

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: P1461228

Luminaire Tested: USSL-150-722-U-5WQ

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461228
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-150-722-U-5WQ
Description: USSL DISCRETE LED 1 SQUARE 150W 70CRI 2200K FIXTURE w/ TYPE V SQUARE WIDE DISTRIBUTION OPTIC
Light Source: (40) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18354.5 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - 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

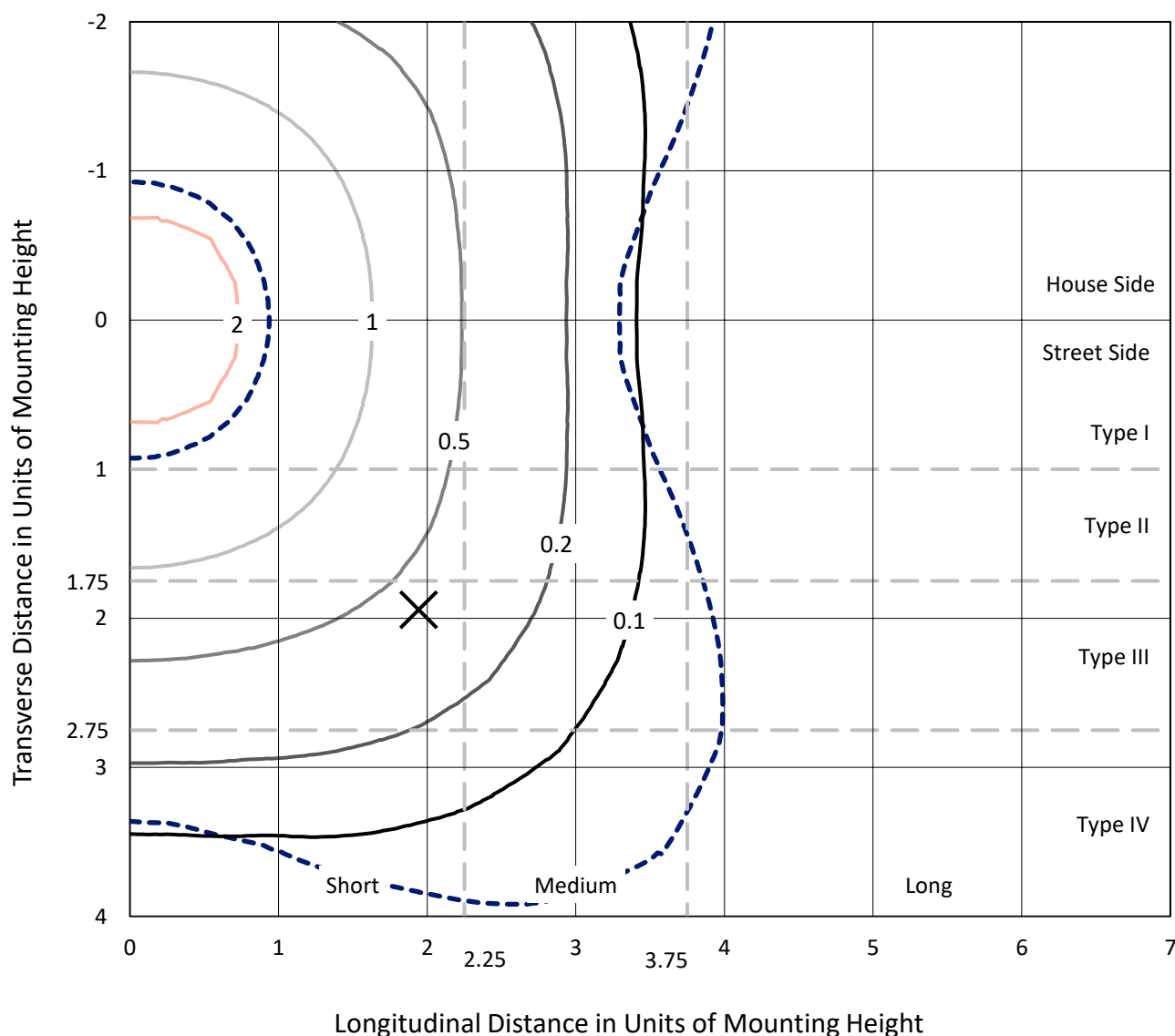
REPORT NUMBER: P1461228

CATALOG NUMBER: USSL-150-722-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



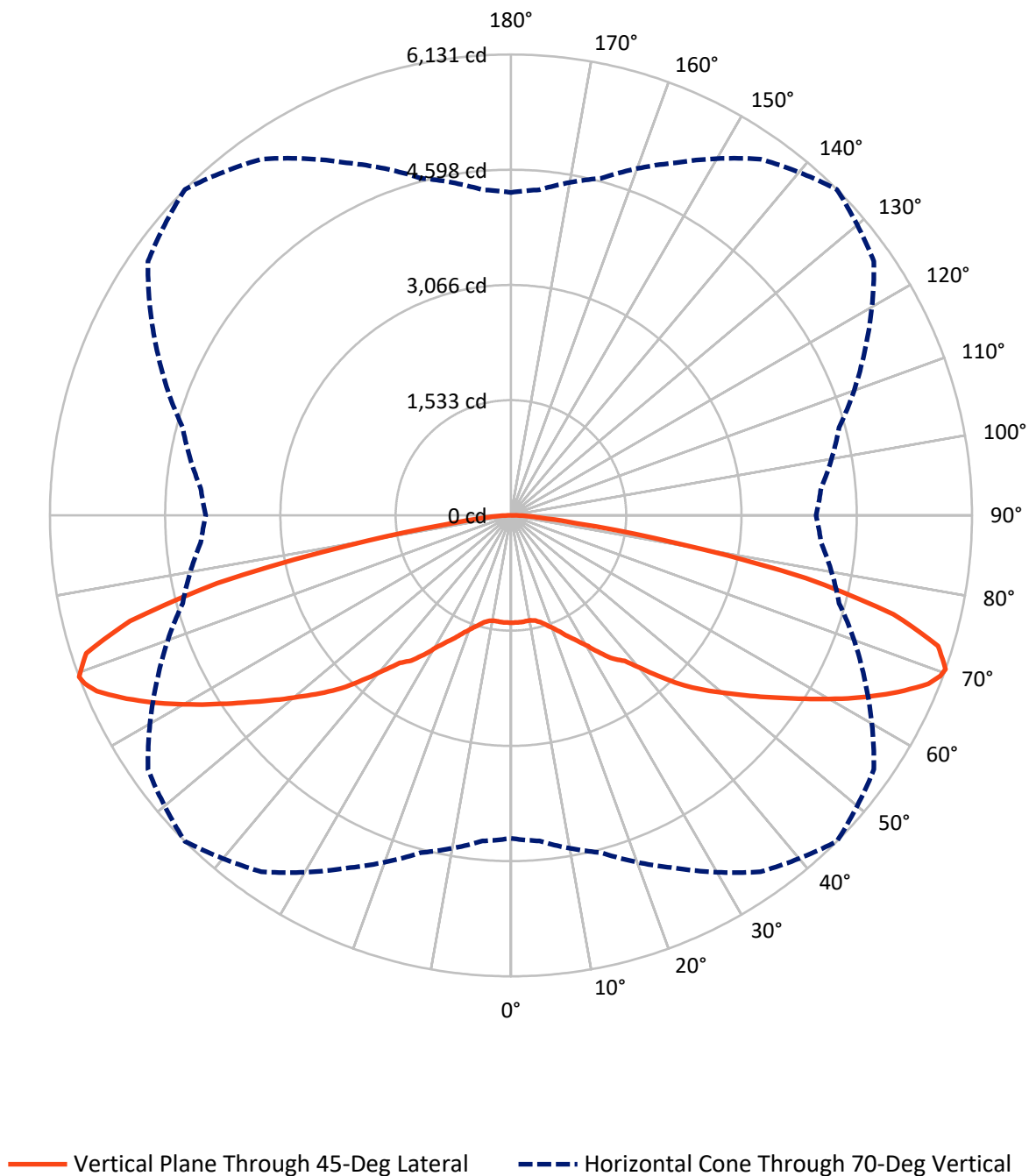
Based on 25 foot mounting height. Maximum calculated value = 2.3 fc

Type V - Short - N/A

REPORT NUMBER: P1461228

CATALOG NUMBER: USSL-150-722-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P1461228

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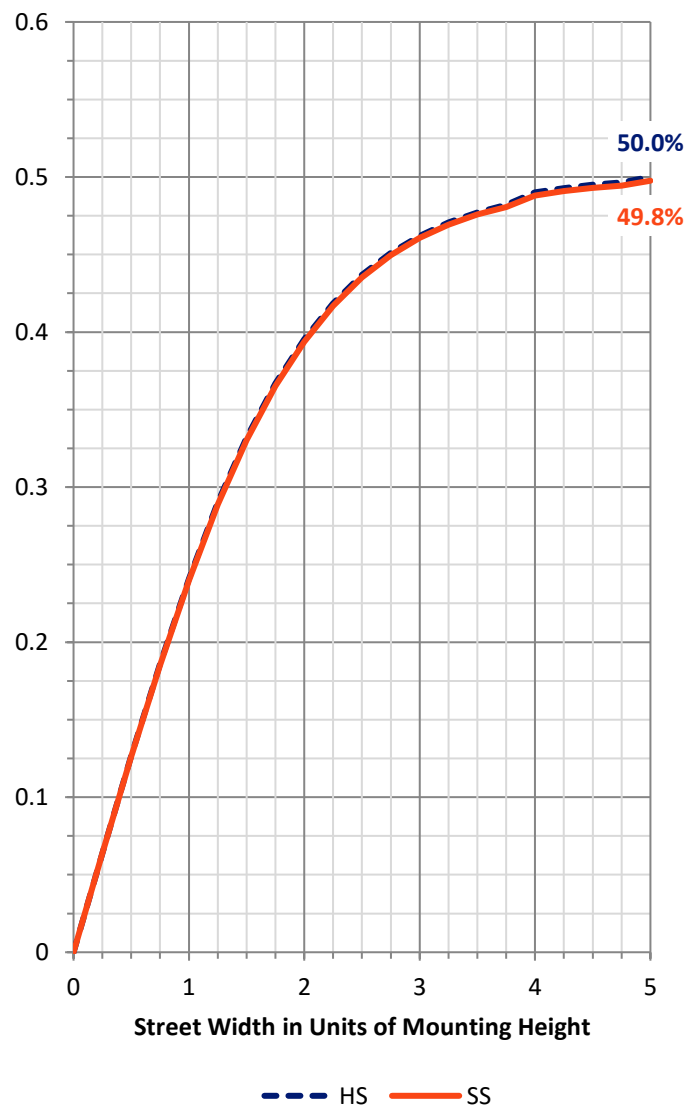
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9177.2	0.0	9177.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9177.2	0.0	9177.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	18354.5	0.0	18354.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	0.7
10°-20°	422.5	2.3
20°-30°	823.0	4.5
30°-40°	1459.6	8.0
40°-50°	2518.3	13.7
50°-60°	3802.7	20.7
60°-70°	5063.2	27.6
70°-80°	3672.5	20.0
80°-90°	457.5	2.5
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°-90°	18354.5	100.0
0°-180°	18354.5	100.0

Coefficient of Utilization



REPORT NUMBER: P1461228

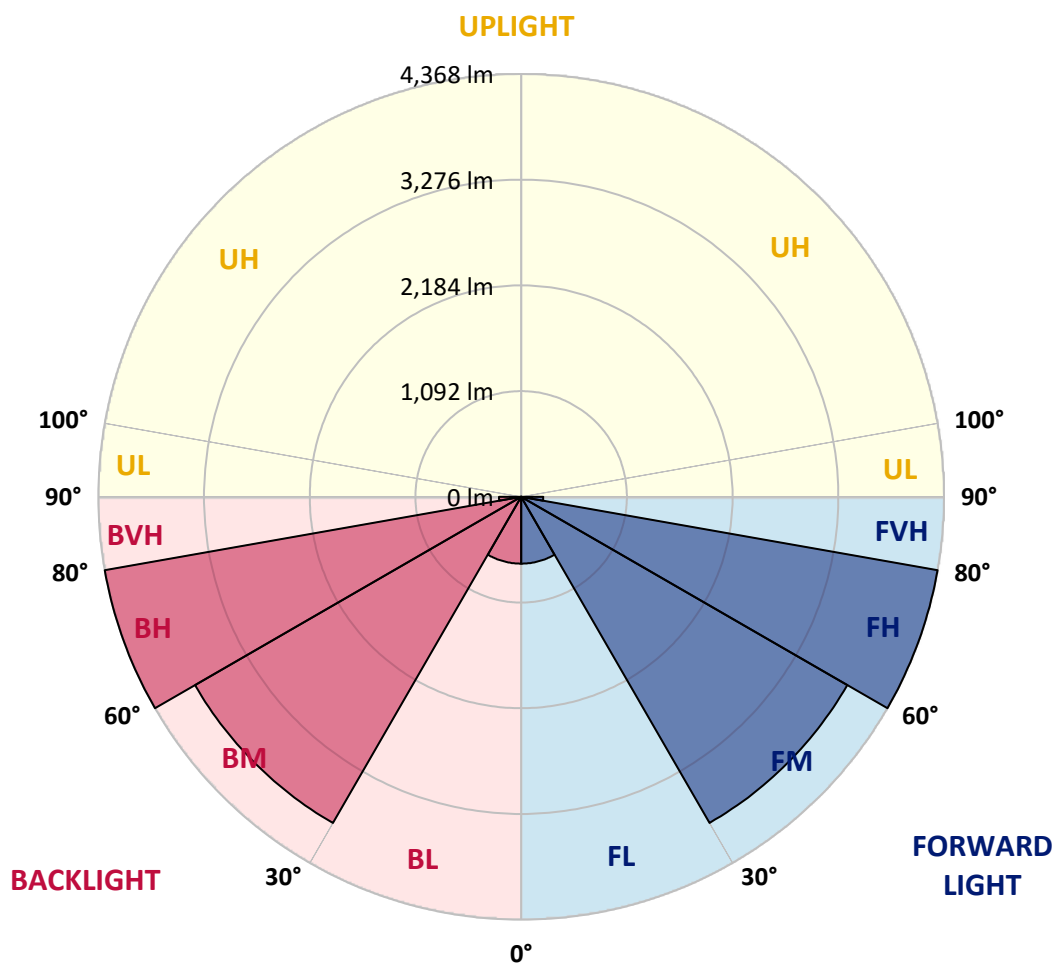
CATALOG NUMBER: USSL-150-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	690.4	3.8			
FM	(30°-60°)	3890.3	21.2			
FH	(60°-80°)	4367.8	23.8			G2/5000
FVH	(80°-90°)	228.8	1.2			G3/500
BL	(0°-30°)	690.4	3.8	B2/1000		
BM	(30°-60°)	3890.3	21.2	B3/5000		
BH	(60°-80°)	4367.8	23.8	B4/5000		G2/5000
BVH	(80°-90°)	228.8	1.2			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short



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CATALOG NUMBER: USSL-150-722-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0	1427.0
2.5°	1427.8	1427.8	1427.8	1427.8	1427.0	1426.1	1425.3	1425.3	1425.3	1424.5	1424.5
5°	1431.1	1430.3	1430.3	1429.5	1429.5	1426.1	1422.8	1420.3	1417.8	1415.3	1416.1
7.5°	1417.8	1419.5	1418.6	1420.3	1422.0	1420.3	1413.6	1406.1	1399.5	1393.6	1393.6
10°	1419.5	1418.6	1417.8	1418.6	1420.3	1419.5	1412.8	1402.8	1393.6	1387.0	1386.1
12.5°	1442.8	1442.8	1438.6	1435.3	1437.0	1435.3	1430.3	1418.6	1411.1	1404.5	1405.3
15°	1488.6	1486.9	1481.1	1476.1	1473.6	1472.8	1469.4	1461.1	1451.9	1444.5	1446.9
17.5°	1544.4	1544.4	1532.8	1530.3	1527.8	1534.4	1526.9	1515.3	1507.8	1503.6	1503.6
20°	1611.9	1613.6	1603.6	1598.6	1599.4	1600.2	1596.9	1584.4	1575.2	1571.1	1572.7
22.5°	1687.7	1684.4	1681.9	1679.4	1684.4	1685.2	1678.5	1663.5	1657.7	1649.4	1651.9
25°	1754.3	1754.3	1755.2	1768.5	1776.8	1789.3	1779.3	1756.0	1734.3	1726.0	1725.2
27.5°	1826.8	1825.1	1835.1	1854.3	1881.0	1892.6	1880.1	1851.0	1826.0	1813.5	1807.6
30°	1945.9	1945.1	1946.8	1970.9	2000.1	2017.6	2003.4	1979.2	1956.8	1945.1	1950.1
32.5°	2122.5	2112.5	2127.5	2152.5	2175.8	2183.3	2185.0	2157.5	2129.2	2119.2	2123.4
35°	2221.7	2219.2	2235.8	2265.8	2307.5	2341.6	2315.0	2290.8	2277.5	2263.3	2260.0
37.5°	2447.4	2446.6	2459.9	2457.4	2464.1	2456.6	2469.1	2479.1	2491.6	2480.7	2483.2
40°	2721.5	2714.8	2712.3	2707.3	2689.0	2677.3	2700.6	2718.1	2733.1	2754.0	2744.0
42.5°	3008.9	2998.0	2989.7	2974.7	2955.5	2947.2	2950.5	2982.2	2995.5	2998.0	2998.9
45°	3336.2	3316.2	3281.3	3254.6	3227.9	3225.4	3223.8	3230.4	3231.3	3231.3	3244.6
47.5°	3623.6	3621.1	3571.1	3525.3	3472.0	3472.0	3453.7	3451.2	3462.0	3476.2	3468.7
50°	3867.7	3859.4	3815.2	3776.1	3747.7	3713.6	3686.9	3666.1	3681.1	3693.6	3700.3
52.5°	4065.1	4064.3	4034.3	4019.3	4008.5	3987.6	3926.0	3888.5	3891.9	3906.8	3902.7
55°	4239.2	4250.9	4252.5	4271.7	4291.7	4276.7	4217.6	4160.9	4131.8	4110.1	4109.3
57.5°	4438.3	4445.8	4469.1	4530.8	4588.3	4601.6	4541.6	4457.5	4376.7	4323.4	4303.4
60°	4645.7	4647.4	4708.2	4805.7	4910.6	4954.8	4901.5	4763.2	4616.6	4500.8	4480.0
62.5°	4832.3	4828.2	4919.8	5067.2	5243.8	5315.5	5244.7	5042.2	4789.0	4627.4	4599.9
65°	4913.1	4924.0	5044.7	5271.3	5521.2	5661.2	5569.5	5233.0	4864.8	4646.6	4613.2
67.5°	4766.5	4797.3	4990.6	5346.3	5737.8	5983.6	5822.8	5311.3	4801.5	4518.3	4474.1
69°	4556.6	4564.1	4814.8	5280.5	5796.1	6096.0	5892.8	5270.5	4674.1	4314.2	4267.5
70°	4295.0	4347.5	4644.1	5174.7	5786.1	6131.0	5891.9	5193.0	4519.1	4140.1	4057.6
72.5°	3487.0	3506.2	3927.7	4739.9	5541.2	5940.2	5610.4	4764.9	3925.2	3361.2	3339.6
75°	2335.8	2428.2	2935.5	3916.8	4839.8	5256.3	4844.0	3911.8	2943.0	2239.1	2140.9
77.5°	1211.2	1263.7	1714.3	2552.4	3518.7	4010.1	3612.0	2737.3	1812.6	1094.6	1038.8
80°	595.6	623.9	792.2	1177.1	1822.6	2210.0	2024.2	1438.6	848.8	542.3	509.8
82.5°	334.9	345.7	439.8	548.1	759.7	884.7	828.0	701.4	426.5	321.5	312.4
85°	174.1	183.3	274.1	338.2	378.2	382.4	381.5	376.5	269.1	196.6	187.4
87.5°	82.5	90.8	140.8	185.8	195.8	189.1	200.8	174.1	127.5	89.1	78.3
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

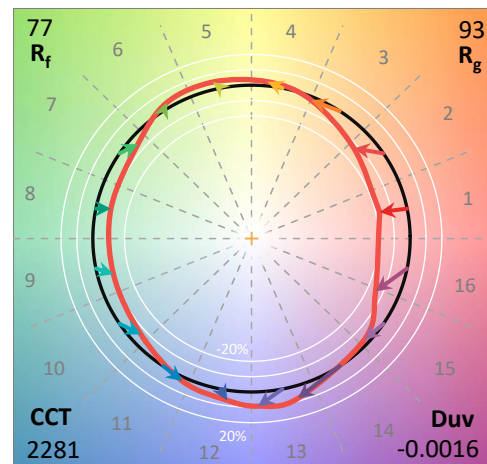
Test Information

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
 CIE u' : 0.2851
 CIE v' : 0.5324
 Duv: -0.0016
 CIE x: 0.4942
 CIE y: 0.4102
 CIE z: 0.0956
 Peak Wavelength (nm): 602
 Dominant Wavelength (nm): 587
 Purity: 71.48321
 R_f: 76.9
 R_g: 92.6

CRI (Ra): 70.6
 R1: 68.4
 R2: 88.7
 R3: 85.7
 R4: 63.2
 R5: 69.0
 R6: 88.6
 R7: 68.8
 R8: 32.6
 R9: -35.1
 R10: 78.0
 R11: 60.2
 R12: 73.8
 R13: 72.8
 R14: 92.4
 R15: 58.4



Test Conditions

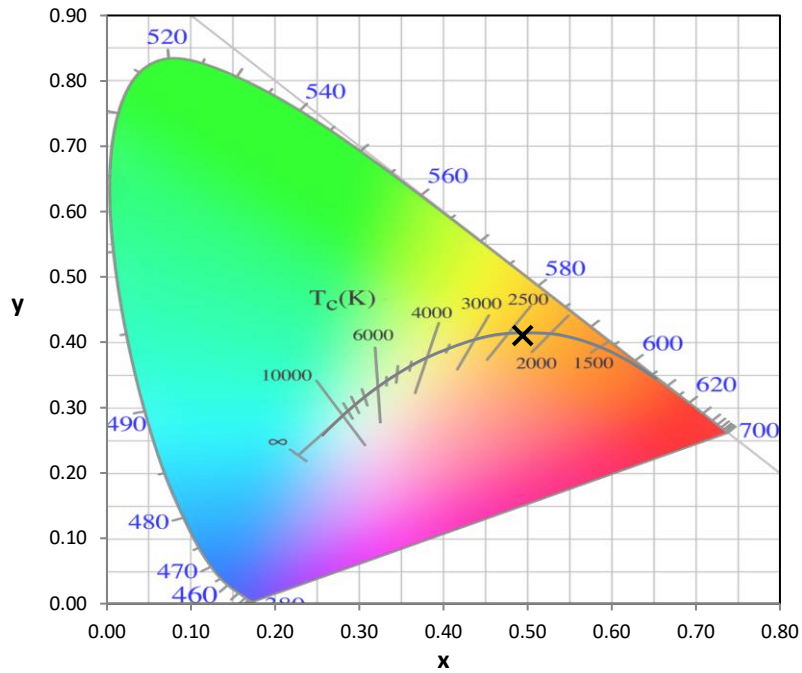
Stabilization Time: 40M
 Operation Time: 1H 40M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP2-2501-321-2

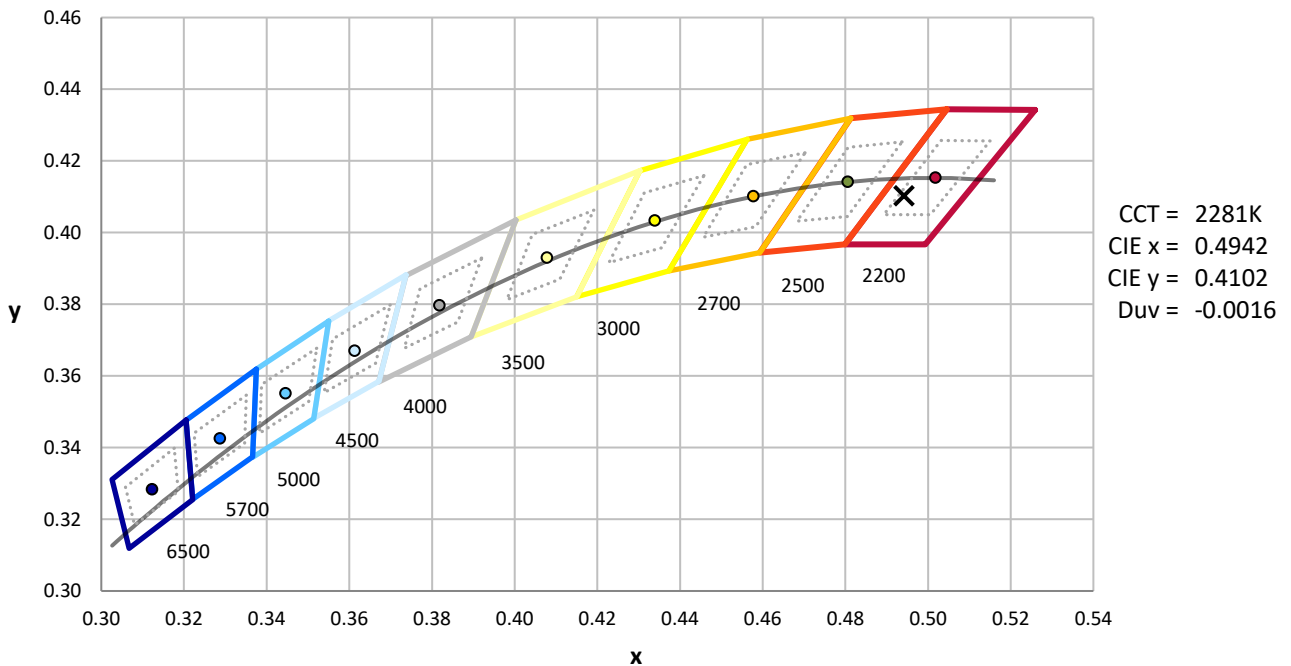
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN2187	1/6/2025	7/6/2025
Power Meter	INXT2011002	1/21/2025	1/21/2026
AC Power Source	IN0458	10/22/2024	10/22/2025
DC Power Source	IN0212	10/22/2024	10/22/2025
Sphere Thermometer	IN4036B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

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CIE 1931 Chromaticity Diagram



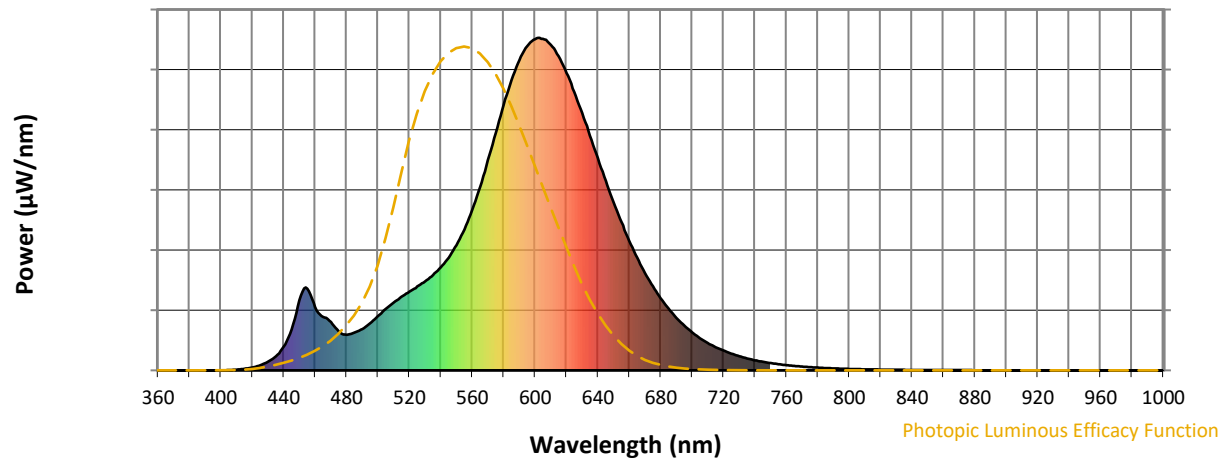
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

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Photopic Flux vs. Wavelength

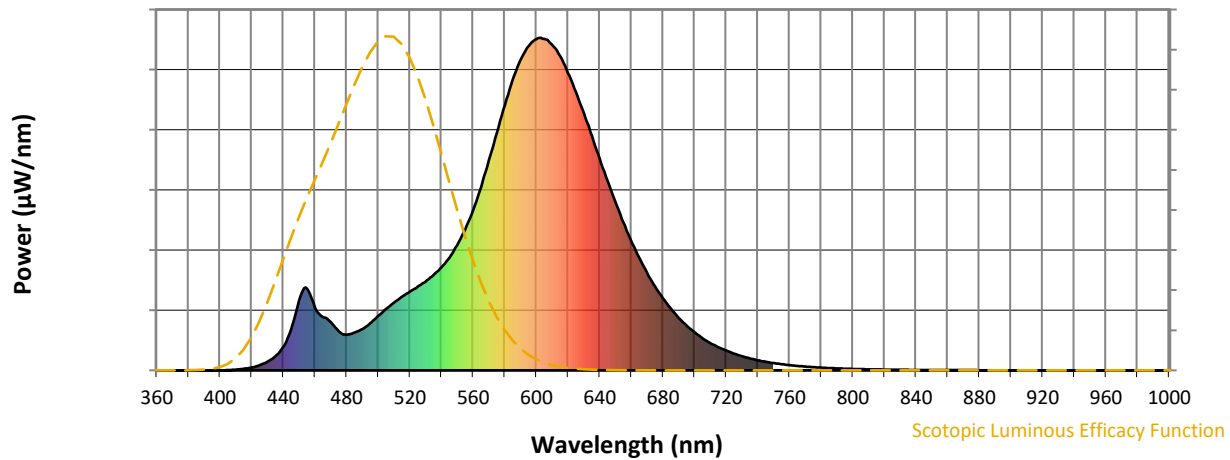


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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	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



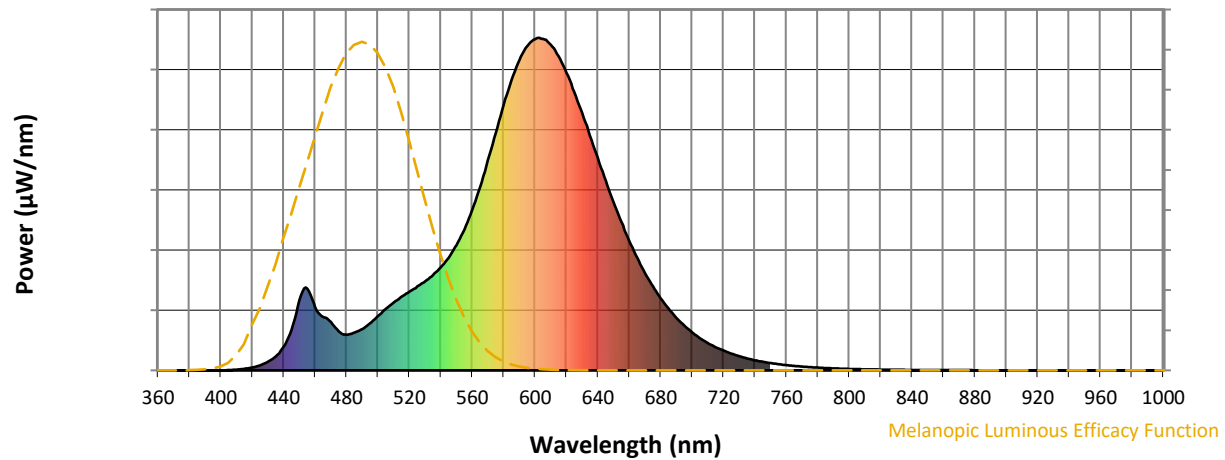
Scotopic Lumens: NR

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

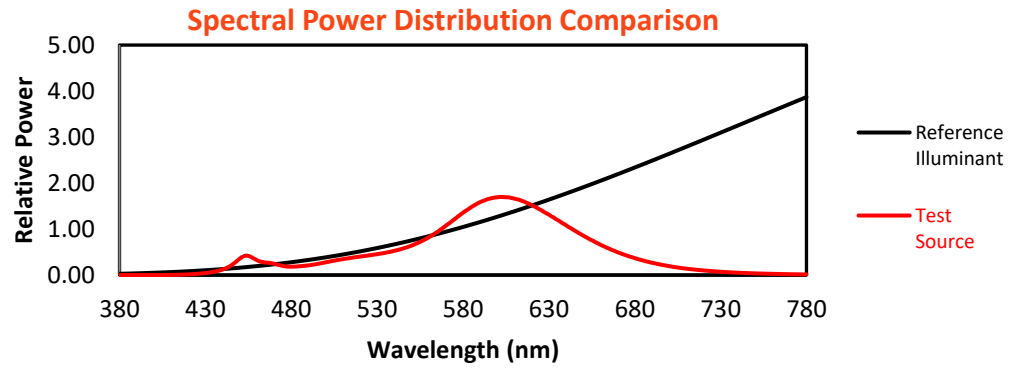
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	124	NR	620	894	NR	750	22	NR	880	0	NR
365	0	NR	495	141	NR	625	837	NR	755	19	NR	885	0	NR
370	0	NR	500	163	NR	630	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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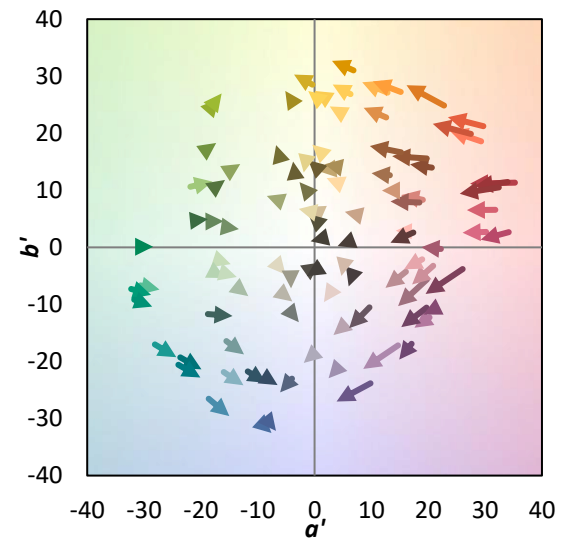
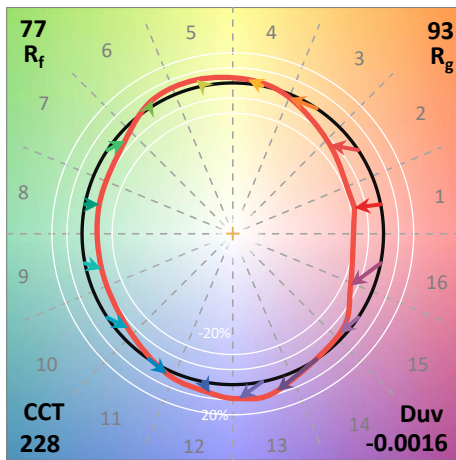
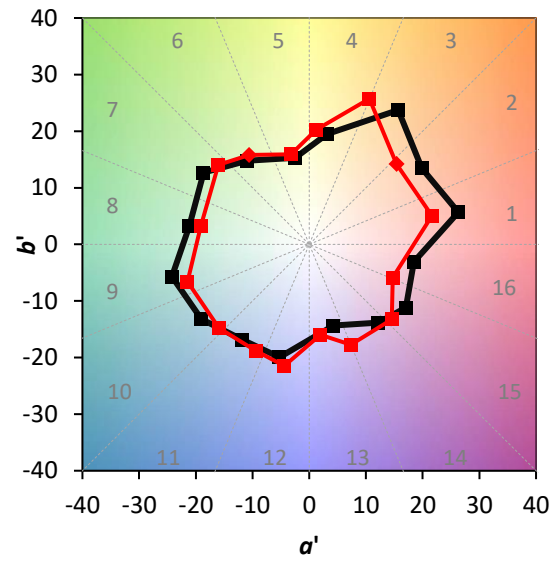
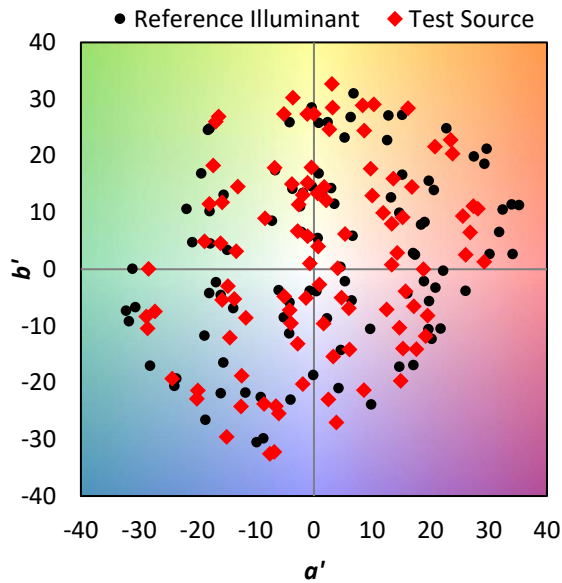
TM-30-18

Summary

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

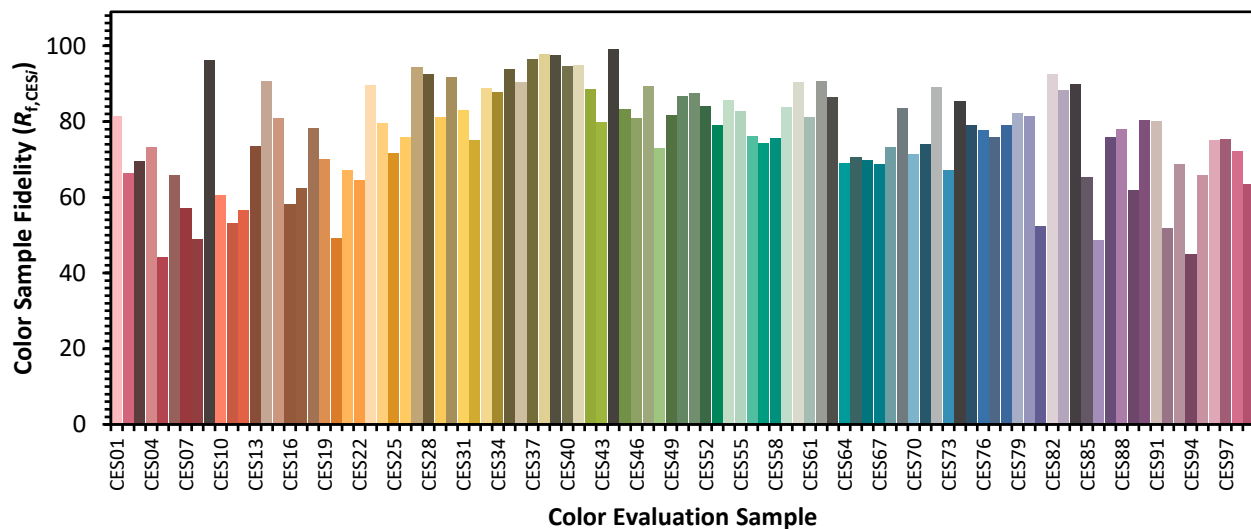


Color Vector Graphics

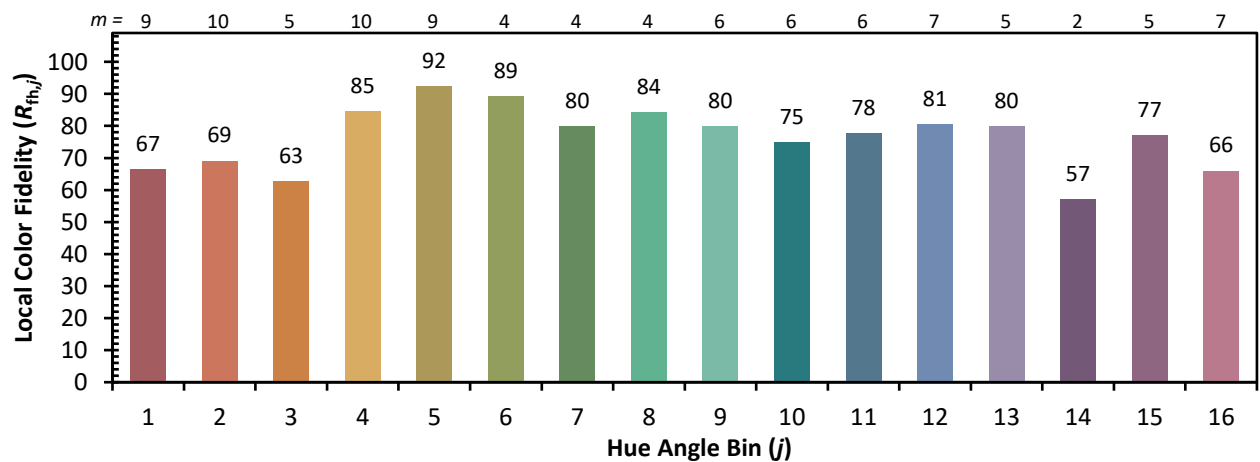
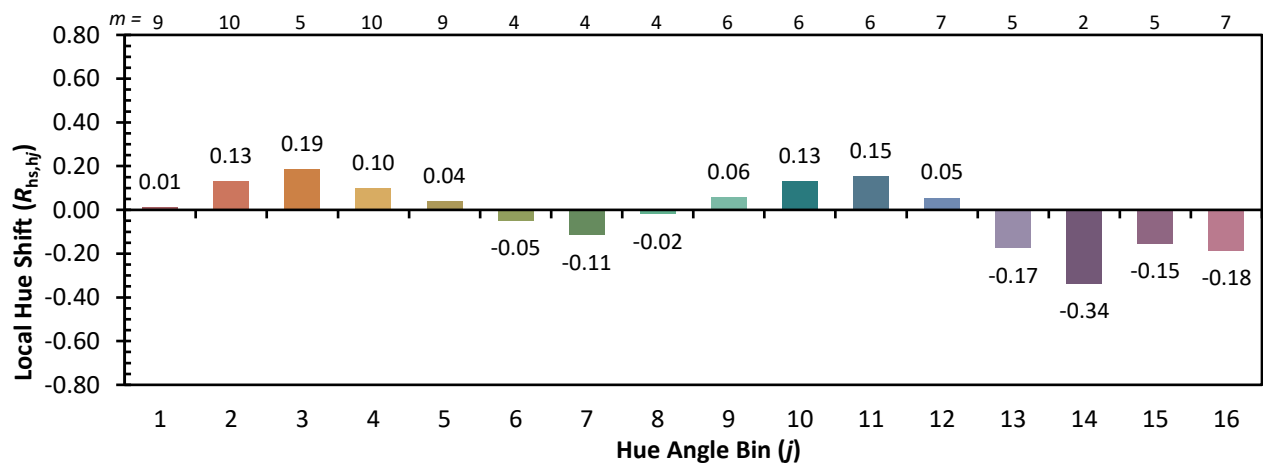
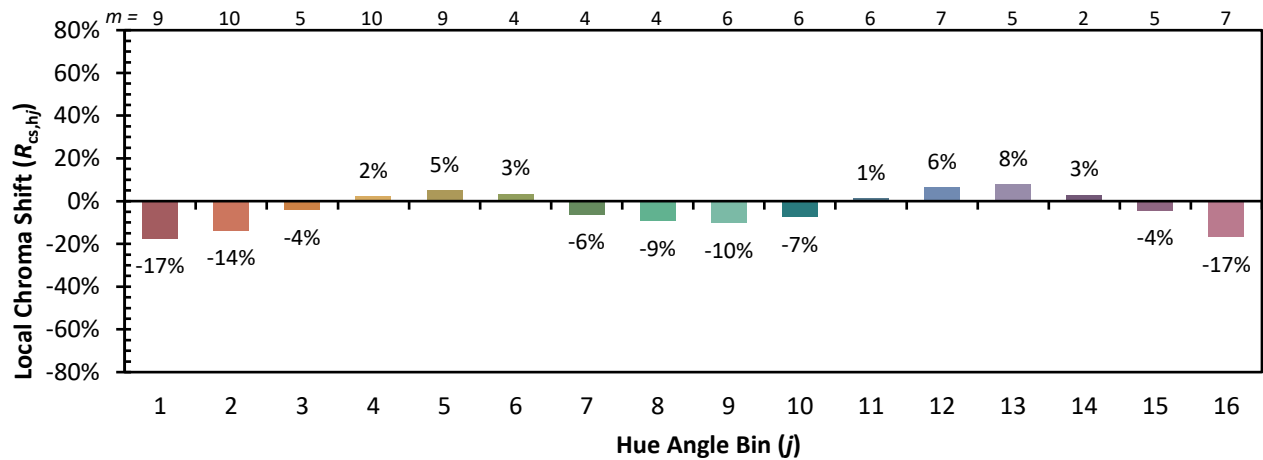


Individual Sample Fidelity Index ($R_{f,i}$)

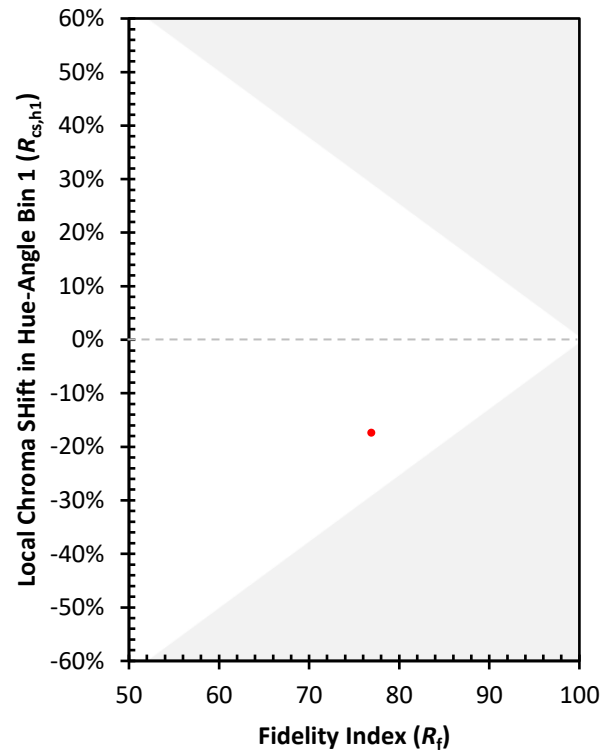
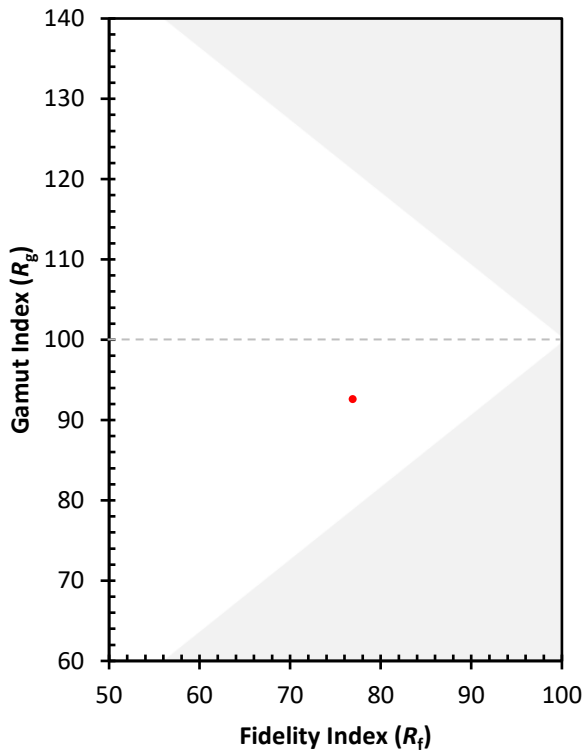
CES01 = 87	CES26 = 76	CES51 = 88	CES76 = 78
CES02 = 65	CES27 = 94	CES52 = 84	CES77 = 76
CES03 = 32	CES28 = 93	CES53 = 79	CES78 = 79
CES04 = 72	CES29 = 81	CES54 = 86	CES79 = 82
CES05 = 51	CES30 = 92	CES55 = 83	CES80 = 81
CES06 = 52	CES31 = 83	CES56 = 76	CES81 = 52
CES07 = 44	CES32 = 75	CES57 = 74	CES82 = 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)