

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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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: P1461224

Luminaire Tested: USSL-150-740-U-5WQ

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461224
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-150-740-U-5WQ
Description: USSL DISCRETE LED 1 SQUARE 150W 70CRI 4000K FIXTURE w/ TYPE V SQUARE WIDE DISTRIBUTION OPTIC
Light Source: (40) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22034.1 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - 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

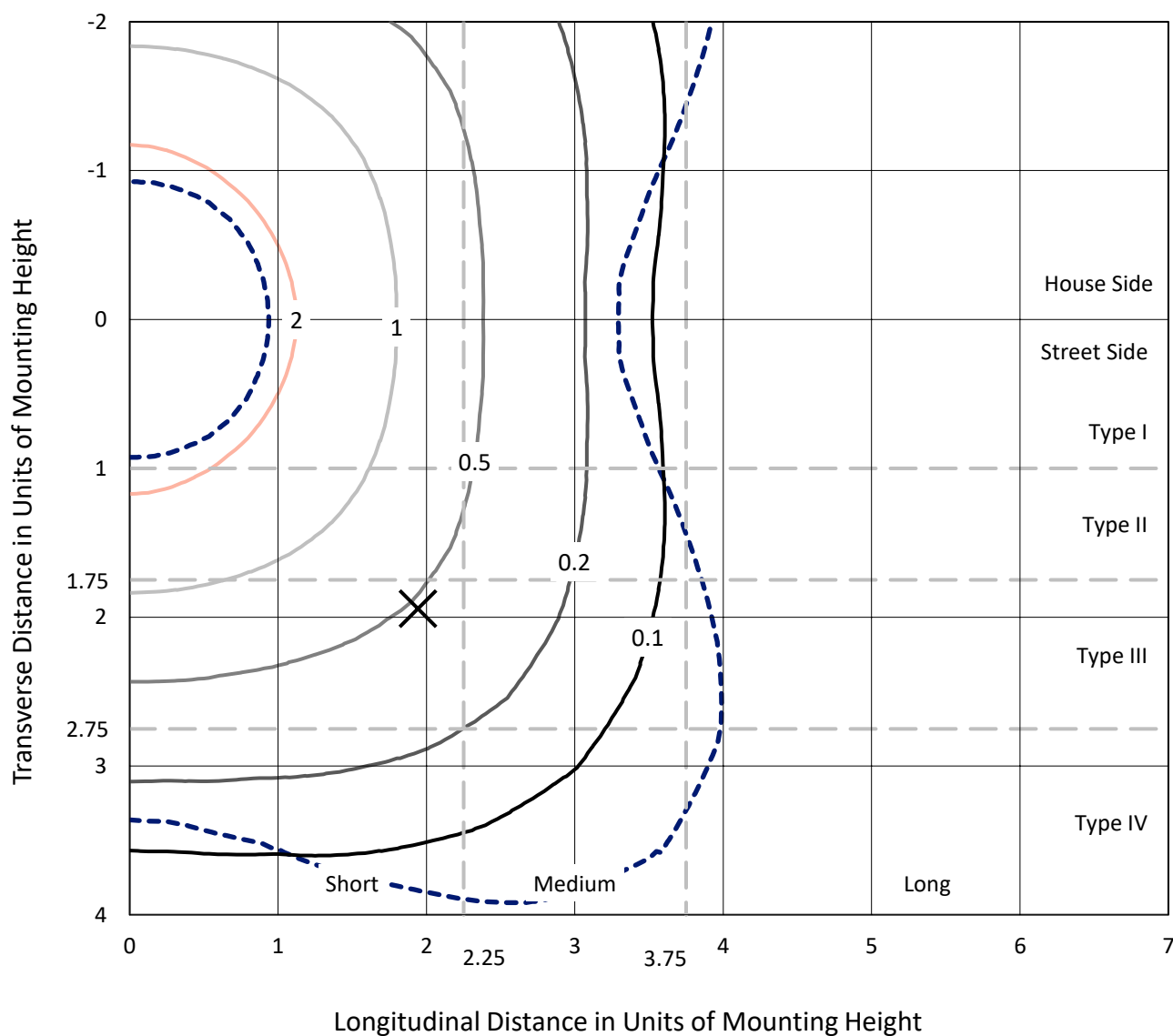
REPORT NUMBER: P1461224

CATALOG NUMBER: USSL-150-740-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



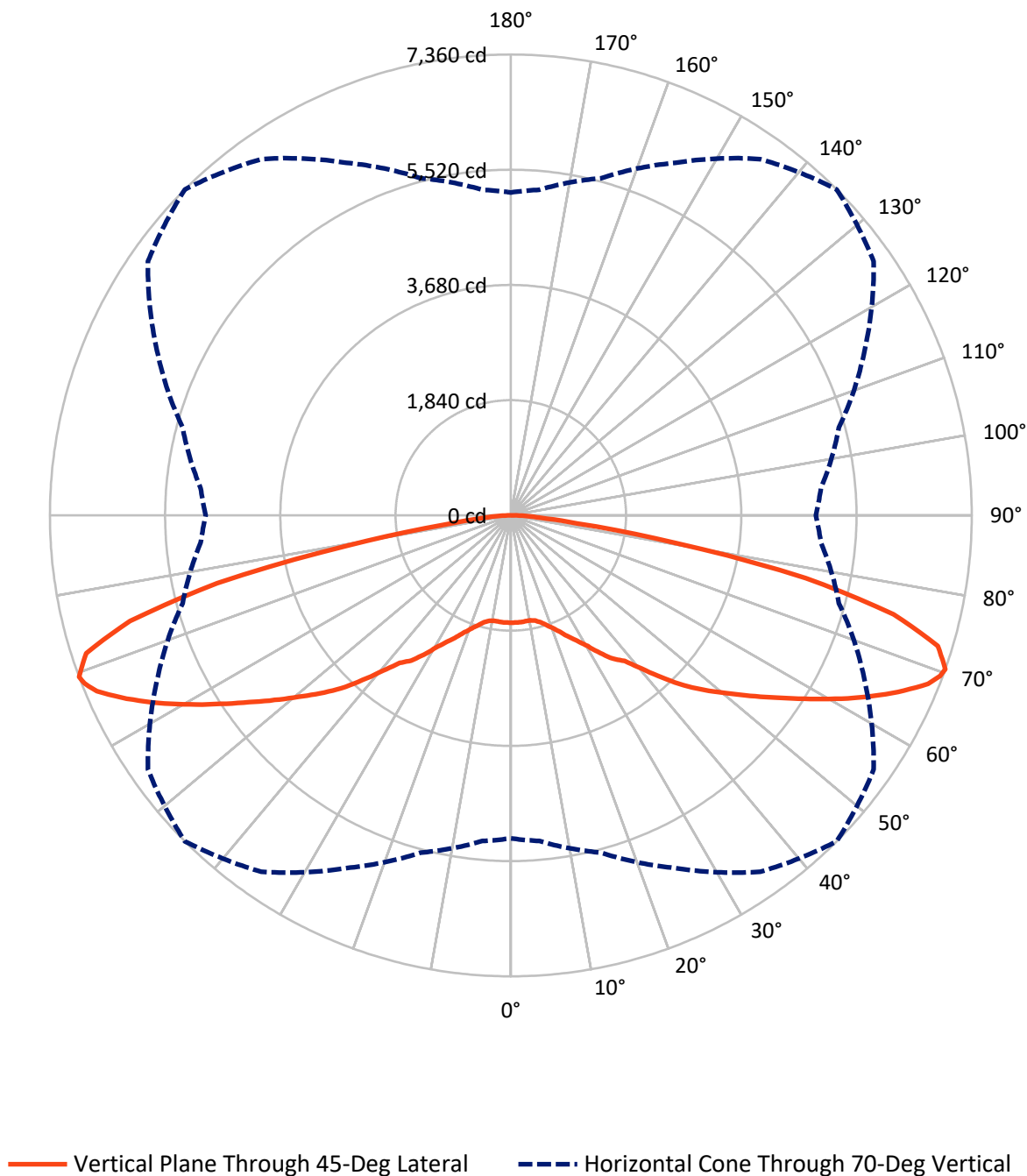
Based on 25 foot mounting height. Maximum calculated value = 2.7 fc

Type V - Short - N/A

REPORT NUMBER: P1461224

CATALOG NUMBER: USSL-150-740-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P1461224

CATALOG NUMBER: USSL-150-740-U-5WQ

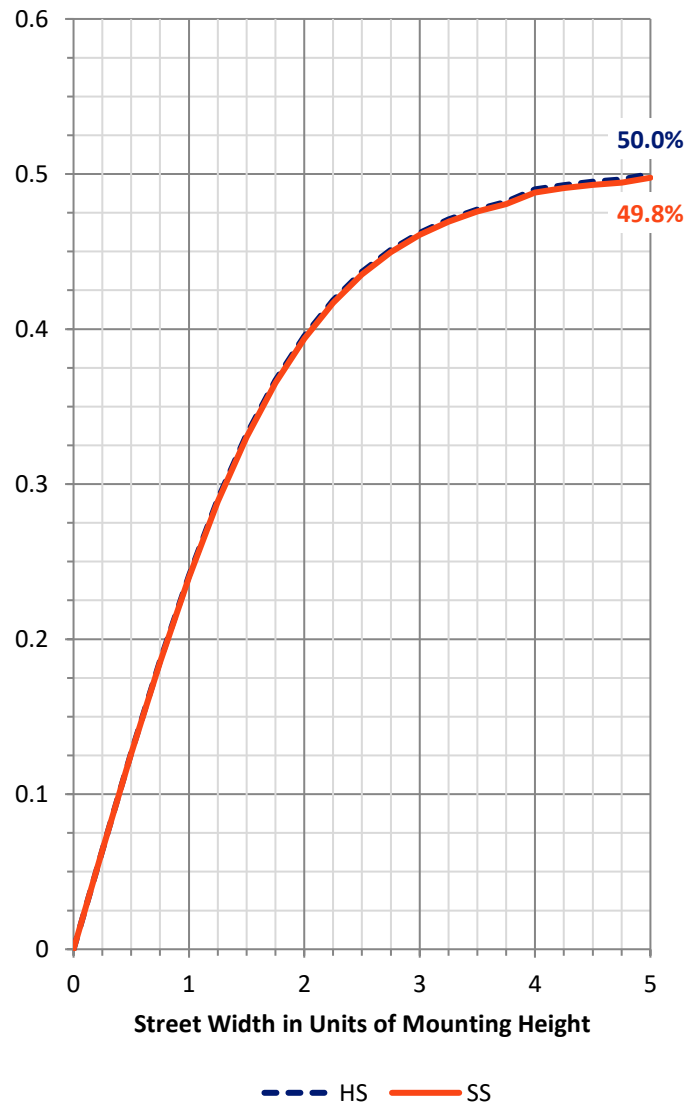
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11017.1	0.0	11017.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11017.1	0.0	11017.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	22034.1	0.0	22034.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	0.7
10°-20°	507.2	2.3
20°-30°	987.9	4.5
30°-40°	1752.2	8.0
40°-50°	3023.1	13.7
50°-60°	4565.0	20.7
60°-70°	6078.3	27.6
70°-80°	4408.7	20.0
80°-90°	549.2	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°	22034.1	100.0
0°-180°	22034.1	100.0

Coefficient of Utilization



REPORT NUMBER: P1461224

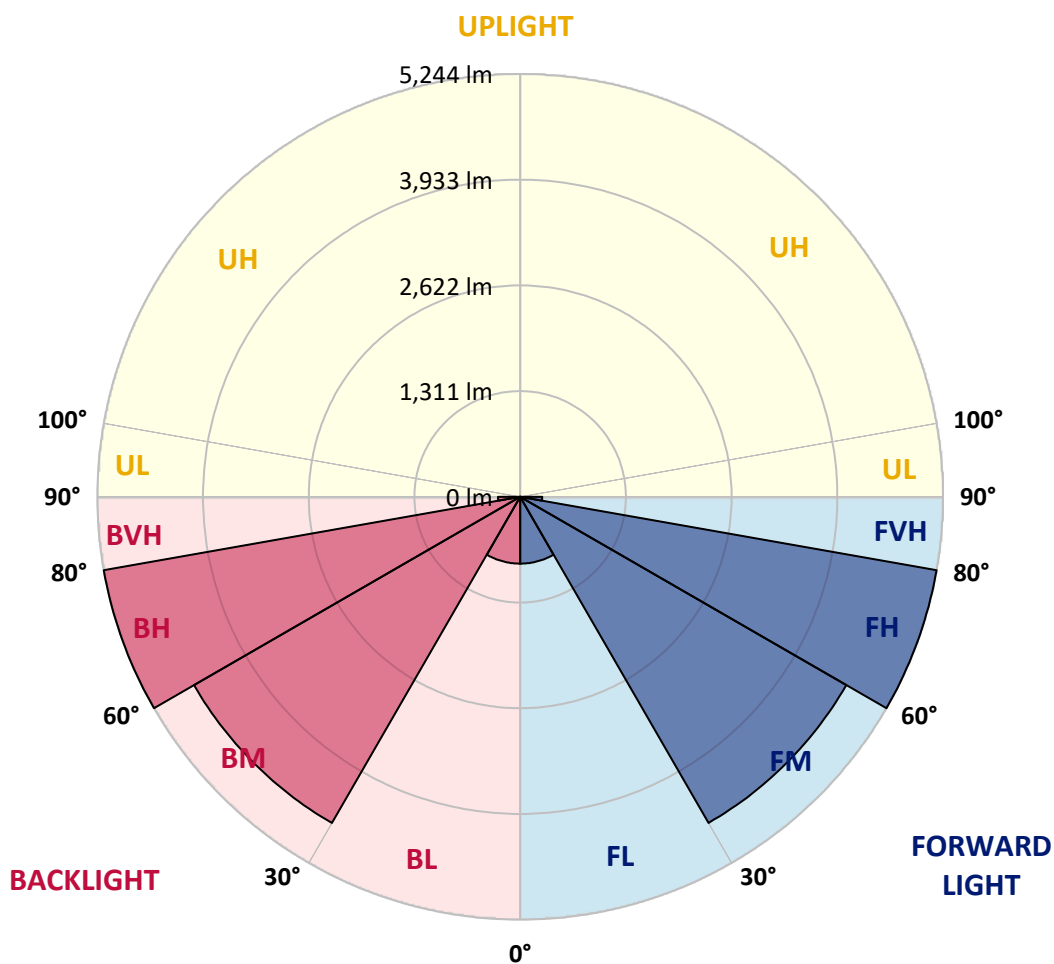
CATALOG NUMBER: USSL-150-740-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	828.8	3.8			
FM	(30°-60°)	4670.2	21.2			
FH	(60°-80°)	5243.5	23.8			G3/7500
FVH	(80°-90°)	274.6	1.2			G3/500
BL	(0°-30°)	828.8	3.8	B2/1000		
BM	(30°-60°)	4670.2	21.2	B3/5000		
BH	(60°-80°)	5243.5	23.8	B5		G3/7500
BVH	(80°-90°)	274.6	1.2			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



REPORT NUMBER: P1461224

CATALOG NUMBER: USSL-150-740-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1713.0	1713.0	1713.0	1713.0	1713.0	1713.0	1713.0	1713.0	1713.0	1713.0	1713.0
2.5°	1714.0	1714.0	1714.0	1714.0	1713.0	1712.0	1711.0	1711.0	1711.0	1710.0	1710.0
5°	1718.0	1717.0	1717.0	1716.0	1716.0	1712.0	1708.0	1705.0	1702.0	1699.0	1700.0
7.5°	1702.0	1704.0	1703.0	1705.0	1707.0	1705.0	1697.0	1688.0	1680.0	1673.0	1673.0
10°	1704.0	1703.0	1702.0	1703.0	1705.0	1704.0	1696.0	1684.0	1673.0	1665.0	1664.0
12.5°	1732.0	1732.0	1727.0	1723.0	1725.0	1723.0	1717.0	1703.0	1694.0	1686.0	1687.0
15°	1787.0	1785.0	1778.0	1772.0	1769.0	1768.0	1764.0	1754.0	1743.0	1734.0	1737.0
17.5°	1854.0	1854.0	1840.0	1837.0	1834.0	1842.0	1833.0	1819.0	1810.0	1805.0	1805.0
20°	1935.0	1937.0	1925.0	1919.0	1920.0	1921.0	1917.0	1902.0	1891.0	1886.0	1888.0
22.5°	2026.0	2022.0	2019.0	2016.0	2022.0	2023.0	2015.0	1997.0	1990.0	1980.0	1983.0
25°	2106.0	2106.0	2107.0	2123.0	2133.0	2148.0	2136.0	2108.0	2082.0	2072.0	2071.0
27.5°	2193.0	2191.0	2203.0	2226.0	2258.0	2272.0	2257.0	2222.0	2192.0	2177.0	2170.0
30°	2336.0	2335.0	2337.0	2366.0	2401.0	2422.0	2405.0	2376.0	2349.0	2335.0	2341.0
32.5°	2548.0	2536.0	2554.1	2584.1	2612.1	2621.1	2623.1	2590.1	2556.1	2544.0	2549.0
35°	2667.1	2664.1	2684.1	2720.1	2770.1	2811.1	2779.1	2750.1	2734.1	2717.1	2713.1
37.5°	2938.1	2937.1	2953.1	2950.1	2958.1	2949.1	2964.1	2976.1	2991.1	2978.1	2981.1
40°	3267.1	3259.1	3256.1	3250.1	3228.1	3214.1	3242.1	3263.1	3281.1	3306.1	3294.1
42.5°	3612.1	3599.1	3589.1	3571.1	3548.1	3538.1	3542.1	3580.1	3596.1	3599.1	3600.1
45°	4005.1	3981.1	3939.1	3907.1	3875.1	3872.1	3870.1	3878.1	3879.1	3879.1	3895.1
47.5°	4350.1	4347.1	4287.1	4232.1	4168.1	4168.1	4146.1	4143.1	4156.1	4173.1	4164.1
50°	4643.1	4633.1	4580.1	4533.1	4499.1	4458.1	4426.1	4401.1	4419.1	4434.1	4442.1
52.5°	4880.1	4879.1	4843.1	4825.1	4812.1	4787.1	4713.1	4668.1	4672.1	4690.1	4685.1
55°	5089.1	5103.1	5105.1	5128.1	5152.1	5134.1	5063.1	4995.1	4960.1	4934.1	4933.1
57.5°	5328.1	5337.1	5365.1	5439.1	5508.1	5524.1	5452.1	5351.1	5254.1	5190.1	5166.1
60°	5577.1	5579.1	5652.1	5769.1	5895.1	5948.1	5884.1	5718.1	5542.1	5403.1	5378.1
62.5°	5801.1	5796.1	5906.1	6083.1	6295.1	6381.1	6296.1	6053.1	5749.1	5555.1	5522.1
65°	5898.1	5911.1	6056.1	6328.1	6628.1	6796.1	6686.1	6282.1	5840.1	5578.1	5538.1
67.5°	5722.1	5759.1	5991.1	6418.1	6888.1	7183.1	6990.1	6376.1	5764.1	5424.1	5371.1
69°	5470.1	5479.1	5780.1	6339.1	6958.1	7318.1	7074.1	6327.1	5611.1	5179.1	5123.1
70°	5156.1	5219.1	5575.1	6212.1	6946.1	7360.1	7073.1	6234.1	5425.1	4970.1	4871.1
72.5°	4186.1	4209.1	4715.1	5690.1	6652.1	7131.1	6735.1	5720.1	4712.1	4035.1	4009.1
75°	2804.1	2915.1	3524.1	4702.1	5810.1	6310.1	5815.1	4696.1	3533.1	2688.1	2570.1
77.5°	1454.0	1517.0	2058.0	3064.1	4224.1	4814.1	4336.1	3286.1	2176.0	1314.0	1247.0
80°	715.0	749.0	951.0	1413.0	2188.0	2653.1	2430.0	1727.0	1019.0	651.0	612.0
82.5°	402.0	415.0	528.0	658.0	912.0	1062.0	994.0	842.0	512.0	386.0	375.0
85°	209.0	220.0	329.0	406.0	454.0	459.0	458.0	452.0	323.0	236.0	225.0
87.5°	99.0	109.0	169.0	223.0	235.0	227.0	241.0	209.0	153.0	107.0	94.0
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: SP2-2501-321-1

Test Date: 04/09/2025

Luminaire Tested: GKO-PB1E-740-U-T4W

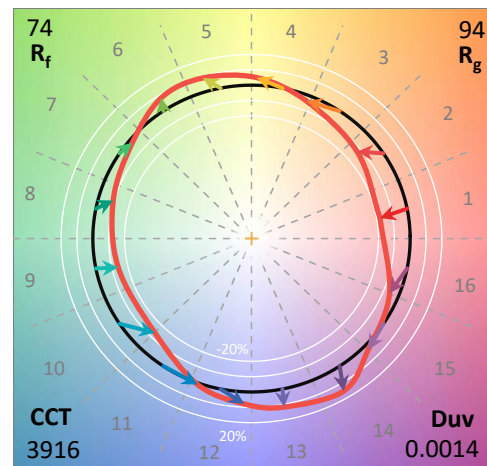
Data in this report applies to families of products including GKO-PB1E-740-U-T4W

Test Information

Test Method: LM-79-2019
 Report Number: SP2-2501-321-1
 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-740-U-T4W**
 Description: Gekko Wedge Wall Pack Fixture 1 SQ w/ T4W distribution

Spectral Parameters

CCT (K):	3916	CRI (Ra):	71.0		
CIE u':	0.2259	R1:	67.4	R9:	-37.9
CIE v':	0.5049	R2:	78.3	R10:	48.9
Duv:	0.0014	R3:	87.2	R11:	64.6
CIE x:	0.3853	R4:	69.5	R12:	40.9
CIE y:	0.3827	R5:	67.2	R13:	69.2
CIE z:	0.2321	R6:	69.3	R14:	92.7
Peak Wavelength (nm):	449	R7:	79.9	R15:	59.8
Dominant Wavelength (nm):	578	R8:	48.9		
Purity:	30.46652				
Rf:	73.5				
Rg:	93.5				



Test Conditions

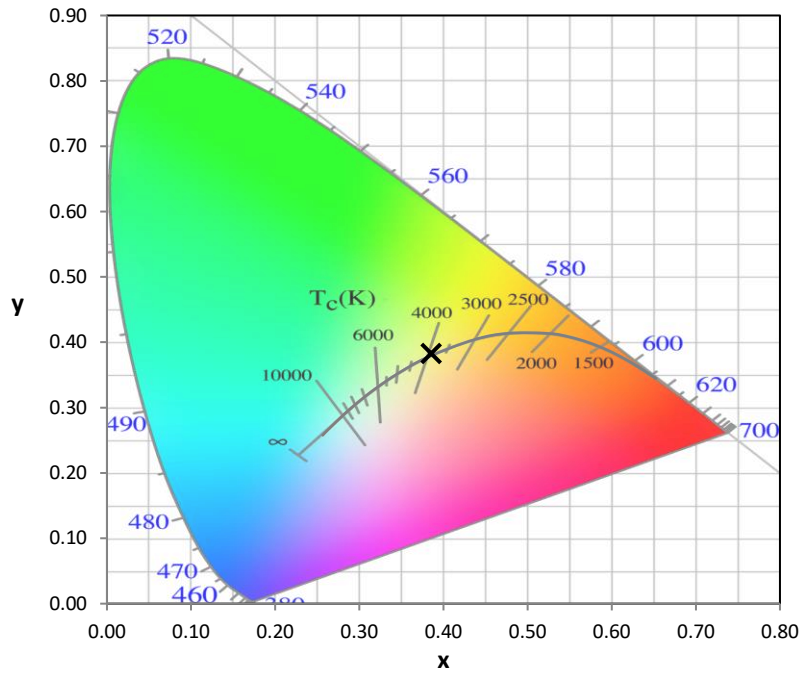
Stabilization Time: 33M
 Operation Time: 1H 33M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP2-2501-321-1

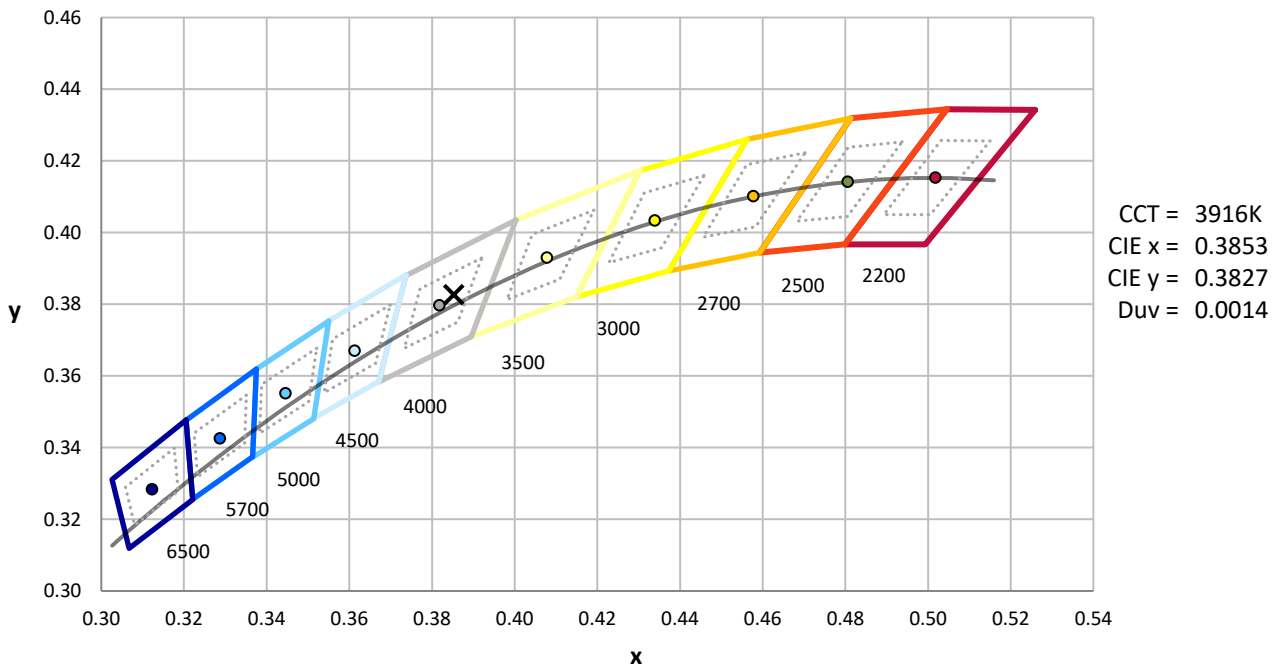
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN2187	1/6/2025	7/6/2025
Power Meter	INXT2011002	1/21/2025	1/21/2026
AC Power Source	IN0458	10/22/2024	10/22/2025
DC Power Source	IN0212	10/22/2024	10/22/2025
Sphere Thermometer	IN4036B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

REPORT NUMBER: SP2-2501-321-1

CIE 1931 Chromaticity Diagram



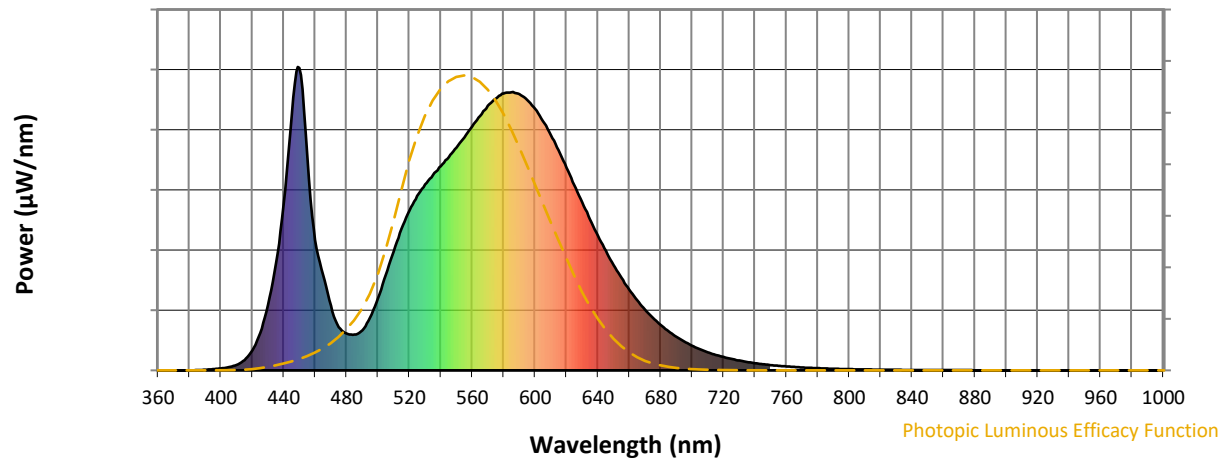
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP2-2501-321-1

Photopic Flux vs. Wavelength

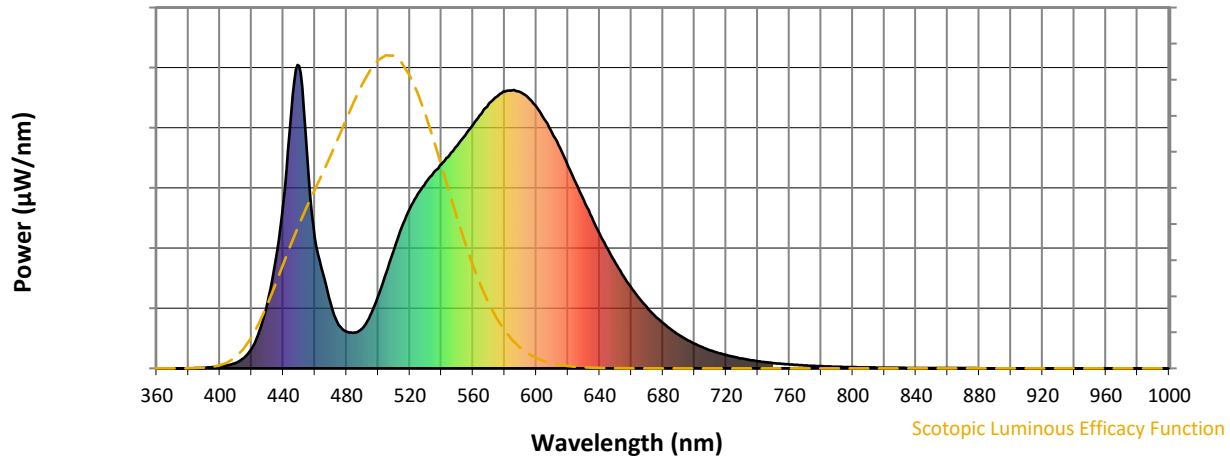


Photopic Lumens: NR

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	132	NR	620	668	NR	750	17	NR	880	1	NR
365	0	NR	495	174	NR	625	611	NR	755	15	NR	885	0	NR
370	0	NR	500	238	NR	630	554	NR	760	13	NR	890	0	NR
375	0	NR	505	314	NR	635	498	NR	765	11	NR	895	0	NR
380	0	NR	510	392	NR	640	445	NR	770	10	NR	900	0	NR
385	1	NR	515	467	NR	645	394	NR	775	8	NR	905	0	NR
390	2	NR	520	526	NR	650	347	NR	780	7	NR	910	0	NR
395	4	NR	525	575	NR	655	305	NR	785	6	NR	915	0	NR
400	6	NR	530	613	NR	660	266	NR	790	5	NR	920	0	NR
405	10	NR	535	644	NR	665	231	NR	795	5	NR	925	0	NR
410	18	NR	540	673	NR	670	200	NR	800	4	NR	930	0	NR
415	34	NR	545	703	NR	675	174	NR	805	4	NR	935	0	NR
420	66	NR	550	734	NR	680	150	NR	810	3	NR	940	0	NR
425	124	NR	555	768	NR	685	129	NR	815	3	NR	945	0	NR
430	216	NR	560	804	NR	690	111	NR	820	2	NR	950	0	NR
435	352	NR	565	838	NR	695	95	NR	825	2	NR	955	0	NR
440	548	NR	570	872	NR	700	81	NR	830	2	NR	960	0	NR
445	836	NR	575	896	NR	705	69	NR	835	2	NR	965	0	NR
450	997	NR	580	913	NR	710	60	NR	840	1	NR	970	0	NR
455	705	NR	585	917	NR	715	51	NR	845	1	NR	975	0	NR
460	429	NR	590	911	NR	720	44	NR	850	1	NR	980	0	NR
465	316	NR	595	891	NR	725	38	NR	855	1	NR	985	0	NR
470	213	NR	600	862	NR	730	32	NR	860	1	NR	990	0	NR
475	143	NR	605	822	NR	735	28	NR	865	1	NR	995	0	NR
480	121	NR	610	776	NR	740	24	NR	870	1	NR	1000	0	NR
485	118	NR	615	725	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP2-2501-321-1

Scotopic Flux vs. Wavelength



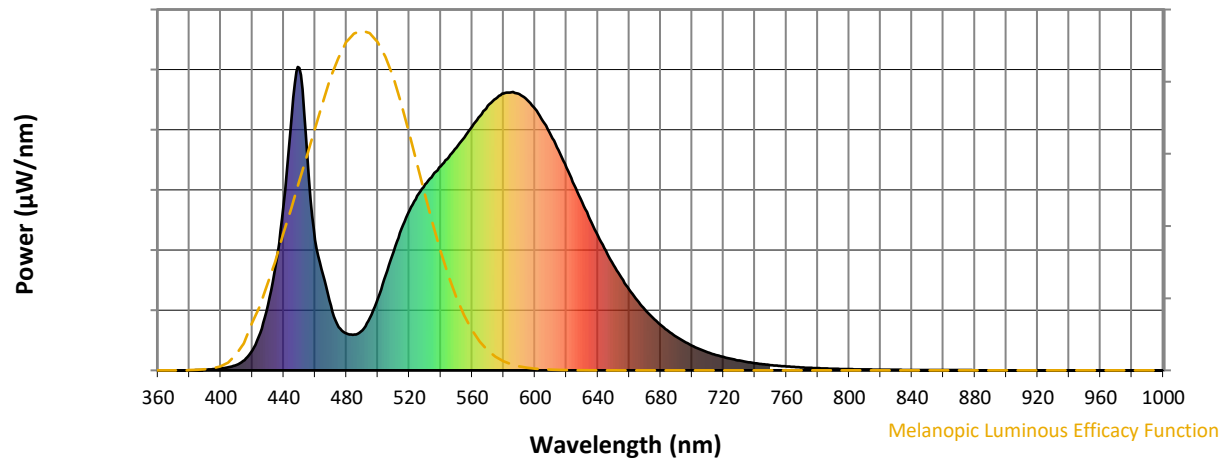
Scotopic Lumens: NR

S/P: 1.49

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	132	NR	620	668	NR	750	17	NR	880	1	NR
365	0	NR	495	174	NR	625	611	NR	755	15	NR	885	0	NR
370	0	NR	500	238	NR	630	554	NR	760	13	NR	890	0	NR
375	0	NR	505	314	NR	635	498	NR	765	11	NR	895	0	NR
380	0	NR	510	392	NR	640	445	NR	770	10	NR	900	0	NR
385	1	NR	515	467	NR	645	394	NR	775	8	NR	905	0	NR
390	2	NR	520	526	NR	650	347	NR	780	7	NR	910	0	NR
395	4	NR	525	575	NR	655	305	NR	785	6	NR	915	0	NR
400	6	NR	530	613	NR	660	266	NR	790	5	NR	920	0	NR
405	10	NR	535	644	NR	665	231	NR	795	5	NR	925	0	NR
410	18	NR	540	673	NR	670	200	NR	800	4	NR	930	0	NR
415	34	NR	545	703	NR	675	174	NR	805	4	NR	935	0	NR
420	66	NR	550	734	NR	680	150	NR	810	3	NR	940	0	NR
425	124	NR	555	768	NR	685	129	NR	815	3	NR	945	0	NR
430	216	NR	560	804	NR	690	111	NR	820	2	NR	950	0	NR
435	352	NR	565	838	NR	695	95	NR	825	2	NR	955	0	NR
440	548	NR	570	872	NR	700	81	NR	830	2	NR	960	0	NR
445	836	NR	575	896	NR	705	69	NR	835	2	NR	965	0	NR
450	997	NR	580	913	NR	710	60	NR	840	1	NR	970	0	NR
455	705	NR	585	917	NR	715	51	NR	845	1	NR	975	0	NR
460	429	NR	590	911	NR	720	44	NR	850	1	NR	980	0	NR
465	316	NR	595	891	NR	725	38	NR	855	1	NR	985	0	NR
470	213	NR	600	862	NR	730	32	NR	860	1	NR	990	0	NR
475	143	NR	605	822	NR	735	28	NR	865	1	NR	995	0	NR
480	121	NR	610	776	NR	740	24	NR	870	1	NR	1000	0	NR
485	118	NR	615	725	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP2-2501-321-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.88

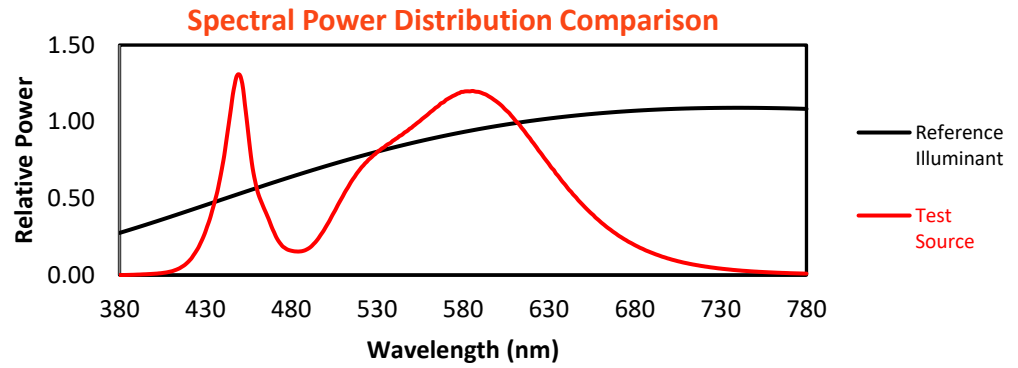
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	132	NR	620	668	NR	750	17	NR	880	1	NR
365	0	NR	495	174	NR	625	611	NR	755	15	NR	885	0	NR
370	0	NR	500	238	NR	630	554	NR	760	13	NR	890	0	NR
375	0	NR	505	314	NR	635	498	NR	765	11	NR	895	0	NR
380	0	NR	510	392	NR	640	445	NR	770	10	NR	900	0	NR
385	1	NR	515	467	NR	645	394	NR	775	8	NR	905	0	NR
390	2	NR	520	526	NR	650	347	NR	780	7	NR	910	0	NR
395	4	NR	525	575	NR	655	305	NR	785	6	NR	915	0	NR
400	6	NR	530	613	NR	660	266	NR	790	5	NR	920	0	NR
405	10	NR	535	644	NR	665	231	NR	795	5	NR	925	0	NR
410	18	NR	540	673	NR	670	200	NR	800	4	NR	930	0	NR
415	34	NR	545	703	NR	675	174	NR	805	4	NR	935	0	NR
420	66	NR	550	734	NR	680	150	NR	810	3	NR	940	0	NR
425	124	NR	555	768	NR	685	129	NR	815	3	NR	945	0	NR
430	216	NR	560	804	NR	690	111	NR	820	2	NR	950	0	NR
435	352	NR	565	838	NR	695	95	NR	825	2	NR	955	0	NR
440	548	NR	570	872	NR	700	81	NR	830	2	NR	960	0	NR
445	836	NR	575	896	NR	705	69	NR	835	2	NR	965	0	NR
450	997	NR	580	913	NR	710	60	NR	840	1	NR	970	0	NR
455	705	NR	585	917	NR	715	51	NR	845	1	NR	975	0	NR
460	429	NR	590	911	NR	720	44	NR	850	1	NR	980	0	NR
465	316	NR	595	891	NR	725	38	NR	855	1	NR	985	0	NR
470	213	NR	600	862	NR	730	32	NR	860	1	NR	990	0	NR
475	143	NR	605	822	NR	735	28	NR	865	1	NR	995	0	NR
480	121	NR	610	776	NR	740	24	NR	870	1	NR	1000	0	NR
485	118	NR	615	725	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP2-2501-321-1

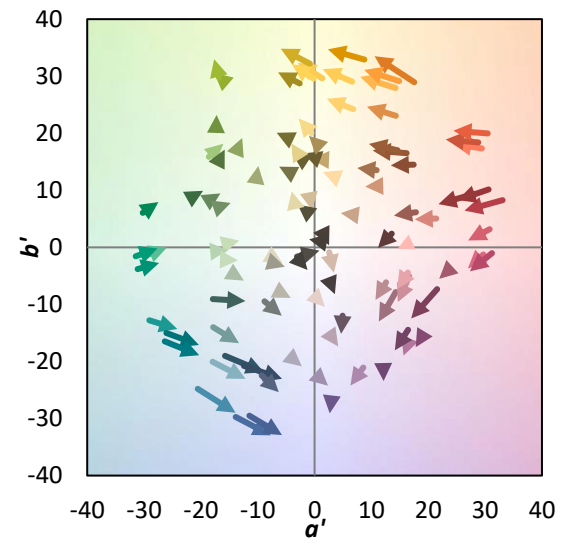
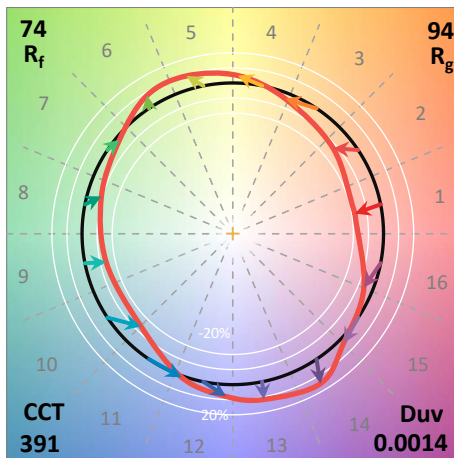
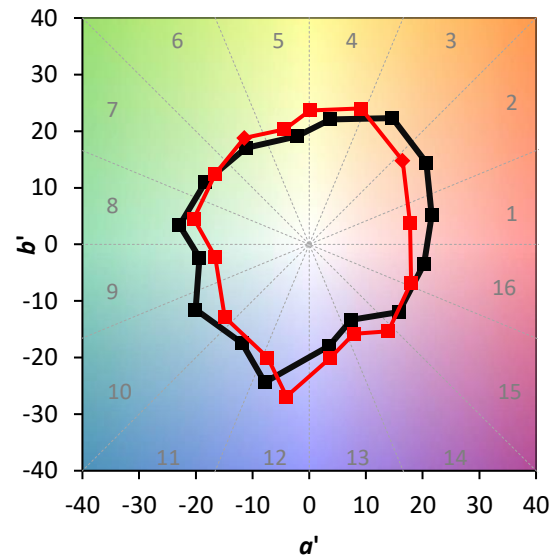
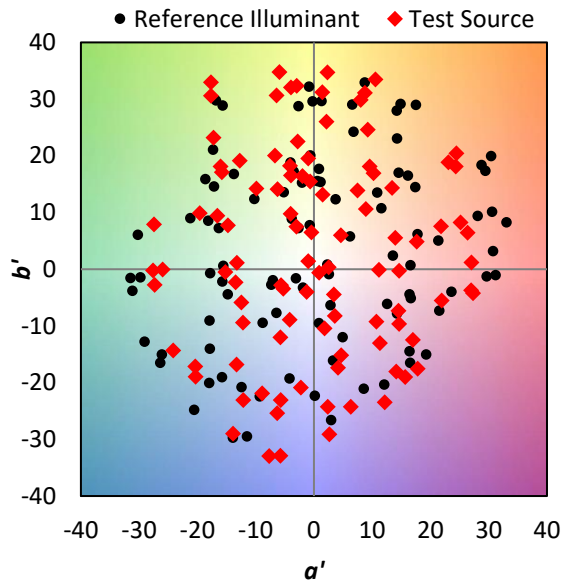
TM-30-18

Summary

$R_f = 73.5$
 $R_g = 93.5$
 $CIE R_a = 71.0$
 $R_g = -37.9$

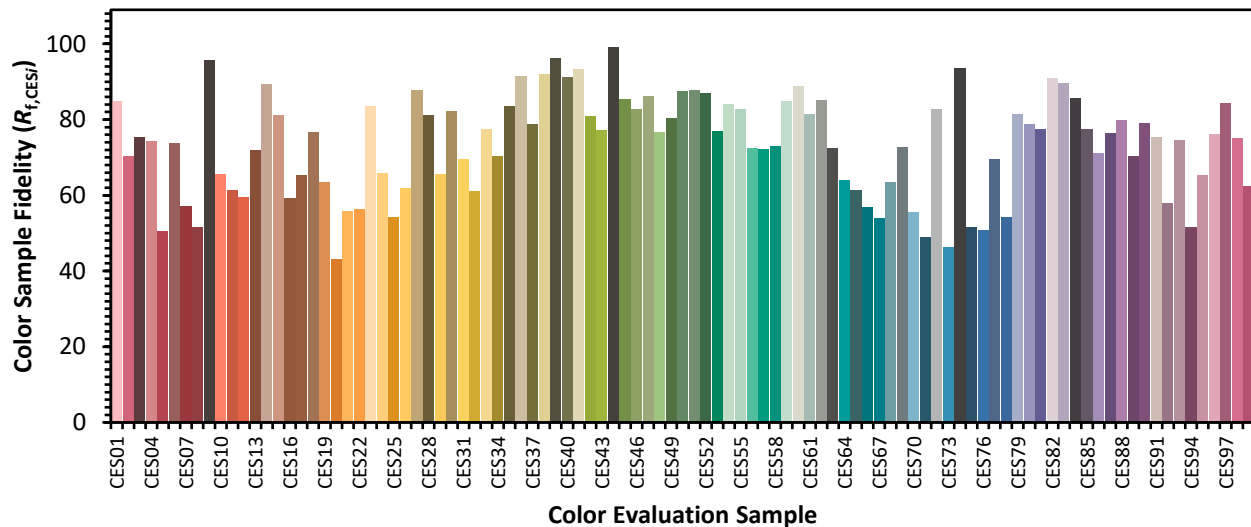


Color Vector Graphics

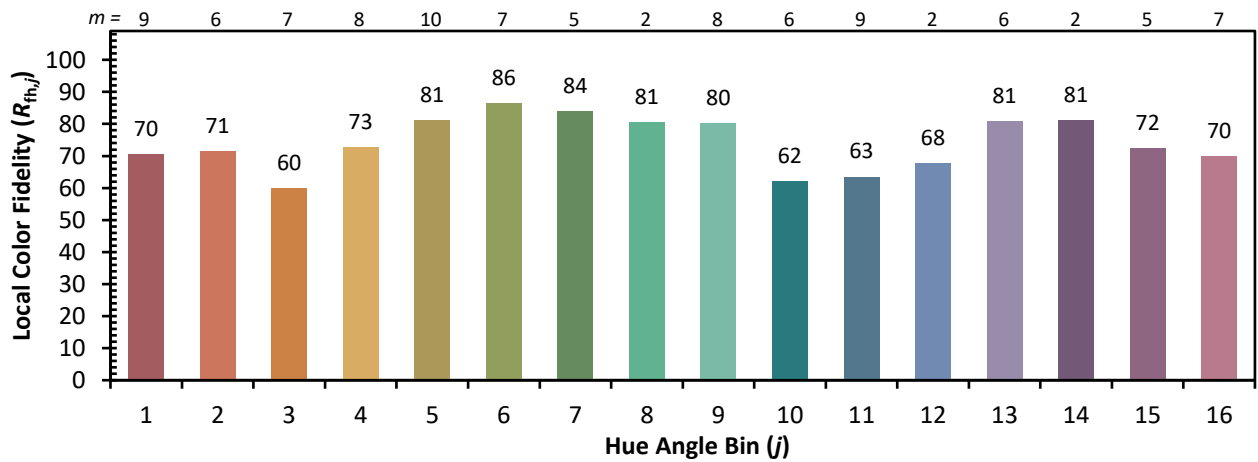
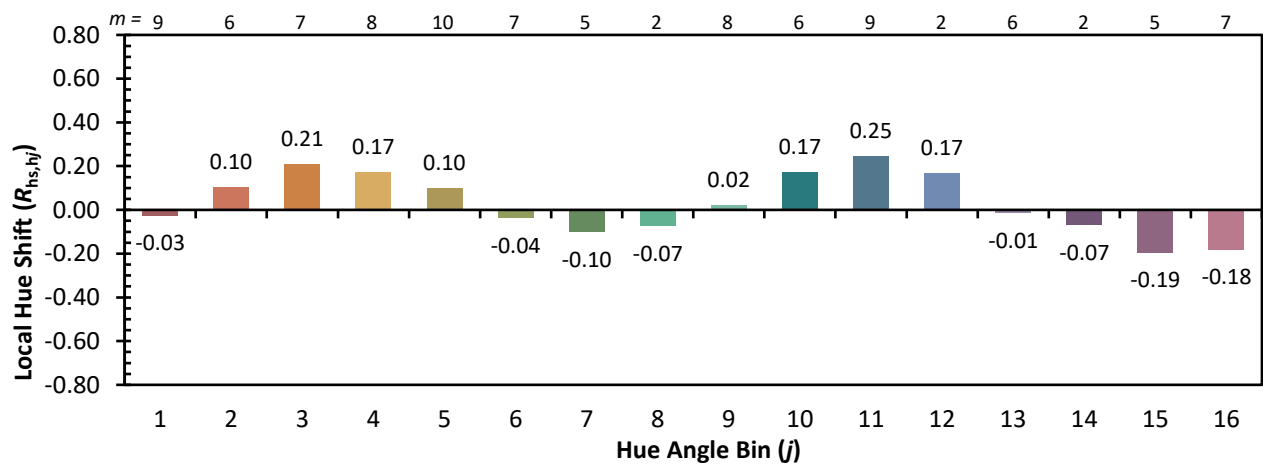
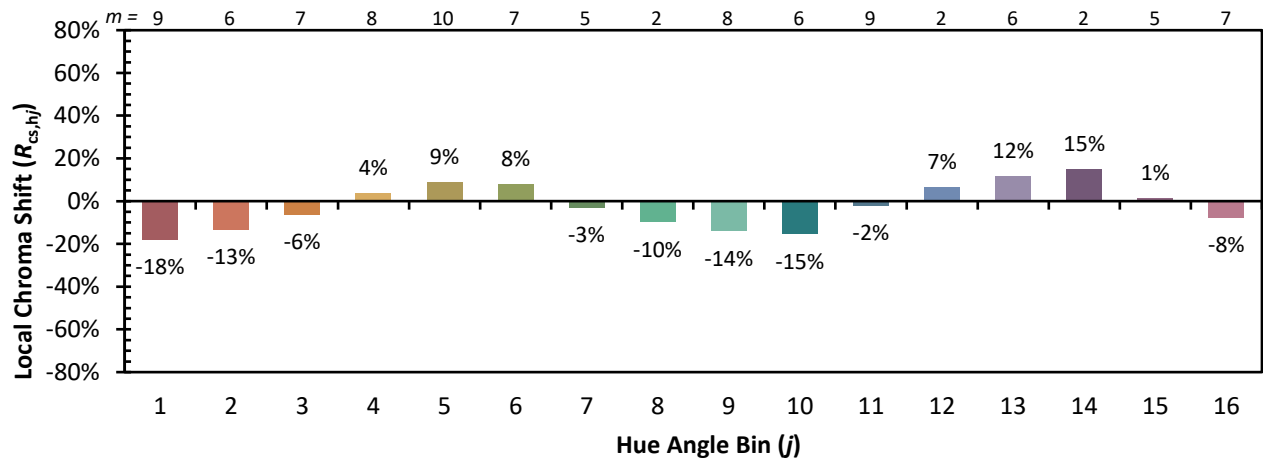


Individual Sample Fidelity Index ($R_{f,i}$)

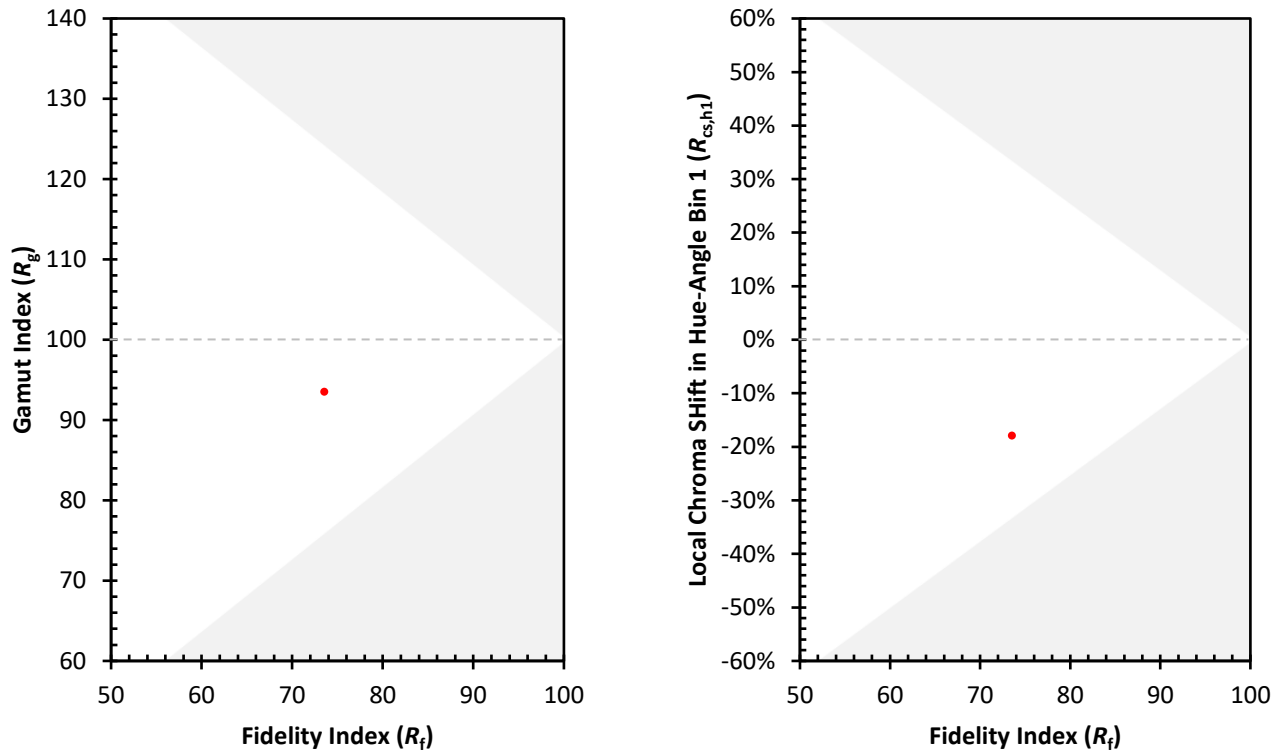
CES01 = 85	CES26 = 62	CES51 = 88	CES76 = 51
CES02 = 61	CES27 = 88	CES52 = 87	CES77 = 70
CES03 = 30	CES28 = 81	CES53 = 77	CES78 = 54
CES04 = 70	CES29 = 66	CES54 = 84	CES79 = 81
CES05 = 47	CES30 = 82	CES55 = 83	CES80 = 79
CES06 = 50	CES31 = 69	CES56 = 73	CES81 = 77
CES07 = 40	CES32 = 61	CES57 = 72	CES82 = 91
CES08 = 39	CES33 = 77	CES58 = 73	CES83 = 90
CES09 = 29	CES34 = 70	CES59 = 85	CES84 = 86
CES10 = 74	CES35 = 84	CES60 = 89	CES85 = 77
CES11 = 57	CES36 = 91	CES61 = 81	CES86 = 71
CES12 = 63	CES37 = 79	CES62 = 85	CES87 = 76
CES13 = 42	CES38 = 92	CES63 = 72	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 64	CES89 = 70
CES15 = 71	CES40 = 91	CES65 = 61	CES90 = 79
CES16 = 46	CES41 = 93	CES66 = 57	CES91 = 75
CES17 = 49	CES42 = 81	CES67 = 54	CES92 = 58
CES18 = 56	CES43 = 77	CES68 = 63	CES93 = 75
CES19 = 72	CES44 = 99	CES69 = 73	CES94 = 52
CES20 = 65	CES45 = 85	CES70 = 56	CES95 = 65
CES21 = 86	CES46 = 83	CES71 = 49	CES96 = 76
CES22 = 78	CES47 = 86	CES72 = 83	CES97 = 84
CES23 = 92	CES48 = 77	CES73 = 46	CES98 = 75
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 62
CES25 = 72	CES50 = 87	CES75 = 52	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)