

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

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Peachtree City, GA 30269

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1461441

Luminaire Tested: USSL-50-730-U-T2U

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461441
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-50-730-U-T2U
Description: USSL DISCRETE LED 1 SQUARE 50W 70CRI 3000K FIXTURE w/ TYPE II URBAN DISTRIBUTION OPTIC
Light Source: (40) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8179.5 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 3.35%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

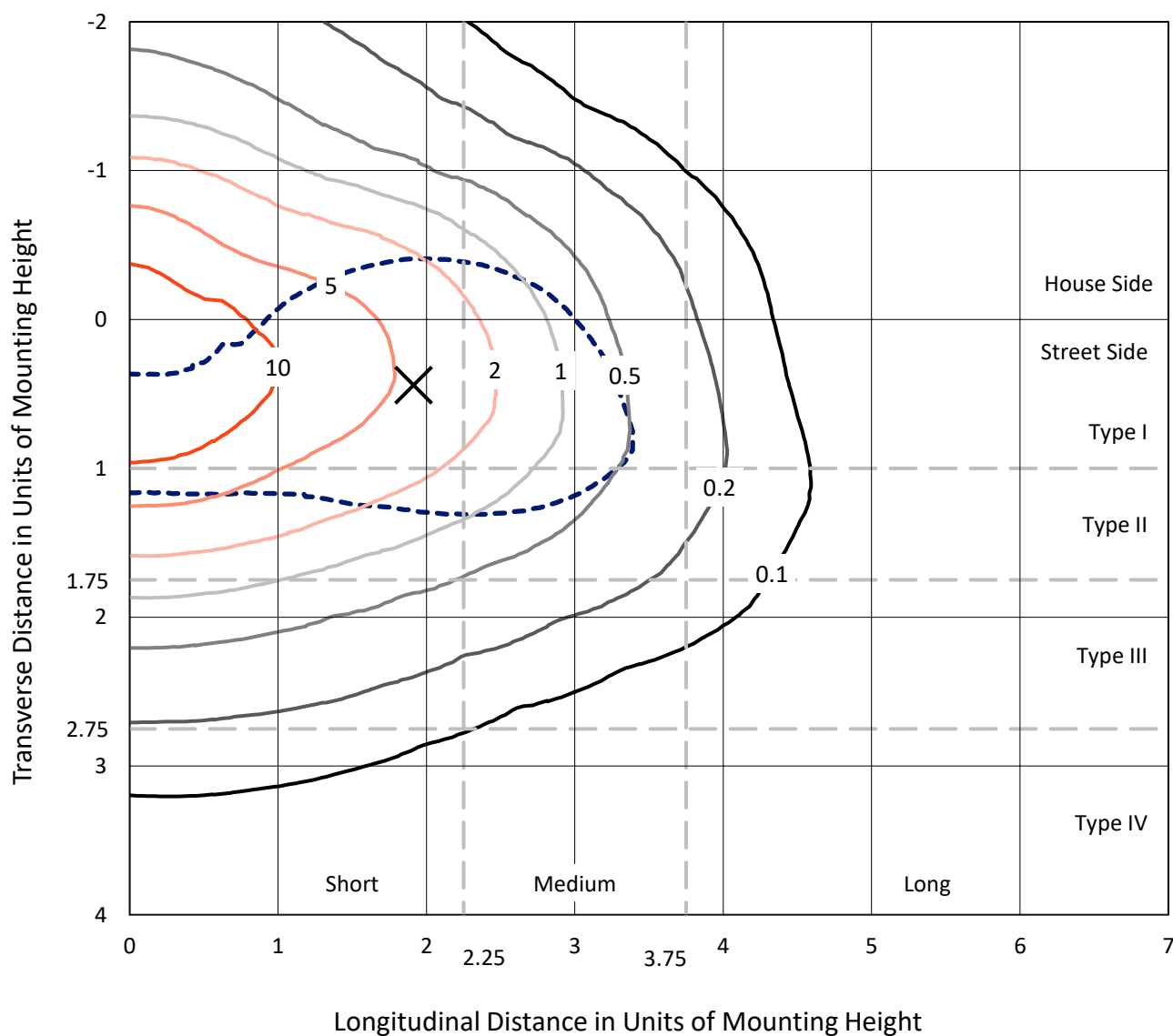
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

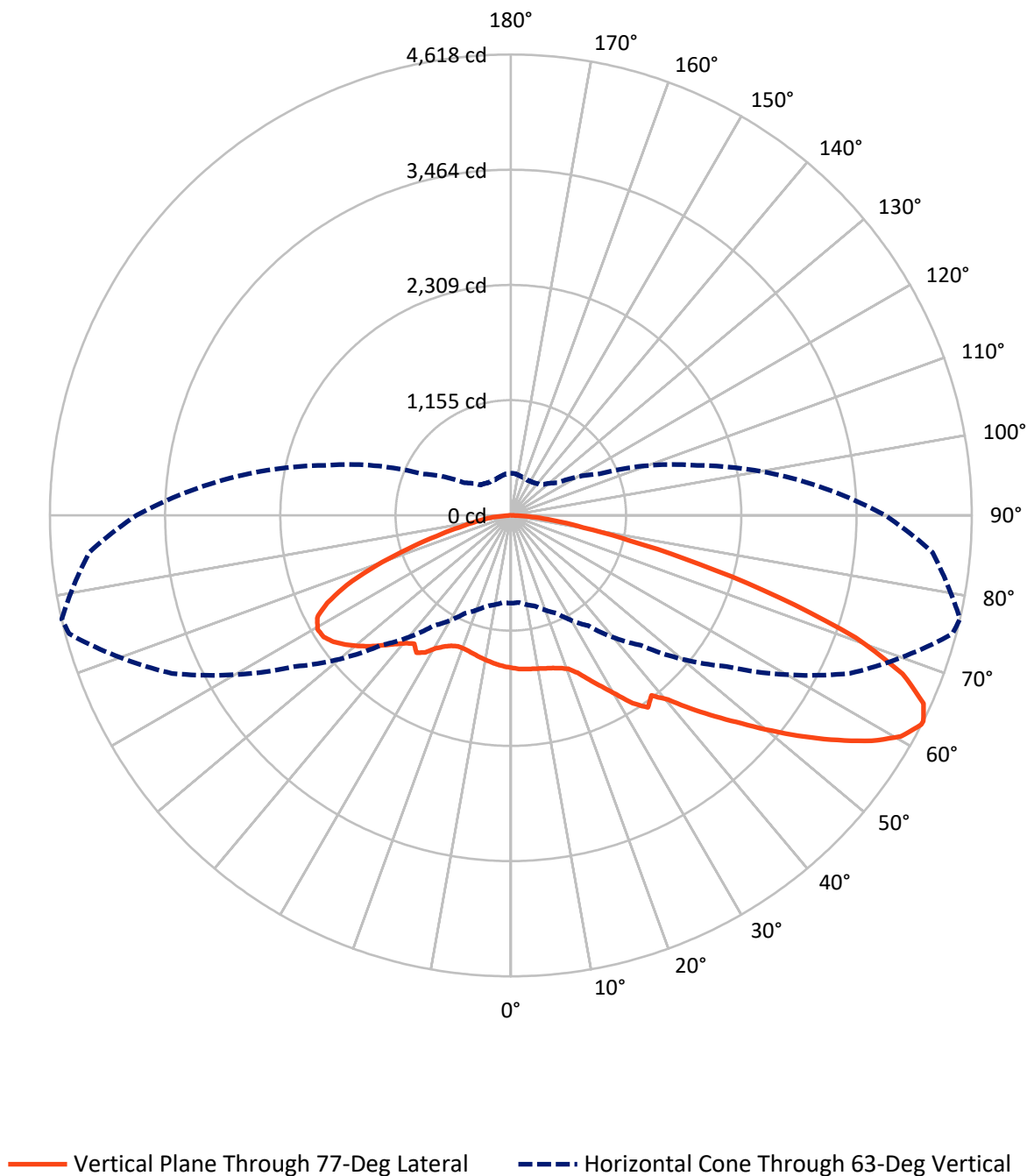


Based on 10 foot mounting height. Maximum calculated value = 19 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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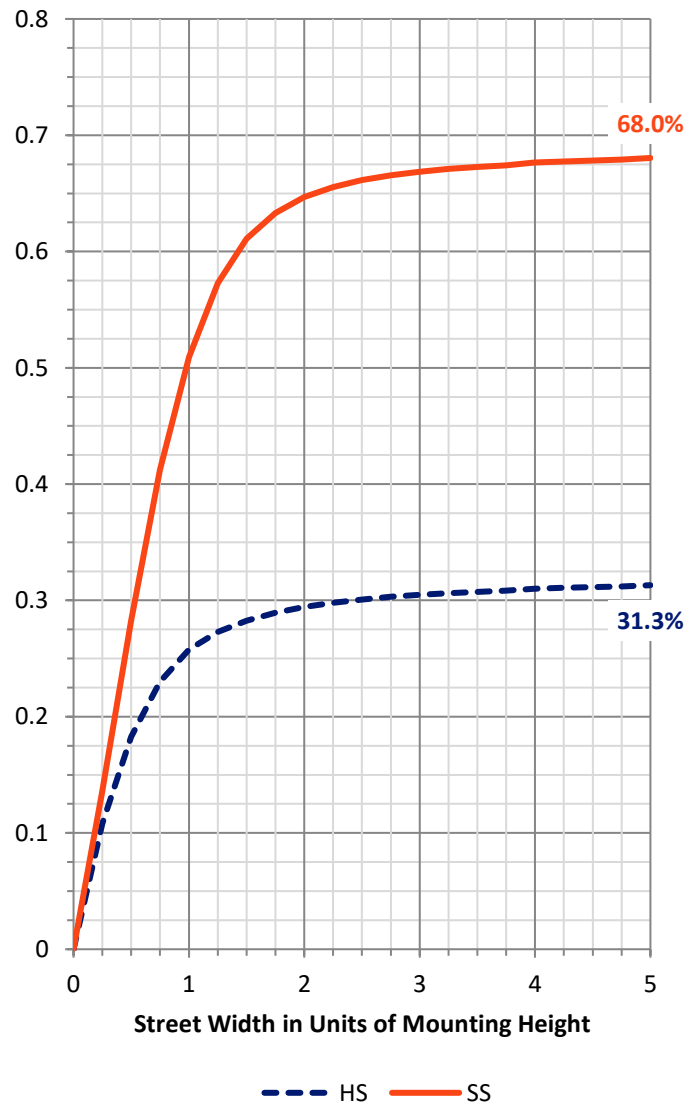
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2594.3	0.0	2594.3
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	5585.2	0.0	5585.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	8179.5	0.0	8179.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	1.8
10°-20°	447.9	5.5
20°-30°	795.3	9.7
30°-40°	1184.8	14.5
40°-50°	1518.7	18.6
50°-60°	1706.1	20.9
60°-70°	1506.5	18.4
70°-80°	720.3	8.8
80°-90°	154.0	1.9
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°-90°	8179.5	100.0
0°-180°	8179.5	100.0

Coefficient of Utilization



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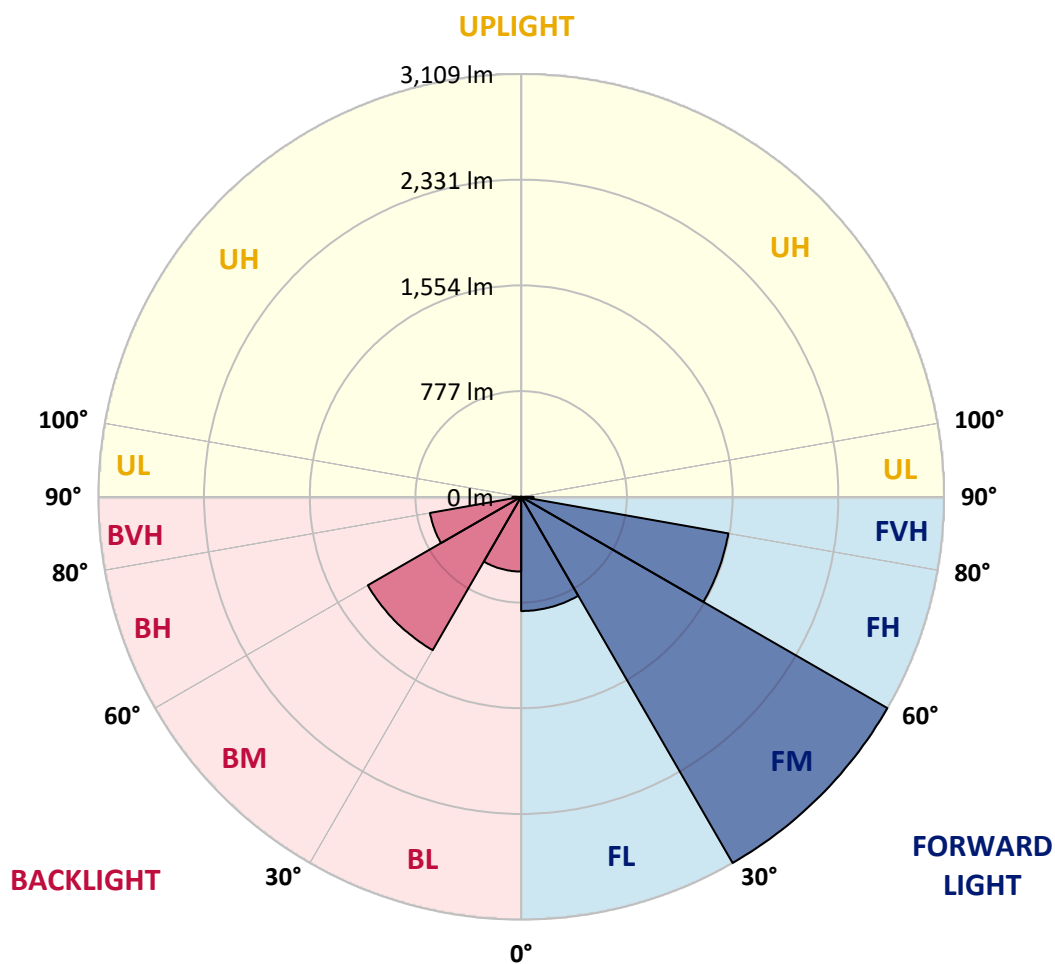
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	839.6	10.3			
FM	(30°-60°)	3108.5	38.0			
FH	(60°-80°)	1546.6	18.9			G1/1800
FVH	(80°-90°)	90.6	1.1			G1/100
BL	(0°-30°)	549.6	6.7	B2/1000		
BM	(30°-60°)	1301.0	15.9	B2/2500		
BH	(60°-80°)	680.2	8.3	B2/1000		G2/1000
BVH	(80°-90°)	63.5	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1
2.5°	1564.0	1570.8	1564.4	1563.6	1560.9	1553.3	1553.7	1543.8	1536.6	1540.0	1530.5
5°	1622.9	1623.7	1620.3	1614.6	1604.7	1589.5	1575.8	1561.3	1544.2	1545.7	1530.9
7.5°	1701.2	1703.1	1690.2	1678.8	1659.0	1631.3	1607.7	1577.3	1551.4	1552.2	1527.9
10°	1788.3	1790.2	1779.2	1759.4	1727.5	1686.8	1643.1	1602.0	1562.5	1560.6	1525.2
12.5°	1886.7	1889.0	1880.7	1846.5	1804.6	1748.7	1690.6	1629.8	1577.7	1572.4	1529.4
15°	1997.0	2001.2	1981.0	1947.2	1892.8	1818.3	1743.8	1664.7	1595.2	1586.8	1533.6
17.5°	2156.3	2142.6	2128.2	2081.8	2000.0	1908.0	1803.1	1706.9	1618.0	1608.8	1540.8
20°	2317.9	2319.0	2304.2	2275.3	2175.7	2057.1	1896.6	1768.1	1654.1	1641.5	1563.6
22.5°	2305.7	2306.1	2312.9	2326.2	2315.2	2252.8	2105.7	1905.4	1736.2	1711.9	1607.7
25°	2346.0	2352.8	2348.3	2338.4	2290.1	2257.8	2225.9	2077.2	1857.1	1824.0	1690.6
27.5°	2441.8	2453.2	2446.0	2437.2	2382.1	2320.5	2227.0	2153.6	1980.6	1940.7	1783.7
30°	2544.8	2549.0	2538.7	2525.0	2485.1	2431.5	2342.6	2214.1	2106.9	2079.1	1916.0
32.5°	2622.0	2623.1	2618.2	2621.2	2580.5	2544.4	2482.1	2353.2	2252.8	2243.3	2133.5
35°	2679.0	2691.6	2687.8	2701.1	2676.7	2658.5	2625.0	2561.5	2401.9	2364.2	2197.0
37.5°	2734.9	2749.0	2760.4	2767.2	2744.4	2742.5	2736.4	2633.8	2339.5	2288.6	2097.7
40°	2752.4	2760.4	2807.9	2835.3	2800.3	2798.4	2785.8	2655.8	2461.2	2426.2	2231.6
42.5°	2734.1	2732.6	2789.3	2810.2	2829.2	2848.6	2872.9	2823.5	2666.5	2645.6	2433.0
45°	2618.6	2601.1	2631.5	2739.8	2805.6	2880.5	2983.5	3005.9	2903.3	2872.9	2654.7
47.5°	2470.7	2459.3	2497.3	2625.4	2742.1	2891.1	3072.1	3204.0	3141.7	3113.2	2910.5
50°	2238.0	2251.3	2330.4	2471.1	2638.7	2874.4	3143.6	3395.2	3413.1	3392.2	3168.3
52.5°	1933.9	1943.4	2112.2	2292.4	2496.1	2767.6	3174.7	3592.5	3695.6	3683.8	3431.7
55°	1608.1	1636.6	1757.9	2036.2	2281.0	2634.1	3153.1	3751.8	3994.0	3973.8	3708.5
57.5°	1331.0	1360.6	1444.2	1696.3	2026.6	2432.3	3072.5	3864.7	4260.5	4262.4	3967.0
60°	1081.6	1107.8	1169.4	1372.8	1728.2	2191.6	2911.3	3887.5	4475.7	4493.5	4154.4
62.5°	905.9	916.6	974.7	1120.0	1428.3	1903.9	2685.5	3784.5	4581.7	4616.7	4240.3
63°	880.1	875.1	940.5	1079.7	1348.8	1840.0	2638.7	3745.0	4582.1	4618.2	4240.0
65°	747.0	754.2	796.4	914.3	1135.5	1573.5	2370.3	3537.0	4492.0	4544.1	4144.5
67.5°	585.8	592.7	650.5	746.3	903.6	1275.8	2016.4	3169.8	4186.7	4233.5	3820.3
70°	464.6	467.6	504.5	591.5	734.1	994.1	1584.5	2656.6	3628.3	3664.8	3236.3
72.5°	376.7	386.6	411.0	463.8	556.2	755.4	1195.6	2095.1	2864.9	2810.2	2379.4
75°	315.9	319.0	343.3	369.5	417.4	544.0	862.6	1544.6	1953.3	1949.1	1550.7
77.5°	266.9	273.0	278.7	291.2	318.6	387.0	606.0	1072.8	1243.9	1222.6	894.1
80°	225.1	227.3	225.1	227.3	237.6	261.9	393.5	702.5	793.0	737.5	544.0
82.5°	157.0	168.4	169.9	177.5	181.3	191.6	263.1	457.7	504.9	453.9	320.5
85°	93.1	92.0	96.6	109.5	122.0	120.9	166.9	228.9	272.2	253.2	154.0
87.5°	33.1	31.2	31.2	38.4	41.4	44.9	54.7	71.5	67.7	68.0	38.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1	1527.1
2.5°	1525.6	1519.1	1516.1	1510.8	1502.4	1497.8	1493.7	1488.0	1486.1	1481.1	1480.4
5°	1520.3	1513.8	1501.3	1487.6	1476.2	1467.4	1451.5	1442.0	1433.2	1431.7	1434.0
7.5°	1511.9	1503.9	1484.2	1464.4	1442.0	1427.1	1406.6	1393.3	1385.7	1384.2	1387.2
10°	1508.5	1494.0	1465.1	1437.0	1408.9	1385.7	1363.3	1346.5	1335.5	1334.0	1330.6
12.5°	1505.1	1486.8	1447.3	1411.9	1371.6	1344.6	1320.3	1306.6	1295.2	1293.7	1292.9
15°	1503.5	1480.4	1429.0	1381.5	1337.0	1304.7	1280.4	1269.4	1265.9	1263.7	1264.8
17.5°	1505.8	1475.8	1413.1	1350.7	1299.8	1267.1	1248.1	1240.9	1239.7	1240.5	1243.1
20°	1518.0	1479.2	1399.8	1324.9	1267.1	1233.6	1219.6	1215.8	1215.8	1219.9	1222.6
22.5°	1545.4	1497.5	1392.9	1304.0	1239.7	1208.5	1192.2	1187.6	1192.6	1200.2	1202.1
25°	1617.6	1550.3	1406.6	1292.2	1218.4	1181.2	1163.7	1162.9	1168.2	1175.1	1175.8
27.5°	1700.1	1616.5	1438.5	1290.3	1198.7	1153.0	1134.4	1132.1	1134.8	1141.6	1141.6
30°	1813.4	1704.7	1486.8	1304.0	1185.0	1122.2	1100.2	1093.0	1096.0	1104.8	1102.1
32.5°	1992.8	1845.3	1561.7	1327.9	1172.4	1091.4	1062.2	1056.1	1056.1	1062.9	1066.0
35°	2079.5	1949.5	1599.3	1318.8	1144.3	1055.7	1020.7	1012.0	1023.4	1036.3	1038.2
37.5°	1991.3	1858.6	1546.5	1278.9	1104.4	1013.5	980.1	972.8	982.7	995.3	996.8
40°	2097.0	1943.0	1587.2	1280.0	1079.3	974.0	934.8	911.6	913.2	923.0	920.8
42.5°	2274.5	2087.5	1647.2	1285.3	1048.9	931.0	872.9	832.6	826.9	828.4	830.7
45°	2477.9	2250.2	1718.3	1286.5	1010.1	878.2	796.8	747.0	733.0	724.6	722.3
47.5°	2695.4	2424.3	1795.9	1283.8	960.3	810.1	719.6	669.8	642.9	630.3	631.5
50°	2931.1	2604.5	1865.1	1271.3	907.1	737.9	646.7	598.0	567.6	560.4	556.9
52.5°	3154.2	2781.3	1931.6	1253.0	847.4	664.1	577.8	536.0	510.6	503.7	502.2
55°	3390.3	2956.9	1987.5	1221.5	780.1	594.6	517.4	489.3	471.4	466.8	467.6
57.5°	3592.5	3111.6	2017.5	1175.5	715.5	533.0	473.3	454.7	443.7	445.9	447.5
60°	3743.1	3189.6	2011.4	1109.3	649.7	482.8	437.2	427.3	427.3	445.9	451.6
62.5°	3766.3	3174.0	1950.2	1014.3	578.2	440.6	406.0	396.5	406.0	428.8	433.4
63°	3752.6	3148.1	1934.3	983.5	567.2	431.5	399.2	390.0	403.0	421.2	421.2
65°	3617.6	3010.5	1792.5	880.8	509.0	401.5	375.2	370.7	388.5	400.7	402.6
67.5°	3287.3	2728.8	1549.9	729.2	448.2	367.2	343.7	351.7	365.0	374.5	377.5
70°	2763.0	2260.4	1240.1	586.6	390.8	331.5	318.2	323.1	335.3	343.7	346.7
72.5°	2010.7	1703.5	930.3	468.4	340.2	296.9	289.7	289.3	297.3	300.3	304.9
75°	1303.6	1140.1	679.4	377.9	290.4	261.6	253.6	251.3	266.5	272.6	278.7
77.5°	777.1	706.3	485.1	310.6	247.5	214.8	219.4	219.4	234.9	253.9	262.7
80°	469.9	431.9	359.6	257.8	194.6	175.6	180.2	182.9	220.9	257.4	260.8
82.5°	283.2	278.3	266.9	199.6	150.9	134.2	143.3	160.8	207.9	159.3	183.6
85°	139.5	150.2	171.5	111.4	93.9	91.6	96.2	142.2	137.6	63.5	59.7
87.5°	35.7	42.6	40.3	29.7	25.5	23.6	31.9	53.2	43.7	15.2	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP2-2501-321-4

Test Date: 04/10/2025

Luminaire Tested: GKO-PB1E-730-U-T4W

Data in this report applies to families of products including GKO-PB1E-730-U-T4W

Test Information

Test Method: LM-79-2019
 Report Number: SP2-2501-321-4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP2 - 165CM SPHERE
 Measurement Geometry: 4π
 Issue Date: 04/10/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GKO-PB1E-730-U-T4W**
 Description: Gekko Wedge Wall Pack Fixture 1 SQ w/ T4W distribution

Spectral Parameters

CCT (K): 3072
 CIE u' : 0.2482
 CIE v' : 0.5193
 Duv: -0.0004
 CIE x: 0.4313
 CIE y: 0.4010
 CIE z: 0.1677
 Peak Wavelength (nm): 593
 Dominant Wavelength (nm): 582
 Purity: 49.8225
 R_f: 74.7
 R_g: 94.2

CRI (Ra): 71.7
 R1: 68.1
 R2: 82.1
 R3: 93.4
 R4: 67.3
 R5: 67.2
 R6: 74.9
 R7: 77.5
 R8: 43.4
 R9: -33.9
 R10: 58.6
 R11: 62.0
 R12: 48.5
 R13: 70.7
 R14: 96.4
 R15: 60.2



Test Conditions

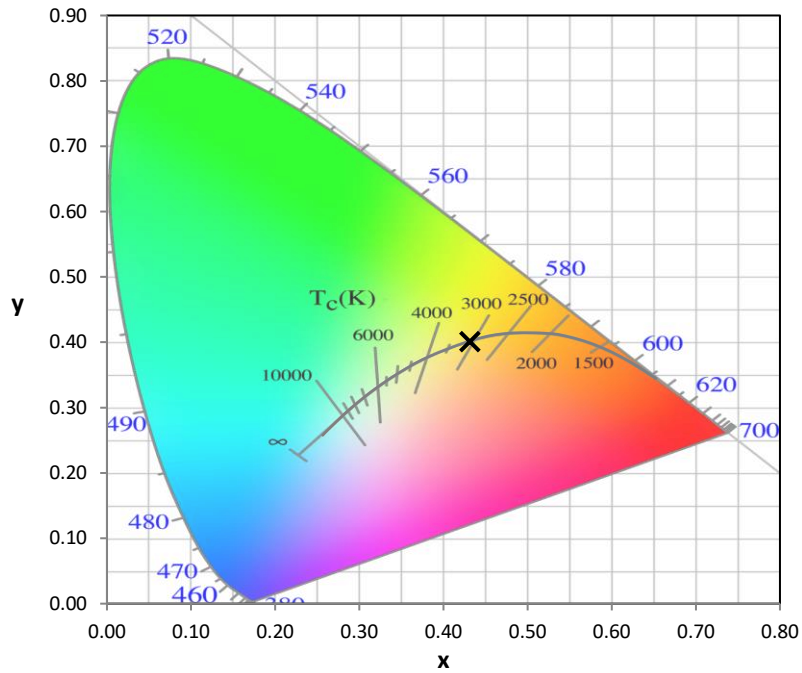
Stabilization Time: 30M
 Operation Time: 1H 30M
 Sphere Temperature (°C): 25.7

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Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN2187	1/6/2025	7/6/2025
Power Meter	INXT2011002	1/21/2025	1/21/2026
AC Power Source	IN0458	10/22/2024	10/22/2025
DC Power Source	IN0212	10/22/2024	10/22/2025
Sphere Thermometer	IN4036B	10/22/2024	10/22/2025
Room Thermometer	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 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

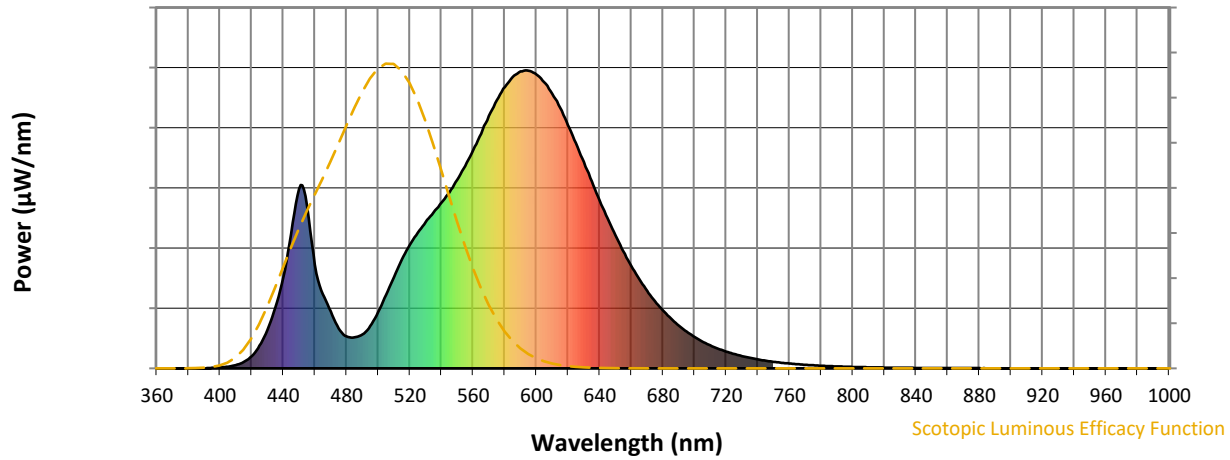


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	114	NR	620	817	NR	750	22	NR	880	1	NR
365	0	NR	495	141	NR	625	756	NR	755	19	NR	885	1	NR
370	0	NR	500	189	NR	630	693	NR	760	16	NR	890	0	NR
375	0	NR	505	247	NR	635	628	NR	765	14	NR	895	0	NR
380	0	NR	510	307	NR	640	564	NR	770	12	NR	900	0	NR
385	0	NR	515	366	NR	645	504	NR	775	10	NR	905	0	NR
390	0	NR	520	415	NR	650	446	NR	780	9	NR	910	0	NR
395	2	NR	525	455	NR	655	393	NR	785	8	NR	915	0	NR
400	3	NR	530	491	NR	660	344	NR	790	7	NR	920	0	NR
405	6	NR	535	523	NR	665	300	NR	795	6	NR	925	0	NR
410	11	NR	540	556	NR	670	260	NR	800	5	NR	930	0	NR
415	21	NR	545	591	NR	675	226	NR	805	4	NR	935	0	NR
420	41	NR	550	632	NR	680	195	NR	810	4	NR	940	0	NR
425	76	NR	555	679	NR	685	167	NR	815	3	NR	945	0	NR
430	129	NR	560	732	NR	690	144	NR	820	3	NR	950	0	NR
435	205	NR	565	787	NR	695	123	NR	825	2	NR	955	0	NR
440	307	NR	570	847	NR	700	105	NR	830	2	NR	960	0	NR
445	451	NR	575	900	NR	705	90	NR	835	2	NR	965	0	NR
450	603	NR	580	944	NR	710	77	NR	840	2	NR	970	0	NR
455	544	NR	585	977	NR	715	66	NR	845	1	NR	975	0	NR
460	348	NR	590	997	NR	720	56	NR	850	1	NR	980	0	NR
465	249	NR	595	998	NR	725	48	NR	855	1	NR	985	0	NR
470	191	NR	600	986	NR	730	41	NR	860	1	NR	990	0	NR
475	133	NR	605	960	NR	735	35	NR	865	1	NR	995	0	NR
480	107	NR	610	921	NR	740	30	NR	870	1	NR	1000	0	NR
485	104	NR	615	874	NR	745	26	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.24

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	114	NR	620	817	NR	750	22	NR	880	1	NR
365	0	NR	495	141	NR	625	756	NR	755	19	NR	885	1	NR
370	0	NR	500	189	NR	630	693	NR	760	16	NR	890	0	NR
375	0	NR	505	247	NR	635	628	NR	765	14	NR	895	0	NR
380	0	NR	510	307	NR	640	564	NR	770	12	NR	900	0	NR
385	0	NR	515	366	NR	645	504	NR	775	10	NR	905	0	NR
390	0	NR	520	415	NR	650	446	NR	780	9	NR	910	0	NR
395	2	NR	525	455	NR	655	393	NR	785	8	NR	915	0	NR
400	3	NR	530	491	NR	660	344	NR	790	7	NR	920	0	NR
405	6	NR	535	523	NR	665	300	NR	795	6	NR	925	0	NR
410	11	NR	540	556	NR	670	260	NR	800	5	NR	930	0	NR
415	21	NR	545	591	NR	675	226	NR	805	4	NR	935	0	NR
420	41	NR	550	632	NR	680	195	NR	810	4	NR	940	0	NR
425	76	NR	555	679	NR	685	167	NR	815	3	NR	945	0	NR
430	129	NR	560	732	NR	690	144	NR	820	3	NR	950	0	NR
435	205	NR	565	787	NR	695	123	NR	825	2	NR	955	0	NR
440	307	NR	570	847	NR	700	105	NR	830	2	NR	960	0	NR
445	451	NR	575	900	NR	705	90	NR	835	2	NR	965	0	NR
450	603	NR	580	944	NR	710	77	NR	840	2	NR	970	0	NR
455	544	NR	585	977	NR	715	66	NR	845	1	NR	975	0	NR
460	348	NR	590	997	NR	720	56	NR	850	1	NR	980	0	NR
465	249	NR	595	998	NR	725	48	NR	855	1	NR	985	0	NR
470	191	NR	600	986	NR	730	41	NR	860	1	NR	990	0	NR
475	133	NR	605	960	NR	735	35	NR	865	1	NR	995	0	NR
480	107	NR	610	921	NR	740	30	NR	870	1	NR	1000	0	NR
485	104	NR	615	874	NR	745	26	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.3

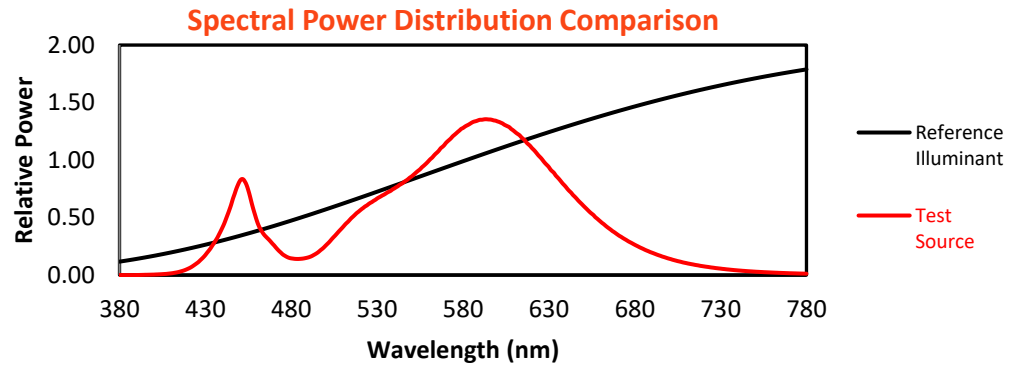
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	114	NR	620	817	NR	750	22	NR	880	1	NR
365	0	NR	495	141	NR	625	756	NR	755	19	NR	885	1	NR
370	0	NR	500	189	NR	630	693	NR	760	16	NR	890	0	NR
375	0	NR	505	247	NR	635	628	NR	765	14	NR	895	0	NR
380	0	NR	510	307	NR	640	564	NR	770	12	NR	900	0	NR
385	0	NR	515	366	NR	645	504	NR	775	10	NR	905	0	NR
390	0	NR	520	415	NR	650	446	NR	780	9	NR	910	0	NR
395	2	NR	525	455	NR	655	393	NR	785	8	NR	915	0	NR
400	3	NR	530	491	NR	660	344	NR	790	7	NR	920	0	NR
405	6	NR	535	523	NR	665	300	NR	795	6	NR	925	0	NR
410	11	NR	540	556	NR	670	260	NR	800	5	NR	930	0	NR
415	21	NR	545	591	NR	675	226	NR	805	4	NR	935	0	NR
420	41	NR	550	632	NR	680	195	NR	810	4	NR	940	0	NR
425	76	NR	555	679	NR	685	167	NR	815	3	NR	945	0	NR
430	129	NR	560	732	NR	690	144	NR	820	3	NR	950	0	NR
435	205	NR	565	787	NR	695	123	NR	825	2	NR	955	0	NR
440	307	NR	570	847	NR	700	105	NR	830	2	NR	960	0	NR
445	451	NR	575	900	NR	705	90	NR	835	2	NR	965	0	NR
450	603	NR	580	944	NR	710	77	NR	840	2	NR	970	0	NR
455	544	NR	585	977	NR	715	66	NR	845	1	NR	975	0	NR
460	348	NR	590	997	NR	720	56	NR	850	1	NR	980	0	NR
465	249	NR	595	998	NR	725	48	NR	855	1	NR	985	0	NR
470	191	NR	600	986	NR	730	41	NR	860	1	NR	990	0	NR
475	133	NR	605	960	NR	735	35	NR	865	1	NR	995	0	NR
480	107	NR	610	921	NR	740	30	NR	870	1	NR	1000	0	NR
485	104	NR	615	874	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP2-2501-321-4

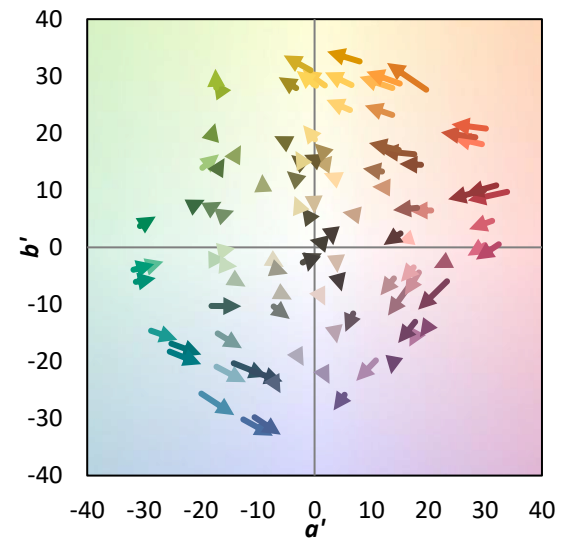
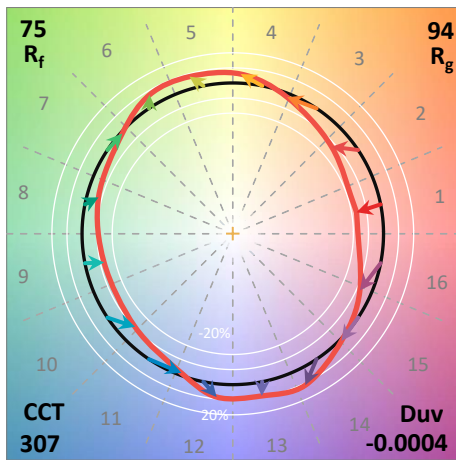
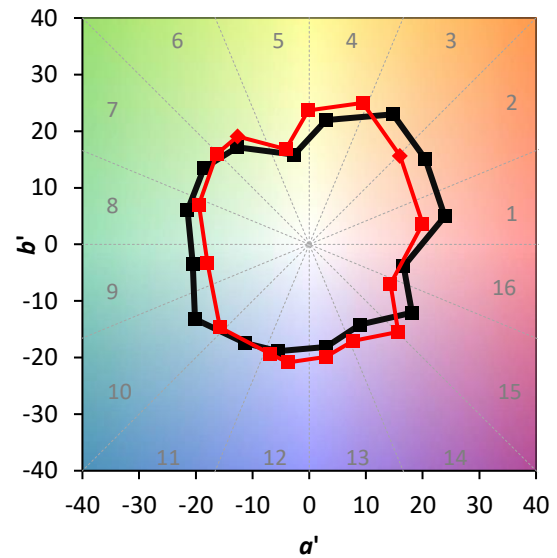
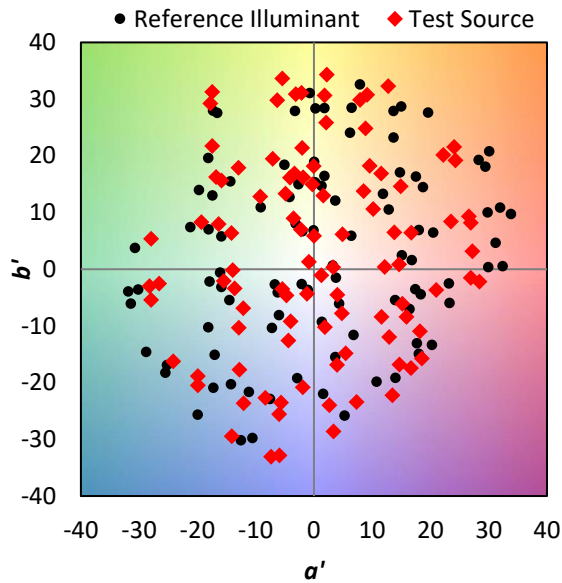
TM-30-18

Summary

$R_f = 74.7$
 $R_g = 94.2$
 $CIE R_a = 71.7$
 $R_g = -33.9$

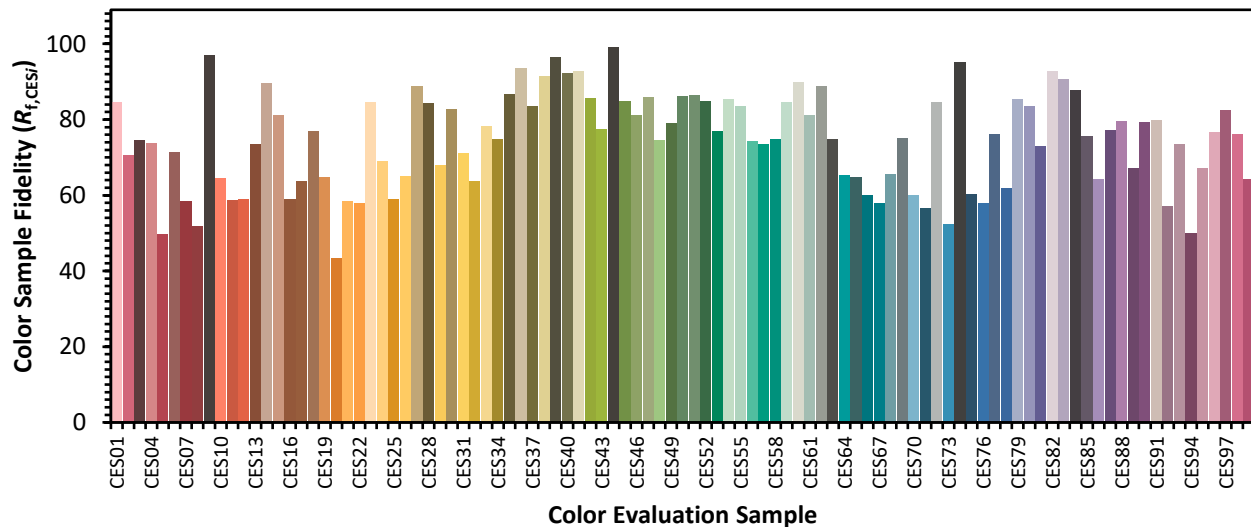


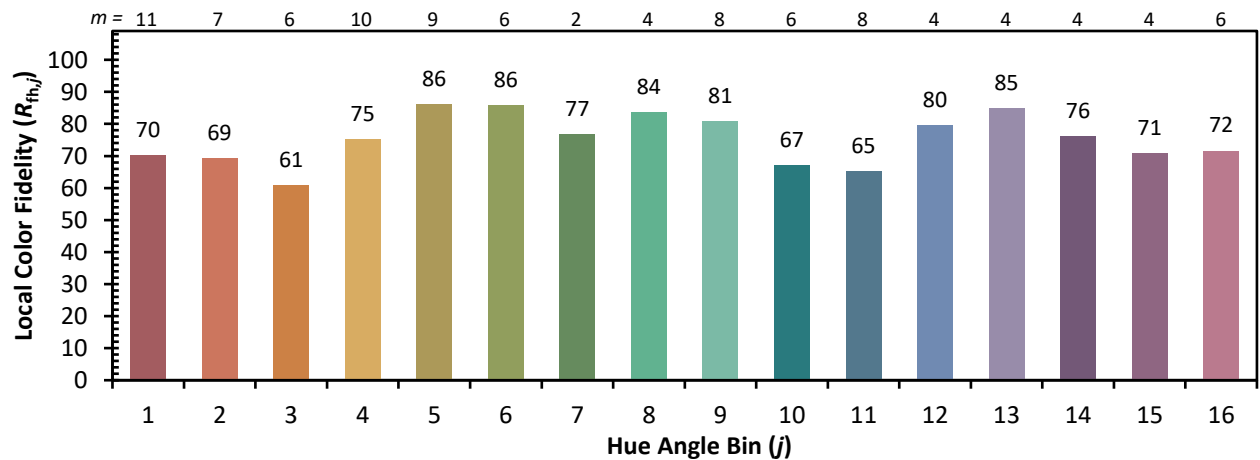
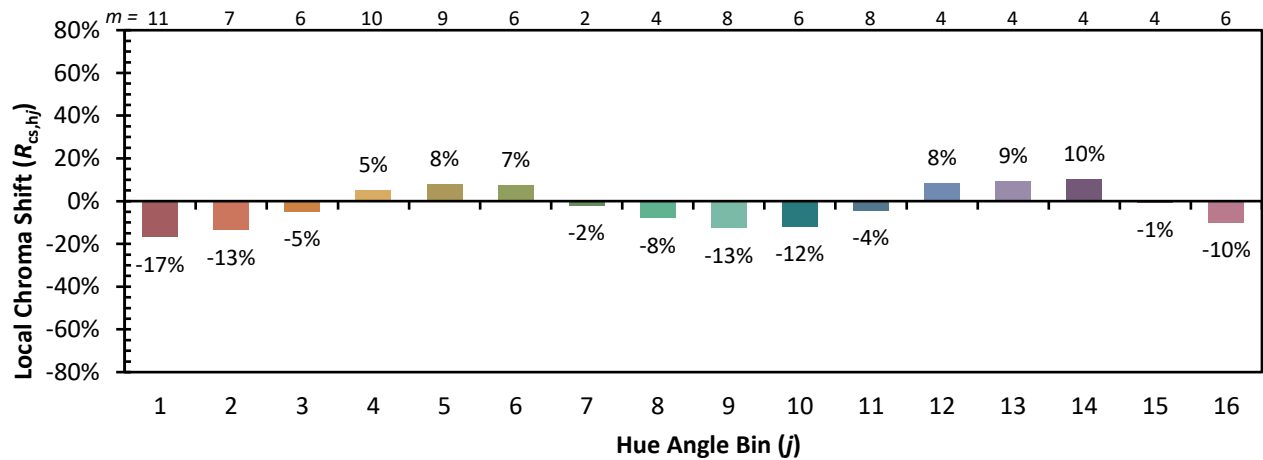
Color Vector Graphics



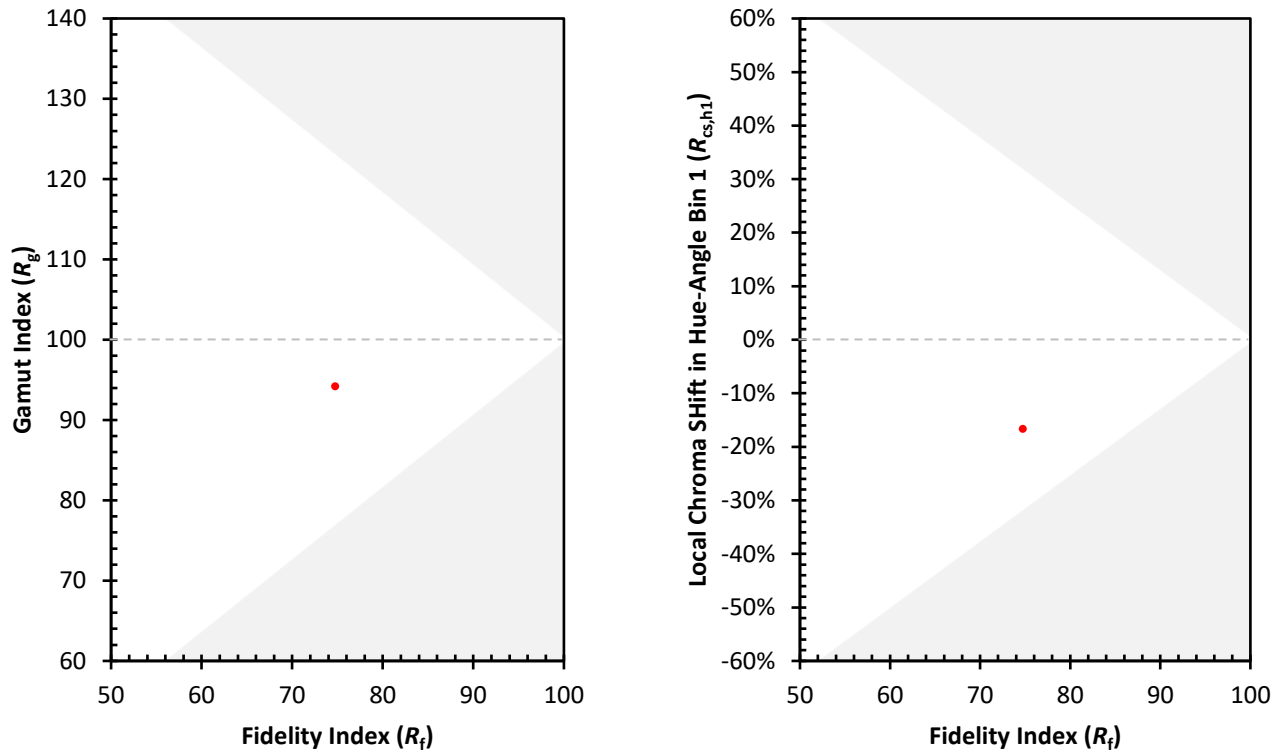
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 65	CES51 = 86	CES76 = 58
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 76
CES03 = 31	CES28 = 84	CES53 = 77	CES78 = 62
CES04 = 71	CES29 = 68	CES54 = 85	CES79 = 85
CES05 = 49	CES30 = 83	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 71	CES56 = 74	CES81 = 73
CES07 = 41	CES32 = 64	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 78	CES58 = 75	CES83 = 91
CES09 = 29	CES34 = 75	CES59 = 85	CES84 = 88
CES10 = 76	CES35 = 87	CES60 = 90	CES85 = 76
CES11 = 59	CES36 = 94	CES61 = 81	CES86 = 64
CES12 = 65	CES37 = 84	CES62 = 89	CES87 = 77
CES13 = 43	CES38 = 92	CES63 = 75	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 65	CES89 = 67
CES15 = 71	CES40 = 92	CES65 = 65	CES90 = 79
CES16 = 47	CES41 = 93	CES66 = 60	CES91 = 80
CES17 = 50	CES42 = 86	CES67 = 58	CES92 = 57
CES18 = 56	CES43 = 78	CES68 = 66	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 75	CES94 = 50
CES20 = 66	CES45 = 85	CES70 = 60	CES95 = 67
CES21 = 87	CES46 = 81	CES71 = 57	CES96 = 77
CES22 = 79	CES47 = 86	CES72 = 85	CES97 = 83
CES23 = 92	CES48 = 75	CES73 = 52	CES98 = 76
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 60	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)