

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: P976739

Luminaire Tested: 24SR-LD2-C-39-UNV-L830-CD1-MR-U

Issue Date: 03/18/2025

Test Information

Test Method: LM-79-2019
Report Number: P976739
Test Lab: INNOVATION CENTER(P3)
Issue Date: 03/18/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24SR-LD2-C-39-UNV-L830-CD1-MR-U
Description: METALUX SKYRIDGE 2x4 3900LM PACKAGE 80CRI 3000K TROFFER with Medium Red SKYTRIM
Light Source: 3000K CCT, 80+ CRI LEDS
Ballast/Driver: -

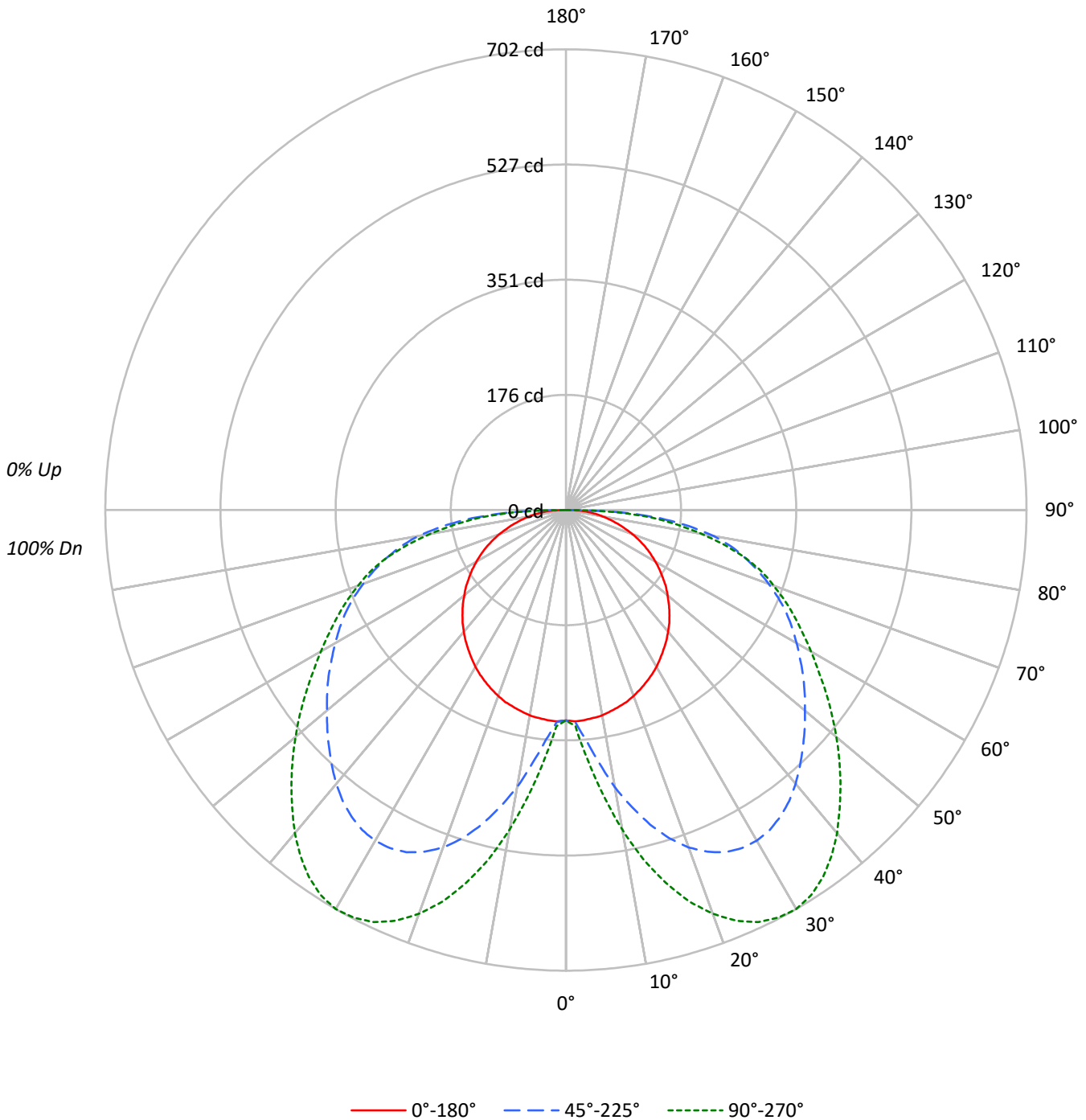
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2168.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 2.27 / 2.06
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27.7
Input Voltage (V): 120
Input Current (A_{in}): 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: P976739
CATALOG NUMBER: 24SR-LD2-C-39-UNV-L830-CD1-MR-U

Luminous Intensity Polar Plot





TEST NUMBER: P976739

CATALOG NUMBER: 24SR-LD2-C-39-UNV-L830-CD1-MR-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	102	102	102	100
1	106	100	95	90	103	98	93	88	93	89	85	89	86	83	86	83	80	86	83	80	78
2	95	85	77	70	92	83	76	69	79	73	68	76	71	66	73	68	64	73	68	64	62
3	85	73	64	56	83	72	63	56	69	61	55	66	59	54	63	58	53	63	58	53	50
4	78	64	54	47	75	63	53	46	60	52	46	58	51	45	55	49	44	55	49	44	42
5	71	57	47	39	69	55	46	39	53	45	39	51	44	38	49	43	38	49	43	38	35
6	65	50	41	34	63	49	40	33	48	39	33	46	38	33	44	38	32	44	38	32	30
7	60	45	36	29	58	45	35	29	43	35	29	41	34	29	40	33	28	40	33	28	26
8	56	41	32	26	54	40	32	26	39	31	25	38	30	25	36	30	25	36	30	25	23
9	52	38	29	23	50	37	28	23	36	28	23	35	27	22	33	27	22	33	27	22	20
10	48	34	26	20	47	34	26	20	33	25	20	32	25	20	31	25	20	31	25	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	431	431	431
5°	434	475	516
10°	434	586	675
15°	432	691	819
20°	432	784	937
25°	430	854	1029
30°	429	904	1091
35°	426	936	1122
40°	425	956	1129
45°	425	972	1126
50°	423	995	1126
55°	423	1036	1134
60°	424	1093	1161
65°	426	1180	1223
70°	426	1293	1325
75°	426	1472	1477
80°	445	1771	1629
85°	520	2221	2010

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 40°
 Vertical Angle: 87.5°
 Luminance: 2727 cd/sqm



TEST NUMBER: P976739

CATALOG NUMBER: 24SR-LD2-C-39-UNV-L830-CD1-MR-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.5	1.6
10°-20°	134.7	6.2
20°-30°	247.8	11.4
30°-40°	330.3	15.2
40°-50°	361.9	16.7
50°-60°	355.8	16.4
60°-70°	322.9	14.9
70°-80°	257.1	11.9
80°-90°	121.9	5.6
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°	418.1	19.3
0°-40°	748.4	34.5
0°-60°	1466.1	67.6
0°-90°	2168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	320	320	320	320	320	
5°	321	324	352	374	382	31
15°	310	385	496	565	588	88
25°	290	426	575	661	693	134
35°	259	419	570	654	683	163
45°	223	378	511	573	592	172
55°	180	334	442	475	484	161
65°	134	289	371	378	384	132
75°	82	225	283	281	284	87
85°	34	122	144	130	130	35
90°	0	0	0	0	0	



TEST NUMBER: P976739

CATALOG NUMBER: 24SR-LD2-C-39-UNV-L830-CD1-MR-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	320.5	320.5	320.5	320.5	320.5	320.5	320.5	320.5	320.5	320.5	320.5
2.5°	322.3	322.3	321.3	321.3	321.3	320.5	320.5	321.3	322.3	323.2	324.2
5°	321.3	321.3	321.3	321.3	322.3	326.0	330.5	336.9	342.3	351.5	356.0
7.5°	319.6	319.6	320.5	323.2	330.5	340.5	352.3	365.9	377.0	388.7	399.7
10°	317.8	317.8	319.6	328.7	343.3	360.6	377.8	395.1	410.6	428.8	442.4
12.5°	314.1	314.1	319.6	335.9	357.9	379.7	401.5	424.3	444.3	463.4	482.5
15°	310.4	310.4	321.3	344.1	371.5	397.8	423.3	449.8	473.4	496.2	516.2
17.5°	306.9	307.7	324.2	353.2	383.4	414.2	444.3	472.6	498.9	524.4	547.2
20°	301.4	303.2	326.0	359.6	393.3	428.0	459.8	490.7	519.9	547.2	570.9
22.5°	295.8	299.5	326.9	364.2	401.5	438.9	472.6	504.4	535.3	563.6	588.1
25°	289.5	294.1	327.7	366.9	407.0	445.2	480.7	514.4	546.2	575.4	600.0
27.5°	283.1	289.5	326.0	366.9	408.8	448.8	484.3	519.0	552.6	580.9	607.3
30°	275.9	284.1	323.2	365.9	408.8	447.9	484.3	519.9	552.6	581.8	607.3
32.5°	267.7	278.6	318.6	362.4	405.2	445.2	481.6	516.2	549.0	578.1	602.7
35°	259.4	271.3	313.3	356.9	399.7	438.9	474.3	509.0	540.8	570.0	594.5
37.5°	251.2	265.0	306.9	350.5	391.4	429.7	465.2	499.9	530.8	559.0	581.8
40°	242.2	256.8	298.7	341.4	382.4	418.8	454.3	487.0	517.2	544.5	566.3
42.5°	233.1	248.5	289.5	332.4	371.5	407.9	442.4	474.3	503.5	528.1	548.1
45°	223.1	239.5	280.4	321.3	359.6	396.1	429.7	459.8	488.0	510.8	528.9
47.5°	213.0	230.4	270.4	311.4	348.7	384.2	416.9	446.1	471.6	493.4	510.8
50°	202.1	220.4	260.4	300.5	337.8	372.3	404.2	431.5	456.2	475.3	491.7
52.5°	192.2	211.3	250.4	290.5	326.9	361.4	392.4	417.9	440.7	458.8	472.6
55°	180.3	201.2	241.3	280.4	316.8	350.5	379.7	404.2	425.1	441.6	453.5
57.5°	169.4	191.2	231.3	270.4	305.9	339.6	366.9	390.6	408.8	423.3	434.3
60°	157.5	181.1	221.2	260.4	295.8	328.7	355.0	377.0	394.3	406.0	415.2
62.5°	145.7	170.2	212.1	250.4	284.9	315.9	341.4	361.4	377.0	388.7	394.3
65°	133.8	159.3	201.2	240.3	274.0	303.2	327.7	346.8	360.6	370.6	374.2
67.5°	121.1	148.4	190.3	227.6	261.3	289.5	312.3	330.5	342.3	350.5	352.3
70°	108.3	135.7	177.6	214.8	246.7	273.2	295.8	311.4	323.2	328.7	330.5
72.5°	94.7	122.9	164.8	200.3	230.4	256.8	276.7	293.2	303.2	306.9	306.9
75°	82.0	109.2	150.3	184.0	213.0	237.6	256.8	271.3	280.4	283.1	282.2
77.5°	69.2	96.5	134.7	166.7	193.0	215.8	234.0	247.7	255.9	258.6	257.6
80°	57.4	82.8	116.5	146.6	170.2	191.2	207.6	222.2	229.4	228.6	223.1
82.5°	45.5	67.4	97.4	123.8	144.7	163.9	180.3	189.3	192.2	189.3	184.0
85°	33.7	51.0	75.6	96.5	113.9	129.3	139.3	145.7	146.6	143.9	139.3
87.5°	20.0	30.0	44.6	57.4	70.1	77.3	82.8	87.4	88.4	85.5	83.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P976739

CATALOG NUMBER: 24SR-LD2-C-39-UNV-L830-CD1-MR-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	320.5	320.5	320.5	320.5	320.5	320.5	320.5	320.5
2.5°	325.0	326.0	326.9	328.7	327.7	328.7	328.7	329.6
5°	362.4	367.8	371.5	377.0	377.0	379.7	380.5	382.4
7.5°	407.9	415.2	423.3	431.5	432.5	437.0	438.9	438.9
10°	454.3	464.4	474.3	483.5	486.2	491.7	494.4	494.4
12.5°	496.2	507.1	520.7	530.8	534.5	540.8	544.5	545.4
15°	532.6	546.2	560.0	570.9	577.2	583.6	587.3	588.1
17.5°	563.6	579.9	594.5	605.4	612.8	620.0	624.5	625.5
20°	588.1	606.4	621.0	632.8	641.0	650.0	653.7	654.6
22.5°	607.3	624.5	641.0	653.7	662.8	672.0	676.5	677.4
25°	620.0	638.3	654.6	668.3	678.3	686.4	691.1	692.8
27.5°	627.4	646.5	662.8	675.5	685.6	694.6	699.2	700.2
30°	628.2	647.3	663.8	676.5	686.4	695.6	700.2	702.0
32.5°	623.7	642.8	658.2	671.0	681.0	689.2	693.8	695.6
35°	614.6	632.8	648.2	660.1	669.2	676.5	681.9	682.9
37.5°	601.9	619.1	632.8	643.7	652.9	660.1	664.6	664.6
40°	584.5	600.9	612.8	622.7	631.9	637.3	642.8	642.8
42.5°	565.3	580.9	591.8	600.9	607.3	613.6	617.3	617.3
45°	545.4	558.1	569.0	576.4	582.7	587.3	591.8	591.8
47.5°	525.4	536.3	544.5	551.7	557.3	561.8	565.3	565.3
50°	504.4	514.4	520.7	527.1	531.8	535.3	538.1	538.1
52.5°	483.5	491.7	496.2	501.6	505.3	509.0	510.8	510.8
55°	463.4	468.9	472.6	477.1	479.8	481.6	483.5	483.5
57.5°	441.6	445.2	448.8	451.6	453.5	455.2	457.0	456.2
60°	419.8	422.4	425.1	427.0	428.8	430.7	431.5	431.5
62.5°	397.8	398.8	399.7	403.3	405.2	406.0	407.0	407.0
65°	376.0	376.0	377.0	379.7	381.5	383.4	384.2	384.2
67.5°	352.3	353.2	354.2	356.9	357.9	359.6	361.4	361.4
70°	328.7	329.6	329.6	332.4	333.2	335.1	336.9	336.9
72.5°	305.9	305.9	305.9	307.7	309.6	311.4	313.3	313.3
75°	280.4	280.4	280.4	282.2	282.2	283.1	284.9	284.1
77.5°	253.1	250.4	247.7	246.7	246.7	247.7	248.5	248.5
80°	217.7	214.0	212.1	210.3	209.4	210.3	211.3	210.3
82.5°	180.3	175.7	173.0	172.1	172.1	172.1	173.0	171.2
85°	136.5	132.0	130.2	130.2	129.3	129.3	129.3	130.2
87.5°	82.0	79.2	76.5	77.3	76.5	75.6	76.5	78.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P976739

CATALOG NUMBER: 24SR-LD2-C-39-UNV-L830-CD1-MR-U

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	10.3	12.1	10.6	12.4	12.7	13.2	15.0	13.6	15.3	15.6
	3H	12.3	13.9	12.6	14.2	14.6	15.8	17.4	16.1	17.7	18.1
	4H	13.0	14.6	13.4	14.9	15.3	17.0	18.5	17.4	18.9	19.2
	6H	13.6	15.1	14.1	15.5	15.9	18.1	19.5	18.5	19.9	20.3
	8H	13.9	15.3	14.3	15.7	16.0	18.5	19.9	19.0	20.3	20.7
	12H	14.0	15.4	14.5	15.8	16.2	19.0	20.3	19.4	20.7	21.1
4H	2H	12.0	13.6	12.4	13.9	14.3	14.0	15.6	14.4	15.9	16.3
	3H	14.5	15.9	15.0	16.3	16.7	16.8	18.1	17.2	18.5	18.9
	4H	15.6	16.9	16.1	17.3	17.7	18.2	19.4	18.6	19.8	20.3
	6H	16.6	17.6	17.0	18.1	18.5	19.5	20.5	19.9	21.0	21.4
	8H	16.9	17.9	17.3	18.3	18.8	20.0	21.0	20.5	21.5	21.9
	12H	17.1	18.1	17.6	18.5	19.0	20.5	21.5	21.0	21.9	22.4
8H	4H	16.8	17.8	17.3	18.3	18.7	18.8	19.8	19.2	20.2	20.7
	6H	18.2	19.0	18.6	19.5	20.0	20.2	21.1	20.7	21.6	22.0
	8H	18.7	19.5	19.2	20.0	20.5	20.9	21.7	21.4	22.2	22.7
	12H	19.2	19.9	19.7	20.4	21.0	21.6	22.3	22.1	22.8	23.3
12H	4H	17.0	18.0	17.5	18.4	18.9	18.9	19.8	19.3	20.3	20.7
	6H	18.6	19.3	19.1	19.8	20.3	20.4	21.2	20.9	21.7	22.2
	8H	19.3	20.0	19.8	20.5	21.0	21.2	21.9	21.7	22.4	22.9

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

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-457-5

Test Date: 07/02/2025

Luminaire Tested: 24SR-LD2-64-C-UNV-L930-CD1-U

Data in this report applies to families of products including 24SR-LD2-64-C-UNV-L930-CD1-U

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-457-5
 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-L930-CD1-U**
 Description: 2X4 SKYRIDGE 6400LM Fixture with new LTN chip

Spectral Parameters

CCT (K): 2935
 CIE u': 0.2530
 CIE v': 0.5224
 Duv: -0.0002
 CIE x: 0.4413
 CIE y: 0.4049
 CIE z: 0.1538
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 583
 Purity: 53.99297
 Rf: 91.8
 Rg: 99.6

CRI (Ra):	93.5		
R1:	94.7	R9:	55.1
R2:	97.2	R10:	92.3
R3:	98.6	R11:	97.0
R4:	95.2	R12:	86.4
R5:	94.7	R13:	95.3
R6:	96.8	R14:	98.2
R7:	90.9	R15:	89.3
R8:	80.4		



Test Conditions

Stabilization Time: 40M
 Operation Time: 1H 40M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2506-457-5

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

REPORT NUMBER: SP1-2506-457-5

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 7-step quadrangle

REPORT NUMBER: SP1-2506-457-5

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	108	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	129	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	151	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	168	NR	635	695	NR	765	5	NR	895	0	NR
380	0	NR	510	179	NR	640	225	NR	770	4	NR	900	0	NR
385	0	NR	515	187	NR	645	214	NR	775	4	NR	905	0	NR
390	0	NR	520	194	NR	650	190	NR	780	3	NR	910	0	NR
395	1	NR	525	199	NR	655	160	NR	785	3	NR	915	0	NR
400	2	NR	530	205	NR	660	136	NR	790	2	NR	920	0	NR
405	2	NR	535	213	NR	665	115	NR	795	2	NR	925	0	NR
410	4	NR	540	219	NR	670	106	NR	800	2	NR	930	0	NR
415	7	NR	545	228	NR	675	87	NR	805	1	NR	935	0	NR
420	12	NR	550	236	NR	680	74	NR	810	1	NR	940	0	NR
425	20	NR	555	247	NR	685	64	NR	815	1	NR	945	0	NR
430	32	NR	560	257	NR	690	55	NR	820	1	NR	950	0	NR
435	50	NR	565	267	NR	695	47	NR	825	1	NR	955	0	NR
440	79	NR	570	277	NR	700	40	NR	830	1	NR	960	0	NR
445	133	NR	575	287	NR	705	34	NR	835	1	NR	965	0	NR
450	194	NR	580	297	NR	710	29	NR	840	1	NR	970	0	NR
455	168	NR	585	308	NR	715	24	NR	845	0	NR	975	0	NR
460	117	NR	590	315	NR	720	20	NR	850	0	NR	980	0	NR
465	101	NR	595	320	NR	725	17	NR	855	0	NR	985	0	NR
470	85	NR	600	327	NR	730	14	NR	860	0	NR	990	0	NR
475	73	NR	605	331	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	91	NR	615	398	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2506-457-5

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.4

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	108	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	129	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	151	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	168	NR	635	695	NR	765	5	NR	895	0	NR
380	0	NR	510	179	NR	640	225	NR	770	4	NR	900	0	NR
385	0	NR	515	187	NR	645	214	NR	775	4	NR	905	0	NR
390	0	NR	520	194	NR	650	190	NR	780	3	NR	910	0	NR
395	1	NR	525	199	NR	655	160	NR	785	3	NR	915	0	NR
400	2	NR	530	205	NR	660	136	NR	790	2	NR	920	0	NR
405	2	NR	535	213	NR	665	115	NR	795	2	NR	925	0	NR
410	4	NR	540	219	NR	670	106	NR	800	2	NR	930	0	NR
415	7	NR	545	228	NR	675	87	NR	805	1	NR	935	0	NR
420	12	NR	550	236	NR	680	74	NR	810	1	NR	940	0	NR
425	20	NR	555	247	NR	685	64	NR	815	1	NR	945	0	NR
430	32	NR	560	257	NR	690	55	NR	820	1	NR	950	0	NR
435	50	NR	565	267	NR	695	47	NR	825	1	NR	955	0	NR
440	79	NR	570	277	NR	700	40	NR	830	1	NR	960	0	NR
445	133	NR	575	287	NR	705	34	NR	835	1	NR	965	0	NR
450	194	NR	580	297	NR	710	29	NR	840	1	NR	970	0	NR
455	168	NR	585	308	NR	715	24	NR	845	0	NR	975	0	NR
460	117	NR	590	315	NR	720	20	NR	850	0	NR	980	0	NR
465	101	NR	595	320	NR	725	17	NR	855	0	NR	985	0	NR
470	85	NR	600	327	NR	730	14	NR	860	0	NR	990	0	NR
475	73	NR	605	331	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	91	NR	615	398	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2506-457-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.72

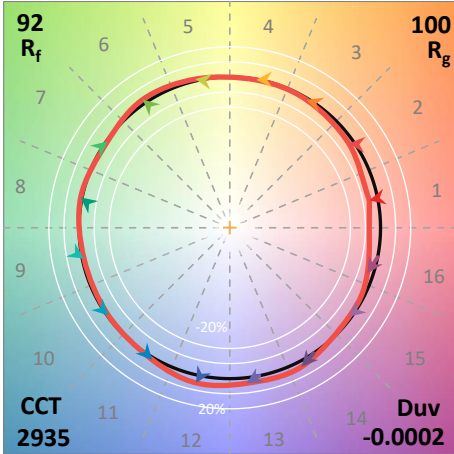
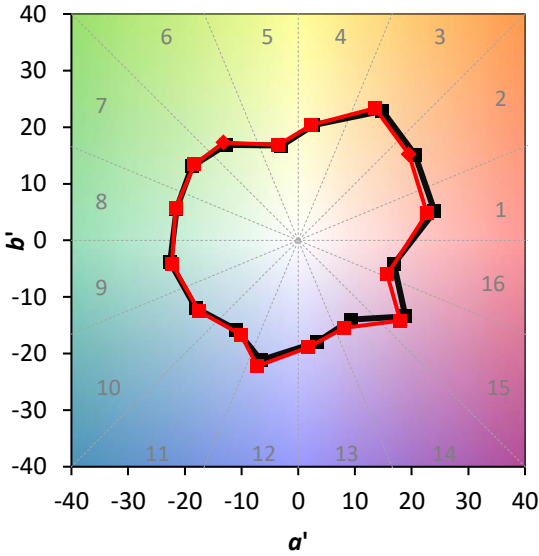
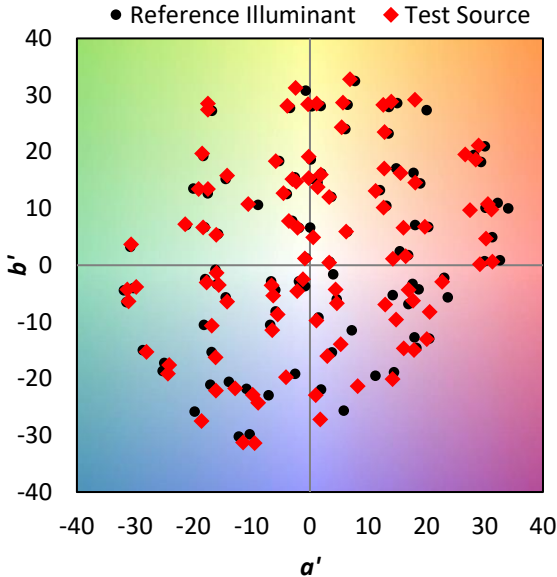
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	108	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	129	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	151	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	168	NR	635	695	NR	765	5	NR	895	0	NR
380	0	NR	510	179	NR	640	225	NR	770	4	NR	900	0	NR
385	0	NR	515	187	NR	645	214	NR	775	4	NR	905	0	NR
390	0	NR	520	194	NR	650	190	NR	780	3	NR	910	0	NR
395	1	NR	525	199	NR	655	160	NR	785	3	NR	915	0	NR
400	2	NR	530	205	NR	660	136	NR	790	2	NR	920	0	NR
405	2	NR	535	213	NR	665	115	NR	795	2	NR	925	0	NR
410	4	NR	540	219	NR	670	106	NR	800	2	NR	930	0	NR
415	7	NR	545	228	NR	675	87	NR	805	1	NR	935	0	NR
420	12	NR	550	236	NR	680	74	NR	810	1	NR	940	0	NR
425	20	NR	555	247	NR	685	64	NR	815	1	NR	945	0	NR
430	32	NR	560	257	NR	690	55	NR	820	1	NR	950	0	NR
435	50	NR	565	267	NR	695	47	NR	825	1	NR	955	0	NR
440	79	NR	570	277	NR	700	40	NR	830	1	NR	960	0	NR
445	133	NR	575	287	NR	705	34	NR	835	1	NR	965	0	NR
450	194	NR	580	297	NR	710	29	NR	840	1	NR	970	0	NR
455	168	NR	585	308	NR	715	24	NR	845	0	NR	975	0	NR
460	117	NR	590	315	NR	720	20	NR	850	0	NR	980	0	NR
465	101	NR	595	320	NR	725	17	NR	855	0	NR	985	0	NR
470	85	NR	600	327	NR	730	14	NR	860	0	NR	990	0	NR
475	73	NR	605	331	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	91	NR	615	398	NR	745	9	NR	875	0	NR			

Summary

$R_f = 91.8$
 $R_g = 99.6$
 $CIE R_a = 93.5$
 $R_9 = 55.1$



Color Vector Graphics

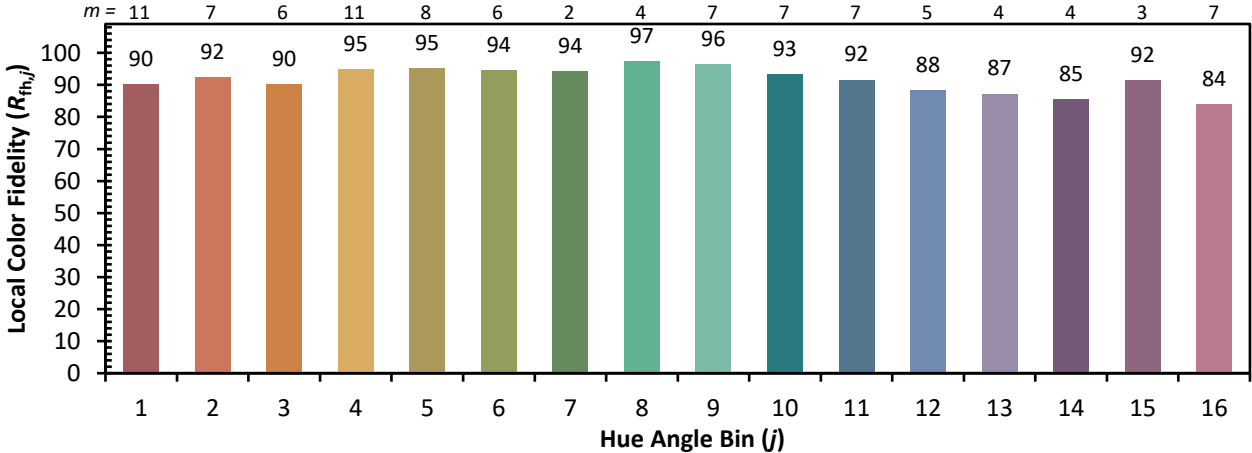


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 94	CES51 = 97	CES76 = 91
CES02 = 63	CES27 = 95	CES52 = 98	CES77 = 84
CES03 = 32	CES28 = 97	CES53 = 97	CES78 = 88
CES04 = 70	CES29 = 94	CES54 = 96	CES79 = 88
CES05 = 51	CES30 = 98	CES55 = 96	CES80 = 90
CES06 = 51	CES31 = 95	CES56 = 97	CES81 = 70
CES07 = 44	CES32 = 87	CES57 = 96	CES82 = 96
CES08 = 42	CES33 = 96	CES58 = 97	CES83 = 93
CES09 = 29	CES34 = 95	CES59 = 98	CES84 = 96
CES10 = 76	CES35 = 97	CES60 = 95	CES85 = 79
CES11 = 59	CES36 = 88	CES61 = 95	CES86 = 75
CES12 = 65	CES37 = 96	CES62 = 93	CES87 = 92
CES13 = 44	CES38 = 95	CES63 = 95	CES88 = 96
CES14 = 74	CES39 = 98	CES64 = 95	CES89 = 82
CES15 = 72	CES40 = 96	CES65 = 91	CES90 = 97
CES16 = 48	CES41 = 96	CES66 = 94	CES91 = 82
CES17 = 50	CES42 = 95	CES67 = 93	CES92 = 77
CES18 = 57	CES43 = 94	CES68 = 92	CES93 = 86
CES19 = 72	CES44 = 99	CES69 = 93	CES94 = 72
CES20 = 67	CES45 = 97	CES70 = 91	CES95 = 85
CES21 = 86	CES46 = 95	CES71 = 89	CES96 = 92
CES22 = 79	CES47 = 88	CES72 = 96	CES97 = 95
CES23 = 92	CES48 = 94	CES73 = 86	CES98 = 94
CES24 = 91	CES49 = 95	CES74 = 89	CES99 = 91
CES25 = 72	CES50 = 98	CES75 = 90	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)