

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: P1461651

Luminaire Tested: USSL-110-730-U-T3R

Issue Date: 06/10/2026

Test Information

Test Method: LM-79-2024
Report Number: P1461651
Test Lab: INNOVATION CENTER(G3)
Issue Date: 6/11/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: USSL-110-730-U-T3R
Description: USSL DISCRETE LED 1 SQUARE 110W 70CRI 3000K FIXTURE w/ TYPE III DISTRIBUTION OPTIC
Light Source: (40) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16236.1 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 2.87%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

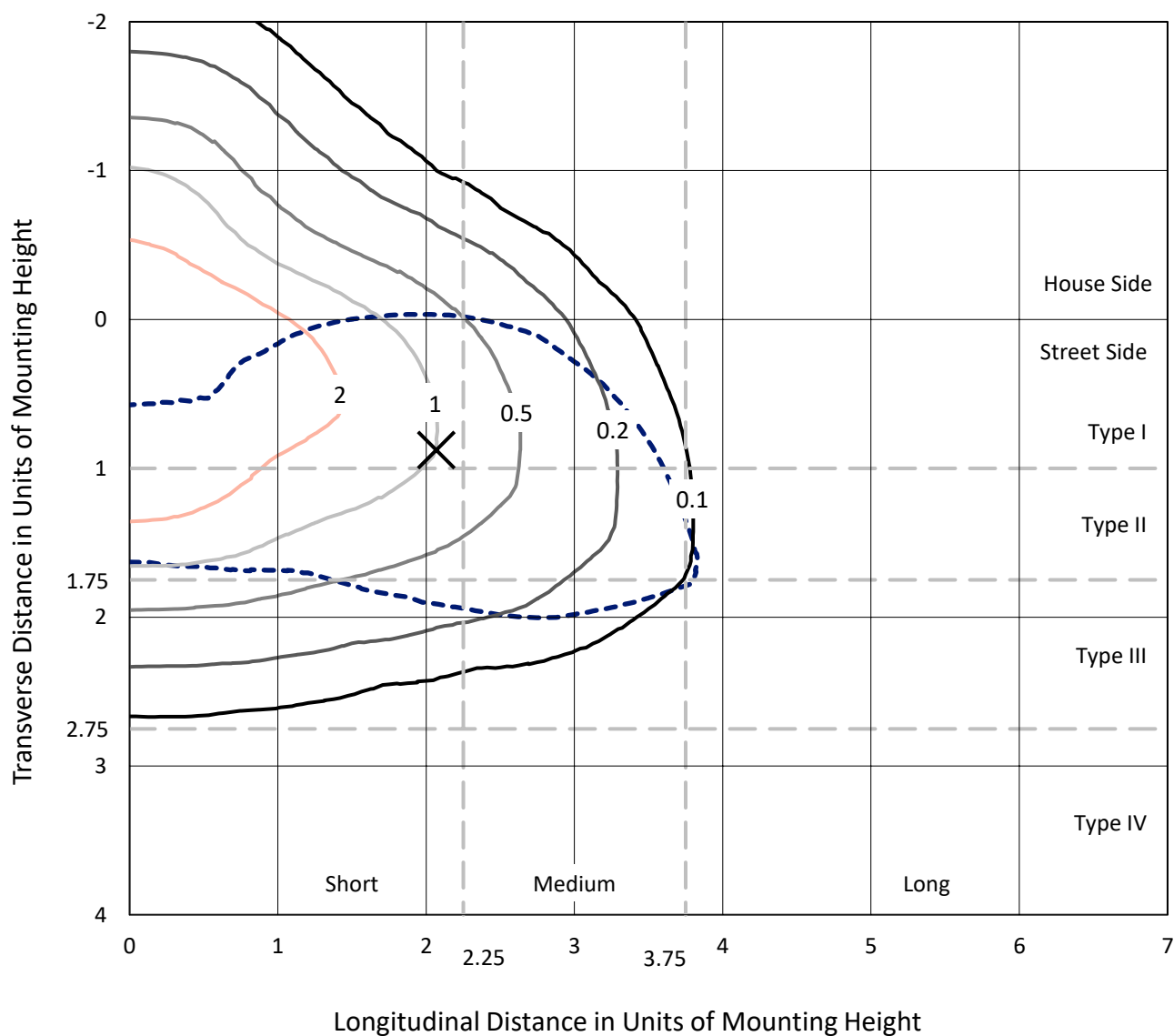
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

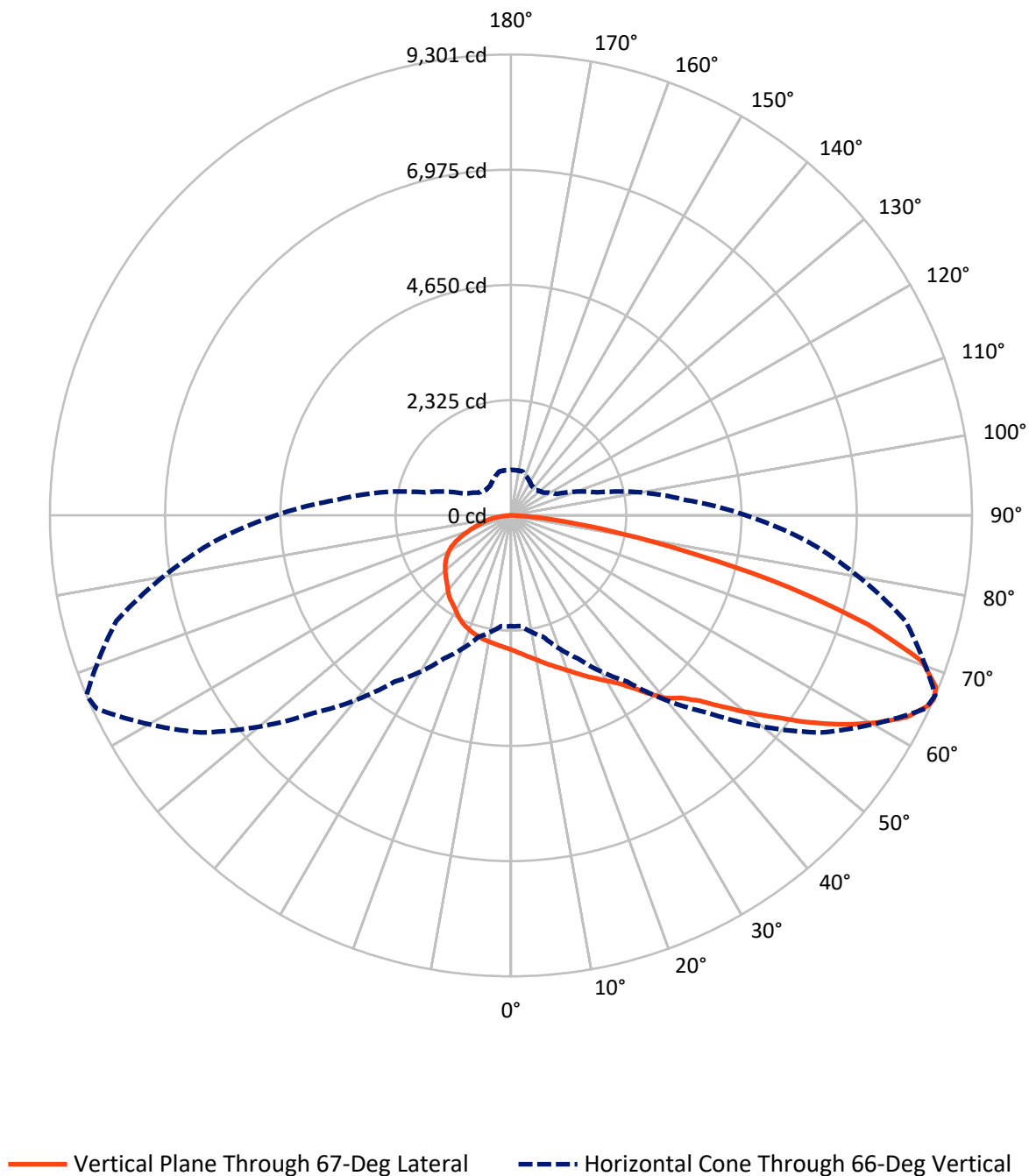


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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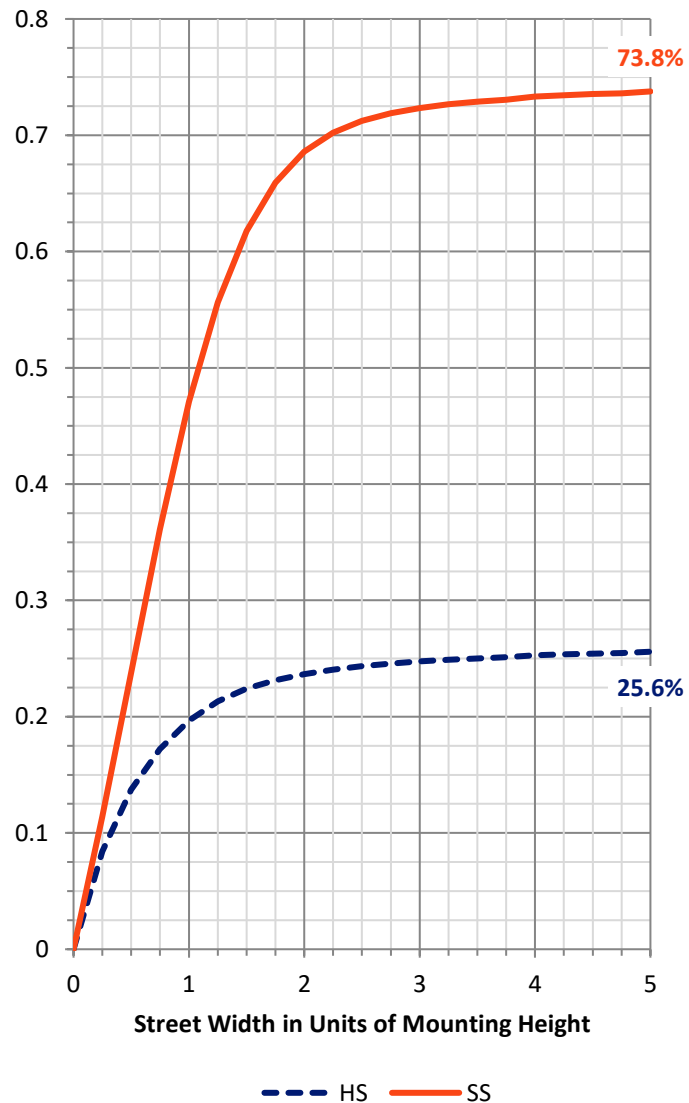
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4207.8	0.0	4207.8
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	12028.3	0.0	12028.3
	% Fixture	74.1	0.0	74.1
Total	Lumens	16236.1	0.0	16236.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.4	1.6
10°-20°	786.9	4.8
20°-30°	1339.3	8.2
30°-40°	2093.7	12.9
40°-50°	2895.3	17.8
50°-60°	3472.0	21.4
60°-70°	3350.4	20.6
70°-80°	1729.1	10.6
80°-90°	307.9	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°	16236.1	100.0
0°-180°	16236.1	100.0

Coefficient of Utilization



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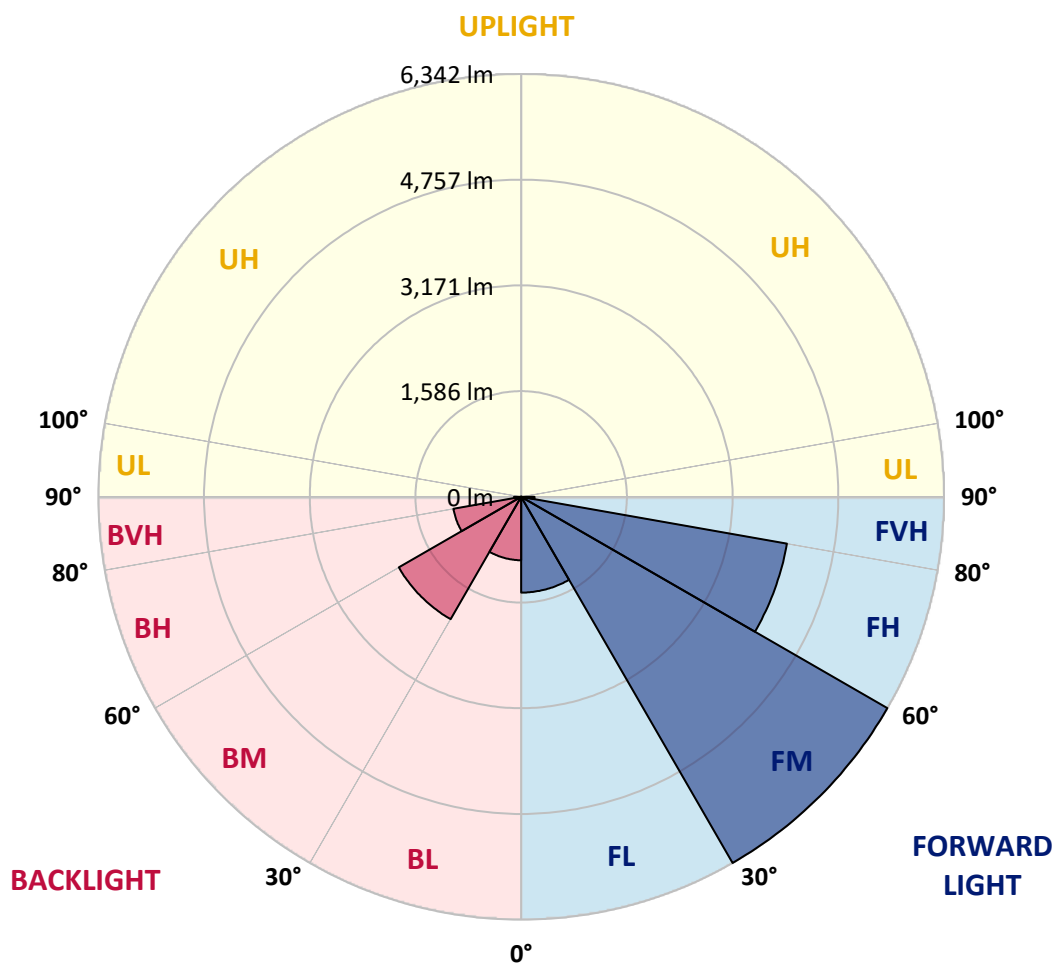
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1436.8	8.8			
FM	(30°-60°)	6342.5	39.1			
FH	(60°-80°)	4047.9	24.9			G2/5000
FVH	(80°-90°)	201.1	1.2			G2/225
BL	(0°-30°)	950.8	5.9	B2/1000		
BM	(30°-60°)	2118.6	13.0	B2/2500		
BH	(60°-80°)	1031.6	6.4	B3/2500		G3/2500
BVH	(80°-90°)	106.8	0.7			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4
2.5°	2823.5	2825.8	2827.3	2822.8	2808.4	2798.6	2791.1	2766.9	2767.7	2752.6	2724.7
5°	2931.4	2942.7	2939.7	2931.4	2914.1	2889.9	2863.5	2825.0	2828.0	2795.6	2747.3
7.5°	3034.0	3048.4	3043.1	3036.3	3016.7	2985.7	2954.8	2899.0	2896.7	2847.7	2774.5
10°	3115.5	3130.6	3130.6	3126.1	3117.8	3082.3	3042.3	2982.0	2969.9	2901.2	2813.7
12.5°	3182.7	3196.3	3205.3	3201.5	3204.6	3180.4	3136.7	3071.0	3058.9	2967.6	2857.5
15°	3222.7	3248.3	3255.1	3267.2	3283.0	3273.2	3243.0	3154.8	3147.2	3044.6	2903.5
17.5°	3263.4	3277.8	3294.4	3324.5	3350.2	3365.3	3335.1	3261.2	3241.5	3117.8	2951.8
20°	3311.0	3337.4	3355.5	3387.2	3423.4	3460.4	3453.6	3366.0	3346.4	3209.1	3010.6
22.5°	3437.0	3455.8	3464.1	3486.0	3529.0	3566.0	3570.5	3493.6	3469.4	3320.0	3080.8
25°	3690.5	3711.6	3679.9	3655.8	3643.7	3676.2	3698.8	3627.9	3601.5	3430.2	3149.5
27.5°	4141.7	4141.0	4048.9	3950.8	3845.9	3807.4	3823.3	3762.9	3734.3	3537.3	3229.5
30°	4654.1	4679.0	4601.2	4363.6	4116.8	3961.4	3971.2	3903.3	3881.4	3667.1	3322.3
32.5°	5189.8	5204.1	5111.3	4882.7	4485.0	4199.1	4141.0	4084.4	4052.7	3839.9	3442.2
35°	5450.1	5478.8	5429.0	5210.2	4809.5	4490.3	4390.7	4330.3	4287.3	4044.4	3596.9
37.5°	5786.6	5828.1	5818.3	5507.4	5011.7	4723.5	4653.3	4594.4	4575.6	4300.2	3793.1
40°	6282.4	6280.9	6302.7	5806.2	5226.8	4884.9	4887.2	4889.5	4852.5	4510.7	3938.7
42.5°	6522.3	6515.5	6442.3	5971.5	5477.3	5044.2	5072.8	5069.8	5031.3	4670.7	4054.2
45°	6595.5	6587.2	6412.9	6098.3	5869.6	5223.7	5306.0	5367.9	5336.2	4961.9	4284.3
47.5°	6544.2	6527.6	6431.8	6173.7	6084.7	5539.9	5573.1	5775.3	5769.3	5324.8	4551.4
50°	6416.7	6370.6	6342.0	6200.9	6022.0	5681.0	5903.6	6278.6	6264.3	5770.0	4836.7
52.5°	6135.2	6129.2	6165.4	6072.6	5892.3	5744.4	6265.0	6783.4	6786.4	6222.8	5124.1
55°	5785.1	5763.2	5877.2	5869.6	5756.4	5870.4	6620.4	7362.9	7384.0	6690.6	5432.7
57.5°	4944.6	4969.5	5456.1	5592.7	5614.6	5999.4	6999.9	7909.9	7953.7	7164.4	5696.8
60°	4122.8	4171.1	4521.3	5137.7	5392.8	6066.6	7355.3	8466.8	8484.9	7639.0	5936.8
62.5°	3418.1	3403.8	3723.7	4419.4	5035.9	6040.2	7606.6	8897.6	8963.3	8017.1	6074.1
65°	2535.3	2569.2	2916.3	3532.8	4431.5	5790.4	7685.8	9195.7	9250.0	8226.8	6068.8
66°	2235.7	2241.8	2539.8	3182.7	4094.9	5635.7	7635.3	9223.6	9300.6	8241.9	6004.7
67.5°	1847.9	1856.2	2093.1	2619.0	3564.5	5299.2	7442.1	9172.3	9246.2	8158.2	5803.2
70°	1312.2	1356.7	1483.4	1837.3	2512.6	4310.7	6821.1	8616.9	8786.0	7627.0	5215.4
72.5°	950.0	962.0	1064.7	1248.0	1579.3	2874.1	5644.8	7421.0	7529.6	6378.2	4157.6
75°	677.6	692.7	779.4	852.6	1045.0	1773.2	3980.2	5813.0	5787.4	4563.5	2832.6
77.5°	526.7	538.0	569.7	608.9	701.7	1014.1	2395.7	3928.2	3872.3	2860.5	1765.6
80°	427.8	430.8	421.0	436.9	483.7	639.1	1371.0	2345.9	2296.1	1614.0	1069.2
82.5°	333.5	337.3	329.7	319.2	342.6	431.6	800.6	1240.5	1233.7	935.6	579.5
85°	213.5	221.8	212.8	197.7	213.5	262.6	421.8	528.9	508.6	423.3	220.3
87.5°	119.2	117.7	107.9	86.8	75.5	95.1	117.7	118.5	113.9	99.6	60.4
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°	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4
2.5°	2718.6	2713.4	2691.5	2671.9	2651.5	2639.4	2621.3	2613.0	2603.2	2594.9	2587.3
5°	2733.7	2715.6	2674.1	2635.6	2598.7	2574.5	2542.1	2526.2	2508.1	2501.3	2492.3
7.5°	2751.8	2717.1	2661.3	2601.7	2551.9	2507.4	2465.9	2441.0	2420.6	2414.6	2413.8
10°	2775.2	2733.0	2650.0	2572.3	2502.8	2442.5	2389.7	2351.9	2329.3	2321.0	2317.2
12.5°	2803.1	2747.3	2642.4	2543.6	2453.0	2379.1	2313.4	2265.9	2244.0	2230.4	2232.0
15°	2836.3	2765.4	2634.1	2510.4	2395.7	2307.4	2227.4	2173.1	2147.4	2137.6	2136.1
17.5°	2871.1	2782.0	2625.1	2471.1	2332.3	2223.7	2139.9	2078.8	2046.3	2044.1	2050.1
20°	2911.0	2806.9	2614.5	2426.6	2265.9	2141.4	2048.6	1995.0	1962.6	1959.6	1971.6
22.5°	2957.8	2831.1	2598.7	2375.3	2192.0	2056.1	1964.8	1913.5	1887.9	1890.9	1900.7
25°	3010.6	2857.5	2578.3	2318.0	2109.7	1967.1	1882.6	1846.4	1830.5	1836.6	1850.2
27.5°	3062.7	2886.9	2547.4	2247.0	2021.4	1885.6	1825.3	1798.8	1794.3	1805.6	1821.5
30°	3126.8	2915.6	2510.4	2163.3	1926.4	1814.7	1771.7	1765.6	1770.2	1780.0	1798.1
32.5°	3215.9	2973.7	2484.7	2086.3	1842.6	1744.5	1737.0	1746.8	1758.9	1771.7	1792.1
35°	3335.9	3047.6	2477.9	2022.9	1766.4	1688.7	1707.5	1746.8	1767.2	1782.2	1801.9
37.5°	3486.8	3138.2	2468.1	1964.1	1694.7	1632.8	1687.2	1757.3	1784.5	1792.1	1807.1
40°	3571.3	3164.6	2398.0	1887.1	1626.1	1583.8	1666.0	1759.6	1783.0	1794.3	1807.1
42.5°	3649.0	3177.4	2332.3	1809.4	1572.5	1533.2	1629.8	1732.4	1770.9	1820.0	1836.6
45°	3799.1	3261.2	2305.9	1740.0	1516.6	1476.7	1559.7	1668.3	1765.6	1820.0	1833.6
47.5°	3993.8	3354.7	2280.2	1675.9	1454.0	1400.4	1452.5	1620.0	1728.7	1770.2	1775.5
50°	4196.0	3438.5	2246.3	1614.7	1376.3	1297.1	1362.0	1549.8	1665.3	1684.9	1689.4
52.5°	4378.6	3515.4	2213.1	1550.6	1294.8	1195.2	1268.4	1451.8	1555.9	1561.2	1572.5
55°	4561.2	3589.4	2172.3	1483.4	1197.5	1090.3	1162.0	1323.5	1405.7	1397.4	1397.4
57.5°	4704.6	3655.8	2135.4	1400.4	1106.2	999.8	1051.8	1178.6	1256.3	1248.8	1242.0
60°	4825.3	3698.8	2091.6	1303.9	1014.1	912.2	944.7	1057.1	1132.6	1116.0	1116.0
62.5°	4873.6	3699.5	2019.9	1201.2	919.8	827.7	848.9	949.2	1034.5	1024.7	1030.7
65°	4818.5	3629.4	1870.5	1075.2	830.8	747.0	764.4	850.4	950.7	947.7	953.7
66°	4742.3	3547.9	1790.5	1023.9	799.1	722.1	728.1	816.4	916.0	917.5	916.8
67.5°	4576.3	3401.5	1647.2	950.7	747.8	674.6	682.1	770.4	869.2	861.7	864.7
70°	4150.8	2926.9	1352.9	820.9	670.8	597.6	609.7	701.0	774.2	766.6	765.1
72.5°	3317.7	2208.6	1092.6	701.0	593.1	529.7	547.8	611.2	701.7	698.0	700.2
75°	2200.3	1443.4	859.4	590.1	511.6	476.1	477.6	532.0	619.5	630.8	637.6
77.5°	1370.3	987.7	691.2	495.7	429.3	398.4	401.4	458.8	530.4	535.7	541.8
80°	879.0	728.1	544.8	402.2	328.2	321.4	331.2	384.1	443.7	448.2	445.2
82.5°	530.4	471.6	407.5	287.5	253.5	253.5	267.1	308.6	330.5	256.5	239.9
85°	211.3	245.2	221.8	158.5	163.0	166.8	175.1	209.0	220.3	116.2	91.3
87.5°	49.0	67.2	65.6	46.0	50.6	55.1	54.3	88.3	110.2	49.8	28.7
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: SP2-2501-321-4

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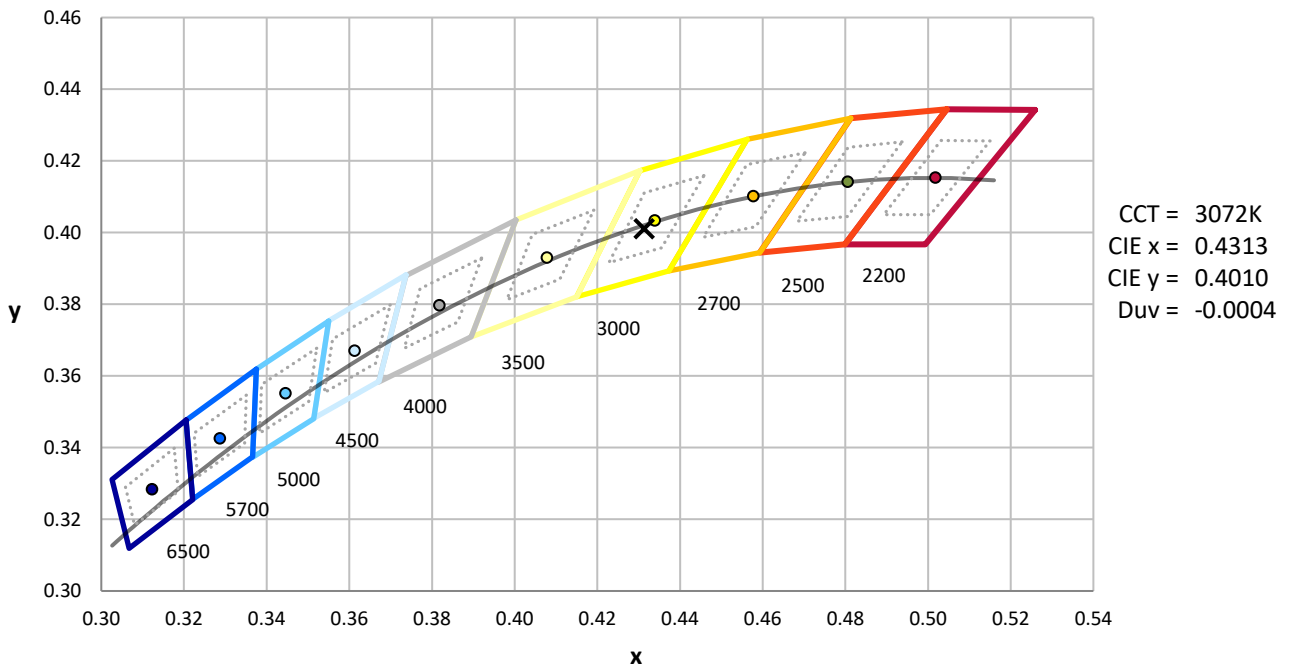
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN2187	1/6/2025	7/6/2025
Power Meter	INXT2011002	1/21/2025	1/21/2026
AC Power Source	IN0458	10/22/2024	10/22/2025
DC Power Source	IN0212	10/22/2024	10/22/2025
Sphere Thermometer	IN4036B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

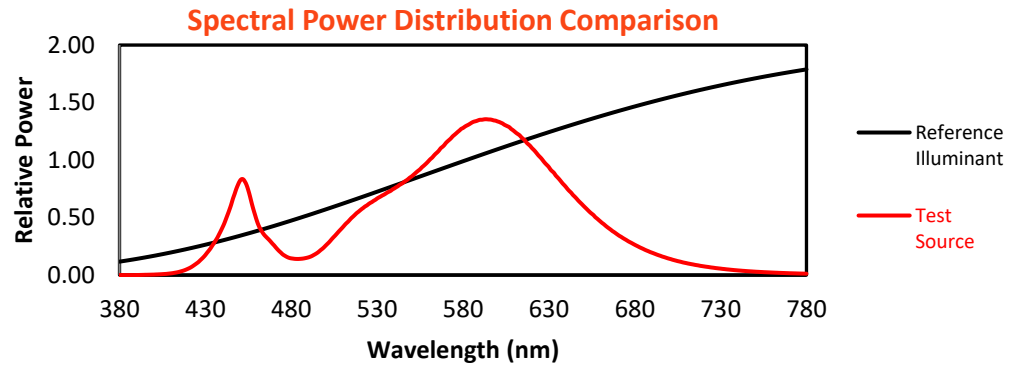
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	114	NR	620	817	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			

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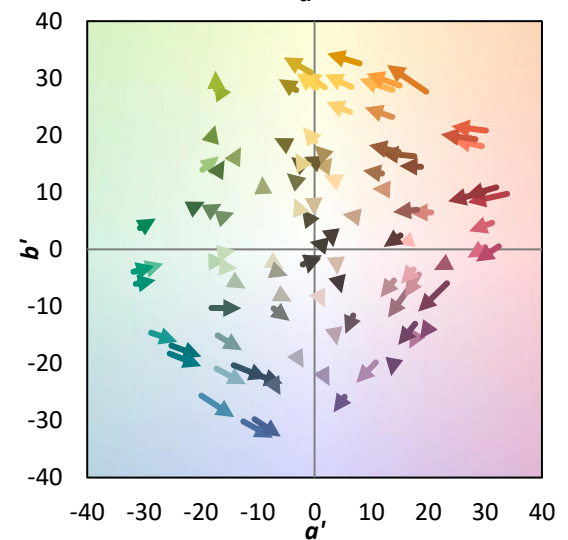
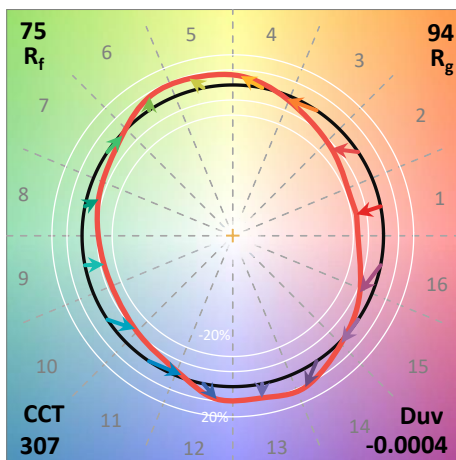
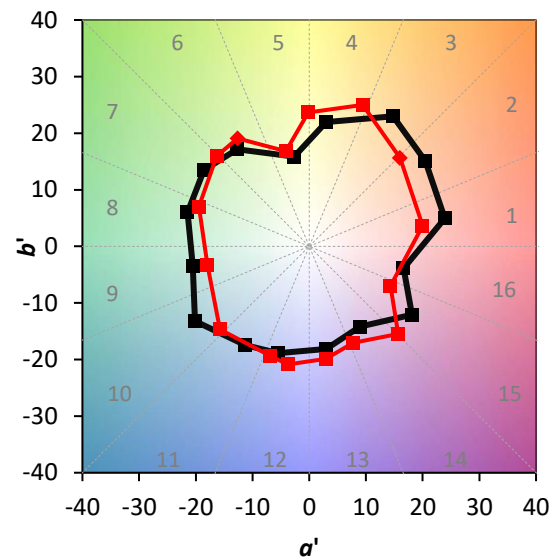
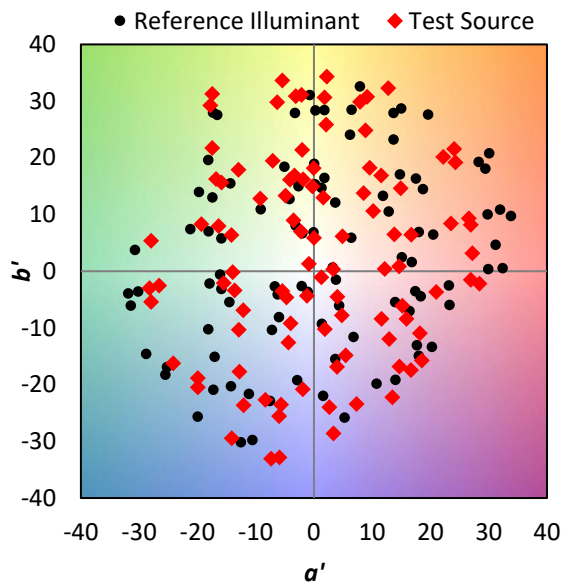
TM-30-18

Summary

$R_f = 74.7$
 $R_g = 94.2$
 $\text{CIE } R_a = 71.7$
 $R_g = -33.9$



Color Vector Graphics

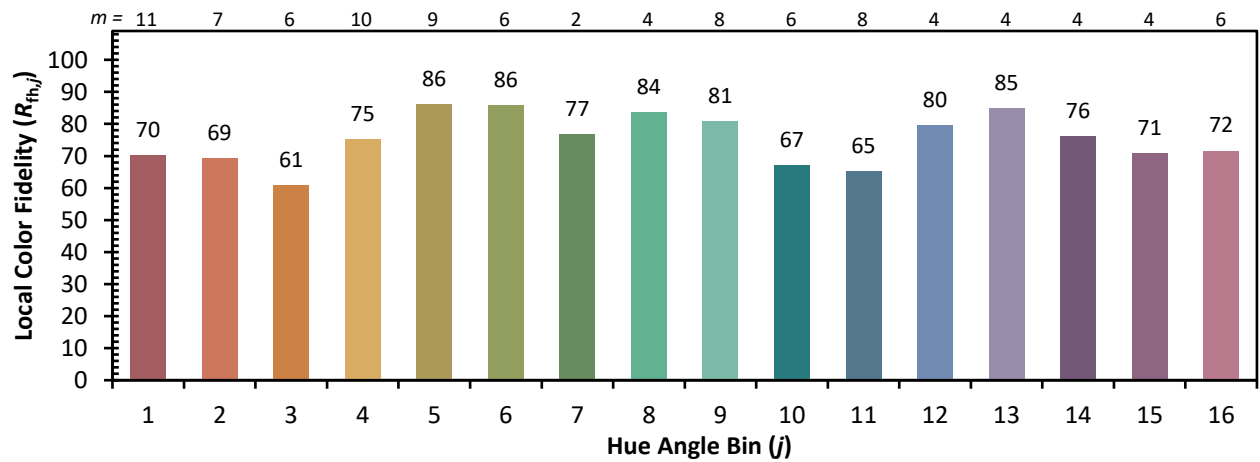
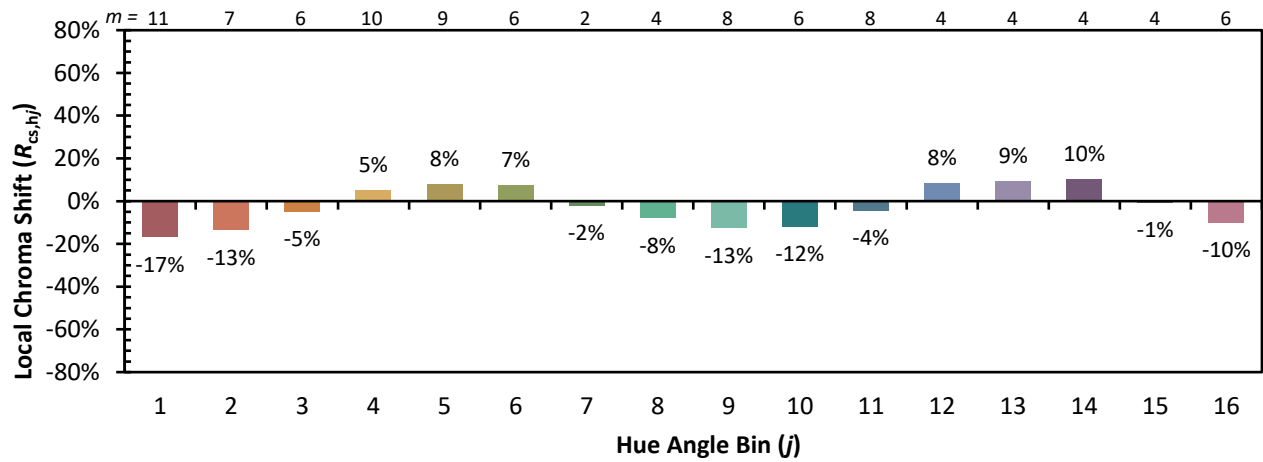


Individual Sample Fidelity Index ($R_{f,i}$)

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)