

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P972411

Luminaire Tested: **GKO-PB2A-727-U-T1**

Issue Date: 02/27/2025



Test Information

Test Method: LM-79-08
Report Number: P972411
Test Lab: INNOVATION CENTER(G1)
Issue Date: 02/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GKO-PB2A-727-U-T1
Description: GEKKO WALL PACK 4000LM PACKAGE 70CRI 2700K FIXTURE w/ TYPE I DISTRIBUTION OPTIC
Light Source: (20) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4054.7 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

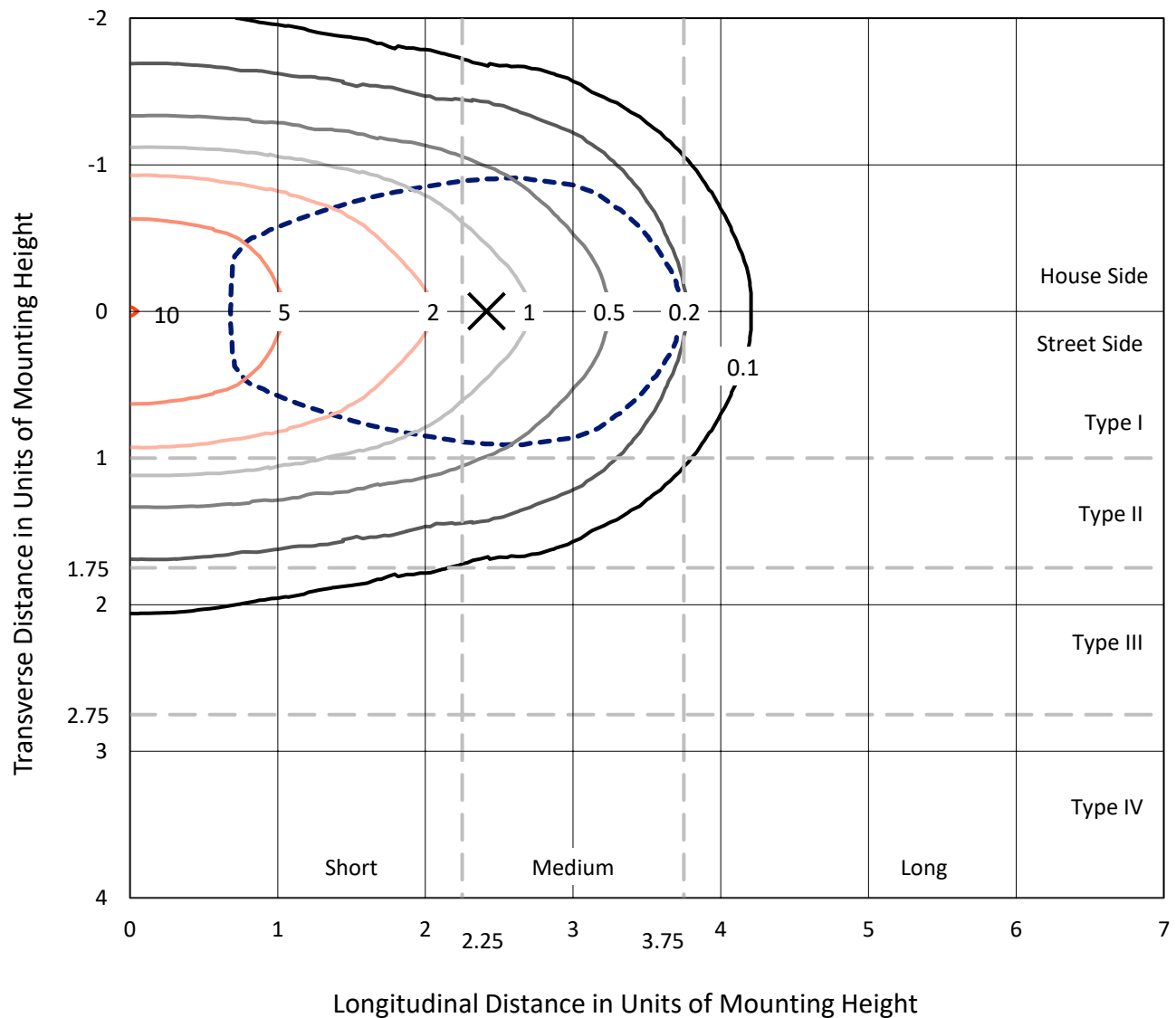
Input Watts (W): 26.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): 12%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P972411

CATALOG NUMBER: GKO-PB2A-727-U-T1

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

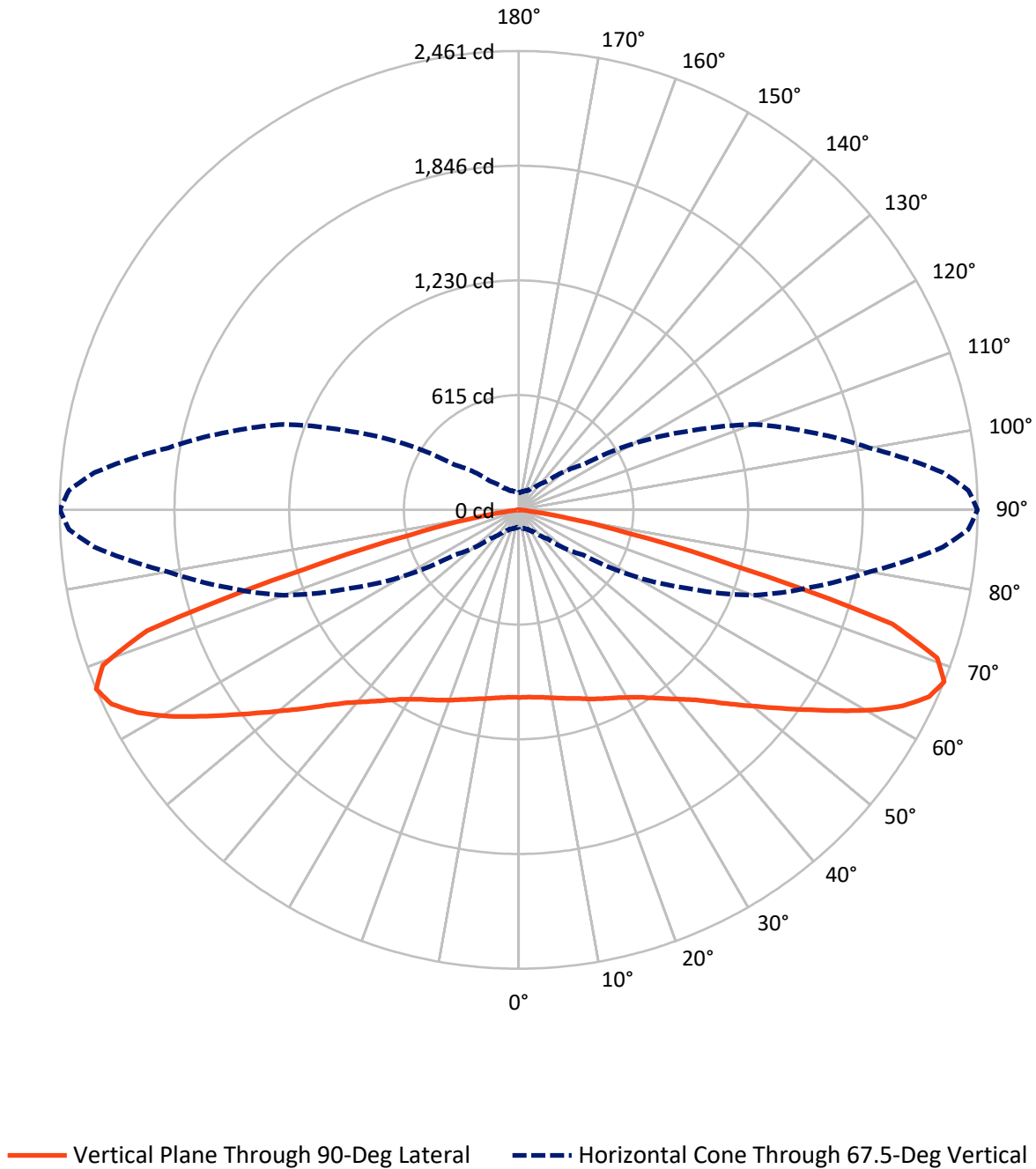


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type I - Short - N/A

REPORT NUMBER: P972411

CATALOG NUMBER: GKO-PB2A-727-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P972411

CATALOG NUMBER: GKO-PB2A-727-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2027.3	0.0	2027.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2027.3	0.0	2027.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	4054.7	0.0	4054.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	2.4
10°-20°	290.8	7.2
20°-30°	483.5	11.9
30°-40°	642.3	15.8
40°-50°	724.1	17.9
50°-60°	744.6	18.4
60°-70°	703.7	17.4
70°-80°	344.5	8.5
80°-90°	24.6	0.6
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°	4054.7	100.0
0°-180°	4054.7	100.0

Coefficient of Utilization



REPORT NUMBER: P972411

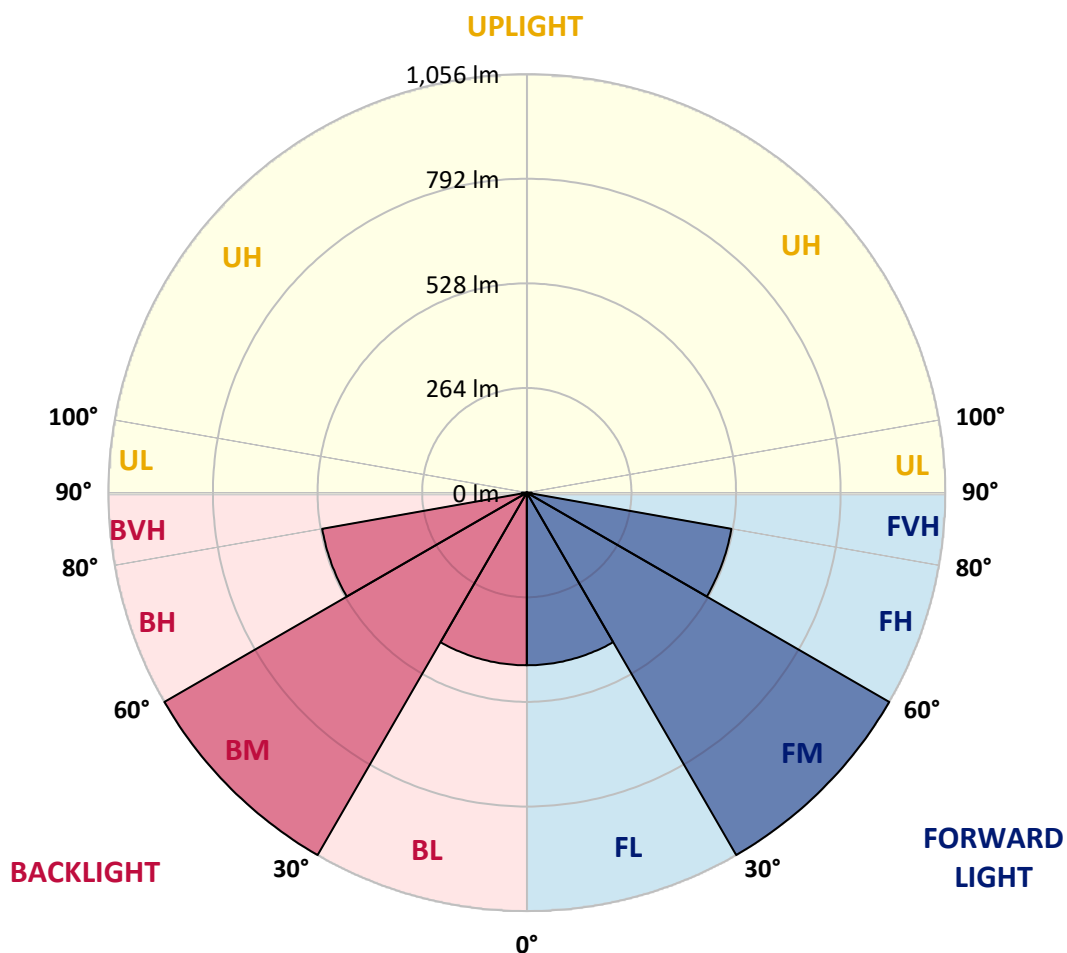
CATALOG NUMBER: GKO-PB2A-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	435.4	10.7			
FM	(30°-60°)	1055.5	26.0			
FH	(60°-80°)	524.1	12.9			G0/660
FVH	(80°-90°)	12.3	0.3			G1/100
BL	(0°-30°)	435.4	10.7	B1/500		
BM	(30°-60°)	1055.5	26.0	B2/2500		
BH	(60°-80°)	524.1	12.9	B2/1000		G2/1000
BVH	(80°-90°)	12.3	0.3			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 I Short



REPORT NUMBER: P972411

CATALOG NUMBER: GKO-PB2A-727-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	1006.1	1006.1	1006.1	1006.1	1006.1	1006.1	1006.1	1006.1	1006.1	1006.1	1006.1
2.5°	1006.9	1008.4	1005.4	1005.4	1006.9	1007.6	1007.6	1008.4	1006.9	1006.9	1006.1
5°	1006.9	1007.6	1006.1	1006.1	1007.6	1009.9	1009.1	1010.6	1010.6	1009.9	1009.9
7.5°	1006.1	1007.6	1006.1	1006.9	1009.1	1013.6	1013.6	1013.6	1015.1	1016.6	1016.6
10°	1005.4	1006.9	1007.6	1008.4	1011.4	1018.1	1019.6	1020.3	1022.6	1024.8	1024.8
12.5°	1001.6	1003.1	1005.4	1008.4	1013.6	1022.6	1025.6	1027.8	1031.5	1033.8	1035.3
15°	996.4	997.2	1002.4	1008.4	1016.6	1027.8	1033.8	1037.5	1042.8	1045.7	1048.0
17.5°	988.9	989.7	997.9	1006.9	1018.8	1034.5	1044.3	1050.2	1055.5	1060.0	1062.9
20°	979.2	981.5	991.2	1005.4	1022.6	1041.3	1055.5	1065.9	1071.2	1075.6	1080.1
22.5°	967.3	969.5	981.5	1001.6	1026.3	1050.2	1068.9	1082.4	1089.1	1095.1	1100.3
25°	949.3	952.3	966.5	992.7	1027.8	1060.0	1083.9	1101.1	1107.0	1114.5	1119.0
27.5°	921.7	923.9	941.1	974.7	1023.3	1070.4	1101.1	1121.2	1128.0	1136.2	1140.7
30°	878.3	882.8	903.7	945.6	1012.1	1078.6	1121.2	1141.4	1149.7	1157.9	1163.9
32.5°	822.2	829.0	852.1	906.0	990.4	1081.6	1142.9	1166.1	1176.6	1185.5	1193.0
35°	752.7	759.5	787.1	855.1	956.0	1075.6	1164.6	1194.5	1207.2	1219.2	1228.1
37.5°	673.5	679.5	713.1	790.9	906.7	1057.0	1181.8	1225.9	1243.1	1258.8	1270.7
40°	593.5	600.2	636.9	719.8	846.9	1021.1	1189.3	1260.3	1282.0	1302.1	1317.1
42.5°	506.8	515.0	556.1	644.3	777.4	971.7	1183.3	1293.9	1320.8	1348.5	1370.9
45°	429.8	431.3	476.2	561.4	701.2	908.2	1162.4	1326.1	1362.7	1401.6	1433.7
47.5°	355.8	358.8	397.7	482.1	621.9	836.5	1124.2	1351.5	1409.8	1459.9	1507.0
50°	290.0	293.8	328.9	404.4	542.7	758.0	1072.7	1366.4	1450.1	1518.2	1583.9
52.5°	236.2	240.7	269.8	336.4	462.7	675.7	1009.1	1368.7	1486.8	1576.5	1663.9
55°	196.6	199.6	222.0	275.1	385.7	590.5	936.6	1357.5	1510.7	1628.8	1745.4
57.5°	165.9	168.9	184.6	226.5	316.2	503.1	848.4	1331.3	1523.4	1674.4	1827.6
60°	144.3	146.5	157.7	187.6	260.1	420.8	753.5	1284.9	1519.7	1702.8	1895.7
62.5°	128.6	129.3	139.0	160.0	214.5	343.1	646.6	1215.4	1489.0	1706.5	1942.0
65°	114.4	115.1	121.1	136.0	176.4	275.8	535.2	1119.8	1430.7	1680.4	1948.7
67.5°	92.7	94.2	103.2	114.4	145.0	218.3	421.6	994.2	1339.5	1612.4	1910.6
70°	74.0	74.7	83.7	96.4	118.1	171.9	323.7	825.2	1196.7	1501.7	1811.9
72.5°	55.3	56.8	65.0	77.7	96.4	133.1	234.0	624.2	956.8	1266.3	1578.0
75°	44.1	44.8	47.8	59.8	74.7	100.9	157.7	378.2	576.3	783.4	967.3
77.5°	37.4	38.1	38.1	46.3	55.3	68.0	83.7	150.2	243.7	346.8	459.7
80°	30.6	32.1	29.2	34.4	39.6	39.6	38.9	71.8	115.1	163.0	213.8
82.5°	22.4	23.9	22.4	23.9	23.9	21.7	20.2	26.9	36.6	50.1	54.6
85°	15.7	16.4	17.9	16.4	15.7	12.7	9.7	7.5	4.5	5.2	7.5
87.5°	10.5	12.7	14.9	14.2	12.0	9.7	6.7	4.5	2.2	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P972411

CATALOG NUMBER: GKO-PB2A-727-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°
0°	1006.1	1006.1	1006.1
2.5°	1006.9	1006.1	1005.4
5°	1010.6	1009.9	1009.1
7.5°	1015.8	1015.8	1015.8
10°	1024.1	1025.6	1025.6
12.5°	1034.5	1036.0	1036.0
15°	1047.2	1048.0	1049.5
17.5°	1062.9	1063.7	1063.7
20°	1081.6	1080.9	1082.4
22.5°	1100.3	1100.3	1100.3
25°	1119.8	1119.8	1119.8
27.5°	1142.2	1142.2	1140.7
30°	1166.8	1166.8	1166.8
32.5°	1196.7	1197.5	1198.2
35°	1234.9	1236.4	1238.6
37.5°	1278.2	1282.0	1284.2
40°	1329.8	1331.3	1335.0
42.5°	1387.4	1391.8	1392.6
45°	1459.1	1466.6	1469.6
47.5°	1543.6	1554.0	1559.3
50°	1637.8	1649.7	1657.2
52.5°	1740.2	1759.6	1768.6
55°	1849.3	1882.9	1892.7
57.5°	1972.6	2018.2	2031.7
60°	2093.7	2158.0	2179.7
62.5°	2196.9	2287.3	2314.3
65°	2269.4	2378.5	2418.2
67.5°	2284.4	2413.7	2460.8
70°	2194.7	2327.0	2381.5
72.5°	1908.4	2028.0	2096.0
75°	1127.2	1213.2	1192.3
77.5°	565.9	590.5	594.3
80°	248.2	263.1	269.1
82.5°	61.3	62.8	71.0
85°	8.2	9.7	9.0
87.5°	3.0	3.0	3.7
90°	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

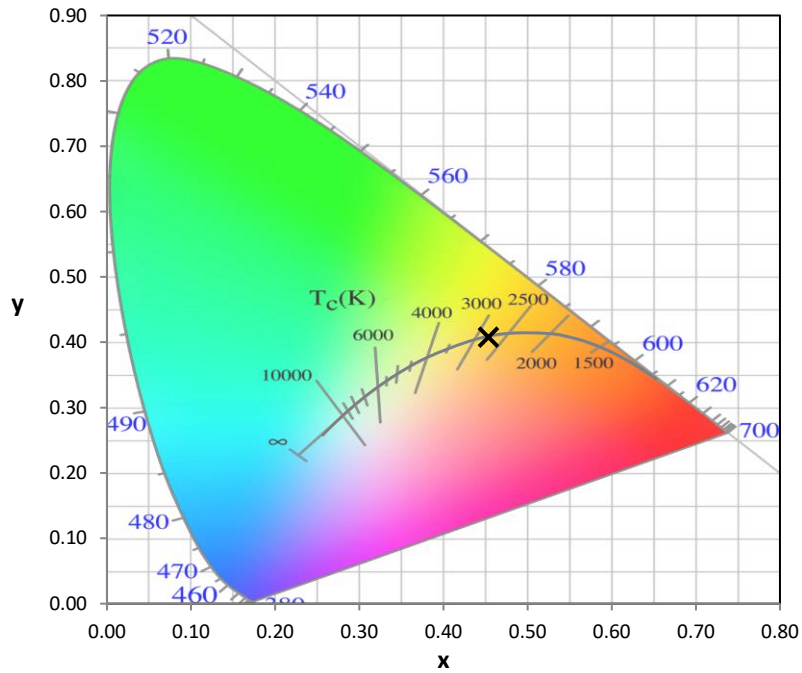
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP2-2501-321-3

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: SP2-2501-321-3

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

REPORT NUMBER: SP2-2501-321-3

Photopic Flux vs. Wavelength

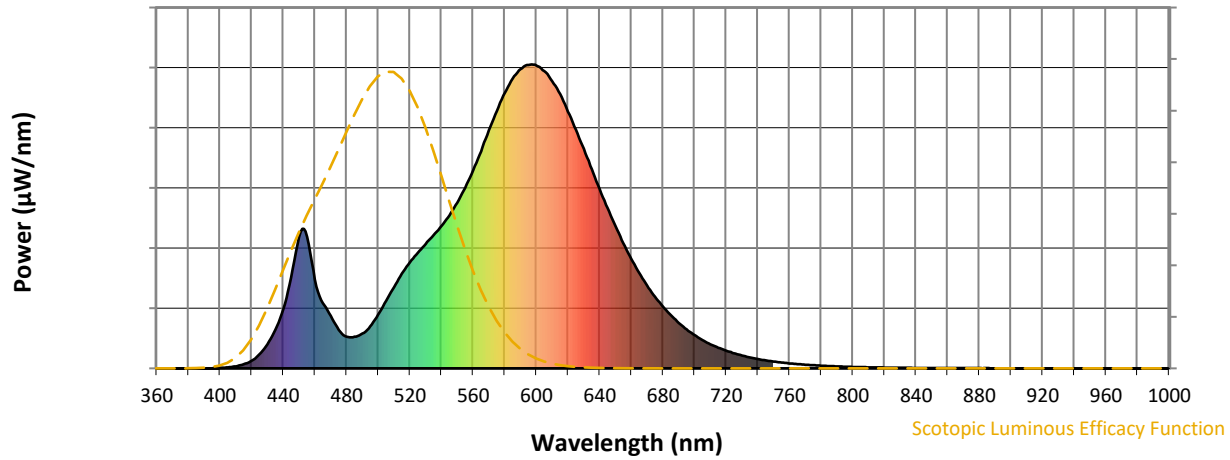


Photopic Lumens: NR

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			

REPORT NUMBER: SP2-2501-321-3

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			

REPORT NUMBER: SP2-2501-321-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.08

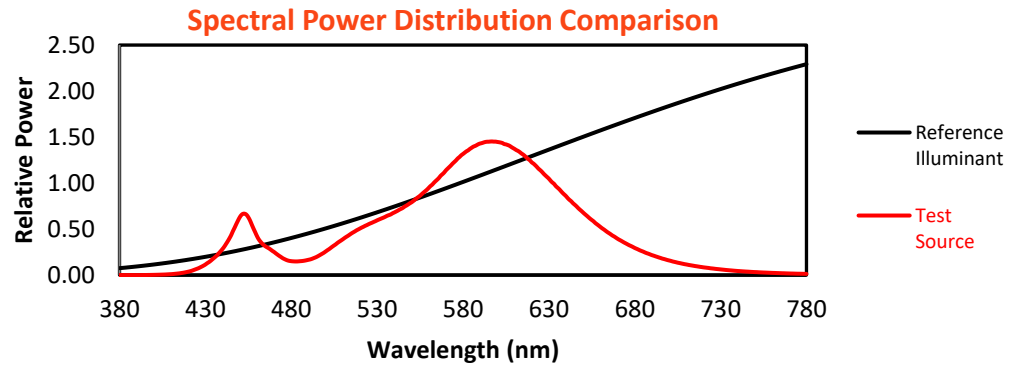
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	114	NR	620	844	NR	750	22	NR	880	1	NR
365	0	NR	495	138	NR	625	785	NR	755	19	NR	885	1	NR
370	0	NR	500	176	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			

REPORT NUMBER: SP2-2501-321-3

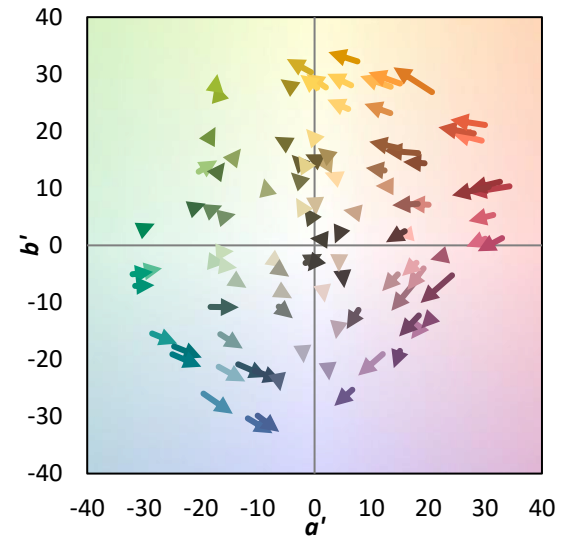
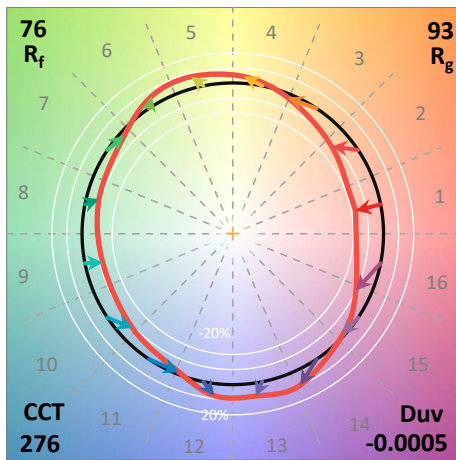
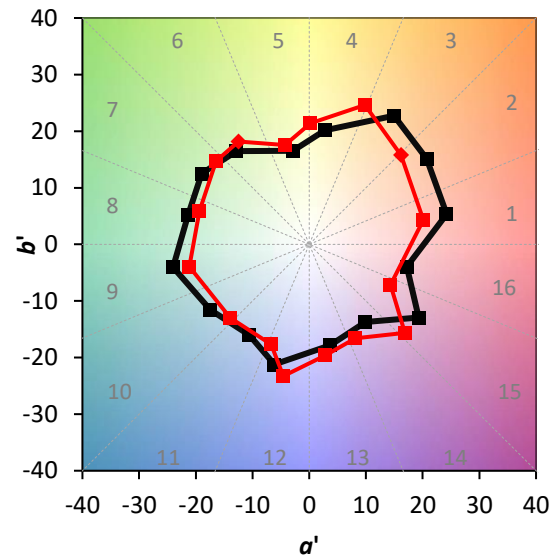
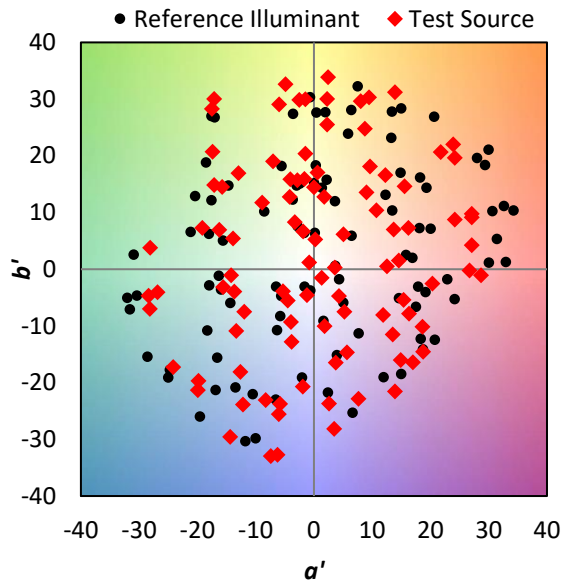
TM-30-18

Summary

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

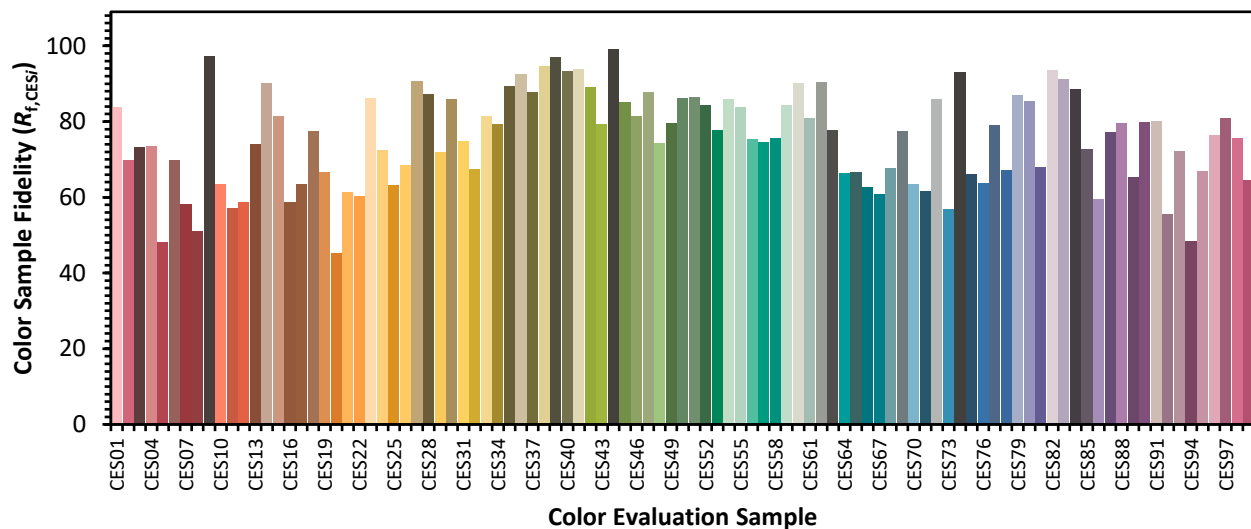


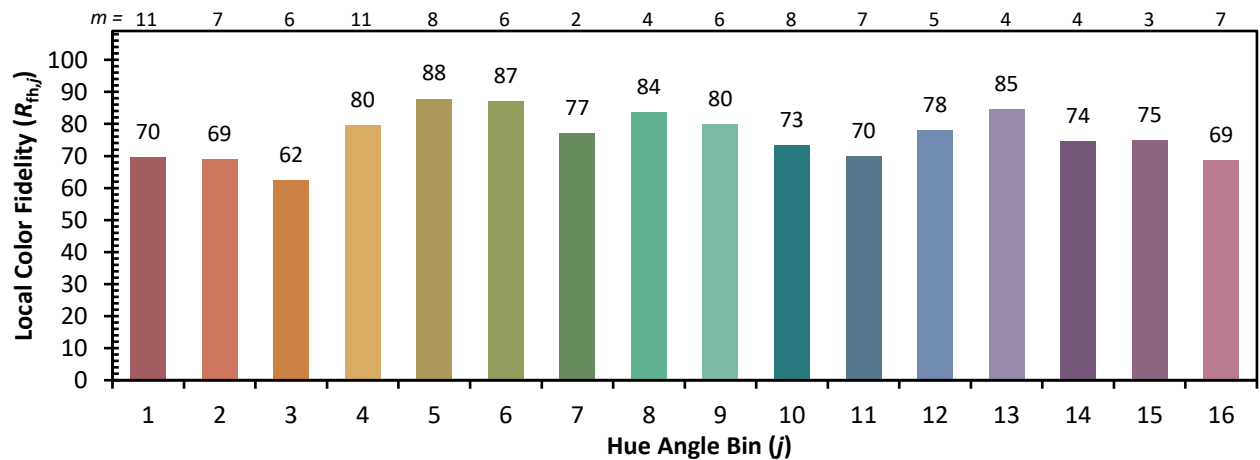
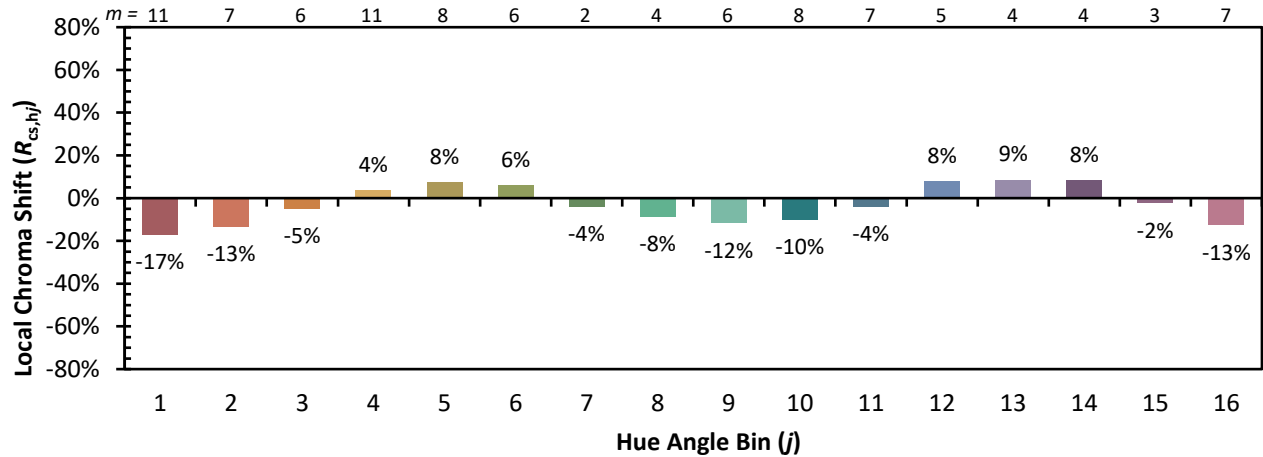
Color Vector Graphics



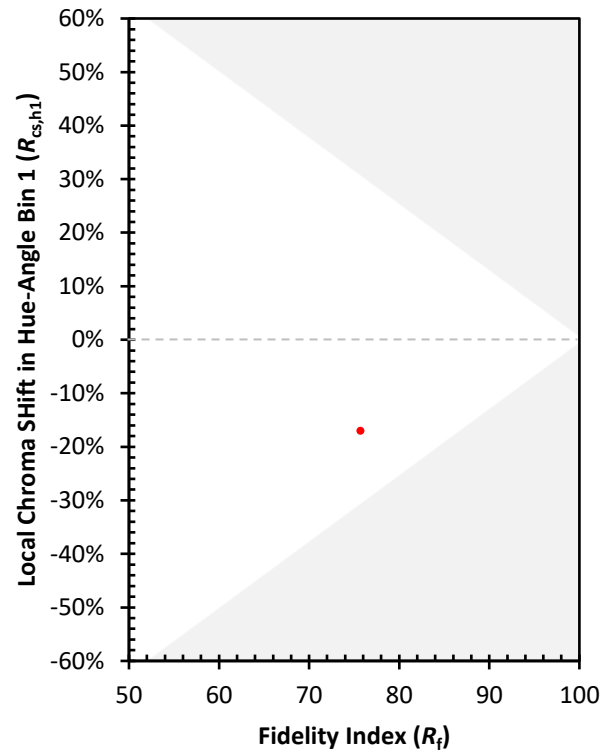
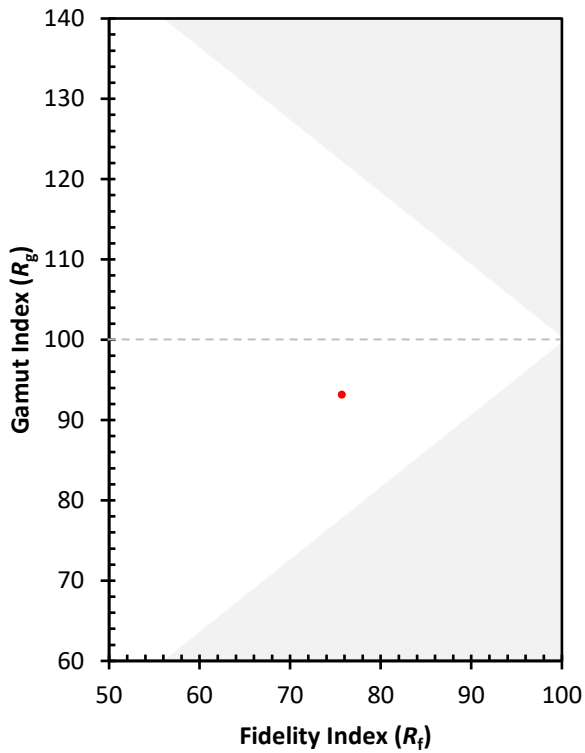
Individual Sample Fidelity Index ($R_{f,i}$)

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)