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: P977015

Luminaire Tested: 24SR-LD2-C-64-UNV-L840-CD1-ST-U

Issue Date: 03/18/2025

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P977015
Test Lab:	INNOVATION CENTER(P3)
Issue Date:	03/18/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24SR-LD2-C-64-UNV-L840-CD1-ST-U
Description:	METALUX SKYRIDGE 2x4 6400LM PACKAGE 80CRI 4000K TROFFER with Straw SKYTRIM
Light Source:	4000K CCT, 80+ CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5728.0 lumens
Efficiency:	N/A
Efficacy:	120.3 lumens/watt
Spacing Criteria (0/90/45):	1.15 / 1.62 / 1.56
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	47.6
Input Voltage (V):	120
Input Current (Ain):	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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TEST NUMBER: P977015
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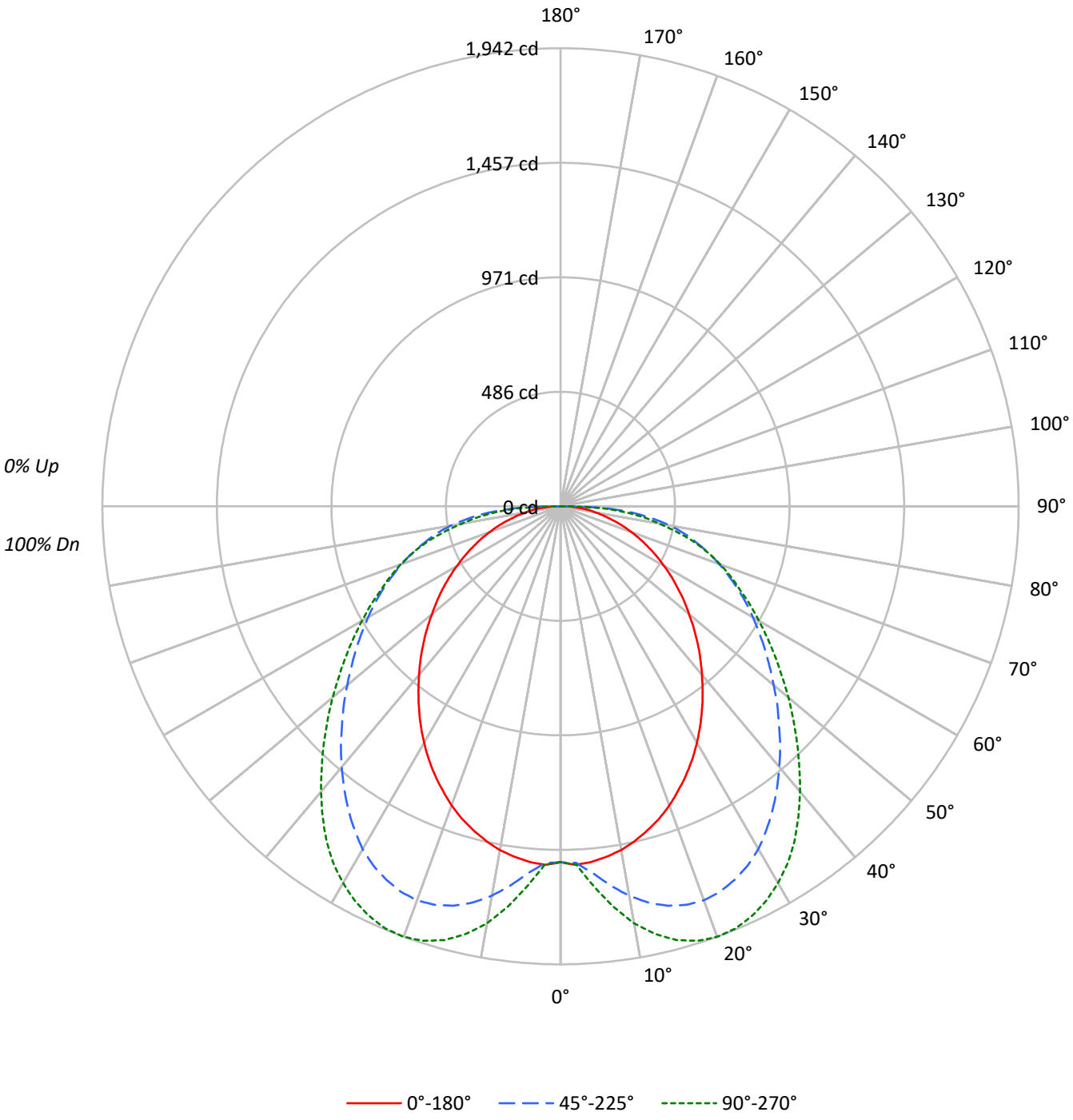
Luminous Intensity Polar Plot



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CATALOG NUMBER: 24SR-LD2-C-64-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	107	102	97	92	104	99	95	91	95	91	88	91	88	85	87	85	83	80
2	97	88	80	74	94	86	79	73	82	76	71	79	74	69	76	71	68	66
3	88	76	68	61	85	75	67	60	72	65	59	69	63	58	66	61	57	54
4	80	67	58	51	78	66	57	50	63	56	50	61	54	49	59	53	48	46
5	74	60	50	43	71	59	50	43	57	49	43	55	48	42	53	47	42	40
6	68	54	44	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	43	37	32	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	55	41	32	26	53	40	32	26	39	31	26	38	31	26	37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2030	2030	2030
5°	2044	2106	2183
10°	2021	2290	2452
15°	1982	2442	2652
20°	1932	2545	2781
25°	1868	2593	2847
30°	1798	2607	2864
35°	1719	2577	2842
40°	1638	2534	2774
45°	1564	2491	2698
50°	1489	2470	2640
55°	1427	2483	2606
60°	1368	2535	2613
65°	1311	2641	2676
70°	1257	2817	2835
75°	1199	3107	3059
80°	1190	3667	3310
85°	1306	4721	4128

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 40°
Vertical Angle: 87.5°
Luminance: 6259 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	2.6
10°-20°	481.4	8.4
20°-30°	769.9	13.4
30°-40°	932.0	16.3
40°-50°	951.7	16.6
50°-60°	877.0	15.3
60°-70°	746.0	13.0
70°-80°	557.8	9.7
80°-90°	260.6	4.5
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°	1402.9	24.5
0°-40°	2334.9	40.8
0°-60°	4163.6	72.7
0°-90°	5728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5728.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1514	1505	1560	1599	1616	143
15°	1423	1550	1753	1863	1904	401
25°	1258	1496	1747	1871	1918	579
35°	1046	1322	1569	1688	1730	654
45°	822	1094	1309	1394	1418	634
55°	608	884	1058	1099	1111	545
65°	412	700	830	835	840	408
75°	231	506	598	588	588	246
85°	85	267	306	271	267	89
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°	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9
2.5°	1521.1	1518.0	1513.5	1507.3	1505.8	1505.8	1504.2	1504.2	1507.3	1513.5	1522.6
5°	1513.5	1510.4	1505.8	1501.1	1502.7	1507.3	1516.6	1527.3	1542.6	1559.6	1578.0
7.5°	1498.2	1496.5	1493.4	1493.4	1505.8	1527.3	1548.8	1570.3	1594.9	1621.0	1648.7
10°	1479.6	1478.1	1476.5	1488.9	1516.6	1548.8	1579.4	1608.6	1642.5	1676.2	1708.5
12.5°	1453.5	1453.5	1458.1	1485.8	1524.2	1564.1	1602.6	1641.1	1681.0	1720.9	1756.2
15°	1422.7	1422.7	1438.2	1478.1	1527.3	1573.4	1619.6	1662.6	1708.5	1753.1	1789.9
17.5°	1389.0	1387.5	1416.7	1465.7	1521.1	1574.9	1627.2	1674.8	1722.3	1771.5	1810.0
20°	*1349.1*	*1352.2*	*1390.4*	*1447.3*	*1508.9*	*1568.7*	*1624.1*	*1674.8*	*1725.4*	*1777.7*	*1814.6*
22.5°	1304.4	1310.6	1358.2	1421.2	1490.3	1551.9	1610.3	1664.0	1716.3	1768.4	1805.5
25°	1258.3	1266.2	1324.5	1390.4	1464.3	1527.3	1585.6	1642.5	1694.8	1746.9	1784.0
27.5°	1209.3	1220.0	1286.0	1355.3	1428.9	1495.1	1553.4	1611.7	1664.0	1717.8	1751.7
30°	1157.0	1170.8	1241.5	1312.1	1389.0	1453.5	1511.8	1571.8	1625.6	1677.9	1710.1
32.5°	1101.8	1118.5	1190.7	1267.6	1342.9	1405.9	1464.3	1525.7	1576.3	1625.6	1657.8
35°	1046.3	1066.4	1140.0	1216.9	1290.6	1353.6	1410.5	1471.9	1522.6	1568.7	1599.5
37.5°	989.5	1014.1	1087.9	1163.2	1235.3	1298.4	1356.7	1413.6	1464.3	1507.3	1538.1
40°	932.6	960.3	1034.1	1107.8	1179.9	1239.9	1296.8	1353.6	1404.3	1442.8	1471.9
42.5°	877.4	904.9	980.4	1054.0	1120.2	1181.6	1238.4	1293.7	1339.8	1378.2	1404.3
45°	822.0	851.1	925.0	997.1	1063.3	1124.7	1181.6	1232.2	1276.9	1309.2	1335.2
47.5°	766.8	797.4	871.2	943.4	1006.4	1066.4	1124.7	1170.8	1213.8	1246.1	1267.6
50°	711.3	745.3	817.4	891.3	952.7	1012.6	1067.8	1110.9	1150.8	1179.9	1200.0
52.5°	660.7	692.9	766.8	840.4	902.0	961.8	1014.1	1055.6	1090.8	1117.1	1136.9
55°	608.4	643.7	720.7	791.4	854.2	914.2	961.8	1000.2	1032.5	1058.5	1074.1
57.5°	557.7	597.6	672.9	743.6	808.1	865.0	911.1	947.9	977.3	998.8	1012.6
60°	508.5	550.1	628.4	699.1	763.7	818.9	863.5	897.2	923.5	941.9	954.1
62.5°	459.5	507.0	584.0	657.6	719.0	772.8	814.3	845.1	869.7	886.5	894.1
65°	411.7	460.9	540.7	613.1	674.5	725.2	765.1	792.8	815.8	829.6	832.7
67.5°	365.6	417.9	497.7	570.1	629.9	677.6	716.1	742.2	762.0	771.3	774.4
70°	319.5	373.5	454.7	527.1	584.0	629.9	665.2	689.8	706.8	716.1	716.1
72.5°	276.5	330.4	411.7	482.4	534.8	580.9	613.1	636.1	651.4	657.6	656.1
75°	230.6	285.8	365.6	433.2	484.1	527.1	559.4	582.3	593.1	597.6	596.2
77.5°	190.5	242.8	319.5	382.6	436.3	471.7	503.9	525.4	536.2	539.3	537.9
80°	153.6	202.9	270.5	330.4	376.4	414.8	444.0	467.1	476.2	473.3	459.5
82.5°	118.3	162.9	222.7	275.0	318.0	353.4	384.2	397.9	399.5	391.9	379.5
85°	84.6	118.3	168.9	213.6	253.5	279.6	298.0	308.7	311.8	305.8	292.0
87.5°	47.6	69.1	99.9	132.1	162.9	181.4	192.1	198.3	202.9	196.7	187.3
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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TEST NUMBER: P977015
CATALOG NUMBER: 24SR-LD2-C-64-UNV-L840-CD1-ST-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	1508.9	*1508.9*
2.5°	1513.5	1518.0	1516.6	1519.7	1521.1	1521.1	1516.6	*1519.7*
5°	1579.4	1588.7	1594.9	1604.0	1610.3	1610.3	1611.7	*1616.5*
7.5°	1651.8	1667.1	1681.0	1691.7	1699.4	1702.5	1707.0	*1711.6*
10°	1719.2	1737.8	1753.1	1767.0	1776.1	1782.3	1786.8	*1794.7*
12.5°	1771.5	1793.1	1810.0	1825.3	1837.7	1846.8	1851.4	*1857.6*
15°	1810.0	1834.6	1854.5	1871.4	1882.2	1892.9	1897.5	*1903.7*
17.5°	1833.0	1857.6	1879.1	1896.0	1908.2	1919.0	1925.2	*1931.4*
20°	*1839.2*	*1863.8*	*1886.7*	*1903.7*	*1916.1*	*1929.7*	*1935.9*	*1942.1*
22.5°	1829.9	1854.5	1879.1	1897.5	1911.3	1925.2	1931.4	*1937.6*
25°	1811.5	1837.7	1862.1	1880.7	1892.9	1906.8	1914.4	*1917.5*
27.5°	1782.3	1808.4	1833.0	1849.9	1863.8	1877.6	1885.3	*1886.7*
30°	1740.9	1767.0	1791.6	1808.4	1823.9	1836.1	1843.7	*1843.7*
32.5°	1690.1	1714.7	1740.9	1756.2	1770.1	1782.3	1789.9	*1793.1*
35°	1631.8	1656.4	1681.0	1694.8	1710.1	1719.2	1725.4	*1730.0*
37.5°	1568.7	1593.3	1613.4	1625.6	1642.5	1648.7	1657.8	*1656.4*
40°	1501.1	1521.1	1539.5	1550.3	1564.1	1571.8	1581.1	*1579.4*
42.5°	1430.6	1450.4	1465.7	1478.1	1485.8	1493.4	1499.6	*1498.2*
45°	1358.2	1376.8	1390.4	1396.6	1409.0	1411.9	1418.1	*1418.1*
47.5°	1286.0	1301.3	1313.7	1322.8	1329.0	1332.1	1338.3	*1338.3*
50°	1216.9	1230.8	1238.4	1246.1	1252.3	1256.9	1260.0	*1261.4*
52.5°	1149.3	1160.1	1166.3	1172.3	1178.5	1181.6	1184.7	*1183.0*
55°	1084.8	1092.5	1097.0	1101.8	1106.3	1110.9	1110.9	*1110.9*
57.5°	1020.3	1024.8	1029.4	1032.5	1037.0	1040.1	1040.1	*1040.1*
60°	957.2	961.8	963.4	966.5	971.1	972.5	974.2	*971.1*
62.5°	895.8	897.2	898.9	900.4	904.9	908.0	908.0	*906.6*
65°	832.7	832.7	834.4	835.8	838.9	842.0	843.5	*840.4*
67.5°	771.3	771.3	772.8	772.8	777.5	780.6	782.1	*782.1*
70°	711.3	709.9	713.0	714.4	717.6	717.6	720.7	*720.7*
72.5°	651.4	649.9	653.0	653.0	656.1	657.6	657.6	*657.6*
75°	593.1	588.5	590.0	586.9	590.0	590.0	588.5	*588.5*
77.5°	530.0	519.2	516.3	510.1	510.1	510.1	507.0	*507.0*
80°	450.2	439.4	434.9	430.1	430.1	428.7	427.2	*427.2*
82.5°	370.4	361.1	356.5	352.0	354.8	350.3	352.0	*353.4*
85°	284.3	276.5	273.6	268.8	267.4	267.4	268.8	*267.4*
87.5°	184.5	176.6	176.6	172.0	175.1	170.6	165.8	*168.9*
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*

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Scaled Data Report

TEST NUMBER: P977015
CATALOG NUMBER: 24SR-LD2-C-64-UNV-L840-CD1-ST-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	13.8	15.5	14.2	15.8	16.2	15.7	17.4	16.1	17.7	18.0
	3H	15.7	17.2	16.1	17.6	17.9	18.0	19.6	18.4	19.9	20.3
	4H	16.4	17.9	16.8	18.2	18.6	19.1	20.6	19.5	20.9	21.3
	6H	16.9	18.3	17.3	18.7	19.1	20.1	21.4	20.5	21.8	22.2
	8H	17.1	18.5	17.6	18.8	19.2	20.5	21.8	20.9	22.2	22.6
	12H	17.3	18.6	17.7	18.9	19.4	20.9	22.1	21.3	22.5	23.0
4H	2H	15.1	16.6	15.5	16.9	17.3	16.4	17.9	16.8	18.3	18.6
	3H	17.4	18.7	17.8	19.1	19.5	19.0	20.3	19.4	20.7	21.1
	4H	18.5	19.6	18.9	20.0	20.4	20.3	21.4	20.7	21.8	22.3
	6H	19.3	20.3	19.7	20.7	21.2	21.4	22.4	21.9	22.9	23.3
	8H	19.6	20.6	20.1	21.0	21.5	21.9	22.9	22.4	23.3	23.8
	12H	19.8	20.7	20.3	21.2	21.6	22.4	23.3	22.9	23.7	24.2
8H	4H	19.4	20.3	19.8	20.8	21.2	20.8	21.8	21.3	22.2	22.7
	6H	20.6	21.4	21.1	21.9	22.4	22.2	23.0	22.6	23.4	23.9
	8H	21.2	21.9	21.7	22.4	22.9	22.8	23.5	23.3	24.0	24.5
	12H	21.6	22.3	22.1	22.7	23.3	23.4	24.1	23.9	24.5	25.1
12H	4H	19.5	20.4	20.0	20.9	21.3	20.9	21.8	21.4	22.3	22.7
	6H	20.9	21.7	21.4	22.1	22.6	22.3	23.1	22.9	23.5	24.1
	8H	21.6	22.3	22.1	22.8	23.3	23.1	23.7	23.6	24.2	24.8

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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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

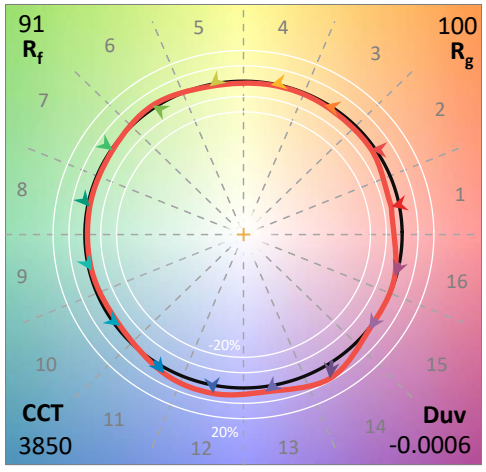
Test Information

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



Test Conditions

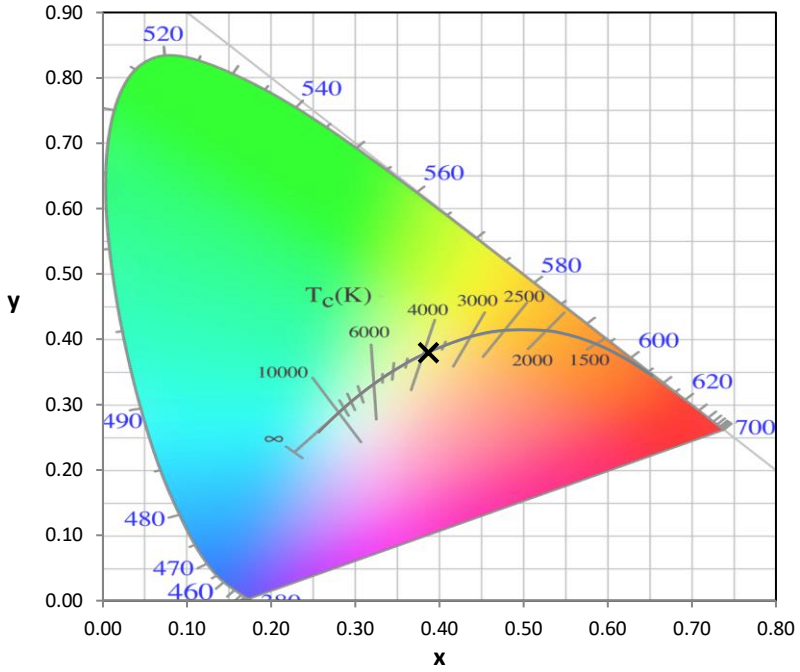
Stabilization Time:	38M
Operation Time:	1H 38M
Sphere Temperature (°C):	24.4

REPORT NUMBER: SP1-2506-457-7

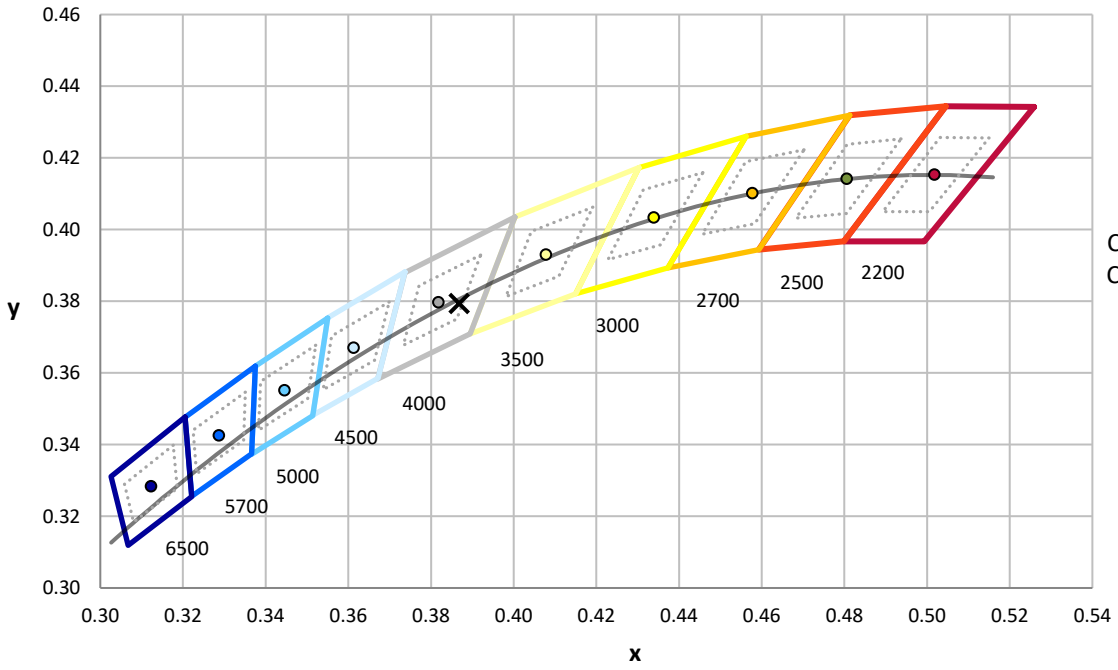
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-457-7

CIE 1931 Chromaticity Diagram



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

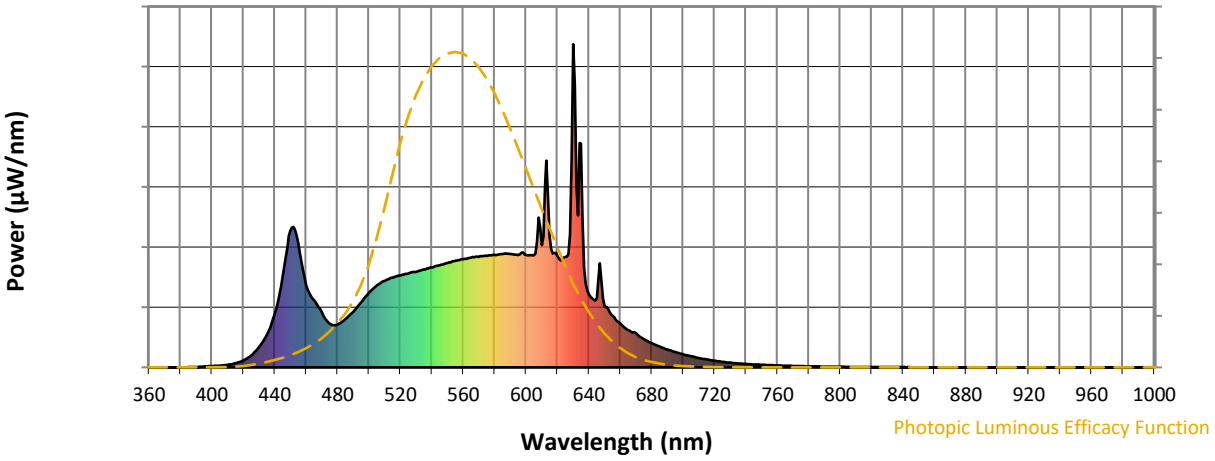


CCT = 3850K
CIE x = 0.3868
CIE y = 0.3794
Duv = -0.0006

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2506-457-7

Photopic Flux vs. Wavelength

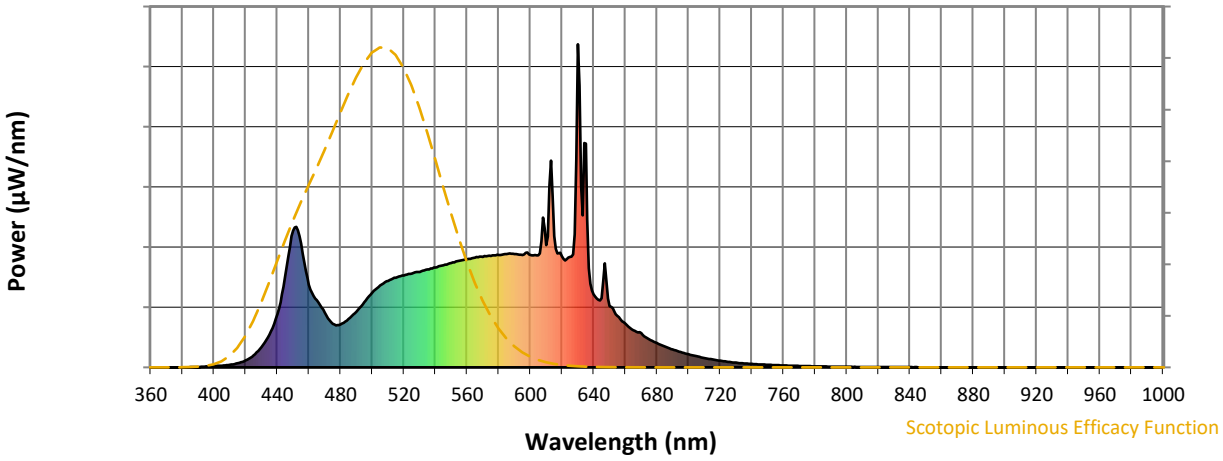


Photopic Lumens: NR

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	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

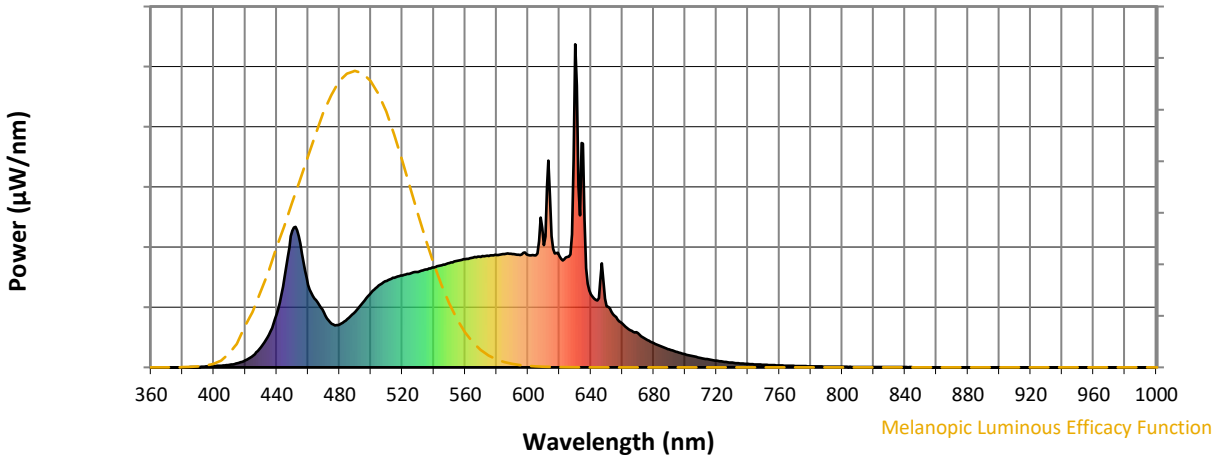


Scotopic Lumens: NR **S/P: 1.74**

λ (nm)	Power W^/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	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^/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	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			

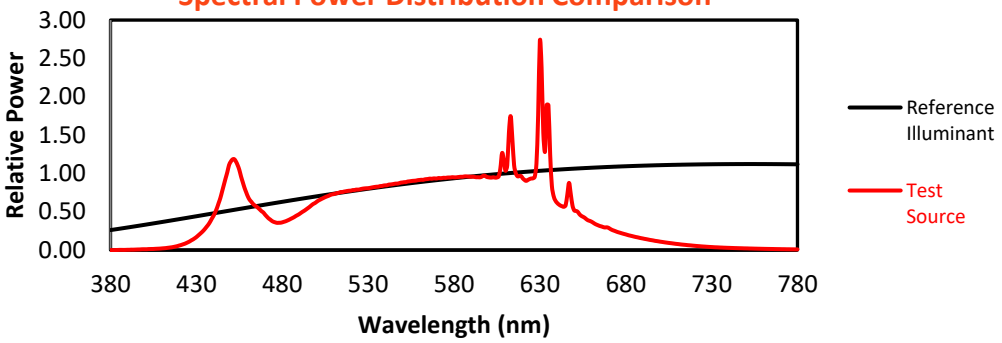
REPORT NUMBER: SP1-2506-457-7

TM-30-18

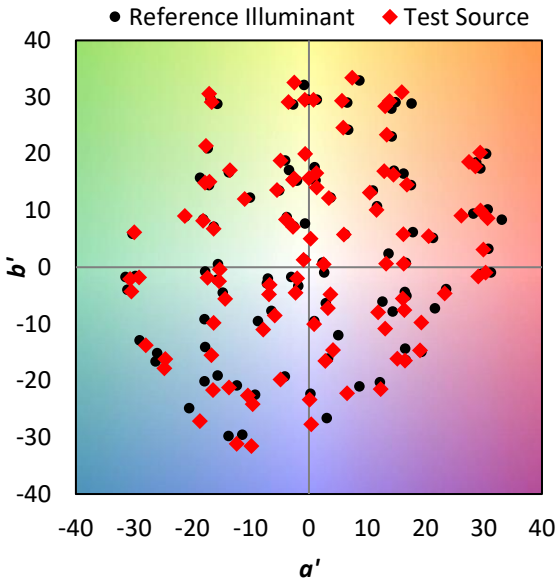
Summary

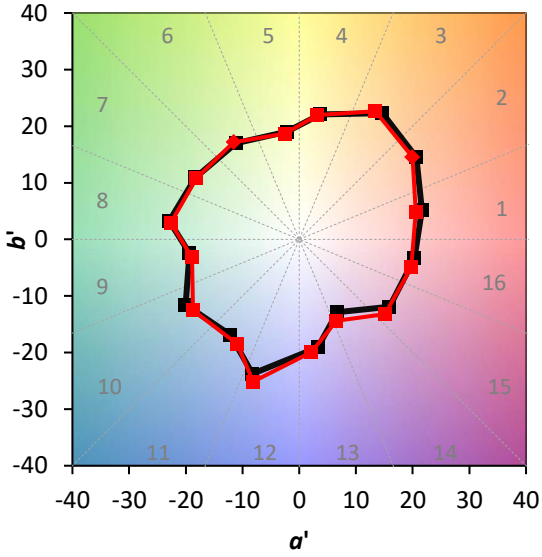
R_f = 91.3
R_g = 99.8
CIE R_a = 94.0
R_9 = 65.3

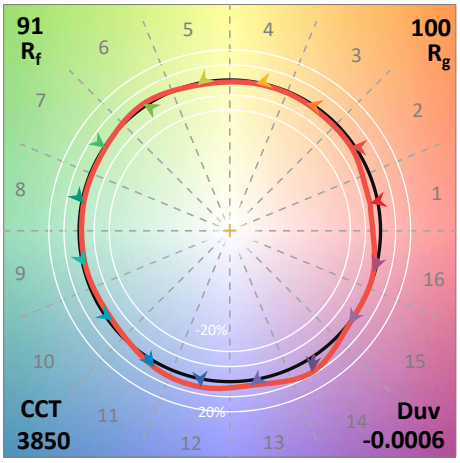
Spectral Power Distribution Comparison

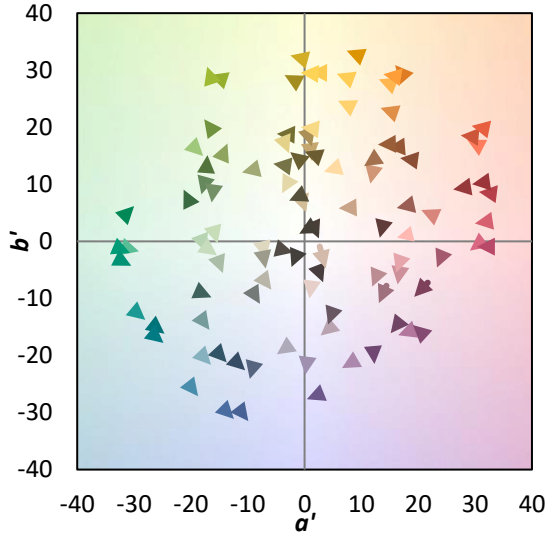


Color Vector Graphics







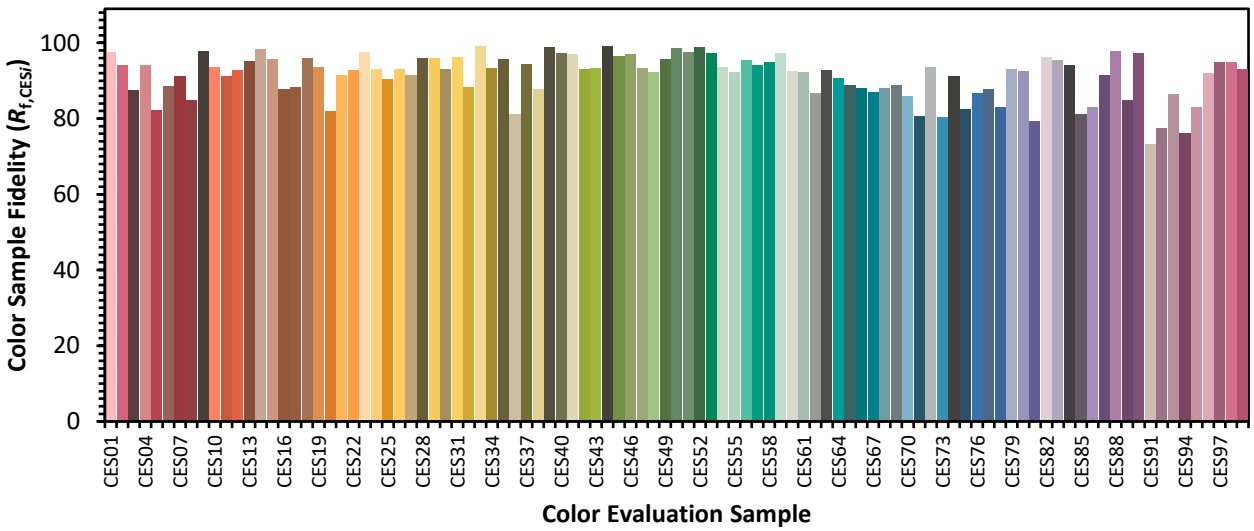


REPORT NUMBER: SP1-2506-457-7

TM-30-18

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

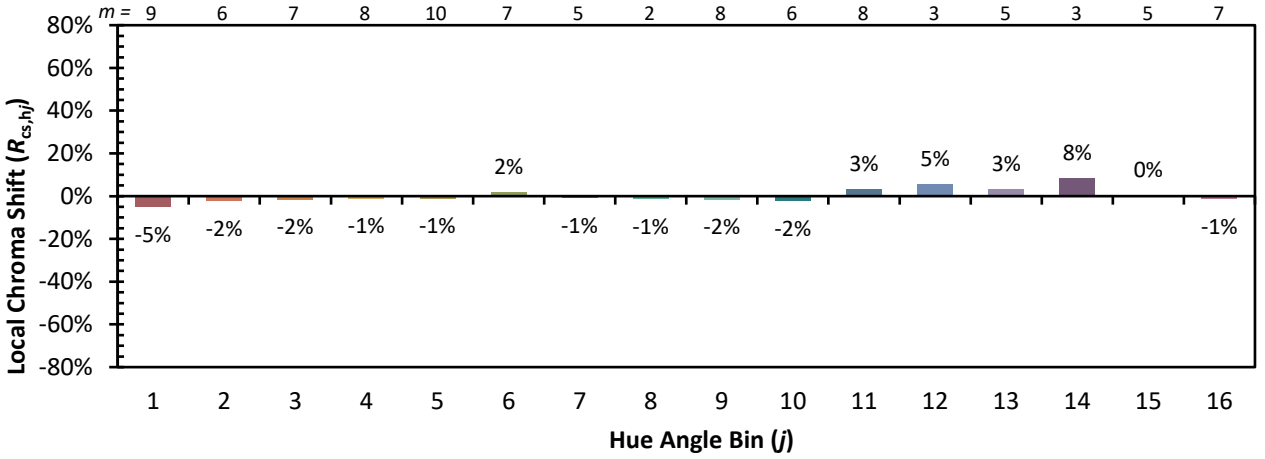
CES01 = 86	CES26 = 93	CES51 = 98	CES76 = 87
CES02 = 62	CES27 = 91	CES52 = 99	CES77 = 88
CES03 = 31	CES28 = 96	CES53 = 97	CES78 = 83
CES04 = 69	CES29 = 96	CES54 = 94	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 92
CES06 = 50	CES31 = 96	CES56 = 95	CES81 = 79
CES07 = 42	CES32 = 88	CES57 = 94	CES82 = 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	

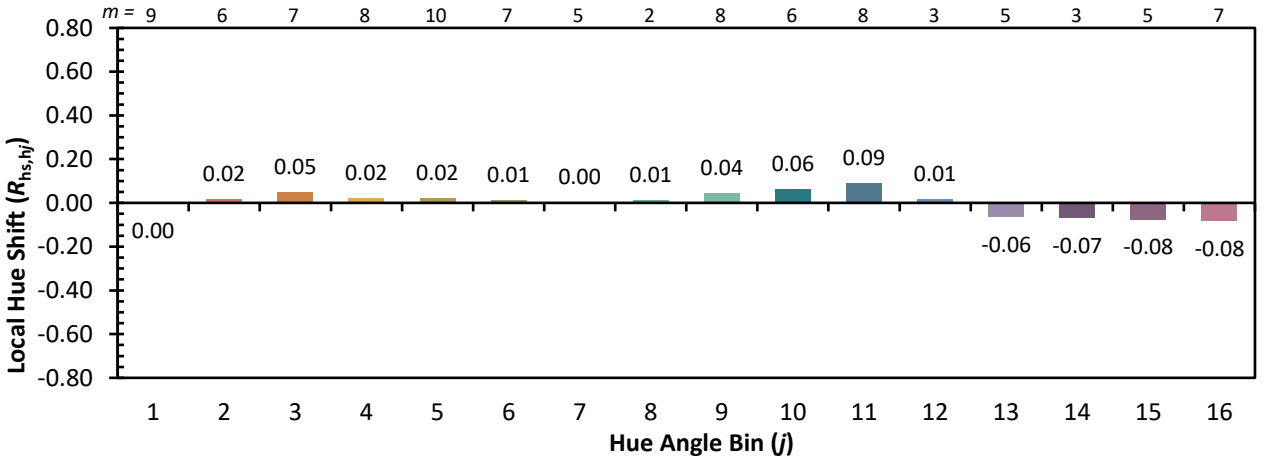


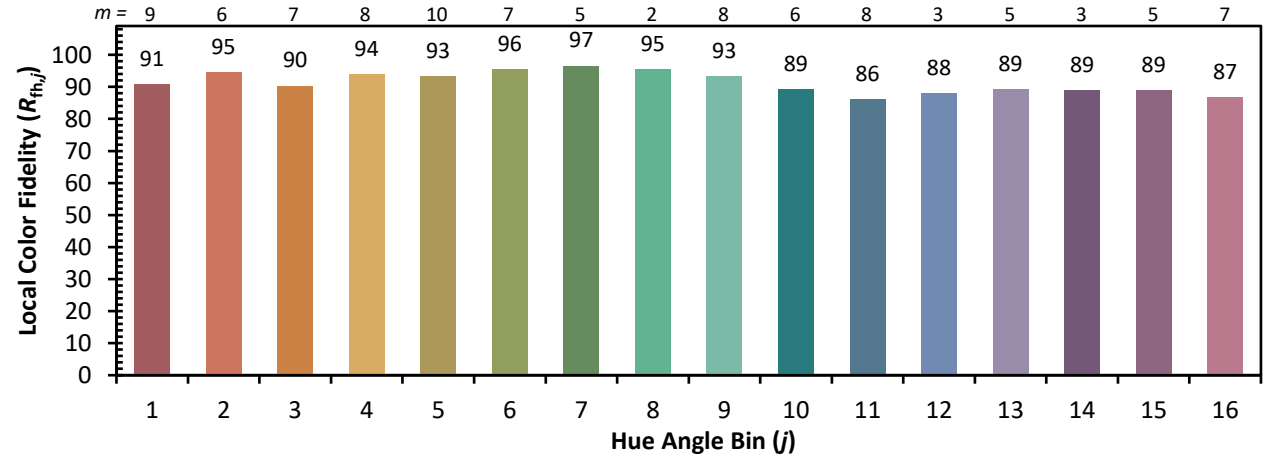
REPORT NUMBER: SP1-2506-457-7

TM-30-18

Color Rendition by Hue-Angle Bin



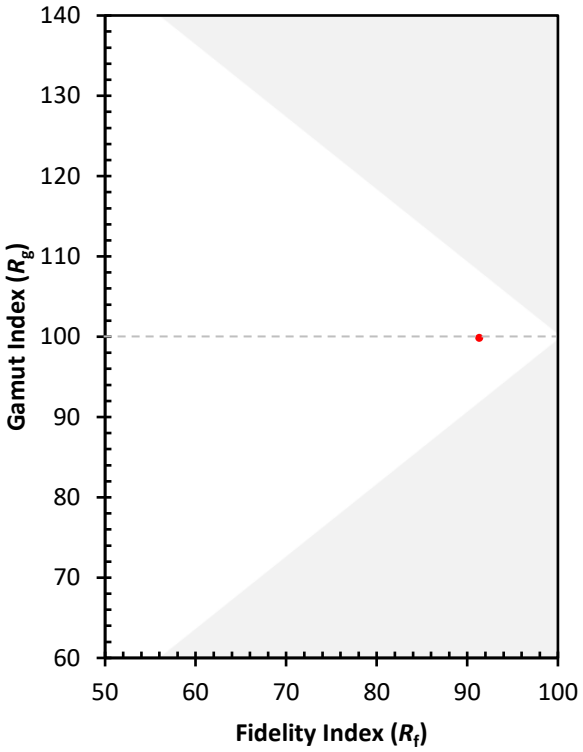


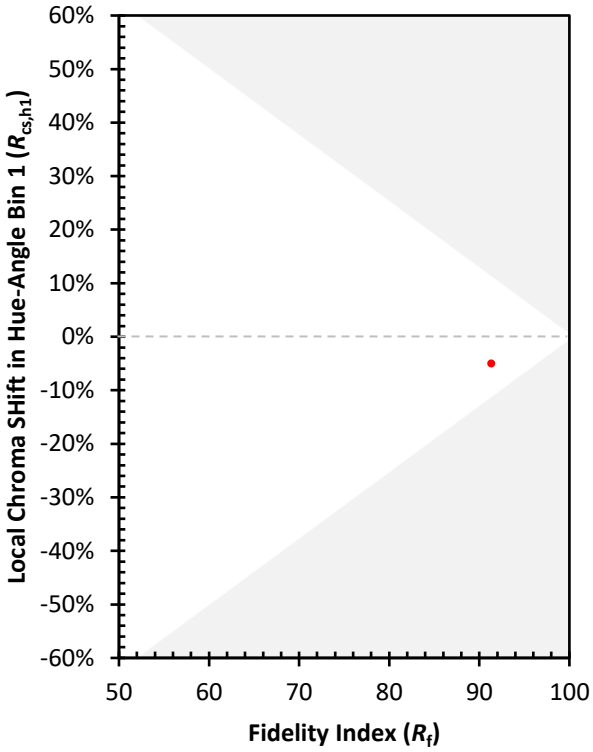


REPORT NUMBER: SP1-2506-457-7

TM-30-18

Measure Comparisons





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