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: P976926

Luminaire Tested: 24SR-LD2-C-59-UNV-L950-CD1-PL-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:	P976926
Test Lab:	INNOVATION CENTER(P3)
Issue Date:	03/18/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	24SR-LD2-C-59-UNV-L950-CD1-PL-U
Description:	METALUX SKYRIDGE 2x4 5900LM PACKAGE 90CRI 5000K TROFFER with Pearl SKYTRIM
Light Source:	5000K CCT, 90+ CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5590.0 lumens
Efficiency:	N/A
Efficacy:	127.6 lumens/watt
Spacing Criteria (0/90/45):	1.29 / 1.98 / 1.87
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	43.8
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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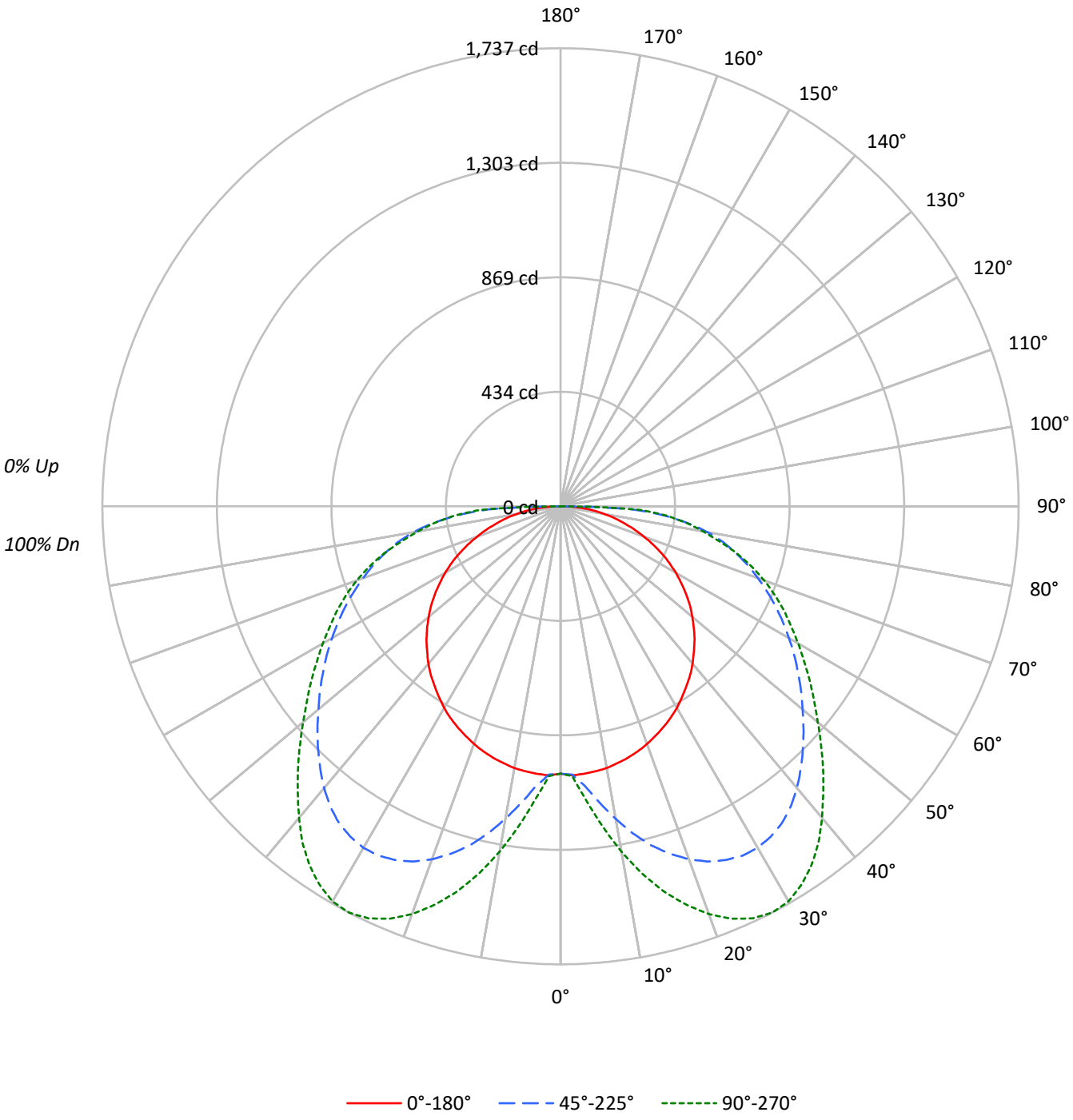
Scaled Data Report

TEST NUMBER: P976926
CATALOG NUMBER: 24SR-LD2-C-59-UNV-L950-CD1-PL-U

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	106	100	95	90	103	98	93	88	93	89	85	89	86	83	86	83	80	78
2	95	85	77	70	92	83	76	70	80	73	68	76	71	66	73	69	65	62
3	86	74	64	57	83	72	63	56	69	61	55	66	60	54	63	58	53	51
4	78	64	55	47	75	63	54	47	60	52	46	58	51	45	56	50	45	42
5	71	57	47	40	69	56	47	40	54	45	39	52	44	39	50	43	38	36
6	65	51	41	34	63	50	41	34	48	40	34	46	39	33	45	38	33	31
7	60	46	36	30	59	45	36	30	43	35	29	42	35	29	40	34	29	27
8	56	42	32	26	54	41	32	26	39	32	26	38	31	26	37	30	26	23
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21
10	49	35	26	21	48	34	26	21	33	26	21	32	25	21	31	25	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1364	1364	1364
5°	1375	1437	1511
10°	1377	1643	1817
15°	1375	1854	2105
20°	1373	2039	2356
25°	1371	2197	2559
30°	1371	2323	2687
35°	1367	2407	2727
40°	1369	2449	2709
45°	1368	2474	2679
50°	1365	2508	2666
55°	1364	2579	2707
60°	1358	2692	2800
65°	1349	2866	2974
70°	1323	3135	3233
75°	1304	3582	3606
80°	1316	4391	4253
85°	1434	6082	6195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 87.5°
Luminance: 9245 cd/sqm

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TEST NUMBER: P976926
CATALOG NUMBER: 24SR-LD2-C-59-UNV-L950-CD1-PL-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	1.9
10°-20°	366.1	6.5
20°-30°	649.0	11.6
30°-40°	854.0	15.3
40°-50°	926.1	16.6
50°-60°	901.5	16.1
60°-70°	810.0	14.5
70°-80°	641.6	11.5
80°-90°	336.3	6.0
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°	1120.5	20.0
0°-40°	1974.5	35.3
0°-60°	3802.1	68.0
0°-90°	5590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1014	1014	1014	1014	1014	
5°	1018	1018	1064	1104	1119	97
15°	987	1116	1331	1465	1511	279
25°	924	1176	1480	1659	1724	426
35°	832	1146	1465	1614	1660	521
45°	719	1040	1300	1386	1408	554
55°	581	904	1099	1138	1154	519
65°	424	758	900	917	934	418
75°	251	570	689	690	694	267
85°	93	303	394	395	401	99
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°	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7
2.5°	1021.1	1019.7	1018.3	1016.7	1015.3	1013.7	1013.7	1013.7	1015.3	1018.3	1022.7
5°	1018.3	1016.7	1015.3	1015.3	1016.7	1019.7	1028.6	1039.0	1049.3	1064.0	1080.3
7.5°	1013.7	1012.4	1012.4	1015.3	1027.1	1044.7	1065.4	1087.6	1109.7	1133.3	1155.5
10°	1008.0	1006.4	1008.0	1021.1	1047.7	1077.3	1108.3	1139.2	1168.8	1202.8	1233.8
12.5°	997.7	997.7	1005.0	1031.4	1069.9	1109.7	1149.6	1190.9	1229.2	1270.5	1306.1
15°	987.3	987.3	1003.4	1043.3	1092.0	1139.2	1189.5	1238.1	1283.8	1331.1	1372.4
17.5°	974.0	974.0	1002.0	1052.3	1108.3	1165.9	1223.4	1278.1	1329.7	1381.3	1425.6
20°	959.1	962.1	999.1	1059.6	1123.0	1187.9	1249.9	1310.4	1368.0	1424.0	1472.7
22.5°	941.5	947.4	994.7	1062.6	1134.9	1202.8	1270.5	1335.4	1396.0	1458.0	1506.6
25°	923.8	932.7	988.7	1062.6	1139.2	1213.1	1283.8	1351.7	1416.7	1480.2	1533.2
27.5°	*904.5*	*916.4*	*979.8*	*1058.0*	*1140.6*	*1215.9*	*1289.8*	*1360.7*	*1428.6*	*1493.3*	*1547.9*
30°	882.5	897.2	966.7	1049.3	1134.9	1211.5	1288.4	1362.1	1430.0	1494.9	1547.9
32.5°	857.5	876.5	950.4	1036.0	1123.0	1201.2	1278.1	1351.7	1421.0	1484.6	1534.8
35°	832.2	855.9	932.7	1019.7	1106.7	1184.9	1261.8	1337.0	1404.9	1465.3	1509.6
37.5°	807.2	832.2	910.5	997.7	1084.6	1162.9	1241.1	1313.4	1378.3	1434.3	1474.3
40°	779.2	807.2	885.5	974.0	1059.6	1137.9	1214.5	1283.8	1343.0	1394.6	1431.4
42.5°	748.2	779.2	858.9	947.4	1031.4	1108.3	1181.9	1246.9	1303.1	1348.7	1379.7
45°	718.7	751.2	830.9	919.4	1002.0	1077.3	1148.2	1208.6	1258.8	1300.1	1326.7
47.5°	686.3	720.0	802.9	888.4	969.5	1043.3	1111.2	1165.9	1214.5	1249.9	1273.5
50°	652.3	689.1	771.9	857.5	937.1	1009.4	1074.3	1124.6	1168.8	1198.2	1220.5
52.5°	618.4	656.7	739.3	824.9	904.5	974.0	1036.0	1084.6	1123.0	1149.6	1168.8
55°	581.4	624.1	706.9	792.5	869.2	938.5	997.7	1041.9	1077.3	1099.3	1117.2
57.5°	543.1	588.8	674.4	760.0	836.8	903.1	959.1	1000.4	1031.4	1050.7	1064.0
60°	504.8	553.4	639.0	724.6	799.9	866.2	919.4	957.7	985.7	1000.4	1010.8
62.5°	464.9	516.5	603.5	689.1	765.9	827.9	878.1	913.5	938.5	950.4	960.7
65°	423.6	478.2	566.7	652.3	729.0	786.6	835.2	867.8	889.8	900.2	906.1
67.5°	380.7	438.3	528.2	613.8	687.7	743.7	789.6	821.9	839.6	848.5	852.9
70°	336.4	397.0	486.9	572.5	643.4	696.6	740.9	770.3	788.0	796.9	798.3
72.5°	295.1	354.3	445.6	528.2	596.1	647.8	689.1	720.0	737.9	745.3	745.3
75°	250.8	310.0	399.9	479.6	544.5	594.7	636.0	665.6	681.7	689.1	689.1
77.5°	212.5	267.1	351.3	427.9	488.5	537.2	577.1	608.0	625.7	633.1	633.1
80°	169.8	222.8	301.0	371.9	427.9	472.2	513.5	546.1	563.8	566.7	562.2
82.5°	131.3	180.1	246.4	310.0	361.6	402.9	444.2	470.8	483.9	486.9	485.5
85°	92.9	132.8	188.8	240.5	283.4	321.7	351.3	376.3	389.6	394.0	397.0
87.5°	54.6	76.7	112.2	151.9	184.5	209.5	227.2	249.4	262.7	271.5	280.4
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°	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	1013.7	*1013.7*
2.5°	1021.1	1022.7	1024.1	1024.1	1024.1	1025.7	1024.1	*1024.1*
5°	1086.0	1095.0	1102.3	1106.7	1111.2	1118.6	1117.2	*1118.6*
7.5°	1167.2	1181.9	1198.2	1207.2	1213.1	1221.9	1224.8	*1224.8*
10°	1251.4	1272.1	1291.2	1304.5	1313.4	1326.7	1328.1	*1329.7*
12.5°	1331.1	1356.1	1378.3	1393.0	1406.3	1418.1	1424.0	*1425.6*
15°	1399.0	1430.0	1455.0	1474.3	1487.6	1500.9	1508.2	*1511.2*
17.5°	1459.6	1491.9	1519.9	1542.2	1558.2	1571.6	1580.5	*1583.5*
20°	1506.6	1542.2	1573.1	1596.8	1615.8	1630.7	1642.4	*1645.4*
22.5°	1545.1	1581.9	1614.4	1641.1	1660.1	1677.8	1688.1	*1692.7*
25°	1573.1	1612.9	1646.8	1672.0	1692.7	1708.8	1719.1	*1723.7*
27.5°	*1589.4*	*1629.1*	*1661.7*	*1686.7*	*1707.4*	*1722.1*	*1732.4*	*1737.0*
30°	1589.4	1627.8	1660.1	1683.8	1703.0	1717.7	1725.1	*1729.6*
32.5°	1573.1	1610.1	1639.5	1660.1	1677.8	1692.7	1698.4	*1701.4*
35°	1546.5	1579.1	1605.5	1623.2	1638.1	1651.4	1657.1	*1660.1*
37.5°	1508.2	1537.6	1558.2	1574.5	1586.4	1599.8	1604.1	*1607.1*
40°	1459.6	1487.6	1502.3	1516.9	1527.3	1539.2	1542.2	*1542.2*
42.5°	1406.3	1430.0	1444.7	1455.0	1462.3	1469.9	1474.3	*1474.3*
45°	1350.3	1371.0	1381.3	1390.1	1397.4	1403.4	1407.7	*1407.7*
47.5°	1294.1	1310.4	1319.4	1325.1	1331.1	1337.0	1340.0	*1340.0*
50°	1238.1	1249.9	1257.2	1261.8	1267.7	1272.1	1275.1	*1273.5*
52.5°	1181.9	1190.9	1196.8	1201.2	1204.2	1208.6	1210.1	*1211.5*
55°	1125.9	1131.9	1136.3	1139.2	1145.2	1149.6	1151.0	*1153.9*
57.5°	1071.3	1074.3	1080.3	1081.7	1087.6	1092.0	1093.6	*1095.0*
60°	1015.3	1018.3	1022.7	1025.7	1033.0	1036.0	1037.4	*1040.4*
62.5°	960.7	962.1	968.1	974.0	979.8	982.8	984.4	*985.7*
65°	906.1	910.5	914.9	919.4	925.2	929.7	931.1	*934.1*
67.5°	852.9	855.9	861.8	866.2	870.6	875.1	878.1	*879.5*
70°	798.3	801.3	805.8	808.6	813.2	817.5	821.9	*821.9*
72.5°	745.3	745.3	748.2	751.2	755.6	758.6	760.0	*760.0*
75°	687.7	686.3	689.1	690.7	690.7	690.7	692.0	*693.6*
77.5°	625.7	619.8	616.8	616.8	618.4	615.4	616.8	*618.4*
80°	554.8	548.9	547.5	547.5	548.9	547.5	548.9	*548.9*
82.5°	479.6	479.6	475.2	476.6	478.2	475.2	478.2	*481.2*
85°	392.6	394.0	392.6	397.0	397.0	397.0	398.3	*401.3*
87.5°	281.8	290.7	287.7	293.7	292.1	293.7	295.1	*299.7*
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: P976926
CATALOG NUMBER: 24SR-LD2-C-59-UNV-L950-CD1-PL-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	14.0	15.8	14.4	16.1	16.4	16.0	17.8	16.4	18.1	18.4
	3H	16.0	17.6	16.4	18.0	18.3	18.6	20.2	19.0	20.6	20.9
	4H	16.8	18.3	17.2	18.7	19.0	19.8	21.4	20.2	21.7	22.1
	6H	17.4	18.8	17.8	19.2	19.6	21.0	22.5	21.4	22.8	23.2
	8H	17.6	19.0	18.0	19.4	19.7	21.6	23.0	22.0	23.4	23.8
	12H	17.8	19.1	18.2	19.5	19.9	22.2	23.5	22.6	23.9	24.3
4H	2H	15.4	17.0	15.8	17.3	17.7	16.8	18.4	17.2	18.7	19.1
	3H	17.9	19.3	18.3	19.6	20.0	19.7	21.0	20.1	21.4	21.8
	4H	19.0	20.2	19.4	20.6	21.1	21.1	22.3	21.5	22.7	23.1
	6H	19.9	21.0	20.4	21.4	21.9	22.4	23.5	22.9	24.0	24.4
	8H	20.2	21.2	20.7	21.7	22.1	23.1	24.1	23.6	24.6	25.0
	12H	20.5	21.4	21.0	21.9	22.3	23.8	24.7	24.3	25.2	25.7
8H	4H	20.1	21.1	20.5	21.5	22.0	21.6	22.7	22.1	23.1	23.6
	6H	21.4	22.2	21.9	22.7	23.2	23.2	24.1	23.7	24.6	25.1
	8H	21.9	22.7	22.4	23.2	23.7	24.1	24.8	24.6	25.3	25.8
	12H	22.4	23.1	22.9	23.6	24.1	24.9	25.6	25.4	26.1	26.7
12H	4H	20.3	21.2	20.7	21.7	22.1	21.8	22.7	22.2	23.2	23.6
	6H	21.8	22.5	22.3	23.0	23.5	23.5	24.2	24.0	24.7	25.2
	8H	22.5	23.2	23.0	23.7	24.2	24.4	25.1	24.9	25.6	26.1

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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: SP1-2506-457-8

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

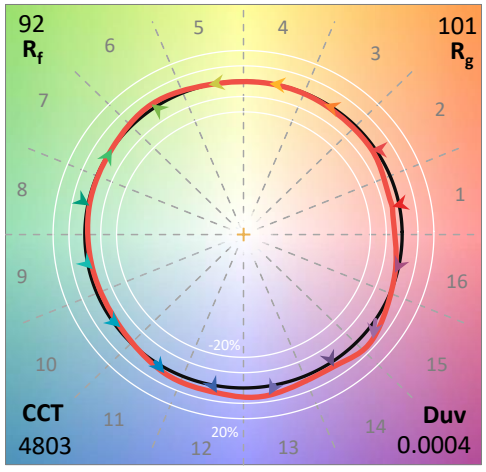
Test Information

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



Test Conditions

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

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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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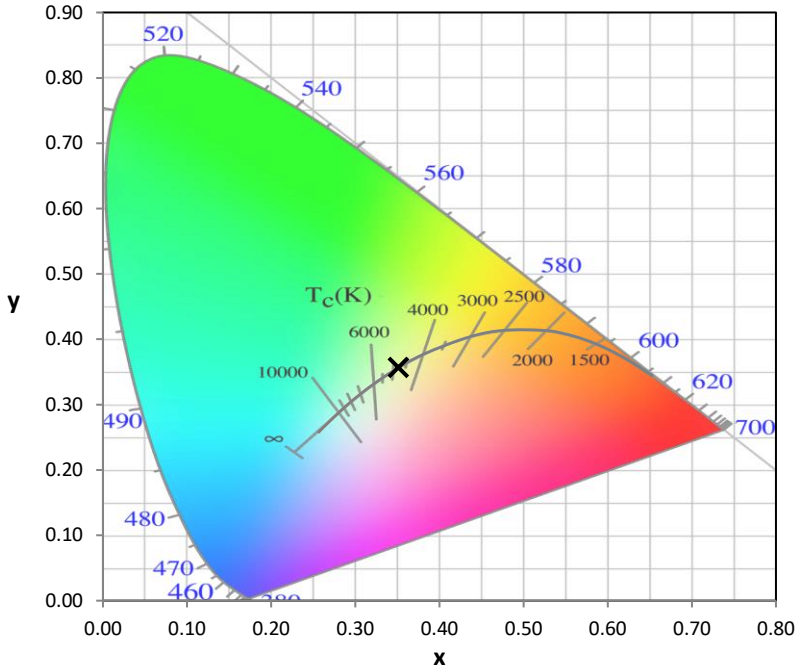
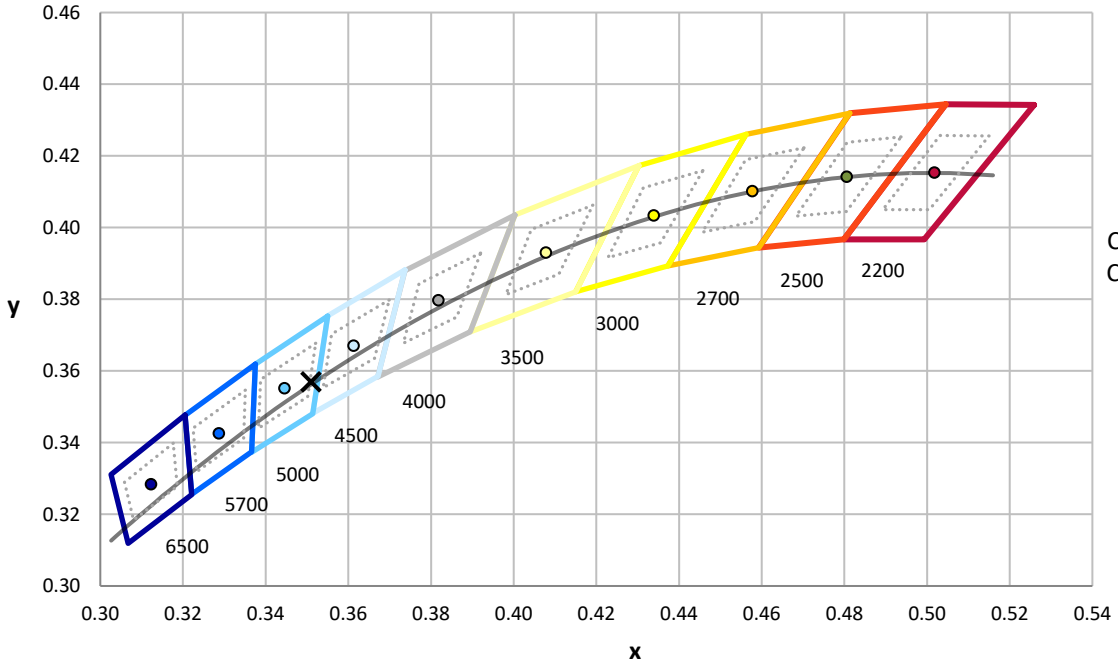
CIE 1931 Chromaticity Diagram



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



CCT = 4803K
CIE x = 0.3510
CIE y = 0.3570
Duv = 0.0004

Point lies inside the ANSI 5000K 7-step quadrangle

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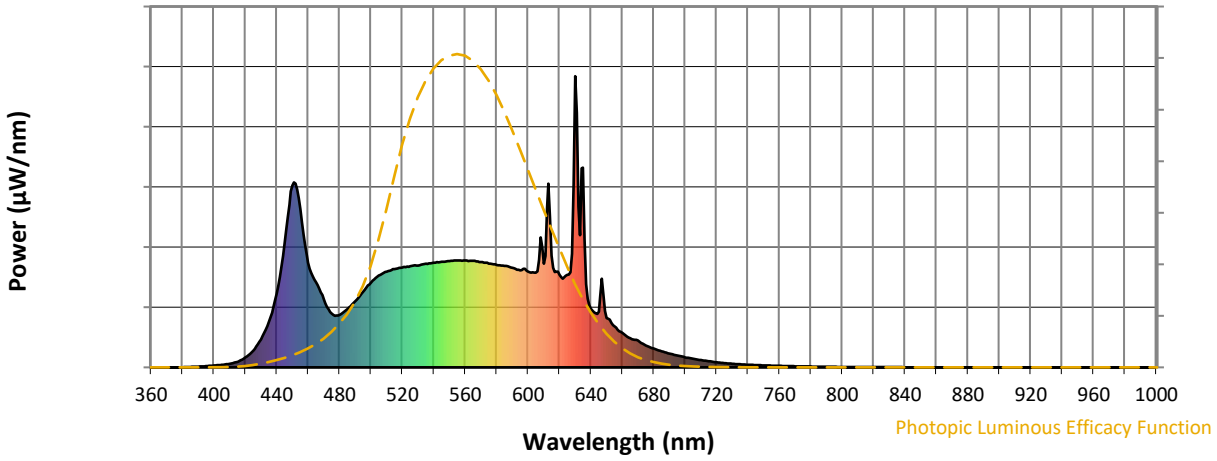
Photopic Flux vs. Wavelength



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	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			

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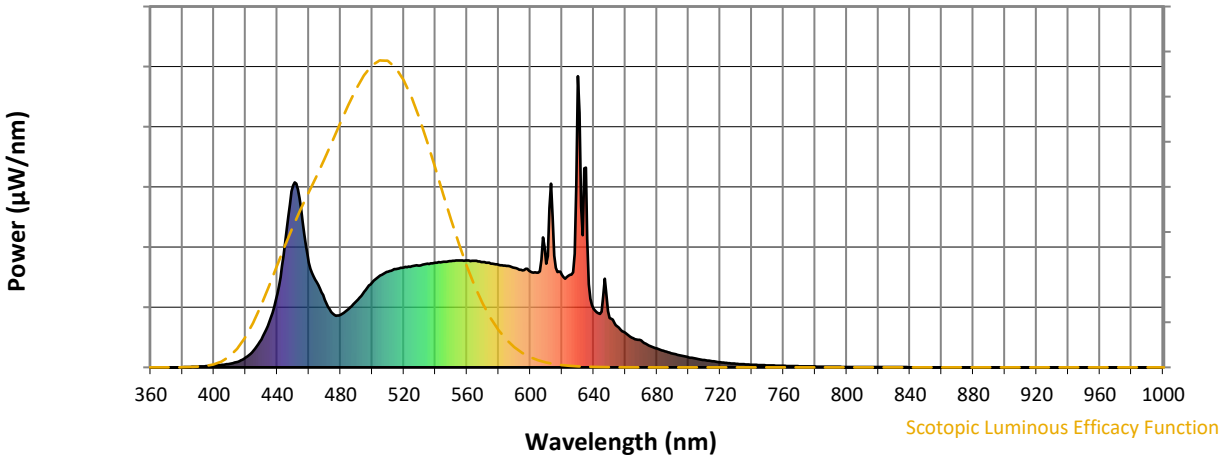
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 2.02**

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	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			

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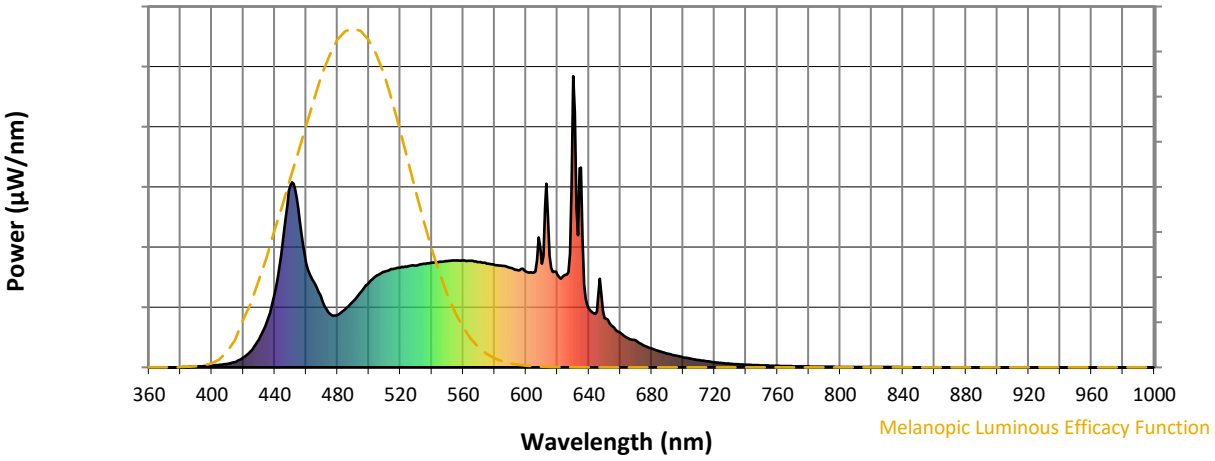
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4.33**

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	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			

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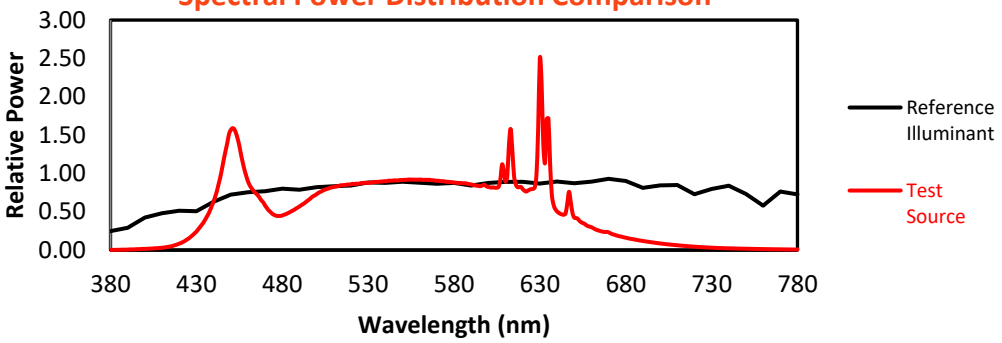
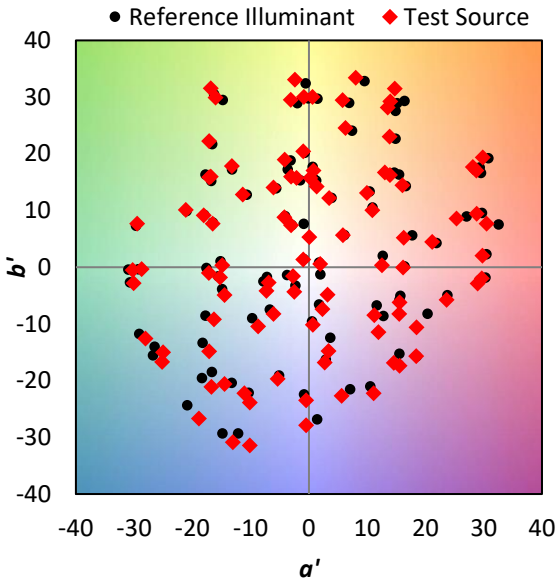
Summary

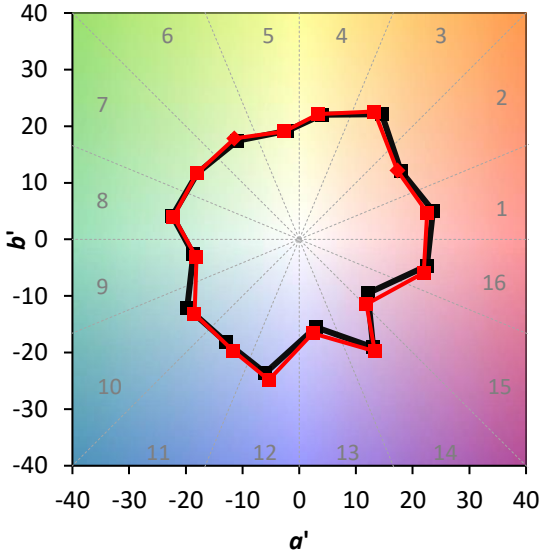
R_f = 91.5
R_g = 100.9
CIE R_a = 94.6
R_9 = 74.3

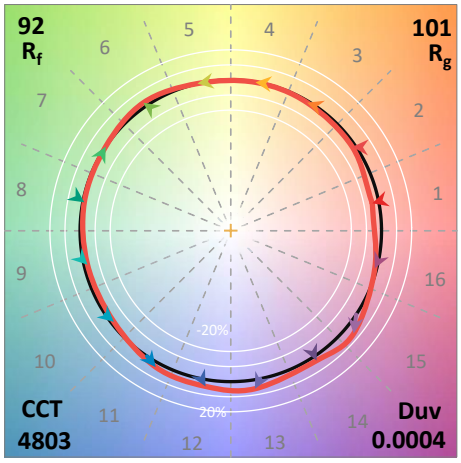
Spectral Power Distribution Comparison

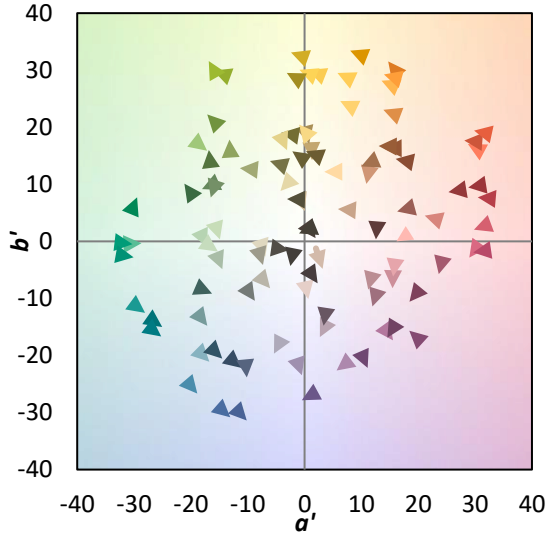


Color Vector Graphics









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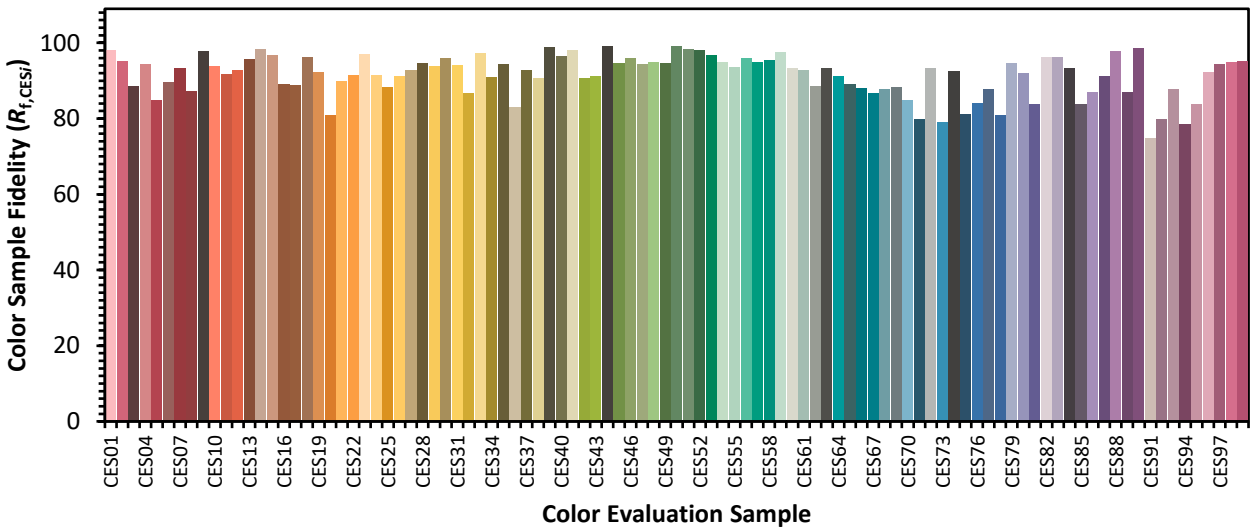
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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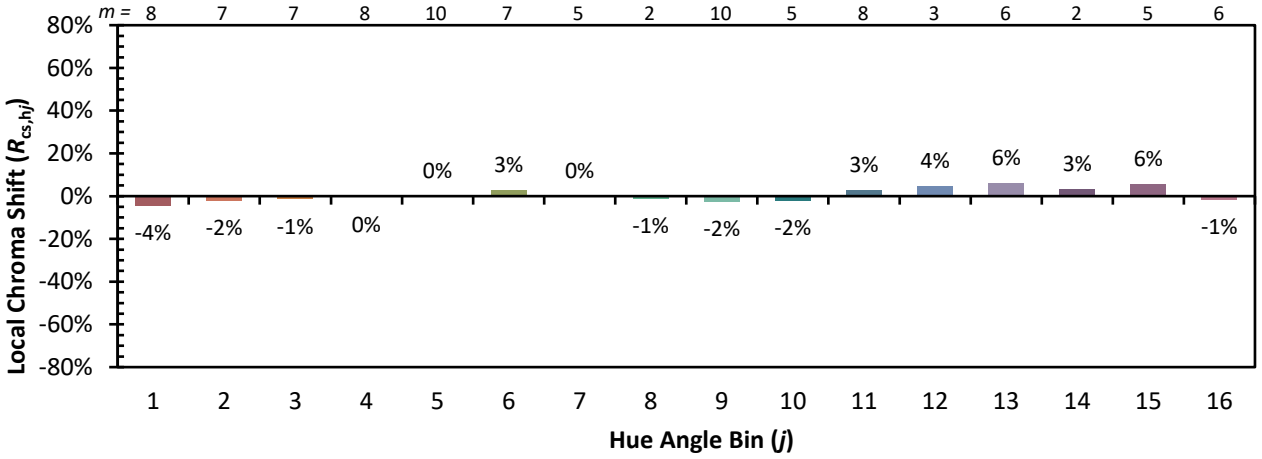
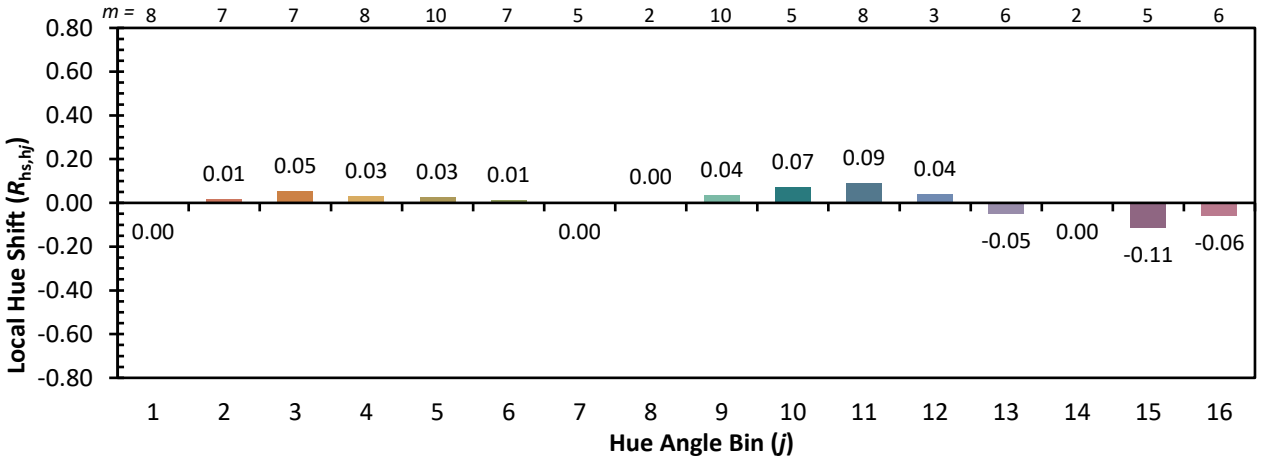
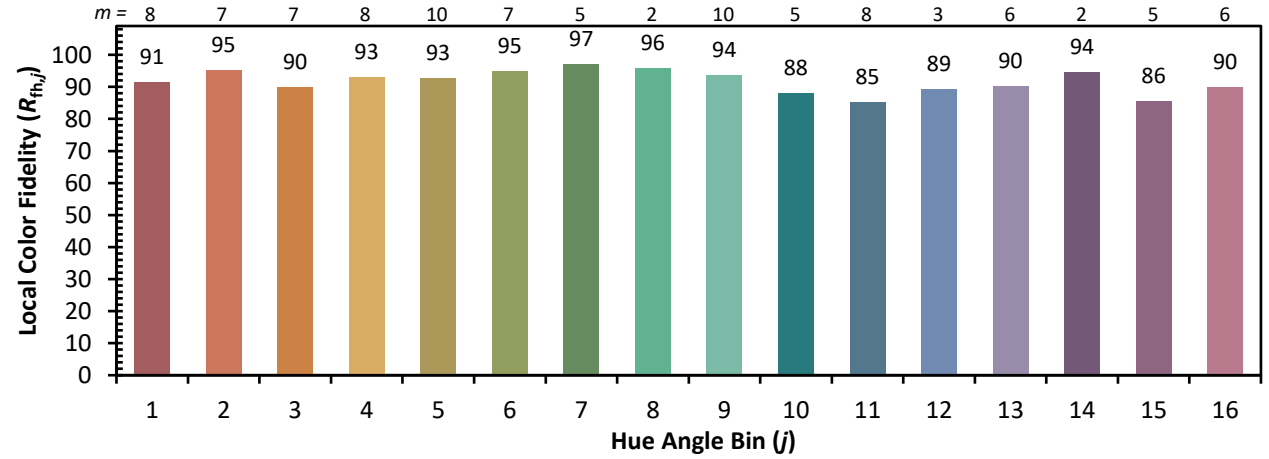
Color Rendition by Hue-Angle Bin







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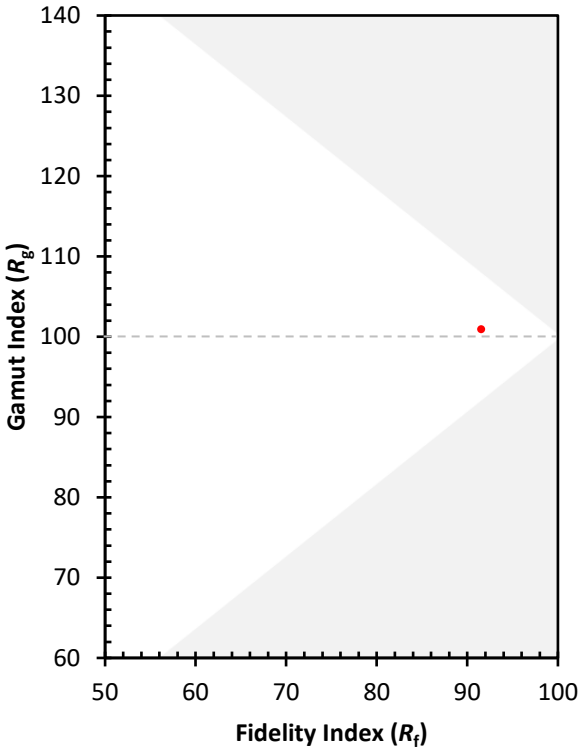
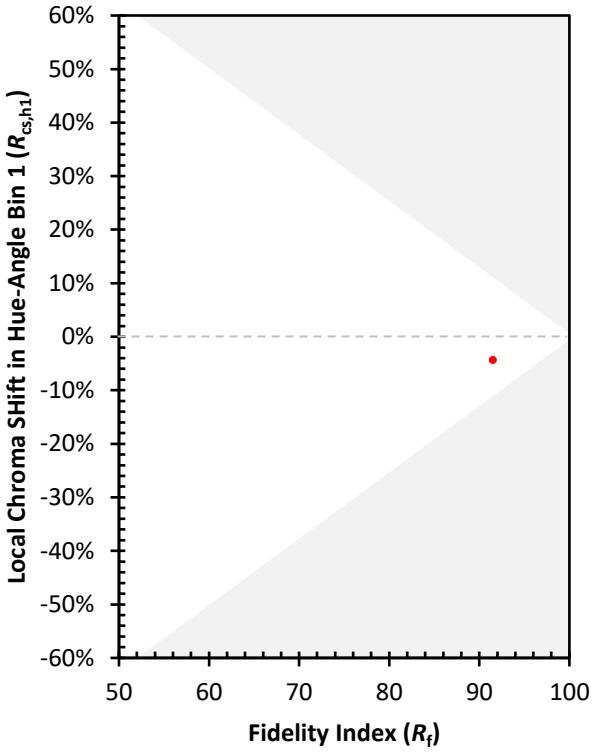
Measure Comparisons





(END OF REPORT)