

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

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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: P1461852

Luminaire Tested: USSL-150-722-U-T4RE

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461852
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-150-722-U-T4RE
Description: USSL DISCRETE LED 1 SQUARE 150W 70CRI 2200K FIXTURE w/ TYPE IV ROADWAY
ILLUMINANCE DISTRIBUTION OPTIC
Light Source: (40) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17888.3 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 152
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.75%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

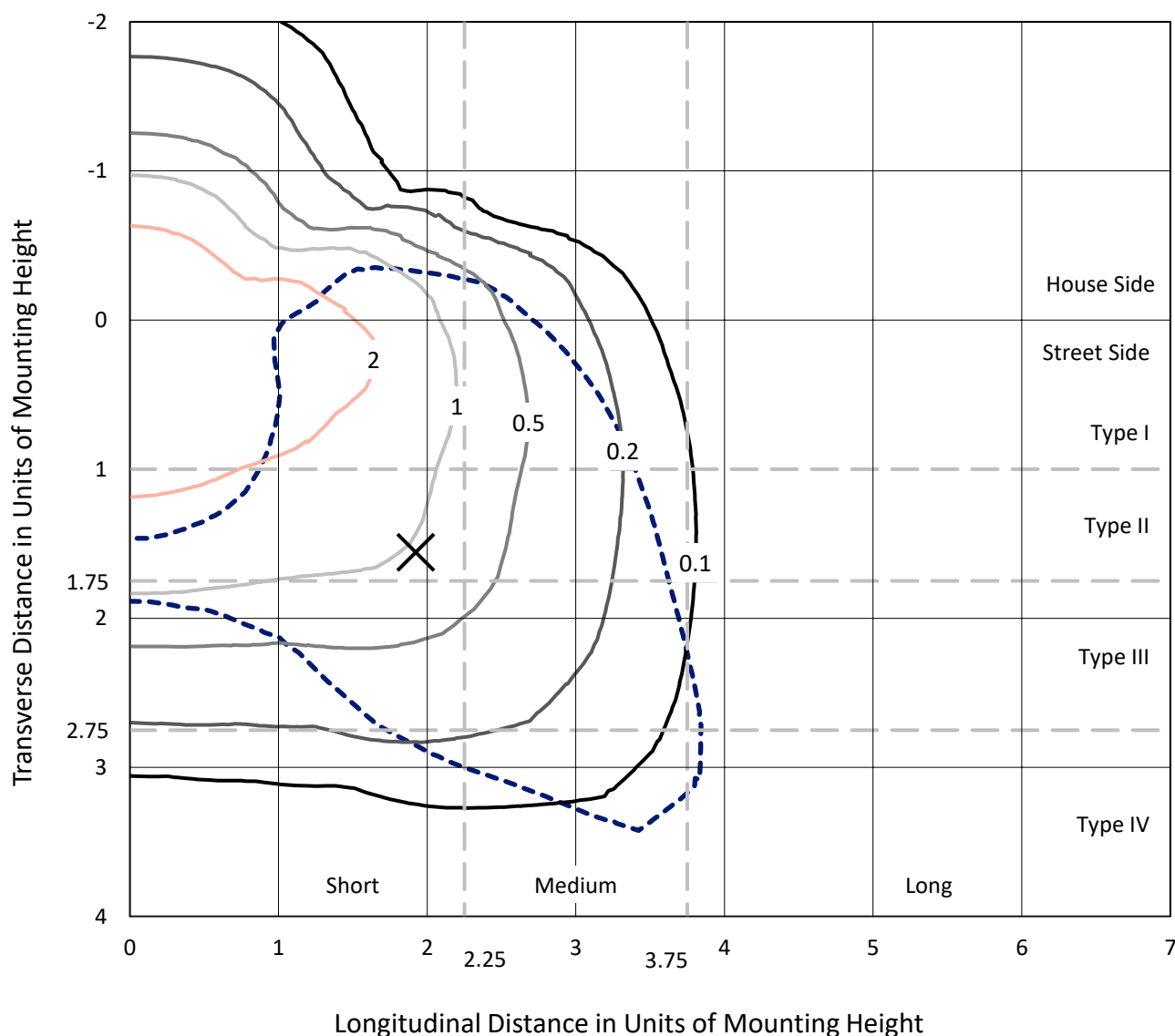
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



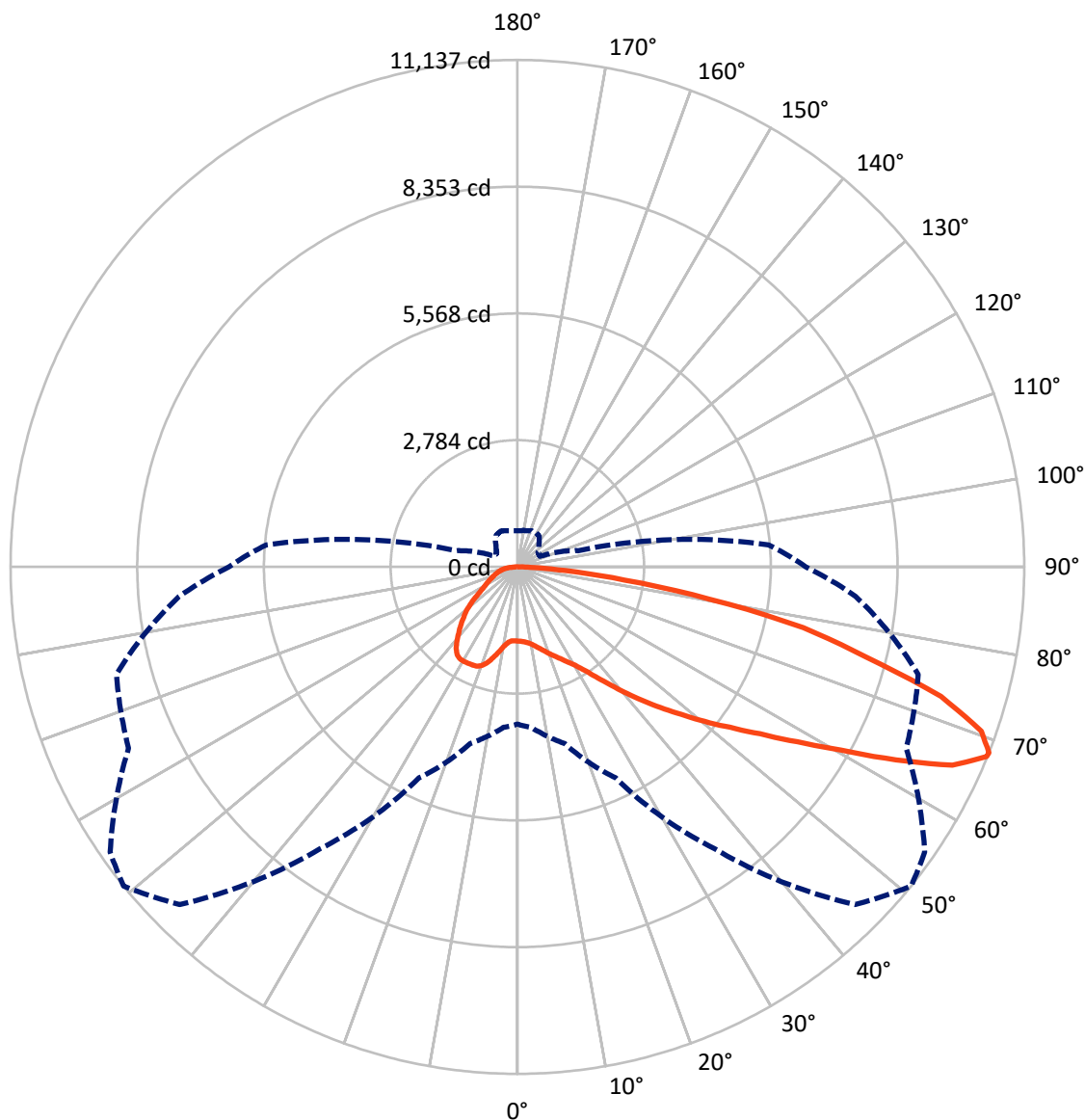
Based on 25 foot mounting height. Maximum calculated value = 3.3 fc

Type IV - Short - N/A

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CATALOG NUMBER: USSL-150-722-U-T4RE

Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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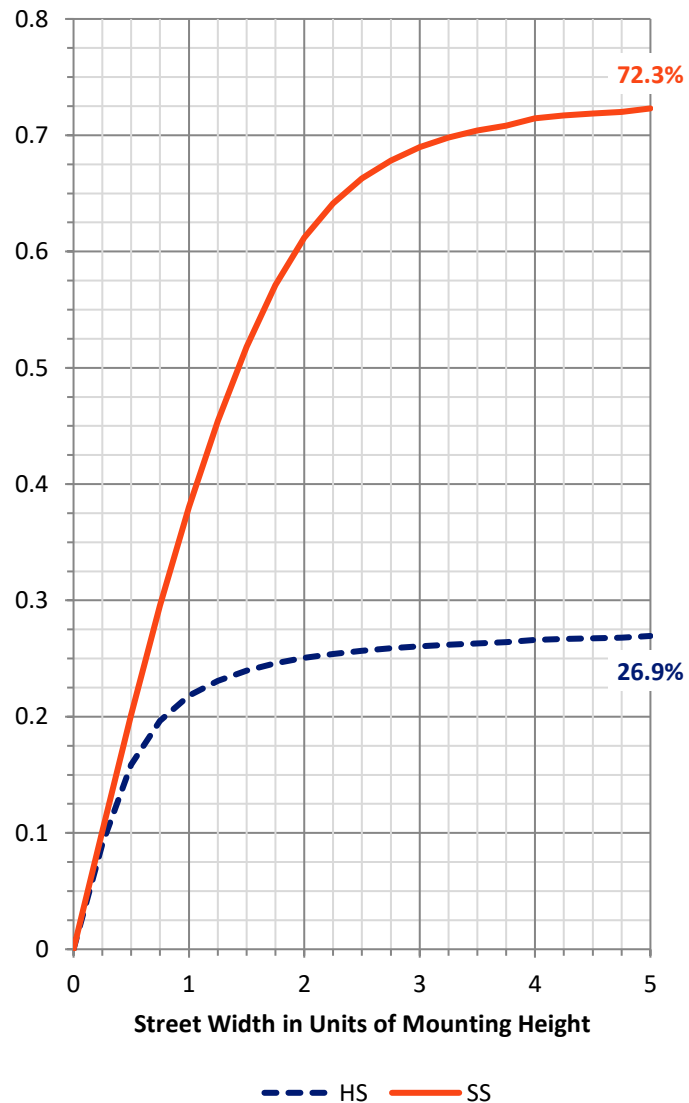
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4890.3	0.0	4890.3
	% Fixture	27.3	0.0	27.3
Street Side	Lumens	12998.0	0.0	12998.0
	% Fixture	72.7	0.0	72.7
Total	Lumens	17888.3	0.0	17888.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.1	0.9
10°-20°	562.1	3.1
20°-30°	1082.8	6.1
30°-40°	1732.8	9.7
40°-50°	2709.1	15.1
50°-60°	3901.7	21.8
60°-70°	4671.6	26.1
70°-80°	2665.8	14.9
80°-90°	401.2	2.2
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°	17888.3	100.0
0°-180°	17888.3	100.0

Coefficient of Utilization



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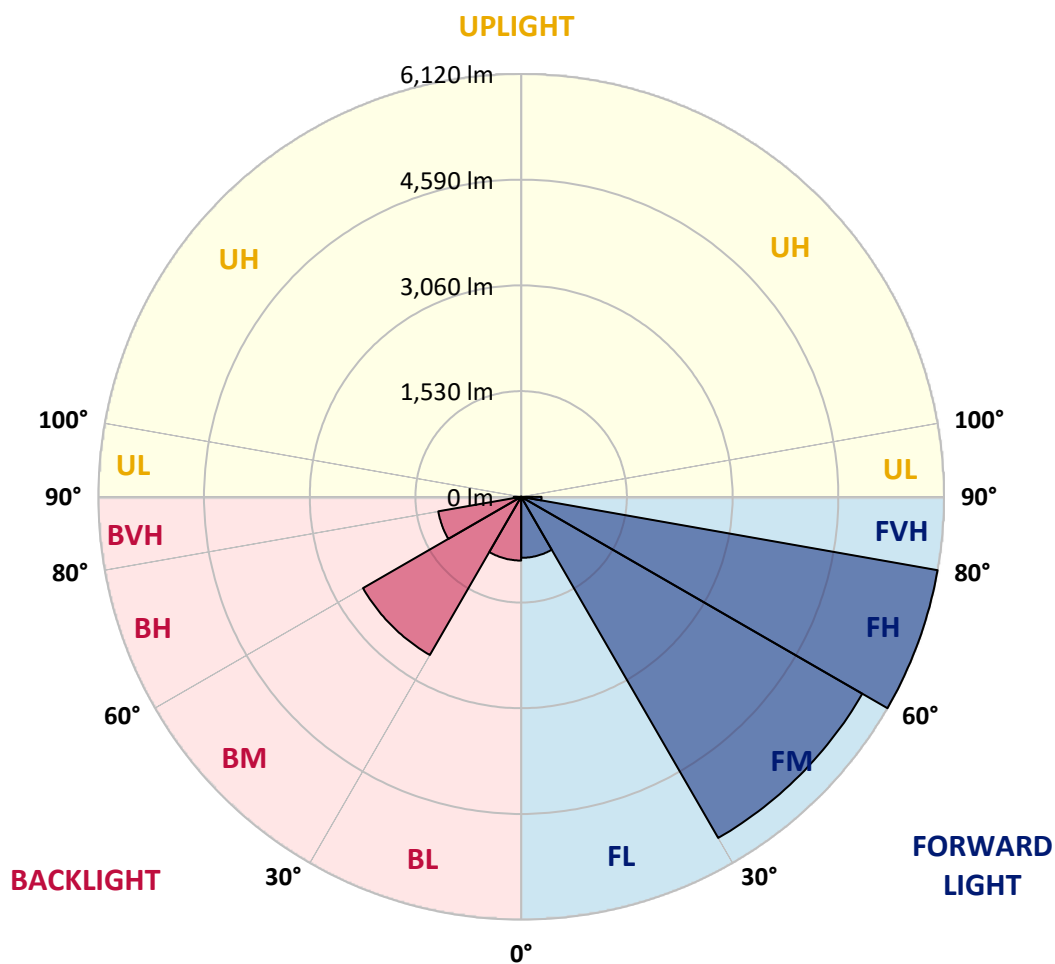
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	883.4	4.9			
FM	(30°-60°)	5700.6	31.9			
FH	(60°-80°)	6119.6	34.2			G3/7500
FVH	(80°-90°)	294.5	1.6			G3/500
BL	(0°-30°)	922.6	5.2	B2/1000		
BM	(30°-60°)	2643.1	14.8	B3/5000		
BH	(60°-80°)	1217.8	6.8	B3/2500		G3/2500
BVH	(80°-90°)	106.7	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1629.0	1629.0	1629.0	1629.0	1629.0	1629.0	1629.0	1629.0	1629.0	1629.0	1629.0
2.5°	1646.5	1645.7	1642.4	1647.4	1642.4	1641.5	1637.4	1639.9	1633.2	1634.0	1634.0
5°	1675.7	1674.0	1673.2	1670.7	1664.9	1664.0	1655.7	1659.9	1654.0	1649.9	1644.9
7.5°	1725.7	1722.4	1716.5	1710.7	1700.7	1689.9	1683.2	1687.4	1679.9	1674.9	1668.2
10°	1803.2	1799.9	1789.9	1779.0	1762.4	1741.5	1727.4	1724.9	1716.5	1709.0	1701.5
12.5°	1890.7	1887.4	1880.7	1868.2	1839.9	1810.7	1789.0	1783.2	1763.2	1752.4	1749.9
15°	1970.7	1964.9	1964.9	1948.2	1924.9	1890.7	1864.0	1854.9	1820.7	1809.9	1809.0
17.5°	2033.2	2027.3	2026.5	2021.5	1999.0	1968.2	1944.9	1935.7	1903.2	1884.0	1887.4
20°	2108.2	2102.3	2100.7	2097.3	2084.0	2055.7	2039.8	2032.3	1992.3	1966.5	1979.9
22.5°	2216.5	2212.3	2204.8	2189.8	2171.5	2154.0	2134.0	2131.5	2099.0	2077.3	2104.0
25°	2344.0	2334.0	2330.7	2306.5	2283.2	2258.2	2241.5	2244.8	2214.8	2196.5	2231.5
27.5°	2503.1	2491.5	2480.6	2456.5	2412.3	2388.2	2369.0	2372.3	2343.2	2342.3	2409.0
30°	2682.3	2679.0	2659.0	2624.0	2569.0	2539.0	2509.8	2516.5	2501.5	2511.5	2623.1
32.5°	2884.8	2885.6	2859.8	2819.8	2763.1	2724.8	2703.1	2706.5	2716.5	2763.1	2897.3
35°	3143.1	3128.1	3128.9	3083.1	2999.8	2966.4	2958.1	2963.1	2998.1	3154.8	3319.7
37.5°	3428.1	3415.6	3415.6	3381.4	3301.4	3244.8	3261.4	3275.6	3396.4	3688.9	3863.9
40°	3734.7	3717.2	3745.5	3733.9	3640.6	3621.4	3612.2	3662.2	3882.2	4285.5	4523.0
42.5°	3963.0	3965.5	3982.2	3999.7	3952.2	3976.4	3998.9	4056.4	4378.0	4940.5	5179.6
45°	4178.0	4179.7	4193.8	4220.5	4238.8	4305.5	4406.3	4488.8	4928.0	5512.9	5767.9
47.5°	4408.0	4399.7	4423.0	4488.8	4514.7	4688.0	4837.1	4981.3	5415.4	6081.2	6319.5
50°	4654.6	4655.5	4680.5	4767.1	4848.0	5113.8	5337.9	5497.1	5947.0	6649.5	6824.5
52.5°	5024.6	4993.0	5017.1	5080.4	5212.9	5571.2	5855.4	6040.4	6479.5	7187.8	7375.3
55°	5437.9	5443.8	5479.6	5522.9	5704.6	6154.5	6470.3	6681.2	7058.6	7837.7	8016.9
57.5°	5834.6	5803.7	5902.9	6042.9	6252.9	6881.1	7250.3	7415.3	7689.4	8616.0	8726.0
60°	5936.2	5943.7	6115.4	6475.3	6934.5	7812.7	8165.2	8247.7	8496.0	9600.1	9325.1
62.5°	5479.6	5502.1	5894.6	6612.8	7559.4	8890.2	9335.1	9340.1	9375.1	10067.6	9356.8
65°	4473.0	4519.7	5048.8	6118.7	7839.4	9947.6	10501.7	10460.9	9750.9	9892.6	8778.5
67.5°	3621.4	3681.4	4168.0	5322.1	7625.3	10481.7	11123.3	10915.8	9532.6	9313.5	7713.6
68°	3454.7	3538.1	4016.4	5113.8	7557.8	10490.0	11136.7	10924.2	9426.0	9119.3	7460.3
70°	2874.8	2963.1	3420.6	4548.0	7280.3	10206.7	10814.2	10639.2	8851.0	8196.0	6456.2
72.5°	1803.2	1856.5	2402.3	3622.2	6634.5	9168.5	9730.9	9687.6	7923.6	6701.2	4893.8
75°	774.1	799.9	1192.4	2185.7	5112.9	7742.7	7906.1	7935.2	6282.9	4743.0	3099.8
77.5°	507.5	508.3	551.6	966.6	3094.8	6212.0	6422.8	5937.9	4213.0	2526.5	1450.7
80°	426.6	425.0	422.5	463.3	1369.9	4175.5	4280.5	3798.9	2143.2	1024.9	499.1
82.5°	360.8	352.5	335.0	347.5	534.1	2133.2	2370.7	2084.0	984.1	370.0	224.1
85°	253.3	244.1	220.8	239.1	270.0	928.3	1056.6	918.3	349.1	215.8	132.5
87.5°	109.2	91.7	95.0	112.5	120.8	276.6	290.0	204.2	119.2	89.2	53.3
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1629.0	1629.0	1629.0	1629.0	1629.0	1629.0	1629.0	1629.0	1629.0	1629.0	1629.0
2.5°	1630.7	1630.7	1628.2	1627.4	1624.0	1624.0	1619.9	1619.9	1620.7	1617.4	1618.2
5°	1643.2	1640.7	1638.2	1634.0	1631.5	1631.5	1634.0	1637.4	1639.9	1640.7	1639.9
7.5°	1664.0	1664.0	1662.4	1661.5	1668.2	1681.5	1698.2	1707.4	1726.5	1732.4	1739.0
10°	1701.5	1700.7	1704.9	1721.5	1749.9	1784.9	1815.7	1842.4	1870.7	1874.9	1881.5
12.5°	1744.9	1754.9	1777.4	1819.9	1876.5	1923.2	1969.0	2011.5	2036.5	2053.2	2049.0
15°	1813.2	1829.9	1880.7	1955.7	2012.3	2076.5	2126.5	2163.2	2189.0	2198.2	2206.5
17.5°	1903.2	1932.4	2011.5	2098.2	2164.0	2212.3	2248.2	2258.2	2269.8	2274.8	2278.2
20°	2011.5	2068.2	2167.3	2244.8	2289.0	2302.3	2309.0	2305.7	2311.5	2319.0	2323.2
22.5°	2146.5	2221.5	2332.3	2370.7	2361.5	2341.5	2338.2	2343.2	2357.3	2361.5	2368.2
25°	2307.3	2379.8	2481.5	2452.3	2380.7	2354.8	2377.3	2379.8	2381.5	2379.8	2385.7
27.5°	2494.8	2567.3	2599.0	2466.5	2372.3	2384.0	2403.2	2376.5	2343.2	2320.7	2327.3
30°	2700.6	2753.1	2673.1	2443.1	2375.7	2399.8	2369.8	2283.2	2229.0	2199.0	2203.2
32.5°	2965.6	2963.1	2705.6	2431.5	2397.3	2360.7	2248.2	2149.8	2086.5	2050.7	2052.3
35°	3302.2	3204.8	2731.5	2464.8	2392.3	2255.7	2124.0	2018.2	1968.2	1939.0	1942.4
37.5°	3750.5	3479.7	2789.0	2513.1	2309.0	2123.2	1994.8	1931.5	1905.7	1884.9	1889.9
40°	4336.3	3858.9	2960.6	2524.0	2154.0	1970.7	1919.0	1887.4	1862.4	1839.0	1847.4
42.5°	4833.8	4246.3	3295.6	2447.3	1960.7	1850.7	1869.0	1844.9	1806.5	1764.9	1769.0
45°	5329.6	4591.3	3691.4	2280.7	1762.4	1761.5	1804.0	1768.2	1714.9	1650.7	1652.4
47.5°	5747.1	4929.6	4090.5	2077.3	1581.5	1648.2	1701.5	1654.0	1565.7	1485.7	1478.2
50°	6129.5	5313.8	4423.8	1848.2	1427.4	1508.2	1536.6	1456.6	1386.6	1340.7	1336.6
52.5°	6539.5	5770.4	4690.5	1645.7	1260.7	1314.1	1338.2	1313.2	1283.2	1255.7	1249.9
55°	7067.0	6366.2	4968.8	1503.2	1083.3	1133.2	1182.4	1224.9	1206.6	1192.4	1184.1
57.5°	7689.4	7124.5	5055.5	1319.9	925.8	975.8	1099.1	1164.1	1149.9	1139.9	1136.6
60°	8157.7	7667.8	4568.0	1025.8	797.4	874.9	1046.6	1119.9	1090.8	1064.9	1057.4
62.5°	8140.2	7526.9	3552.2	778.3	711.6	807.4	993.3	1051.6	1007.4	984.1	974.1
65°	7530.3	6867.0	2501.5	645.0	635.0	742.4	921.6	966.6	925.8	898.3	893.3
67.5°	6576.2	5850.4	1553.2	560.0	568.3	674.9	845.8	888.3	839.9	814.9	816.6
68°	6337.0	5540.4	1379.9	542.5	553.3	664.9	829.9	866.6	822.4	799.1	797.4
70°	5415.4	4576.3	911.6	494.1	507.5	617.5	770.8	797.4	760.8	741.6	737.4
72.5°	4000.5	3103.1	525.8	436.6	455.0	558.3	690.8	718.3	711.6	716.6	724.9
75°	2474.0	1791.5	388.3	385.8	405.0	510.0	625.8	676.6	691.6	714.9	720.8
77.5°	1180.7	864.1	320.8	333.3	357.5	449.1	569.1	649.1	650.8	654.1	658.3
80°	389.1	330.0	270.8	274.1	309.1	395.0	515.0	573.3	534.1	524.1	511.6
82.5°	205.8	212.5	218.3	220.8	257.5	325.8	404.1	424.1	390.0	274.1	270.8
85°	120.0	126.7	140.0	151.7	176.7	225.0	291.6	292.5	248.3	122.5	107.5
87.5°	40.0	48.3	47.5	56.7	66.7	90.0	123.3	127.5	102.5	42.5	24.2
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: SP2-2501-321-2

Test Date: 04/09/2025

Luminaire Tested: GKO-PB1E-722-U-T4W

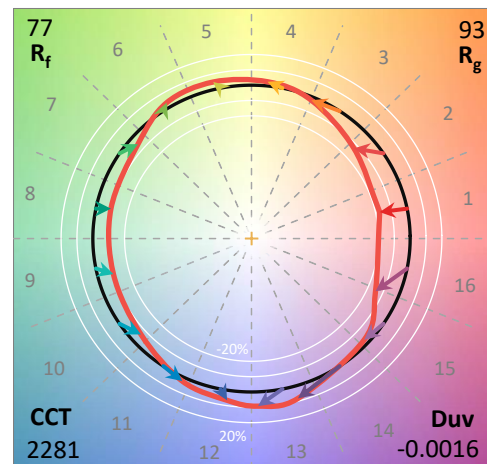
Data in this report applies to families of products including GKO-PB1E-722-U-T4W

Test Information

Test Method: LM-79-2019
 Report Number: SP2-2501-321-2
 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-722-U-T4W**
 Description: Gekko Wedge Wall Pack Fixture 1 SQ w/ T4W distribution

Spectral Parameters

CCT (K):	2281	CRI (Ra):	70.6		
CIE u':	0.2851	R1:	68.4	R9:	-35.1
CIE v':	0.5324	R2:	88.7	R10:	78.0
Duv:	-0.0016	R3:	85.7	R11:	60.2
CIE x:	0.4942	R4:	63.2	R12:	73.8
CIE y:	0.4102	R5:	69.0	R13:	72.8
CIE z:	0.0956	R6:	88.6	R14:	92.4
Peak Wavelength (nm):	602	R7:	68.8	R15:	58.4
Dominant Wavelength (nm):	587	R8:	32.6		
Purity:	71.48321				
Rf:	76.9				
Rg:	92.6				



Test Conditions

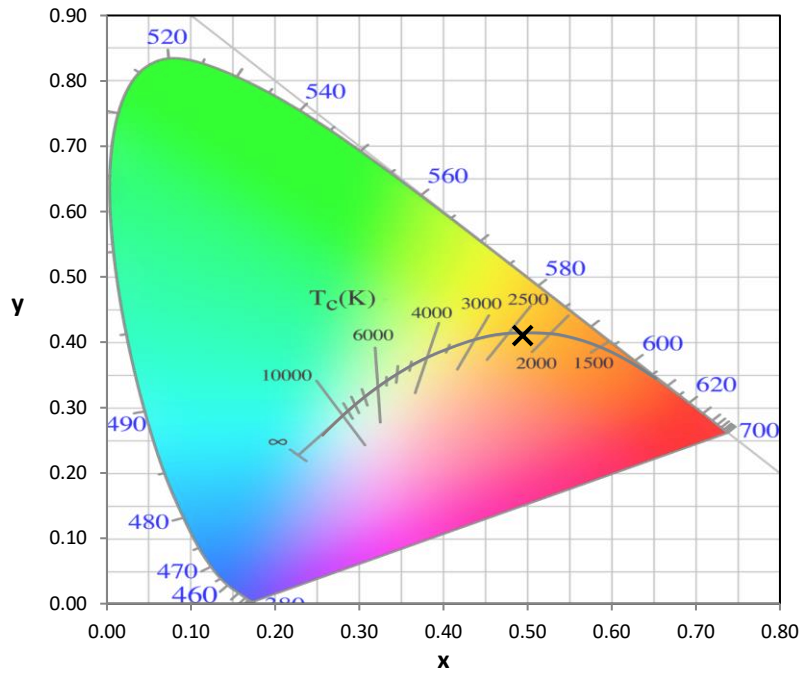
Stabilization Time: 40M
 Operation Time: 1H 40M
 Sphere Temperature (°C): 25.0

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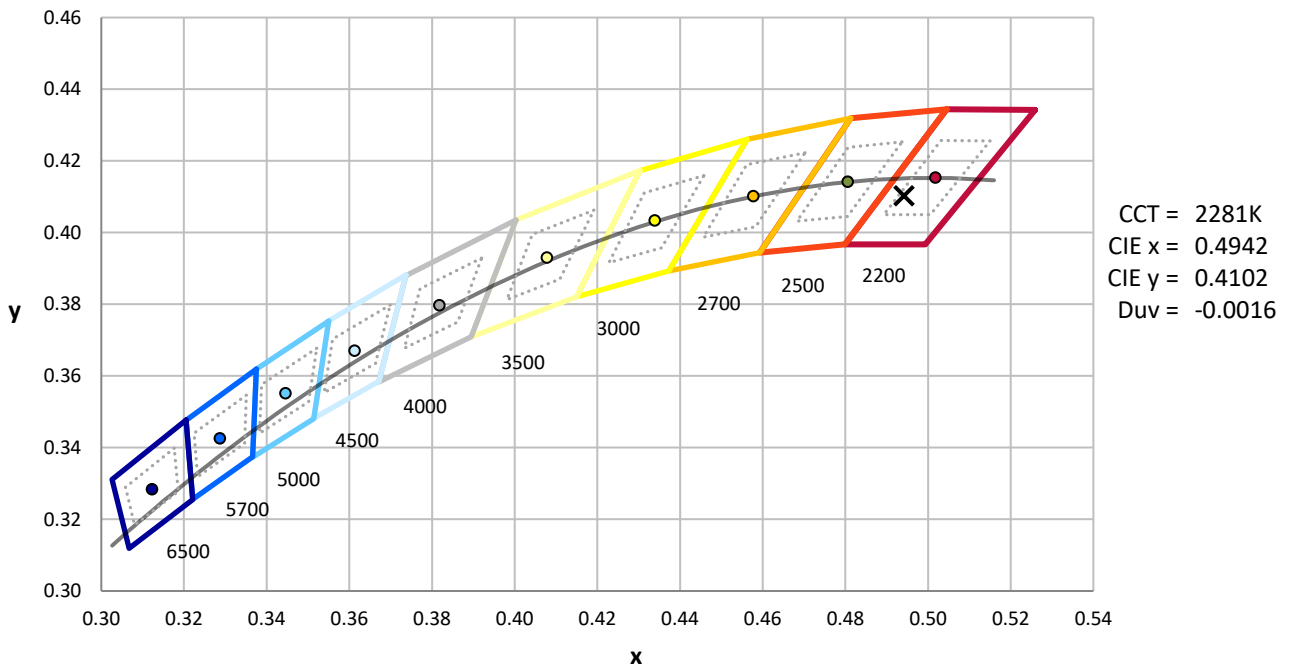
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN2187	1/6/2025	7/6/2025
Power Meter	INXT2011002	1/21/2025	1/21/2026
AC Power Source	IN0458	10/22/2024	10/22/2025
DC Power Source	IN0212	10/22/2024	10/22/2025
Sphere Thermometer	IN4036B	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

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CIE 1931 Chromaticity Diagram



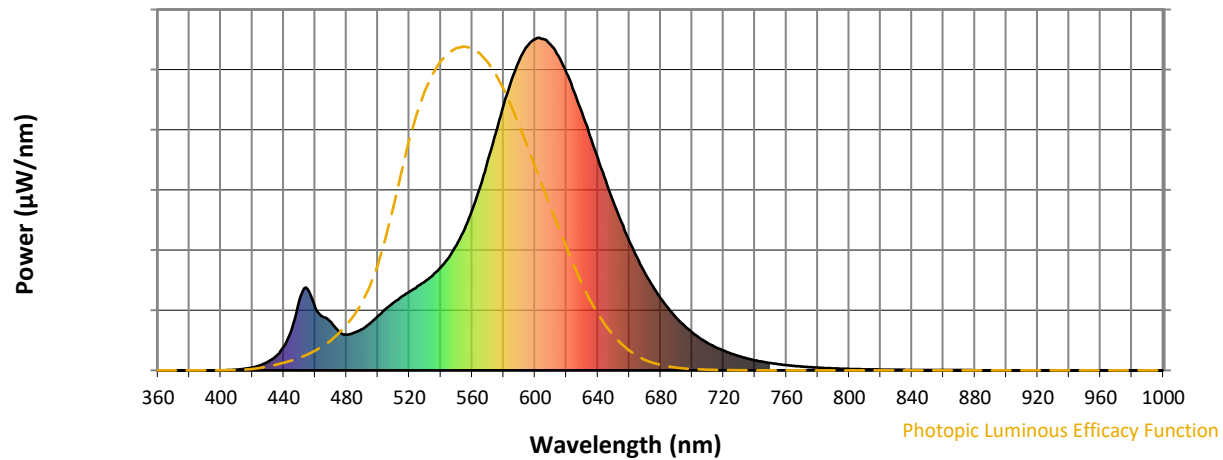
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

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Photopic Flux vs. Wavelength

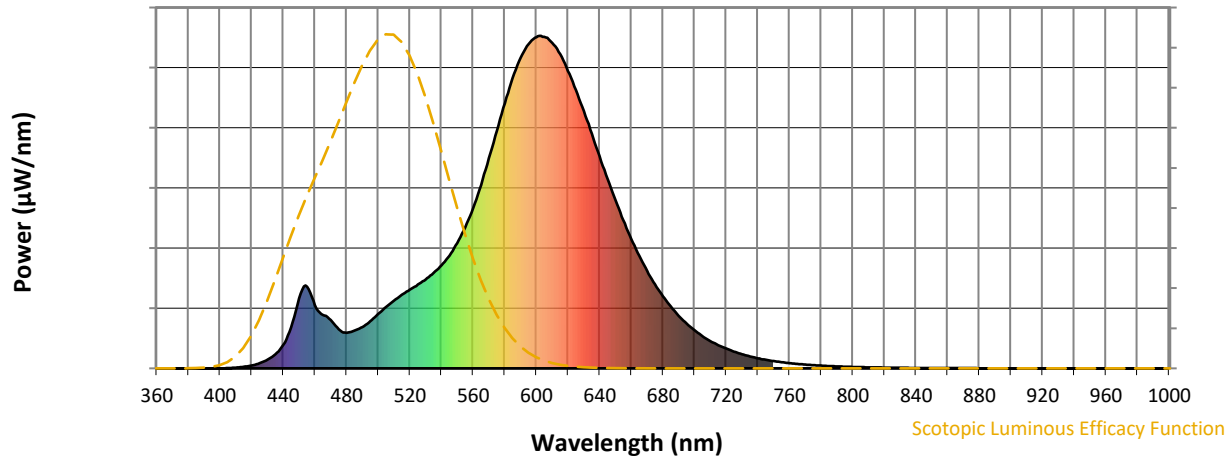


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	124	NR	620	894	NR	750	22	NR	880	0	NR
365	0	NR	495	141	NR	625	837	NR	755	19	NR	885	0	NR
370	0	NR	500	163	NR	630	774	NR	760	16	NR	890	0	NR
375	0	NR	505	184	NR	635	706	NR	765	13	NR	895	0	NR
380	0	NR	510	204	NR	640	638	NR	770	11	NR	900	0	NR
385	0	NR	515	221	NR	645	570	NR	775	10	NR	905	0	NR
390	0	NR	520	237	NR	650	505	NR	780	8	NR	910	0	NR
395	0	NR	525	252	NR	655	446	NR	785	7	NR	915	0	NR
400	0	NR	530	268	NR	660	389	NR	790	6	NR	920	0	NR
405	1	NR	535	287	NR	665	339	NR	795	5	NR	925	0	NR
410	2	NR	540	310	NR	670	292	NR	800	4	NR	930	0	NR
415	5	NR	545	339	NR	675	253	NR	805	4	NR	935	0	NR
420	9	NR	550	377	NR	680	217	NR	810	3	NR	940	0	NR
425	15	NR	555	424	NR	685	186	NR	815	3	NR	945	0	NR
430	26	NR	560	482	NR	690	158	NR	820	2	NR	950	0	NR
435	43	NR	565	551	NR	695	135	NR	825	2	NR	955	0	NR
440	71	NR	570	632	NR	700	114	NR	830	2	NR	960	0	NR
445	123	NR	575	714	NR	705	97	NR	835	2	NR	965	0	NR
450	210	NR	580	797	NR	710	82	NR	840	1	NR	970	0	NR
455	245	NR	585	873	NR	715	70	NR	845	1	NR	975	0	NR
460	190	NR	590	934	NR	720	59	NR	850	1	NR	980	0	NR
465	161	NR	595	975	NR	725	50	NR	855	1	NR	985	0	NR
470	145	NR	600	996	NR	730	43	NR	860	1	NR	990	0	NR
475	117	NR	605	997	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	978	NR	740	30	NR	870	1	NR	1000	0	NR
485	113	NR	615	945	NR	745	26	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



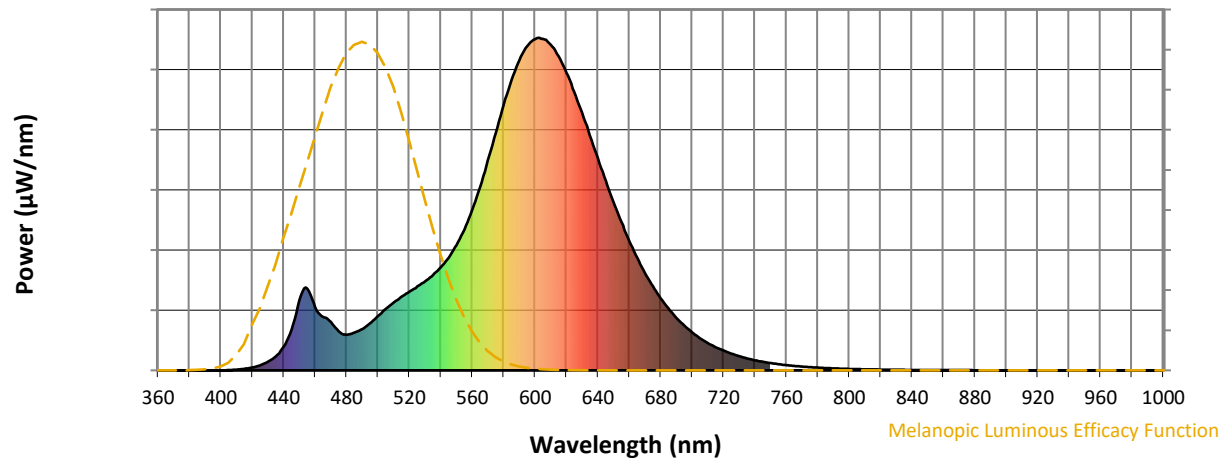
Scotopic Lumens: NR

S/P: 0.98

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	124	NR	620	894	NR	750	22	NR	880	0	NR
365	0	NR	495	141	NR	625	837	NR	755	19	NR	885	0	NR
370	0	NR	500	163	NR	630	774	NR	760	16	NR	890	0	NR
375	0	NR	505	184	NR	635	706	NR	765	13	NR	895	0	NR
380	0	NR	510	204	NR	640	638	NR	770	11	NR	900	0	NR
385	0	NR	515	221	NR	645	570	NR	775	10	NR	905	0	NR
390	0	NR	520	237	NR	650	505	NR	780	8	NR	910	0	NR
395	0	NR	525	252	NR	655	446	NR	785	7	NR	915	0	NR
400	0	NR	530	268	NR	660	389	NR	790	6	NR	920	0	NR
405	1	NR	535	287	NR	665	339	NR	795	5	NR	925	0	NR
410	2	NR	540	310	NR	670	292	NR	800	4	NR	930	0	NR
415	5	NR	545	339	NR	675	253	NR	805	4	NR	935	0	NR
420	9	NR	550	377	NR	680	217	NR	810	3	NR	940	0	NR
425	15	NR	555	424	NR	685	186	NR	815	3	NR	945	0	NR
430	26	NR	560	482	NR	690	158	NR	820	2	NR	950	0	NR
435	43	NR	565	551	NR	695	135	NR	825	2	NR	955	0	NR
440	71	NR	570	632	NR	700	114	NR	830	2	NR	960	0	NR
445	123	NR	575	714	NR	705	97	NR	835	2	NR	965	0	NR
450	210	NR	580	797	NR	710	82	NR	840	1	NR	970	0	NR
455	245	NR	585	873	NR	715	70	NR	845	1	NR	975	0	NR
460	190	NR	590	934	NR	720	59	NR	850	1	NR	980	0	NR
465	161	NR	595	975	NR	725	50	NR	855	1	NR	985	0	NR
470	145	NR	600	996	NR	730	43	NR	860	1	NR	990	0	NR
475	117	NR	605	997	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	978	NR	740	30	NR	870	1	NR	1000	0	NR
485	113	NR	615	945	NR	745	26	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.75

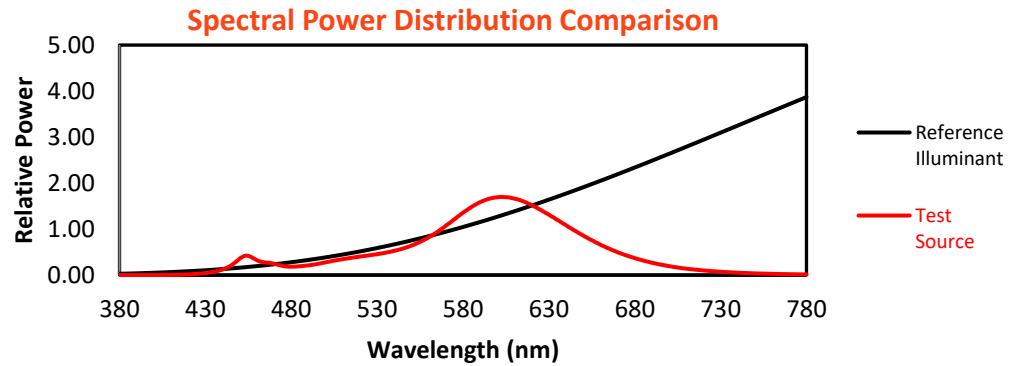
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	124	NR	620	894	NR	750	22	NR	880	0	NR
365	0	NR	495	141	NR	625	837	NR	755	19	NR	885	0	NR
370	0	NR	500	163	NR	630	774	NR	760	16	NR	890	0	NR
375	0	NR	505	184	NR	635	706	NR	765	13	NR	895	0	NR
380	0	NR	510	204	NR	640	638	NR	770	11	NR	900	0	NR
385	0	NR	515	221	NR	645	570	NR	775	10	NR	905	0	NR
390	0	NR	520	237	NR	650	505	NR	780	8	NR	910	0	NR
395	0	NR	525	252	NR	655	446	NR	785	7	NR	915	0	NR
400	0	NR	530	268	NR	660	389	NR	790	6	NR	920	0	NR
405	1	NR	535	287	NR	665	339	NR	795	5	NR	925	0	NR
410	2	NR	540	310	NR	670	292	NR	800	4	NR	930	0	NR
415	5	NR	545	339	NR	675	253	NR	805	4	NR	935	0	NR
420	9	NR	550	377	NR	680	217	NR	810	3	NR	940	0	NR
425	15	NR	555	424	NR	685	186	NR	815	3	NR	945	0	NR
430	26	NR	560	482	NR	690	158	NR	820	2	NR	950	0	NR
435	43	NR	565	551	NR	695	135	NR	825	2	NR	955	0	NR
440	71	NR	570	632	NR	700	114	NR	830	2	NR	960	0	NR
445	123	NR	575	714	NR	705	97	NR	835	2	NR	965	0	NR
450	210	NR	580	797	NR	710	82	NR	840	1	NR	970	0	NR
455	245	NR	585	873	NR	715	70	NR	845	1	NR	975	0	NR
460	190	NR	590	934	NR	720	59	NR	850	1	NR	980	0	NR
465	161	NR	595	975	NR	725	50	NR	855	1	NR	985	0	NR
470	145	NR	600	996	NR	730	43	NR	860	1	NR	990	0	NR
475	117	NR	605	997	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	978	NR	740	30	NR	870	1	NR	1000	0	NR
485	113	NR	615	945	NR	745	26	NR	875	1	NR			

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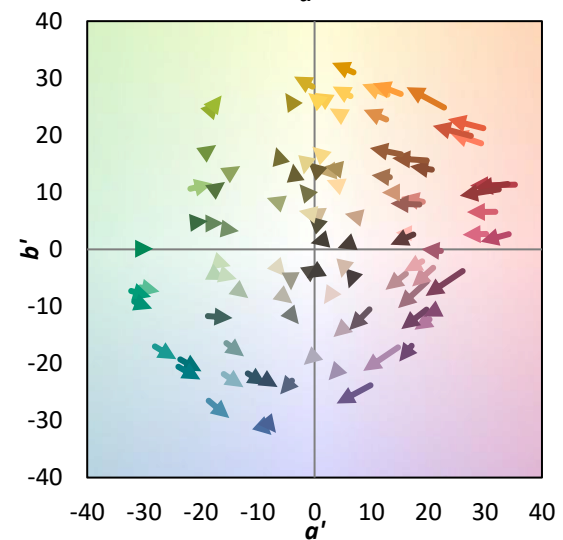
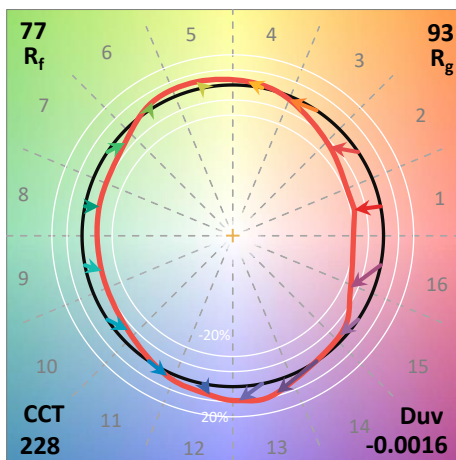
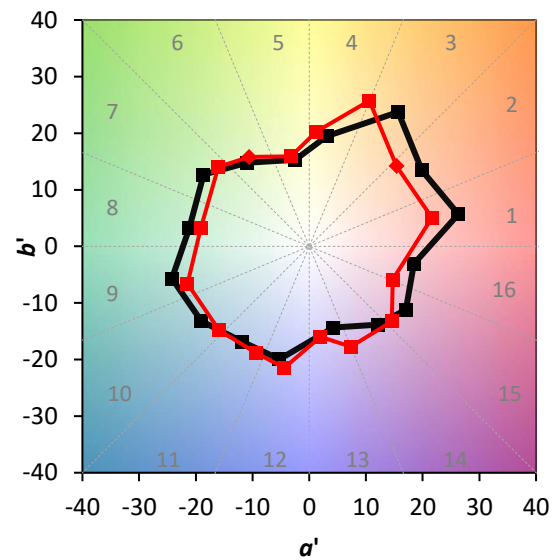
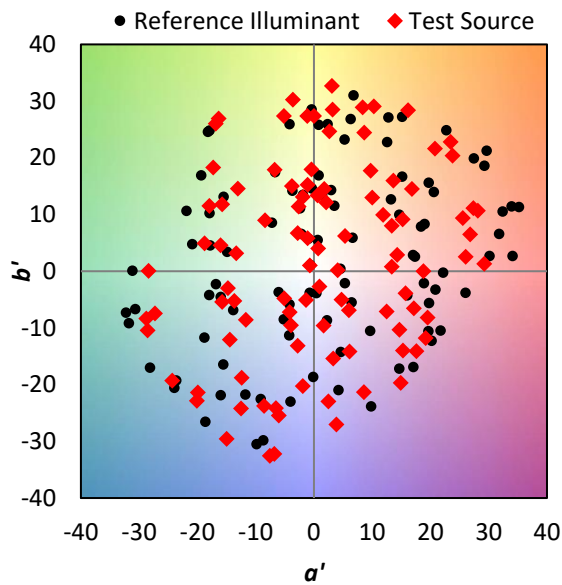
TM-30-18

Summary

$R_f = 76.9$
 $R_g = 92.6$
 $CIE\ R_a = 70.6$
 $R_g = -35.1$

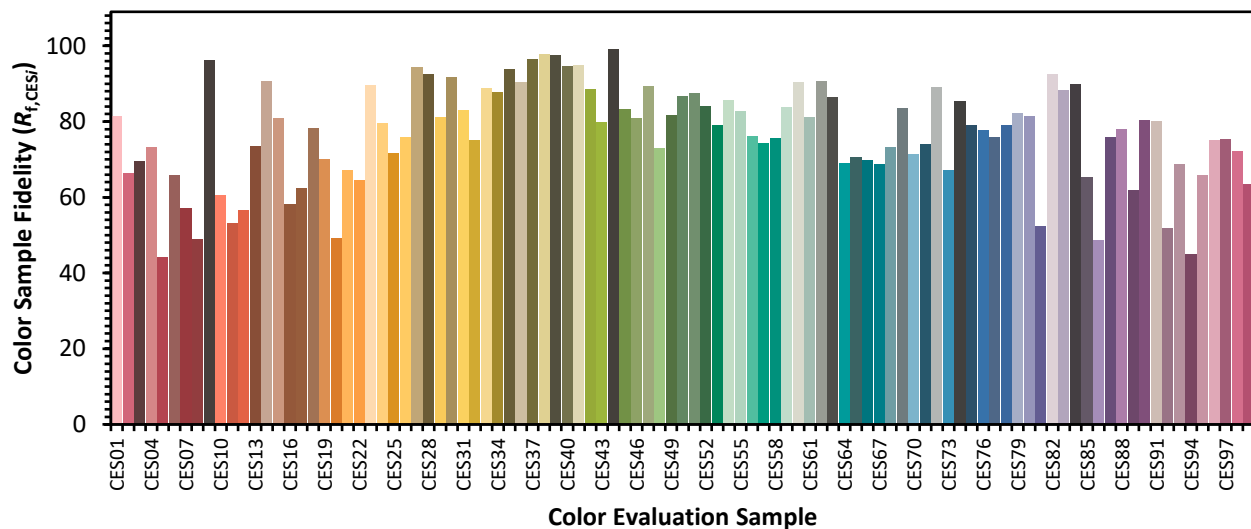


Color Vector Graphics

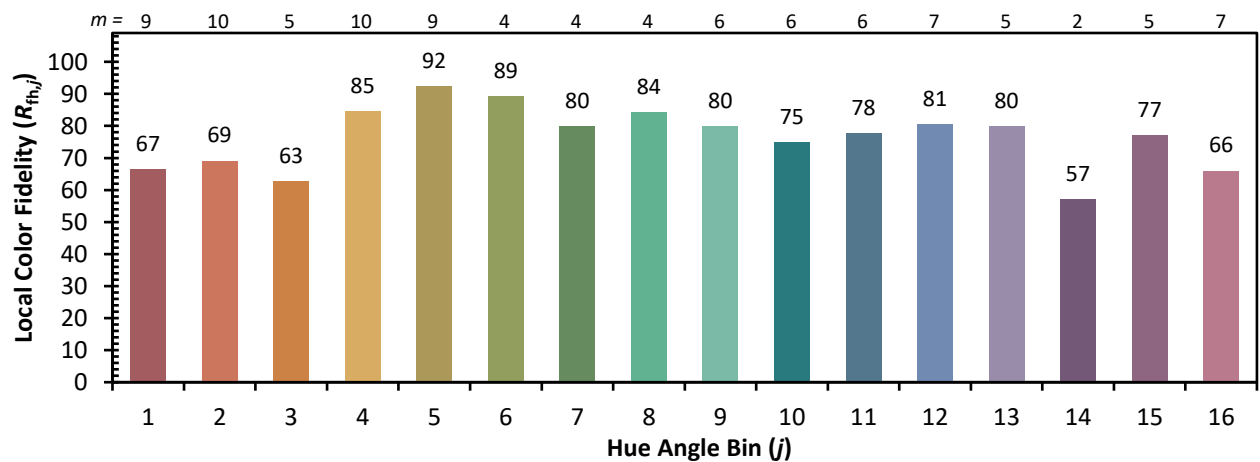
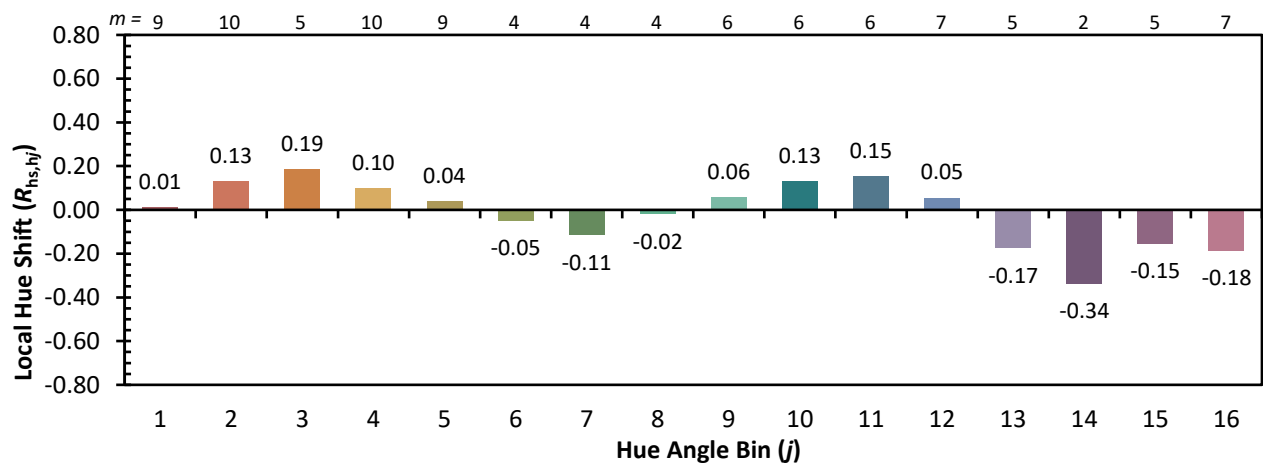
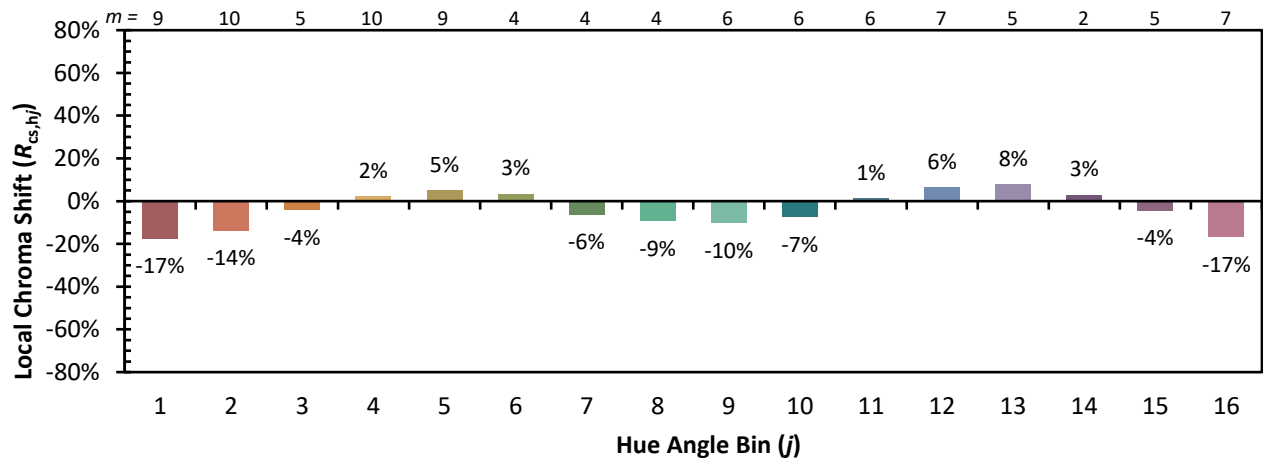


Individual Sample Fidelity Index ($R_{f,i}$)

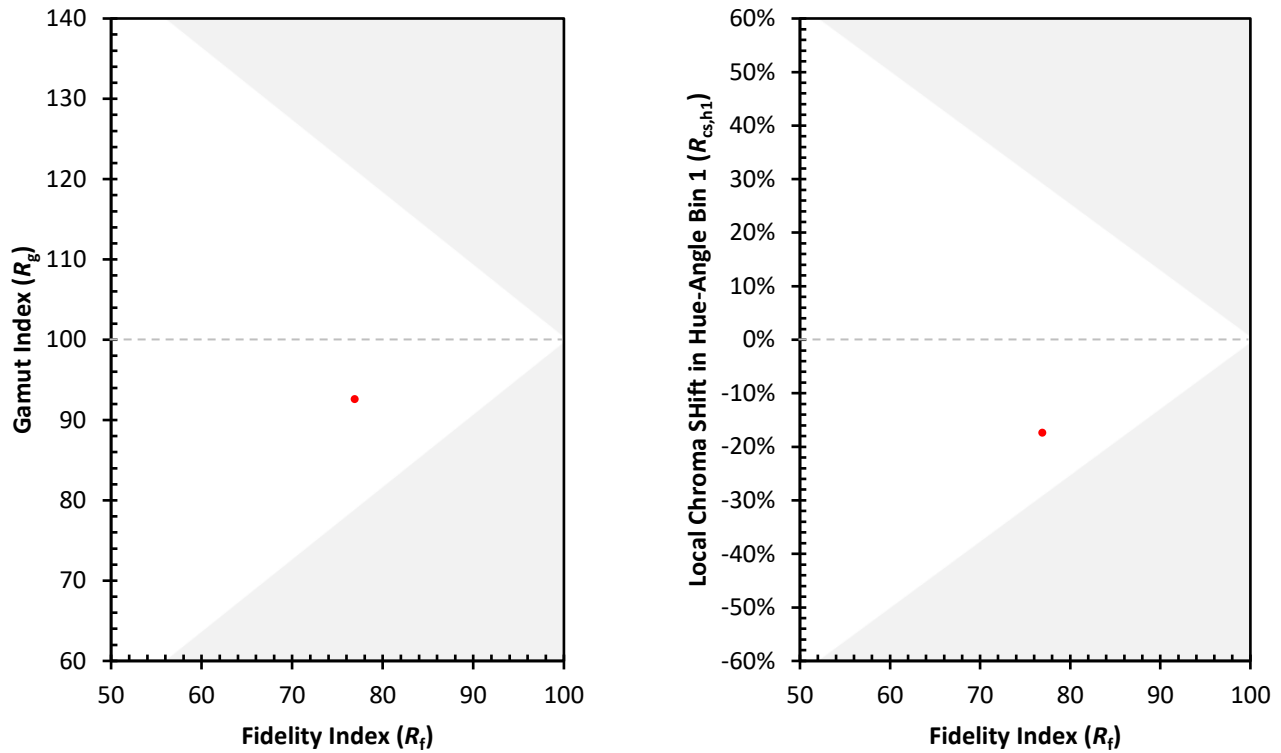
CES01 = 87	CES26 = 76	CES51 = 88	CES76 = 78
CES02 = 65	CES27 = 94	CES52 = 84	CES77 = 76
CES03 = 32	CES28 = 93	CES53 = 79	CES78 = 79
CES04 = 72	CES29 = 81	CES54 = 86	CES79 = 82
CES05 = 51	CES30 = 92	CES55 = 83	CES80 = 81
CES06 = 52	CES31 = 83	CES56 = 76	CES81 = 52
CES07 = 44	CES32 = 75	CES57 = 74	CES82 = 92
CES08 = 42	CES33 = 89	CES58 = 76	CES83 = 88
CES09 = 29	CES34 = 88	CES59 = 84	CES84 = 90
CES10 = 79	CES35 = 94	CES60 = 91	CES85 = 65
CES11 = 62	CES36 = 90	CES61 = 81	CES86 = 49
CES12 = 68	CES37 = 96	CES62 = 91	CES87 = 76
CES13 = 44	CES38 = 98	CES63 = 86	CES88 = 78
CES14 = 75	CES39 = 98	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 95	CES65 = 71	CES90 = 80
CES16 = 48	CES41 = 95	CES66 = 70	CES91 = 80
CES17 = 51	CES42 = 89	CES67 = 69	CES92 = 52
CES18 = 57	CES43 = 80	CES68 = 73	CES93 = 69
CES19 = 74	CES44 = 99	CES69 = 84	CES94 = 45
CES20 = 68	CES45 = 83	CES70 = 71	CES95 = 66
CES21 = 88	CES46 = 81	CES71 = 74	CES96 = 75
CES22 = 81	CES47 = 89	CES72 = 89	CES97 = 75
CES23 = 92	CES48 = 73	CES73 = 67	CES98 = 72
CES24 = 92	CES49 = 82	CES74 = 85	CES99 = 64
CES25 = 73	CES50 = 87	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)