

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: P1461750

Luminaire Tested: USSL-70-727-U-T3RE

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461750
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-70-727-U-T3RE
Description: USSL DISCRETE LED 1 SQUARE 70W 70CRI 2700K FIXTURE w/ TYPE III ROADWAY ILLUMINANCE DISTRIBUTION OPTIC
Light Source: (40) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10725.2 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 73
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.73%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

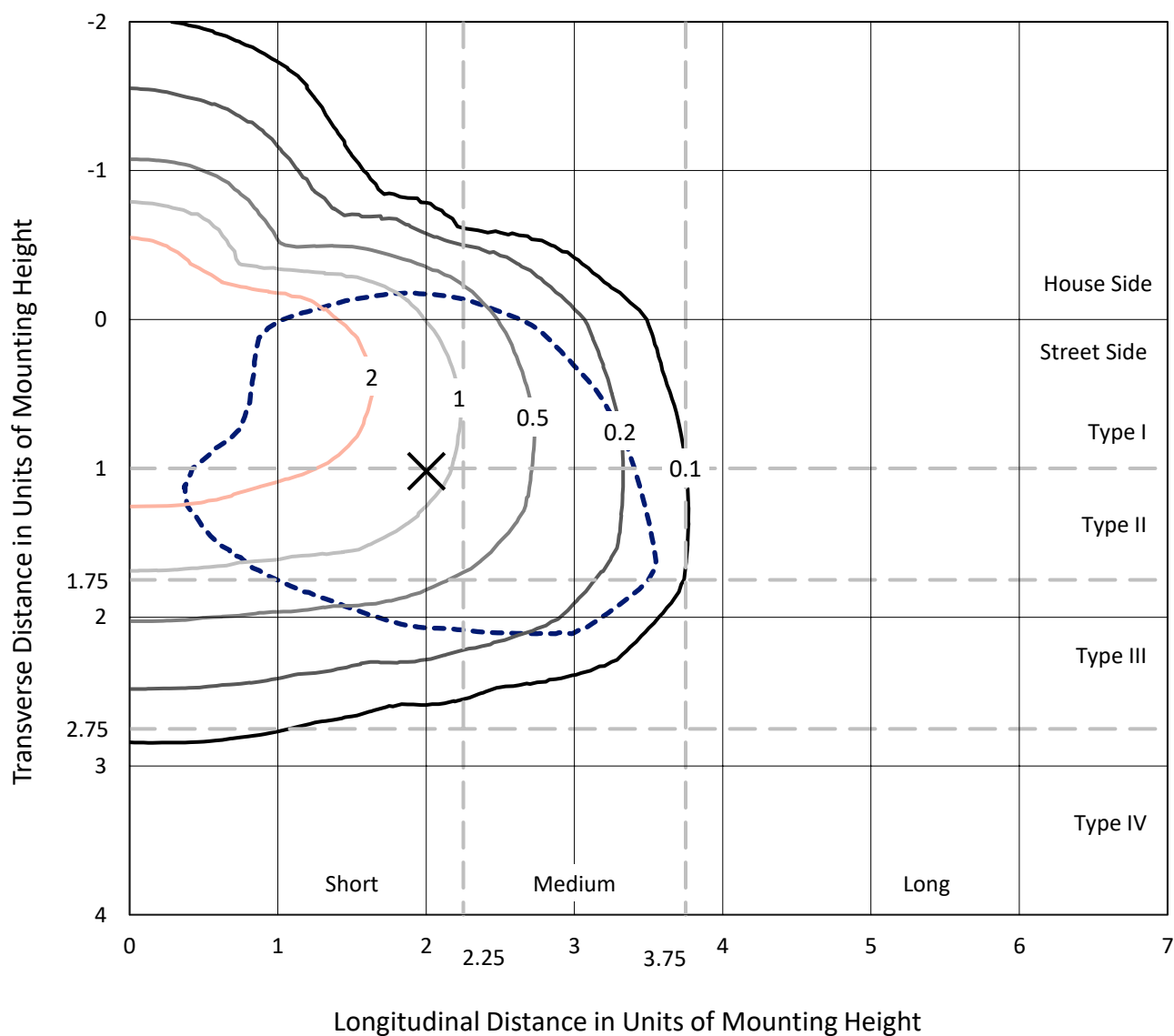
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

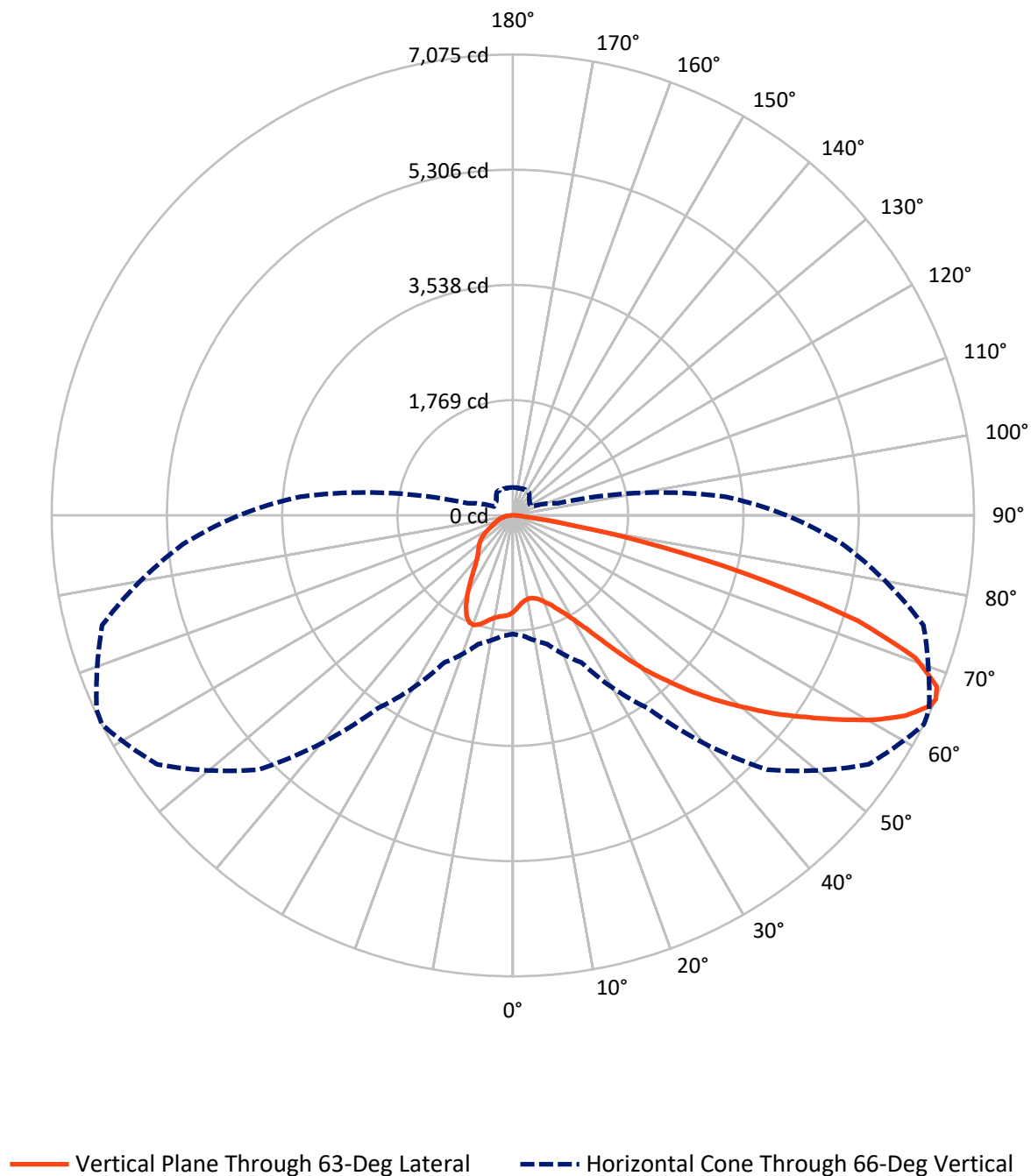


Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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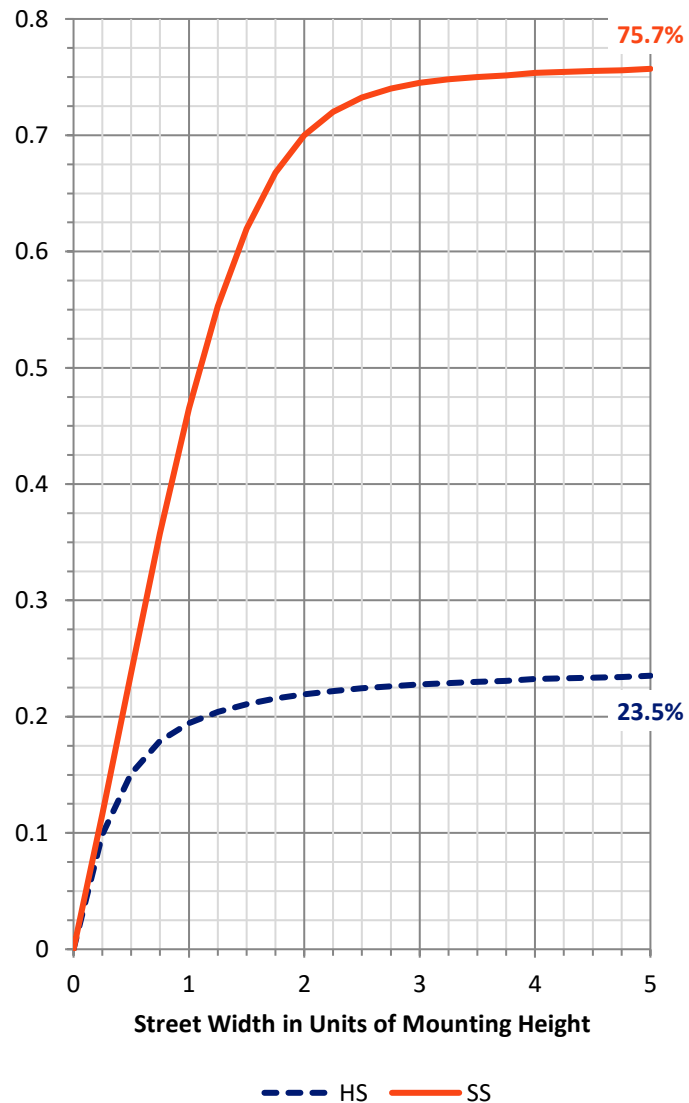
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2565.5	0.0	2565.5
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	8159.7	0.0	8159.7
	% Fixture	76.1	0.0	76.1
Total	Lumens	10725.2	0.0	10725.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	1.3
10°-20°	430.6	4.0
20°-30°	767.2	7.2
30°-40°	1207.9	11.3
40°-50°	1813.9	16.9
50°-60°	2435.0	22.7
60°-70°	2612.8	24.4
70°-80°	1175.5	11.0
80°-90°	144.8	1.3
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°	10725.2	100.0
0°-180°	10725.2	100.0

Coefficient of Utilization



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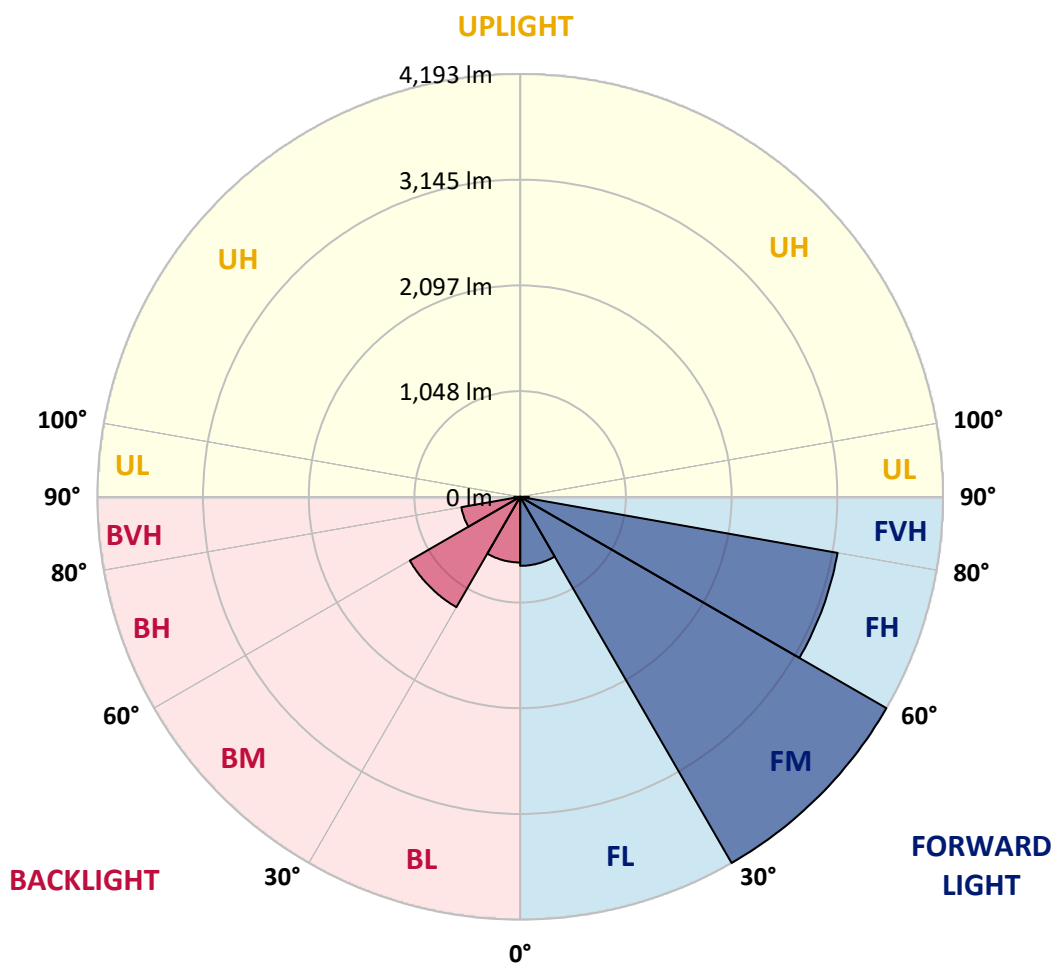
CATALOG NUMBER: USSL-70-727-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	684.3	6.4			
FM	(30°-60°)	4193.1	39.1			
FH	(60°-80°)	3196.1	29.8			G2/5000
FVH	(80°-90°)	86.2	0.8			G1/100
BL	(0°-30°)	650.9	6.1	B2/1000		
BM	(30°-60°)	1263.7	11.8	B2/2500		
BH	(60°-80°)	592.3	5.5	B2/1000		G2/1000
BVH	(80°-90°)	58.6	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6
2.5°	1325.8	1328.8	1333.3	1339.9	1350.6	1370.3	1396.1	1417.9	1422.4	1449.8	1468.5
5°	1222.0	1225.5	1229.1	1238.2	1256.9	1279.7	1318.7	1358.2	1368.8	1425.5	1475.6
7.5°	1197.7	1198.7	1200.2	1202.7	1213.9	1232.6	1272.1	1320.2	1331.3	1411.8	1493.3
10°	1226.0	1226.5	1226.0	1223.0	1220.5	1227.5	1254.4	1298.9	1314.6	1411.8	1523.2
12.5°	1284.2	1289.3	1285.3	1274.6	1259.9	1255.4	1268.0	1301.5	1316.1	1428.0	1565.7
15°	1366.3	1371.3	1361.7	1346.0	1324.2	1305.0	1301.5	1323.2	1335.9	1452.8	1623.4
17.5°	1466.5	1464.5	1453.3	1432.1	1402.2	1371.3	1353.6	1362.2	1371.8	1490.3	1686.7
20°	1587.0	1594.5	1571.3	1539.9	1505.0	1457.9	1418.9	1422.4	1425.5	1539.9	1762.6
22.5°	1785.9	1795.0	1751.0	1691.2	1626.4	1562.2	1512.5	1487.2	1496.3	1597.1	1841.1
25°	1982.8	1984.3	1951.9	1893.7	1797.5	1694.8	1619.9	1590.0	1588.5	1680.6	1948.4
27.5°	2189.3	2175.7	2138.7	2076.0	1985.3	1866.9	1753.5	1708.4	1703.9	1797.5	2067.9
30°	2379.7	2372.6	2336.1	2269.3	2165.0	2053.2	1921.6	1864.4	1859.3	1969.6	2237.4
32.5°	2556.3	2558.4	2523.9	2453.6	2369.0	2254.6	2123.5	2069.4	2063.3	2217.7	2451.0
35°	2697.1	2692.5	2671.8	2643.9	2575.6	2474.3	2353.9	2352.8	2367.0	2568.0	2725.9
37.5°	2835.3	2832.2	2799.8	2782.6	2787.7	2698.6	2649.5	2706.2	2736.0	2945.1	3038.2
40°	3063.1	3046.3	3004.8	2954.7	2960.8	2919.3	2937.5	3103.5	3157.7	3366.8	3366.8
42.5°	3234.2	3227.6	3220.5	3201.2	3174.4	3141.0	3246.3	3467.5	3520.2	3732.3	3650.8
45°	3298.4	3307.6	3351.1	3428.5	3423.5	3375.9	3581.9	3864.9	3912.0	4103.8	3934.7
47.5°	3354.1	3364.2	3417.4	3576.9	3660.4	3669.5	3944.9	4252.6	4307.8	4495.1	4197.5
50°	3353.6	3374.9	3480.7	3661.9	3820.3	3958.0	4331.1	4643.9	4699.6	4861.1	4425.8
52.5°	3281.7	3296.4	3476.1	3731.2	3946.4	4252.1	4732.5	5059.0	5084.3	5207.8	4624.7
55°	3201.8	3214.4	3401.7	3746.9	4079.0	4576.1	5148.6	5465.5	5505.5	5563.7	4826.7
57.5°	3108.6	3128.9	3315.1	3699.4	4190.9	4895.5	5574.8	5907.4	5926.7	5906.9	5049.9
60°	2996.2	3004.3	3184.5	3577.4	4254.7	5225.6	5988.4	6372.1	6376.2	6248.6	5232.7
62.5°	2597.3	2605.9	2818.0	3323.7	4209.1	5477.1	6347.8	6765.9	6757.9	6506.8	5318.7
65°	1993.4	2029.4	2243.5	2767.4	3860.3	5587.5	6627.2	7041.3	7012.0	6568.5	5200.8
66°	1819.8	1856.3	2043.0	2491.5	3613.8	5517.6	6662.2	7075.2	7046.9	6523.5	5080.8
67.5°	1628.5	1635.0	1786.9	2127.6	3098.5	5193.7	6545.2	7016.5	6984.6	6324.5	4797.3
70°	1186.5	1217.9	1353.6	1613.8	2185.8	4168.1	5903.9	6552.3	6505.8	5640.1	4079.0
72.5°	779.1	791.7	851.4	968.9	1392.1	2802.9	4874.3	5534.4	5576.9	4501.2	3037.2
75°	543.2	536.1	510.8	522.4	696.0	1367.3	3412.3	3951.4	4005.6	2913.2	1796.0
77.5°	447.0	437.9	396.4	347.8	356.4	508.7	1806.6	2335.6	2293.1	1428.0	810.9
80°	385.7	377.1	332.6	289.0	262.7	243.0	569.0	951.2	881.3	479.4	280.9
82.5°	308.3	303.7	284.0	243.0	213.1	175.7	177.7	247.5	264.7	178.7	123.5
85°	187.3	185.3	186.8	192.4	151.9	128.6	105.8	111.4	108.3	89.6	76.9
87.5°	96.7	89.6	96.2	114.9	90.1	59.2	44.5	46.1	48.6	46.1	39.5
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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CATALOG NUMBER: USSL-70-727-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6
2.5°	1481.2	1492.3	1510.0	1521.7	1529.2	1533.8	1533.3	1532.8	1531.3	1527.7	1529.8
5°	1497.4	1516.6	1539.4	1546.5	1544.9	1542.4	1538.4	1537.3	1538.9	1535.8	1535.8
7.5°	1524.7	1546.0	1567.2	1563.2	1556.1	1563.7	1575.8	1592.5	1602.6	1608.7	1616.8
10°	1561.1	1590.0	1597.1	1584.9	1593.0	1622.9	1650.2	1669.0	1680.1	1685.7	1691.2
12.5°	1615.8	1640.6	1626.9	1621.4	1656.8	1694.3	1701.9	1688.2	1673.5	1664.9	1665.4
15°	1676.6	1692.8	1664.9	1681.1	1725.2	1721.6	1669.0	1612.8	1572.3	1555.1	1557.1
17.5°	1741.3	1744.4	1707.9	1746.9	1751.0	1669.5	1564.2	1485.2	1458.9	1449.3	1450.3
20°	1817.3	1803.6	1765.6	1803.6	1718.1	1555.6	1440.7	1393.6	1381.9	1386.5	1387.5
22.5°	1885.1	1853.7	1826.4	1816.3	1611.8	1421.9	1348.0	1330.8	1334.4	1342.5	1351.1
25°	1966.6	1909.9	1884.6	1763.6	1472.0	1316.6	1284.2	1286.3	1286.8	1293.9	1300.4
27.5°	2057.2	1974.2	1924.1	1641.6	1323.7	1241.2	1232.1	1233.6	1228.6	1228.6	1234.6
30°	2166.1	2051.1	1930.7	1476.6	1189.6	1173.4	1172.9	1162.2	1141.5	1136.4	1140.0
32.5°	2317.4	2166.1	1901.8	1281.7	1093.4	1107.6	1102.0	1074.2	1045.8	1039.2	1046.8
35°	2541.2	2333.6	1844.6	1102.5	1009.9	1036.2	1029.6	993.2	951.2	935.0	937.0
37.5°	2770.5	2540.6	1772.2	954.7	934.5	971.9	956.7	908.1	863.6	833.7	837.8
40°	3010.9	2749.7	1687.2	859.5	869.2	903.6	890.4	830.7	773.0	746.7	758.8
42.5°	3247.3	2949.7	1596.1	797.3	807.4	841.8	828.2	765.4	722.4	694.5	699.1
45°	3459.4	3108.1	1513.6	750.7	754.2	781.1	760.8	724.9	681.4	657.6	656.0
47.5°	3648.7	3226.1	1461.9	713.2	701.6	709.7	706.7	681.4	649.0	626.7	624.7
50°	3811.2	3315.1	1452.8	679.3	644.9	630.2	643.9	636.3	611.0	594.8	593.3
52.5°	3942.3	3396.6	1492.3	644.9	573.5	566.4	586.7	588.7	569.5	562.4	562.9
55°	4100.8	3497.4	1572.3	596.8	510.3	511.3	538.1	540.1	529.0	530.0	532.0
57.5°	4273.9	3611.3	1638.6	534.0	452.0	460.1	496.1	499.6	489.0	493.0	494.6
60°	4420.2	3714.5	1560.6	456.1	399.9	420.7	466.7	464.7	458.6	468.7	471.3
62.5°	4462.7	3688.2	1280.7	388.3	358.9	389.8	446.0	446.5	458.1	475.8	478.9
65°	4312.4	3436.1	873.2	338.1	326.0	362.9	433.8	451.5	446.5	443.9	447.0
66°	4200.0	3278.2	713.2	320.9	313.8	355.4	430.8	437.9	428.8	428.3	428.3
67.5°	3946.4	2950.2	520.9	298.7	300.2	343.2	412.6	406.5	415.1	423.2	426.2
70°	3346.0	2253.1	329.5	264.2	276.4	311.3	368.5	392.3	408.0	417.6	424.2
72.5°	2479.9	1454.3	234.9	233.4	251.1	279.4	338.7	373.6	386.7	427.7	439.4
75°	1519.6	808.4	197.4	207.5	215.1	253.6	306.3	352.8	349.8	361.9	365.0
77.5°	656.5	363.5	168.6	179.7	183.8	214.6	272.8	320.4	319.9	333.1	338.7
80°	224.8	165.0	144.3	146.3	159.5	181.2	232.9	277.9	278.4	284.0	277.9
82.5°	119.5	112.4	115.9	120.0	136.2	147.8	192.4	240.4	221.7	157.4	154.9
85°	75.4	67.3	76.4	90.1	99.7	107.3	146.8	181.2	157.9	69.4	61.8
87.5°	30.4	30.4	35.4	47.6	43.0	46.6	78.5	102.8	84.0	27.8	14.7
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: SP2-2501-321-3

Test Date: 04/09/2025

Luminaire Tested: GKO-PB1E-727-U-T4W

Data in this report applies to families of products including GKO-PB1E-727-U-T4W

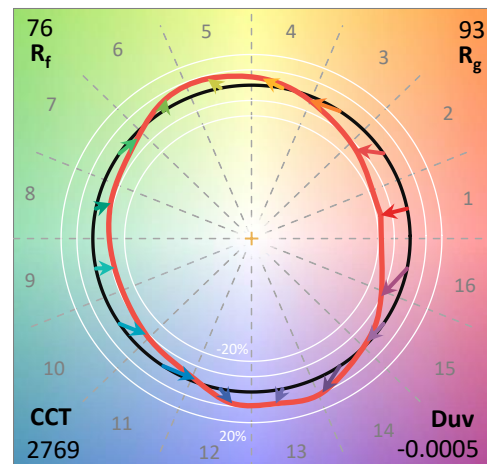
Test Information

Test Method: LM-79-2019
 Report Number: SP2-2501-321-3
 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-727-U-T4W**
 Description: Gekko Wedge Wall Pack Fixture 1 SQ w/ T4W distribution

Spectral Parameters

CCT (K): 2769
 CIE u' : 0.2596
 CIE v' : 0.5253
 Duv: -0.0005
 CIE x: 0.4535
 CIE y: 0.4078
 CIE z: 0.1387
 Peak Wavelength (nm): 597
 Dominant Wavelength (nm): 584
 Purity: 58.54014
 R_f: 75.7
 R_g: 93.2

CRI (Ra): 71.7
 R1: 68.0
 R2: 84.0
 R3: 94.6
 R4: 65.9
 R5: 67.3
 R6: 78.7
 R7: 75.2
 R8: 39.8
 R9: -34.5
 R10: 64.3
 R11: 60.9
 R12: 54.4
 R13: 71.2
 R14: 97.6
 R15: 59.5



Test Conditions

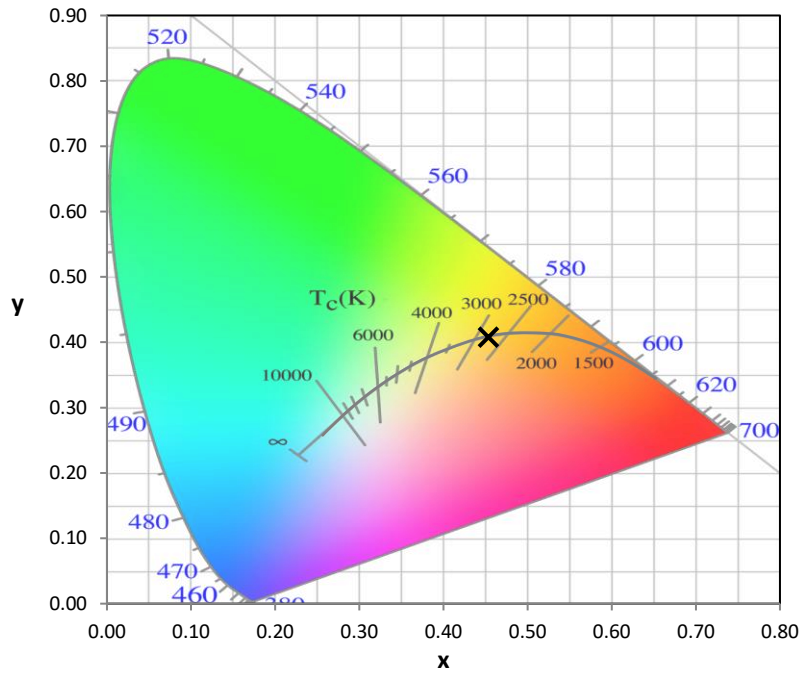
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.0

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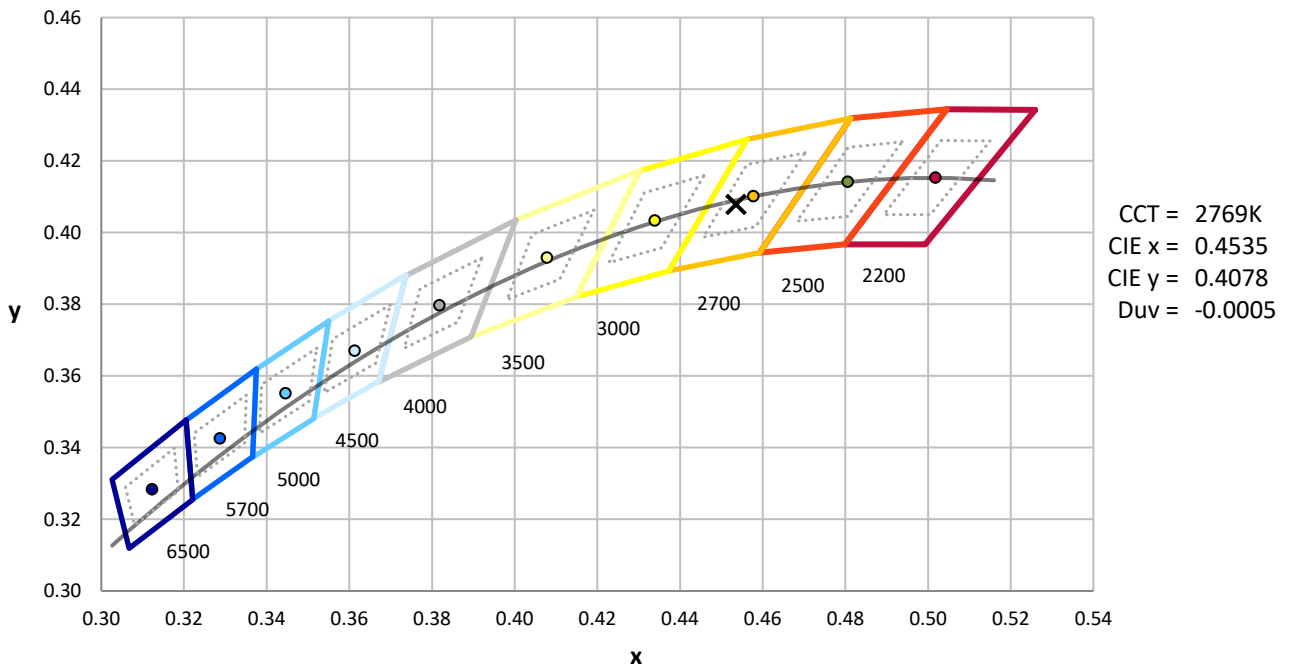
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN2187	1/6/2025	7/6/2025
Power Meter	INXT2011002	1/21/2025	1/21/2026
AC Power Source	IN0458	10/22/2024	10/22/2025
DC Power Source	IN0212	10/22/2024	10/22/2025
Sphere Thermometer	IN4036B	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 2700K 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	844	NR	750	22	NR	880	1	NR
365	0	NR	495	138	NR	625	785	NR	755	19	NR	885	1	NR
370	0	NR	500	176	NR	630	722	NR	760	16	NR	890	1	NR
375	0	NR	505	222	NR	635	655	NR	765	14	NR	895	0	NR
380	0	NR	510	268	NR	640	591	NR	770	12	NR	900	0	NR
385	0	NR	515	311	NR	645	527	NR	775	10	NR	905	0	NR
390	0	NR	520	348	NR	650	467	NR	780	9	NR	910	0	NR
395	0	NR	525	381	NR	655	412	NR	785	8	NR	915	0	NR
400	2	NR	530	410	NR	660	360	NR	790	7	NR	920	0	NR
405	4	NR	535	438	NR	665	314	NR	795	6	NR	925	0	NR
410	7	NR	540	469	NR	670	272	NR	800	5	NR	930	0	NR
415	13	NR	545	503	NR	675	236	NR	805	4	NR	935	0	NR
420	25	NR	550	544	NR	680	203	NR	810	4	NR	940	0	NR
425	46	NR	555	594	NR	685	175	NR	815	3	NR	945	0	NR
430	79	NR	560	652	NR	690	149	NR	820	3	NR	950	0	NR
435	128	NR	565	714	NR	695	128	NR	825	2	NR	955	0	NR
440	196	NR	570	783	NR	700	109	NR	830	2	NR	960	0	NR
445	299	NR	575	847	NR	705	93	NR	835	2	NR	965	0	NR
450	433	NR	580	906	NR	710	80	NR	840	2	NR	970	0	NR
455	433	NR	585	953	NR	715	68	NR	845	1	NR	975	0	NR
460	293	NR	590	985	NR	720	58	NR	850	1	NR	980	0	NR
465	215	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	173	NR	600	997	NR	730	42	NR	860	1	NR	990	0	NR
475	127	NR	605	978	NR	735	36	NR	865	1	NR	995	0	NR
480	104	NR	610	945	NR	740	30	NR	870	1	NR	1000	0	NR
485	104	NR	615	902	NR	745	26	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



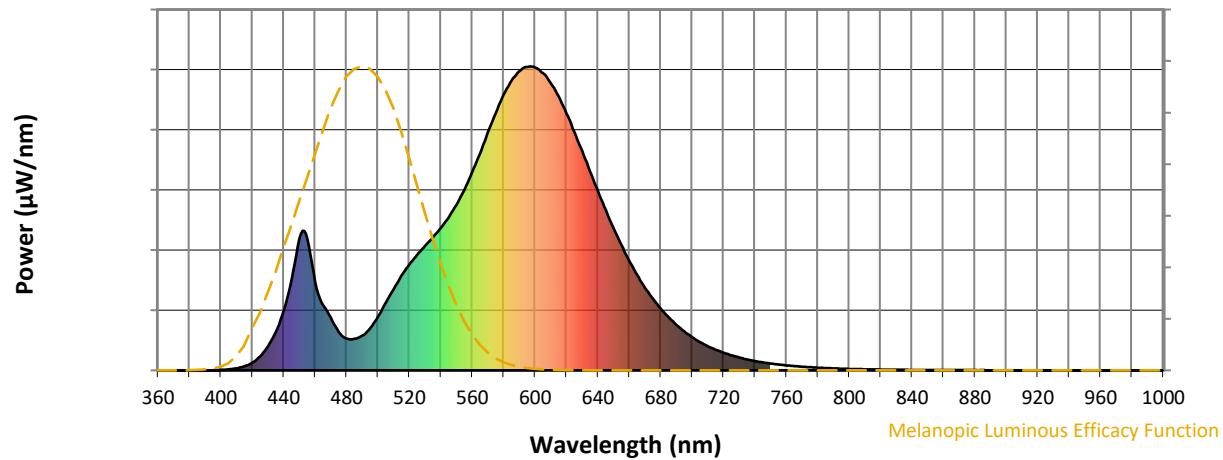
Scotopic Lumens: NR

S/P: 1.14

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	114	NR	620	844	NR	750	22	NR	880	1	NR
365	0	NR	495	138	NR	625	785	NR	755	19	NR	885	1	NR
370	0	NR	500	176	NR	630	722	NR	760	16	NR	890	1	NR
375	0	NR	505	222	NR	635	655	NR	765	14	NR	895	0	NR
380	0	NR	510	268	NR	640	591	NR	770	12	NR	900	0	NR
385	0	NR	515	311	NR	645	527	NR	775	10	NR	905	0	NR
390	0	NR	520	348	NR	650	467	NR	780	9	NR	910	0	NR
395	0	NR	525	381	NR	655	412	NR	785	8	NR	915	0	NR
400	2	NR	530	410	NR	660	360	NR	790	7	NR	920	0	NR
405	4	NR	535	438	NR	665	314	NR	795	6	NR	925	0	NR
410	7	NR	540	469	NR	670	272	NR	800	5	NR	930	0	NR
415	13	NR	545	503	NR	675	236	NR	805	4	NR	935	0	NR
420	25	NR	550	544	NR	680	203	NR	810	4	NR	940	0	NR
425	46	NR	555	594	NR	685	175	NR	815	3	NR	945	0	NR
430	79	NR	560	652	NR	690	149	NR	820	3	NR	950	0	NR
435	128	NR	565	714	NR	695	128	NR	825	2	NR	955	0	NR
440	196	NR	570	783	NR	700	109	NR	830	2	NR	960	0	NR
445	299	NR	575	847	NR	705	93	NR	835	2	NR	965	0	NR
450	433	NR	580	906	NR	710	80	NR	840	2	NR	970	0	NR
455	433	NR	585	953	NR	715	68	NR	845	1	NR	975	0	NR
460	293	NR	590	985	NR	720	58	NR	850	1	NR	980	0	NR
465	215	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	173	NR	600	997	NR	730	42	NR	860	1	NR	990	0	NR
475	127	NR	605	978	NR	735	36	NR	865	1	NR	995	0	NR
480	104	NR	610	945	NR	740	30	NR	870	1	NR	1000	0	NR
485	104	NR	615	902	NR	745	26	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.08

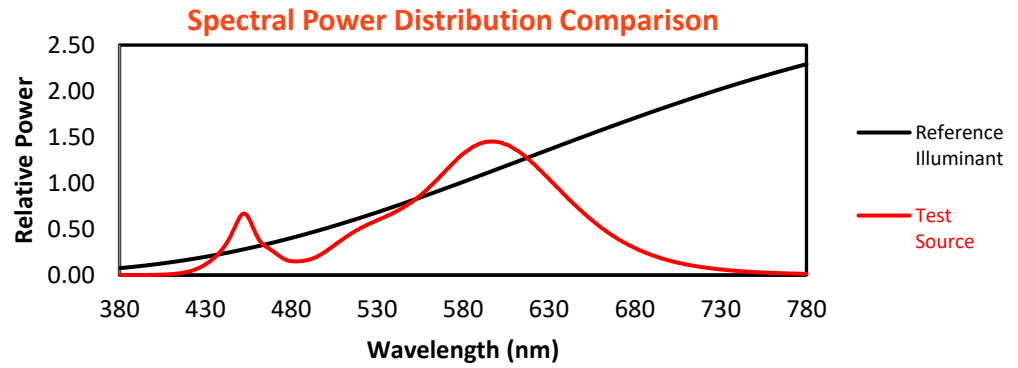
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	114	NR	620	844	NR	750	22	NR	880	1	NR
365	0	NR	495	138	NR	625	785	NR	755	19	NR	885	1	NR
370	0	NR	500	176	NR	630	722	NR	760	16	NR	890	1	NR
375	0	NR	505	222	NR	635	655	NR	765	14	NR	895	0	NR
380	0	NR	510	268	NR	640	591	NR	770	12	NR	900	0	NR
385	0	NR	515	311	NR	645	527	NR	775	10	NR	905	0	NR
390	0	NR	520	348	NR	650	467	NR	780	9	NR	910	0	NR
395	0	NR	525	381	NR	655	412	NR	785	8	NR	915	0	NR
400	2	NR	530	410	NR	660	360	NR	790	7	NR	920	0	NR
405	4	NR	535	438	NR	665	314	NR	795	6	NR	925	0	NR
410	7	NR	540	469	NR	670	272	NR	800	5	NR	930	0	NR
415	13	NR	545	503	NR	675	236	NR	805	4	NR	935	0	NR
420	25	NR	550	544	NR	680	203	NR	810	4	NR	940	0	NR
425	46	NR	555	594	NR	685	175	NR	815	3	NR	945	0	NR
430	79	NR	560	652	NR	690	149	NR	820	3	NR	950	0	NR
435	128	NR	565	714	NR	695	128	NR	825	2	NR	955	0	NR
440	196	NR	570	783	NR	700	109	NR	830	2	NR	960	0	NR
445	299	NR	575	847	NR	705	93	NR	835	2	NR	965	0	NR
450	433	NR	580	906	NR	710	80	NR	840	2	NR	970	0	NR
455	433	NR	585	953	NR	715	68	NR	845	1	NR	975	0	NR
460	293	NR	590	985	NR	720	58	NR	850	1	NR	980	0	NR
465	215	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	173	NR	600	997	NR	730	42	NR	860	1	NR	990	0	NR
475	127	NR	605	978	NR	735	36	NR	865	1	NR	995	0	NR
480	104	NR	610	945	NR	740	30	NR	870	1	NR	1000	0	NR
485	104	NR	615	902	NR	745	26	NR	875	1	NR			

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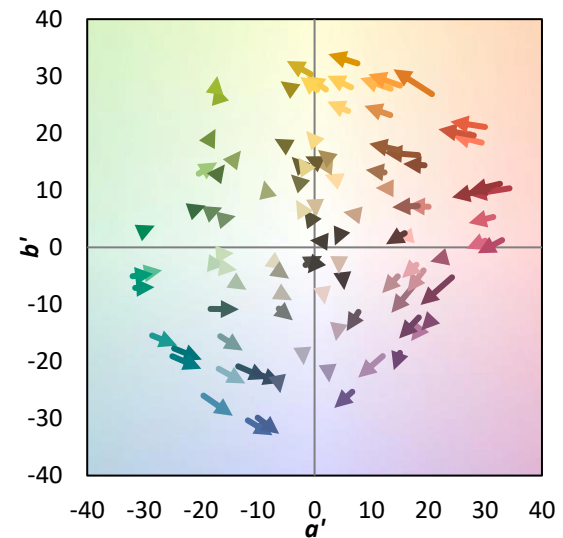
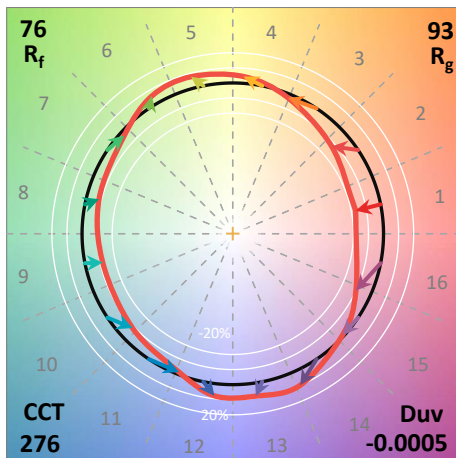
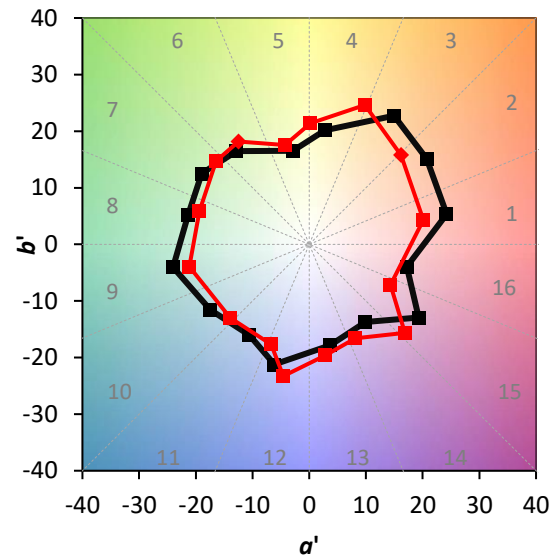
TM-30-18

Summary

$R_f = 75.7$
 $R_g = 93.2$
 $CIE R_a = 71.7$
 $R_g = -34.5$

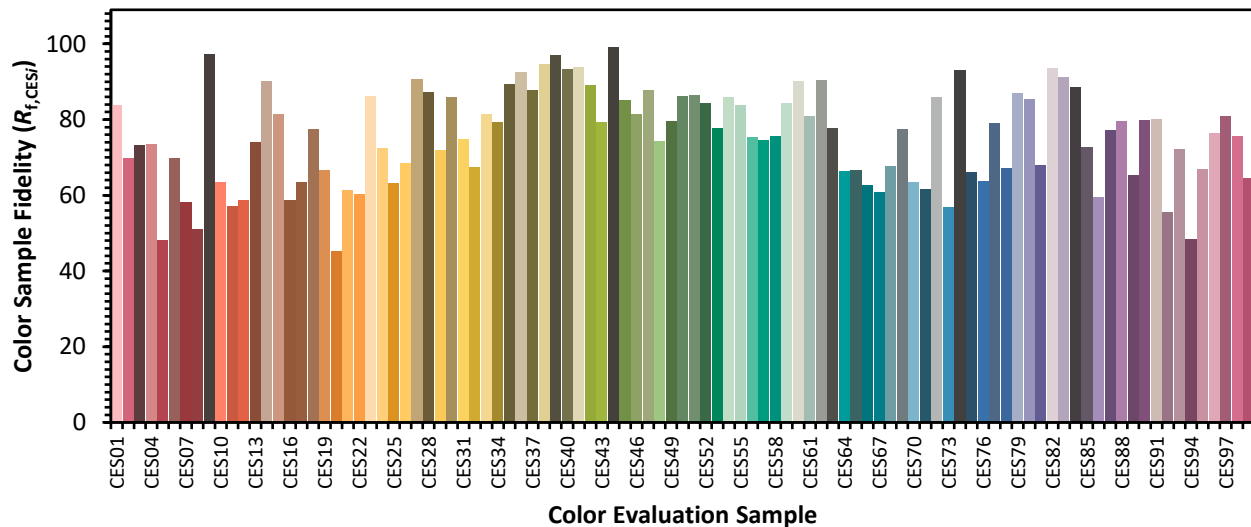


Color Vector Graphics

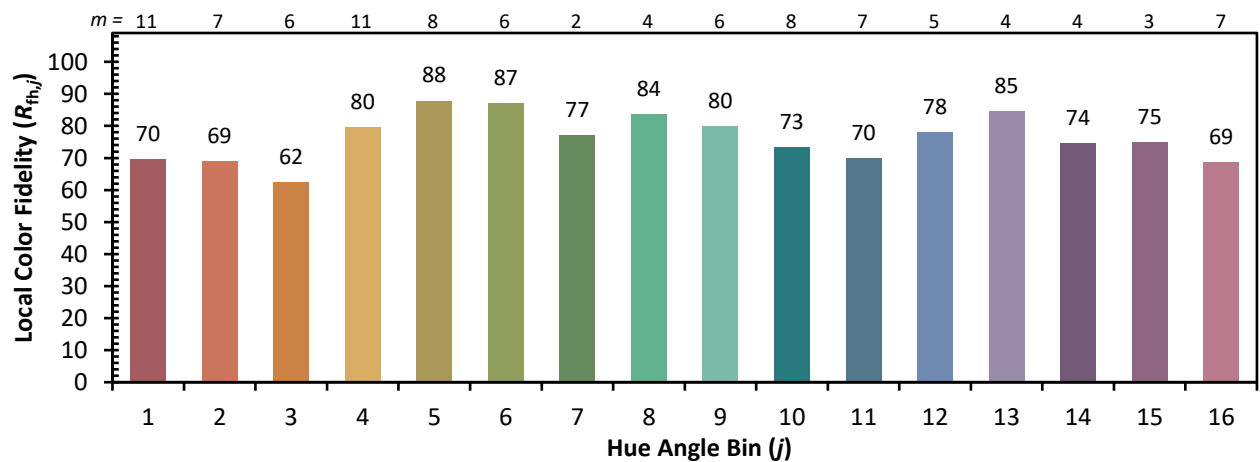
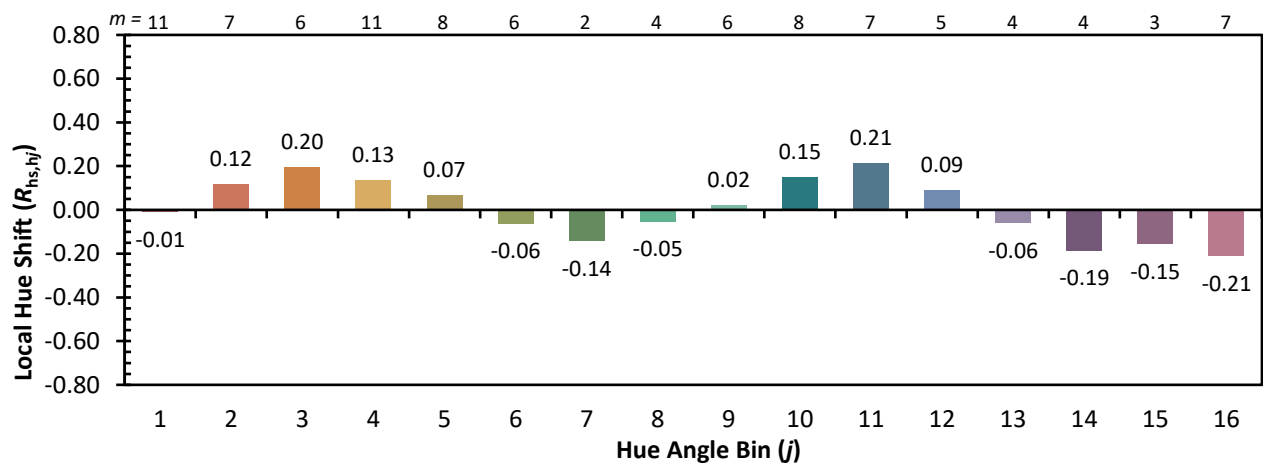


Individual Sample Fidelity Index ($R_{f,i}$)

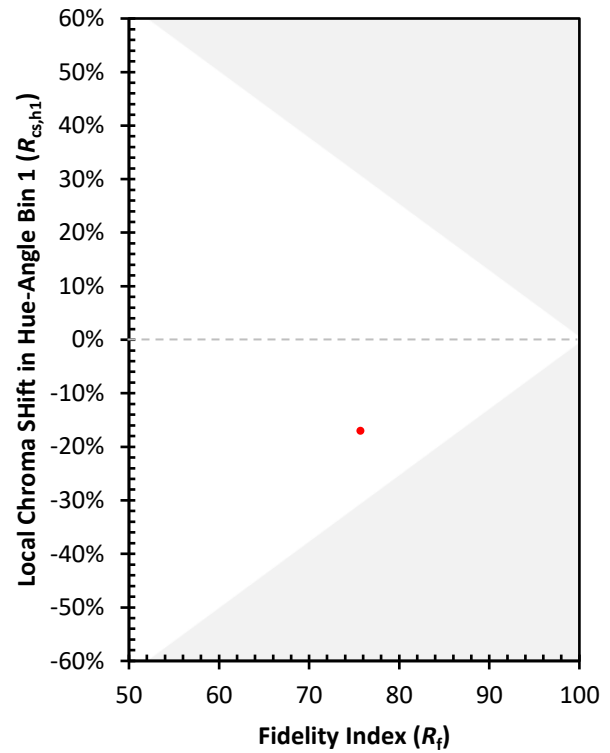
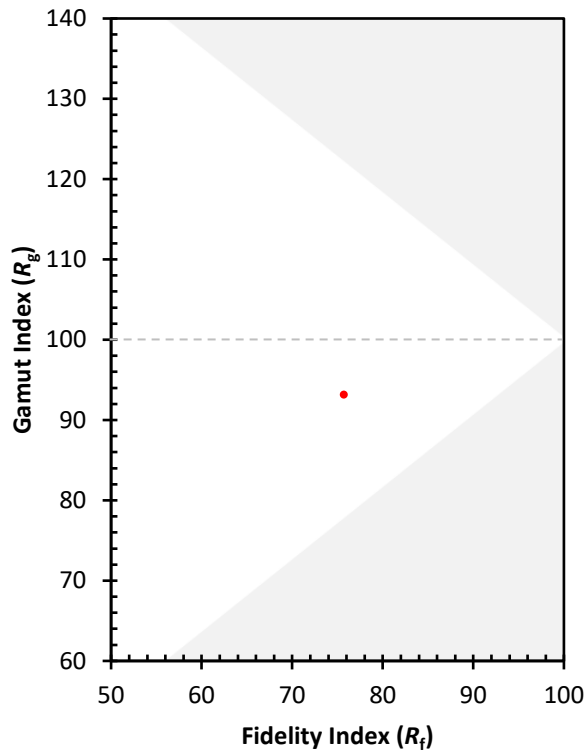
CES01 = 86	CES26 = 68	CES51 = 87	CES76 = 64
CES02 = 63	CES27 = 91	CES52 = 84	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 78	CES78 = 67
CES04 = 71	CES29 = 72	CES54 = 86	CES79 = 87
CES05 = 50	CES30 = 86	CES55 = 84	CES80 = 85
CES06 = 52	CES31 = 75	CES56 = 75	CES81 = 68
CES07 = 42	CES32 = 67	CES57 = 74	CES82 = 94
CES08 = 41	CES33 = 81	CES58 = 76	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 84	CES84 = 89
CES10 = 77	CES35 = 89	CES60 = 90	CES85 = 73
CES11 = 60	CES36 = 92	CES61 = 81	CES86 = 59
CES12 = 66	CES37 = 88	CES62 = 90	CES87 = 77
CES13 = 43	CES38 = 95	CES63 = 78	CES88 = 79
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 65
CES15 = 72	CES40 = 93	CES65 = 67	CES90 = 80
CES16 = 48	CES41 = 94	CES66 = 63	CES91 = 80
CES17 = 50	CES42 = 89	CES67 = 61	CES92 = 55
CES18 = 57	CES43 = 79	CES68 = 68	CES93 = 72
CES19 = 73	CES44 = 99	CES69 = 77	CES94 = 48
CES20 = 67	CES45 = 85	CES70 = 63	CES95 = 67
CES21 = 87	CES46 = 81	CES71 = 62	CES96 = 76
CES22 = 80	CES47 = 88	CES72 = 86	CES97 = 81
CES23 = 92	CES48 = 74	CES73 = 57	CES98 = 76
CES24 = 91	CES49 = 80	CES74 = 93	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)