	NR	525	347	NR	655	141	NR	785	2	NR	915	0	NR
400	6	NR	530	350	NR	660	119	NR	790	2	NR	920	0	NR
405	9	NR	535	356	NR	665	100	NR	795	2	NR	925	0	NR
410	12	NR	540	359	NR	670	92	NR	800	2	NR	930	0	NR
415	19	NR	545	363	NR	675	75	NR	805	1	NR	935	0	NR
420	34	NR	550	365	NR	680	64	NR	810	1	NR	940	0	NR
425	57	NR	555	368	NR	685	55	NR	815	1	NR	945	0	NR
430	96	NR	560	367	NR	690	47	NR	820	1	NR	950	0	NR
435	157	NR	565	366	NR	695	41	NR	825	1	NR	955	0	NR
440	252	NR	570	361	NR	700	34	NR	830	1	NR	960	0	NR
445	427	NR	575	356	NR	705	30	NR	835	1	NR	965	0	NR
450	625	NR	580	352	NR	710	25	NR	840	1	NR	970	0	NR
455	544	NR	585	348	NR	715	21	NR	845	0	NR	975	0	NR
460	360	NR	590	342	NR	720	18	NR	850	0	NR	980	0	NR
465	292	NR	595	333	NR	725	15	NR	855	0	NR	985	0	NR
470	232	NR	600	329	NR	730	12	NR	860	0	NR	990	0	NR
475	184	NR	605	325	NR	735	11	NR	865	0	NR	995	0	NR
480	180	NR	610	357	NR	740	9	NR	870	0	NR	1000	0	NR
485	201	NR	615	384	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-457-8

**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: NR**

**S/P: 2.02**

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	227	NR	620	318	NR	750	7	NR	880	0	NR
365	0	NR	495	259	NR	625	318	NR	755	6	NR	885	0	NR
370	0	NR	500	292	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	315	NR	635	686	NR	765	4	NR	895	0	NR
380	0	NR	510	329	NR	640	202	NR	770	4	NR	900	0	NR
385	1	NR	515	338	NR	645	192	NR	775	3	NR	905	0	NR
390	3	NR	520	343	NR	650	169	NR	780	3	NR	910	0	NR
395	5	NR	525	347	NR	655	141	NR	785	2	NR	915	0	NR
400	6	NR	530	350	NR	660	119	NR	790	2	NR	920	0	NR
405	9	NR	535	356	NR	665	100	NR	795	2	NR	925	0	NR
410	12	NR	540	359	NR	670	92	NR	800	2	NR	930	0	NR
415	19	NR	545	363	NR	675	75	NR	805	1	NR	935	0	NR
420	34	NR	550	365	NR	680	64	NR	810	1	NR	940	0	NR
425	57	NR	555	368	NR	685	55	NR	815	1	NR	945	0	NR
430	96	NR	560	367	NR	690	47	NR	820	1	NR	950	0	NR
435	157	NR	565	366	NR	695	41	NR	825	1	NR	955	0	NR
440	252	NR	570	361	NR	700	34	NR	830	1	NR	960	0	NR
445	427	NR	575	356	NR	705	30	NR	835	1	NR	965	0	NR
450	625	NR	580	352	NR	710	25	NR	840	1	NR	970	0	NR
455	544	NR	585	348	NR	715	21	NR	845	0	NR	975	0	NR
460	360	NR	590	342	NR	720	18	NR	850	0	NR	980	0	NR
465	292	NR	595	333	NR	725	15	NR	855	0	NR	985	0	NR
470	232	NR	600	329	NR	730	12	NR	860	0	NR	990	0	NR
475	184	NR	605	325	NR	735	11	NR	865	0	NR	995	0	NR
480	180	NR	610	357	NR	740	9	NR	870	0	NR	1000	0	NR
485	201	NR	615	384	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-457-8

**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: NR**

**M/P: 4.33**

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	227	NR	620	318	NR	750	7	NR	880	0	NR
365	0	NR	495	259	NR	625	318	NR	755	6	NR	885	0	NR
370	0	NR	500	292	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	315	NR	635	686	NR	765	4	NR	895	0	NR
380	0	NR	510	329	NR	640	202	NR	770	4	NR	900	0	NR
385	1	NR	515	338	NR	645	192	NR	775	3	NR	905	0	NR
390	3	NR	520	343	NR	650	169	NR	780	3	NR	910	0	NR
395	5	NR	525	347	NR	655	141	NR	785	2	NR	915	0	NR
400	6	NR	530	350	NR	660	119	NR	790	2	NR	920	0	NR
405	9	NR	535	356	NR	665	100	NR	795	2	NR	925	0	NR
410	12	NR	540	359	NR	670	92	NR	800	2	NR	930	0	NR
415	19	NR	545	363	NR	675	75	NR	805	1	NR	935	0	NR
420	34	NR	550	365	NR	680	64	NR	810	1	NR	940	0	NR
425	57	NR	555	368	NR	685	55	NR	815	1	NR	945	0	NR
430	96	NR	560	367	NR	690	47	NR	820	1	NR	950	0	NR
435	157	NR	565	366	NR	695	41	NR	825	1	NR	955	0	NR
440	252	NR	570	361	NR	700	34	NR	830	1	NR	960	0	NR
445	427	NR	575	356	NR	705	30	NR	835	1	NR	965	0	NR
450	625	NR	580	352	NR	710	25	NR	840	1	NR	970	0	NR
455	544	NR	585	348	NR	715	21	NR	845	0	NR	975	0	NR
460	360	NR	590	342	NR	720	18	NR	850	0	NR	980	0	NR
465	292	NR	595	333	NR	725	15	NR	855	0	NR	985	0	NR
470	232	NR	600	329	NR	730	12	NR	860	0	NR	990	0	NR
475	184	NR	605	325	NR	735	11	NR	865	0	NR	995	0	NR
480	180	NR	610	357	NR	740	9	NR	870	0	NR	1000	0	NR
485	201	NR	615	384	NR	745	8	NR	875	0	NR			

**Summary**

$R_f = 91.5$   
 $R_g = 100.9$   
 $CIE R_a = 94.6$   
 $R_9 = 74.3$

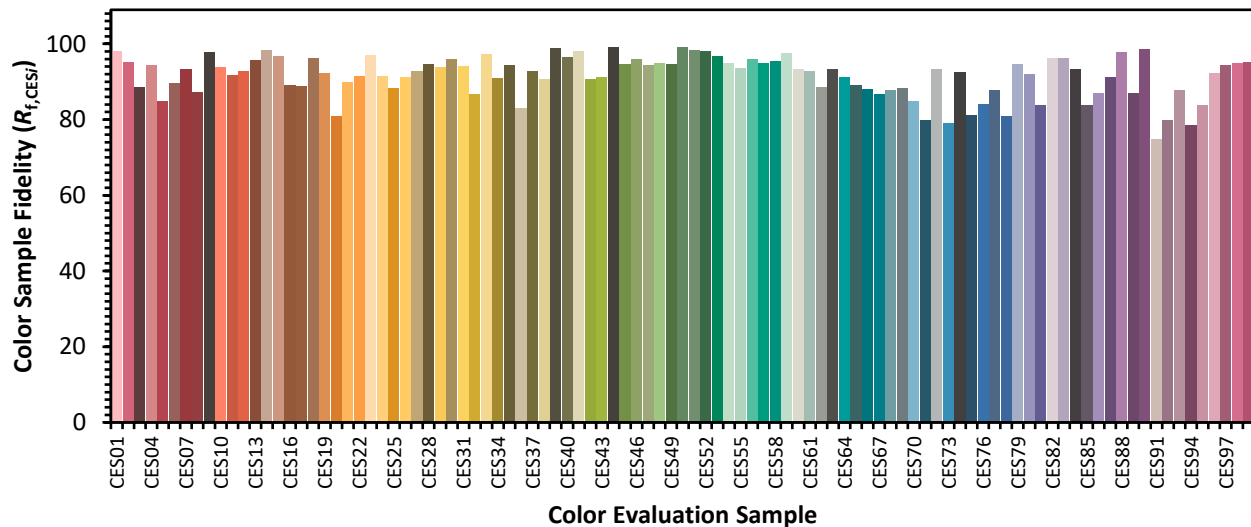


**Color Vector Graphics**



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

CES01 = 85	CES26 = 91	CES51 = 98	CES76 = 84
CES02 = 61	CES27 = 93	CES52 = 98	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 97	CES78 = 81
CES04 = 69	CES29 = 94	CES54 = 95	CES79 = 95
CES05 = 48	CES30 = 96	CES55 = 94	CES80 = 92
CES06 = 50	CES31 = 94	CES56 = 96	CES81 = 84
CES07 = 41	CES32 = 87	CES57 = 95	CES82 = 96
CES08 = 40	CES33 = 97	CES58 = 95	CES83 = 96
CES09 = 29	CES34 = 91	CES59 = 98	CES84 = 93
CES10 = 73	CES35 = 94	CES60 = 93	CES85 = 84
CES11 = 56	CES36 = 83	CES61 = 93	CES86 = 87
CES12 = 62	CES37 = 93	CES62 = 89	CES87 = 91
CES13 = 43	CES38 = 91	CES63 = 93	CES88 = 98
CES14 = 74	CES39 = 99	CES64 = 91	CES89 = 87
CES15 = 71	CES40 = 97	CES65 = 89	CES90 = 99
CES16 = 47	CES41 = 98	CES66 = 88	CES91 = 75
CES17 = 48	CES42 = 91	CES67 = 87	CES92 = 80
CES18 = 56	CES43 = 91	CES68 = 88	CES93 = 88
CES19 = 70	CES44 = 99	CES69 = 88	CES94 = 79
CES20 = 65	CES45 = 95	CES70 = 85	CES95 = 84
CES21 = 85	CES46 = 96	CES71 = 80	CES96 = 92
CES22 = 77	CES47 = 94	CES72 = 93	CES97 = 94
CES23 = 91	CES48 = 95	CES73 = 79	CES98 = 95
CES24 = 90	CES49 = 95	CES74 = 93	CES99 = 95
CES25 = 70	CES50 = 99	CES75 = 81	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)