

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: P972403

Luminaire Tested: **GKO-PB1D-727-U-T1**

Issue Date: 02/27/2025



Test Information

Test Method: LM-79-08
Report Number: P972403
Test Lab: INNOVATION CENTER(G1)
Issue Date: 02/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GKO-PB1D-727-U-T1
Description: GEKKO WALL PACK 3500LM PACKAGE 70CRI 2700K FIXTURE w/ TYPE I DISTRIBUTION OPTIC
Light Source: (10) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3529.1 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G1

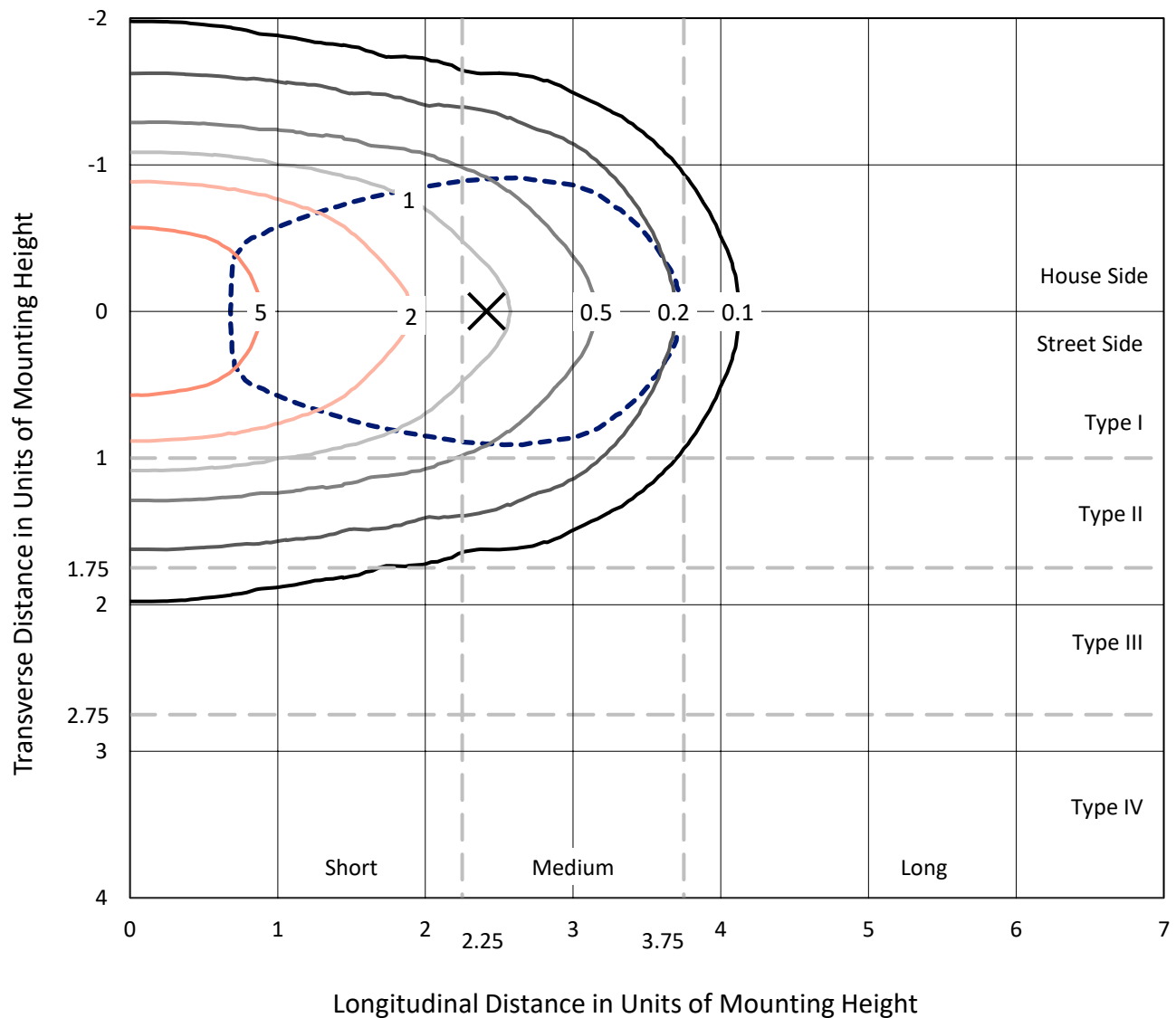
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P972403

CATALOG NUMBER: GKO-PB1D-727-U-T1

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

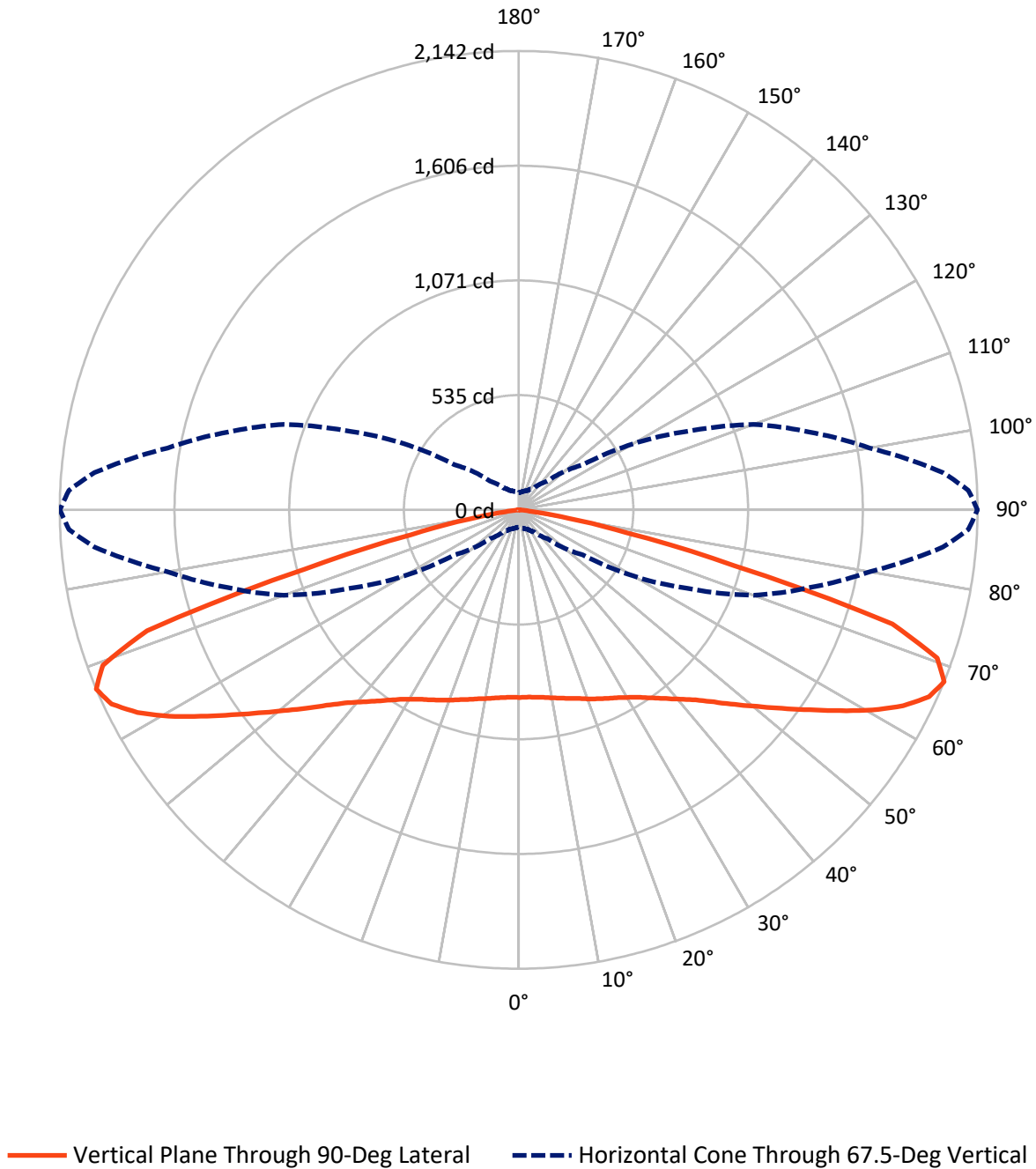


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type I - Short - N/A

REPORT NUMBER: P972403

CATALOG NUMBER: GKO-PB1D-727-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P972403

CATALOG NUMBER: GKO-PB1D-727-U-T1

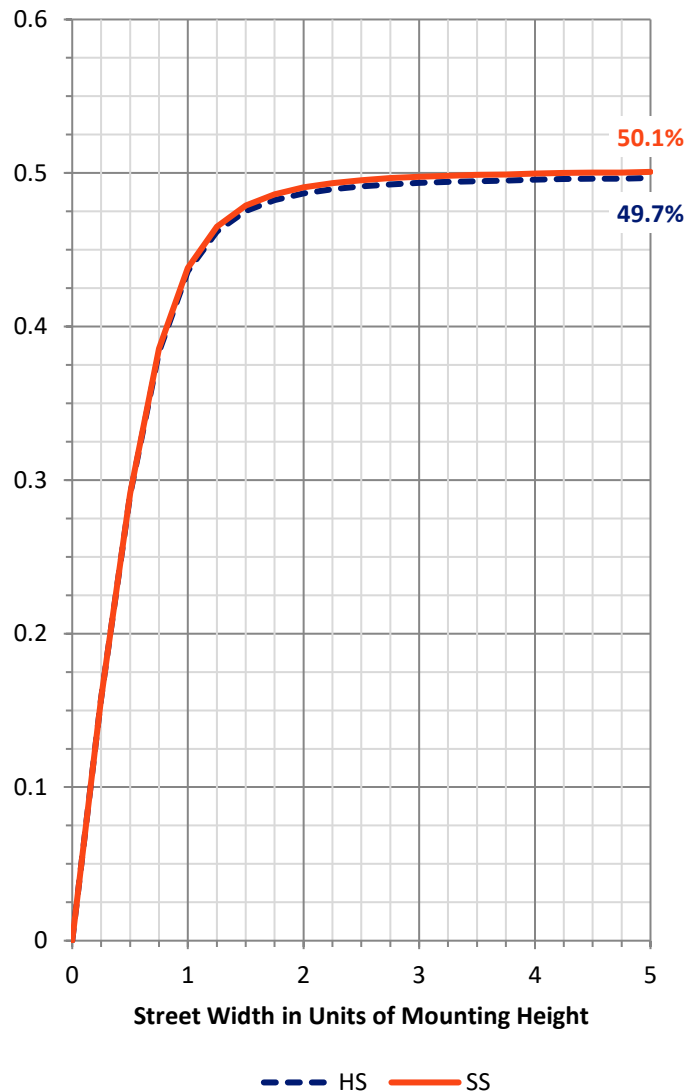
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1764.6	0.0	1764.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1764.6	0.0	1764.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	3529.1	0.0	3529.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	2.4
10°-20°	253.1	7.2
20°-30°	420.8	11.9
30°-40°	559.1	15.8
40°-50°	630.3	17.9
50°-60°	648.1	18.4
60°-70°	612.5	17.4
70°-80°	299.8	8.5
80°-90°	21.5	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°	3529.1	100.0
0°-180°	3529.1	100.0

Coefficient of Utilization



REPORT NUMBER: P972403

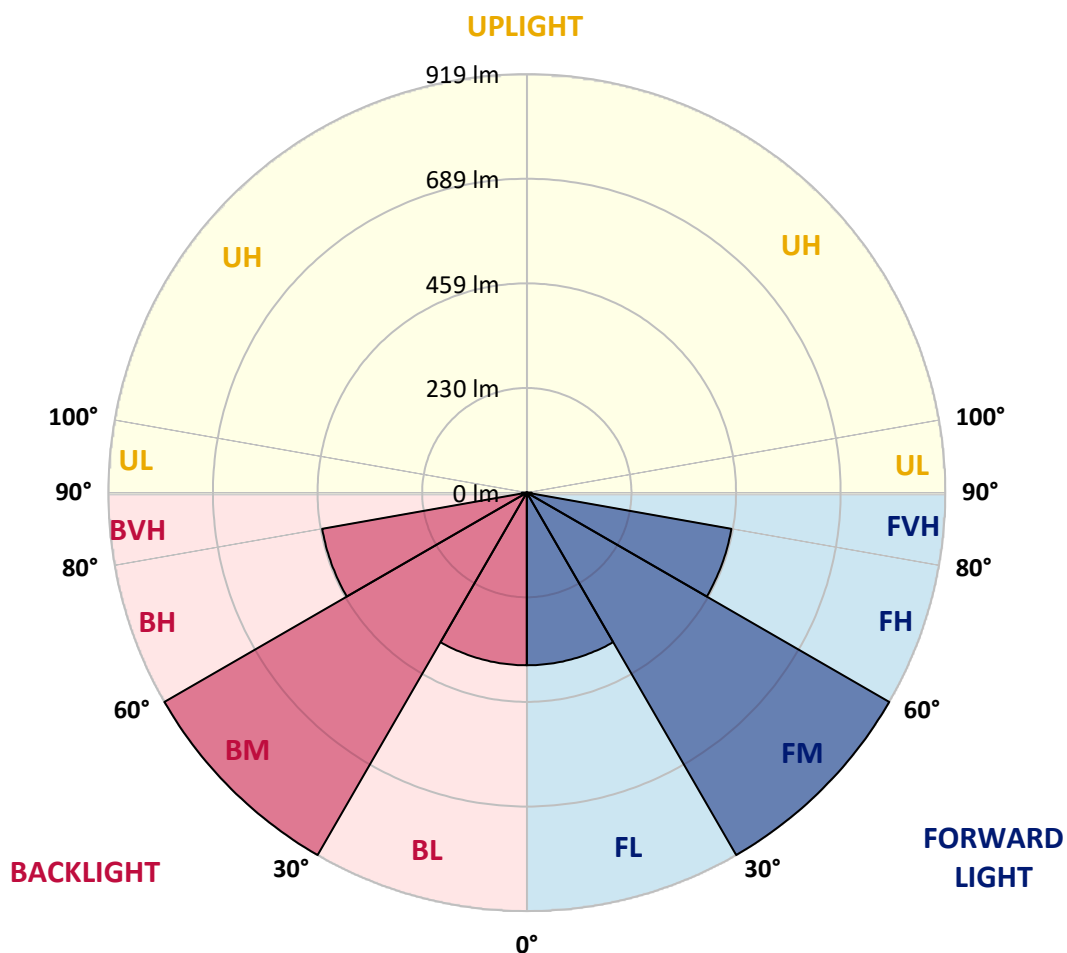
CATALOG NUMBER: GKO-PB1D-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	379.0	10.7			
FM	(30°-60°)	918.7	26.0			
FH	(60°-80°)	456.1	12.9			G0/660
FVH	(80°-90°)	10.7	0.3			G1/100
BL	(0°-30°)	379.0	10.7	B1/500		
BM	(30°-60°)	918.7	26.0	B1/1000		
BH	(60°-80°)	456.1	12.9	B1/500		G1/500
BVH	(80°-90°)	10.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type I Short



REPORT NUMBER: P972403

CATALOG NUMBER: GKO-PB1D-727-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	875.7	875.7	875.7	875.7	875.7	875.7	875.7	875.7	875.7	875.7	875.7
2.5°	876.4	877.7	875.1	875.1	876.4	877.0	877.0	877.7	876.4	876.4	875.7
5°	876.4	877.0	875.7	875.7	877.0	879.0	878.3	879.6	879.6	879.0	879.0
7.5°	875.7	877.0	875.7	876.4	878.3	882.2	882.2	882.2	883.5	884.8	884.8
10°	875.1	876.4	877.0	877.7	880.3	886.1	887.4	888.1	890.0	892.0	892.0
12.5°	871.8	873.1	875.1	877.7	882.2	890.0	892.6	894.6	897.8	899.8	901.1
15°	867.3	867.9	872.5	877.7	884.8	894.6	899.8	903.0	907.6	910.2	912.2
17.5°	860.8	861.4	868.6	876.4	886.8	900.4	908.9	914.1	918.7	922.6	925.2
20°	852.3	854.2	862.7	875.1	890.0	906.3	918.7	927.8	932.3	936.2	940.1
22.5°	841.9	843.8	854.2	871.8	893.3	914.1	930.4	942.1	947.9	953.1	957.7
25°	826.3	828.9	841.2	864.0	894.6	922.6	943.4	958.3	963.5	970.1	974.0
27.5°	802.2	804.2	819.1	848.4	890.7	931.7	958.3	975.9	981.8	988.9	992.8
30°	764.5	768.4	786.6	823.0	880.9	938.8	975.9	993.5	1000.6	1007.8	1013.0
32.5°	715.7	721.5	741.7	788.5	862.1	941.4	994.8	1014.9	1024.1	1031.9	1038.4
35°	655.2	661.0	685.1	744.3	832.1	936.2	1013.6	1039.7	1050.7	1061.1	1068.9
37.5°	586.2	591.4	620.7	688.3	789.2	920.0	1028.6	1067.0	1082.0	1095.6	1106.0
40°	516.6	522.4	554.3	626.5	737.1	888.7	1035.1	1096.9	1115.8	1133.4	1146.4
42.5°	441.1	448.3	484.1	560.8	676.6	845.8	1029.9	1126.2	1149.6	1173.7	1193.2
45°	374.1	375.4	414.4	488.6	610.3	790.5	1011.7	1154.2	1186.1	1219.9	1247.9
47.5°	309.7	312.3	346.1	419.6	541.3	728.0	978.5	1176.3	1227.0	1270.6	1311.6
50°	252.4	255.7	286.3	352.0	472.3	659.7	933.6	1189.3	1262.2	1321.4	1378.6
52.5°	205.6	209.5	234.9	292.8	402.7	588.1	878.3	1191.3	1294.1	1372.1	1448.3
55°	171.1	173.7	193.2	239.4	335.7	514.0	815.2	1181.5	1314.9	1417.7	1519.2
57.5°	144.4	147.0	160.7	197.1	275.2	437.9	738.4	1158.7	1325.9	1457.4	1590.7
60°	125.6	127.5	137.3	163.3	226.4	366.3	655.8	1118.4	1322.7	1482.1	1649.9
62.5°	111.9	112.6	121.0	139.2	186.7	298.6	562.8	1057.9	1296.0	1485.3	1690.3
65°	99.5	100.2	105.4	118.4	153.5	240.1	465.8	974.6	1245.3	1462.6	1696.1
67.5°	80.7	82.0	89.8	99.5	126.2	190.0	366.9	865.3	1165.9	1403.4	1663.0
70°	64.4	65.1	72.9	83.9	102.8	149.6	281.7	718.3	1041.6	1307.1	1577.1
72.5°	48.1	49.4	56.6	67.7	83.9	115.8	203.6	543.3	832.8	1102.1	1373.4
75°	38.4	39.0	41.6	52.0	65.1	87.8	137.3	329.2	501.6	681.8	841.9
77.5°	32.5	33.2	33.2	40.3	48.1	59.2	72.9	130.8	212.1	301.9	400.1
80°	26.7	28.0	25.4	29.9	34.5	34.5	33.8	62.5	100.2	141.8	186.1
82.5°	19.5	20.8	19.5	20.8	20.8	18.9	17.6	23.4	31.9	43.6	47.5
85°	13.7	14.3	15.6	14.3	13.7	11.1	8.5	6.5	3.9	4.6	6.5
87.5°	9.1	11.1	13.0	12.4	10.4	8.5	5.9	3.9	2.0	2.6	2.6
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: P972403

CATALOG NUMBER: GKO-PB1D-727-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°
0°	875.7	875.7	875.7
2.5°	876.4	875.7	875.1
5°	879.6	879.0	878.3
7.5°	884.2	884.2	884.2
10°	891.3	892.6	892.6
12.5°	900.4	901.7	901.7
15°	911.5	912.2	913.5
17.5°	925.2	925.8	925.8
20°	941.4	940.8	942.1
22.5°	957.7	957.7	957.7
25°	974.6	974.6	974.6
27.5°	994.1	994.1	992.8
30°	1015.6	1015.6	1015.6
32.5°	1041.6	1042.3	1042.9
35°	1074.8	1076.1	1078.1
37.5°	1112.5	1115.8	1117.7
40°	1157.4	1158.7	1162.0
42.5°	1207.5	1211.4	1212.1
45°	1270.0	1276.5	1279.1
47.5°	1343.5	1352.6	1357.2
50°	1425.5	1435.9	1442.4
52.5°	1514.6	1531.5	1539.3
55°	1609.6	1638.9	1647.3
57.5°	1717.0	1756.6	1768.3
60°	1822.3	1878.3	1897.2
62.5°	1912.1	1990.9	2014.3
65°	1975.2	2070.2	2104.7
67.5°	1988.3	2100.8	2141.8
70°	1910.2	2025.3	2072.8
72.5°	1661.0	1765.1	1824.3
75°	981.1	1055.9	1037.7
77.5°	492.5	514.0	517.2
80°	216.0	229.0	234.2
82.5°	53.3	54.7	61.8
85°	7.2	8.5	7.8
87.5°	2.6	2.6	3.3
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

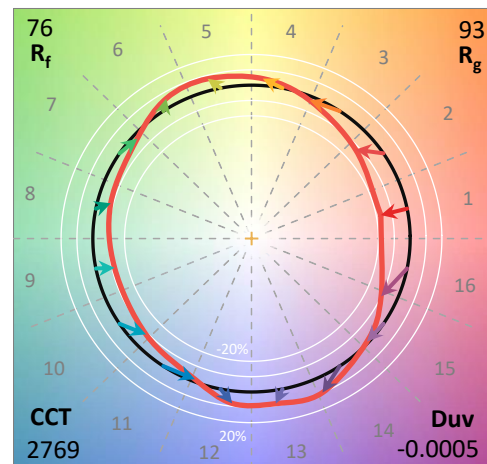
Data in this report applies to families of products including GKO-PB1E-727-U-T4W

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	CRI (Ra):	71.7		
CIE u':	0.2596	R1:	68.0	R9:	-34.5
CIE v':	0.5253	R2:	84.0	R10:	64.3
Duv:	-0.0005	R3:	94.6	R11:	60.9
CIE x:	0.4535	R4:	65.9	R12:	54.4
CIE y:	0.4078	R5:	67.3	R13:	71.2
CIE z:	0.1387	R6:	78.7	R14:	97.6
Peak Wavelength (nm):	597	R7:	75.2	R15:	59.5
Dominant Wavelength (nm):	584	R8:	39.8		
Purity:	58.54014				
Rf:	75.7				
Rg:	93.2				



Test Conditions

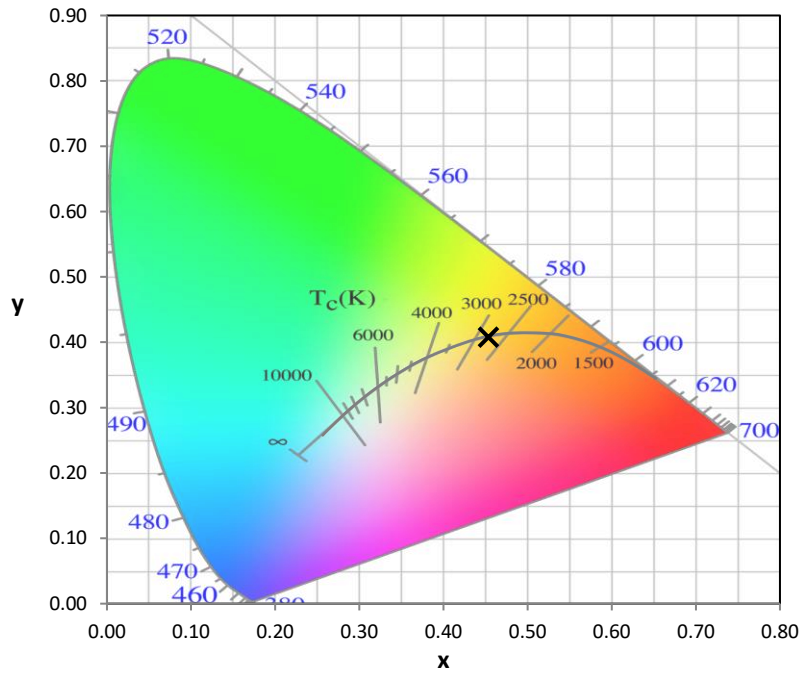
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP2-2501-321-3

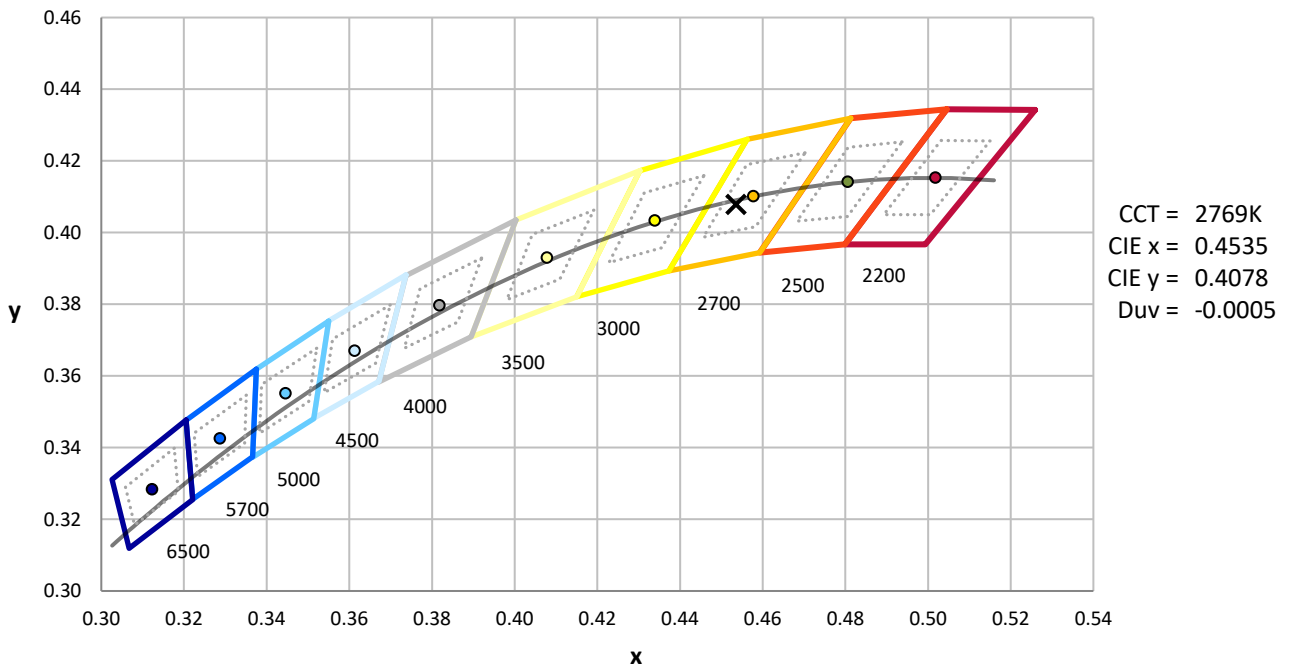
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN2187	1/6/2025	7/6/2025
Power Meter	INXT2011002	1/21/2025	1/21/2026
AC Power Source	IN0458	10/22/2024	10/22/2025
DC Power Source	IN0212	10/22/2024	10/22/2025
Sphere Thermometer	IN4036B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



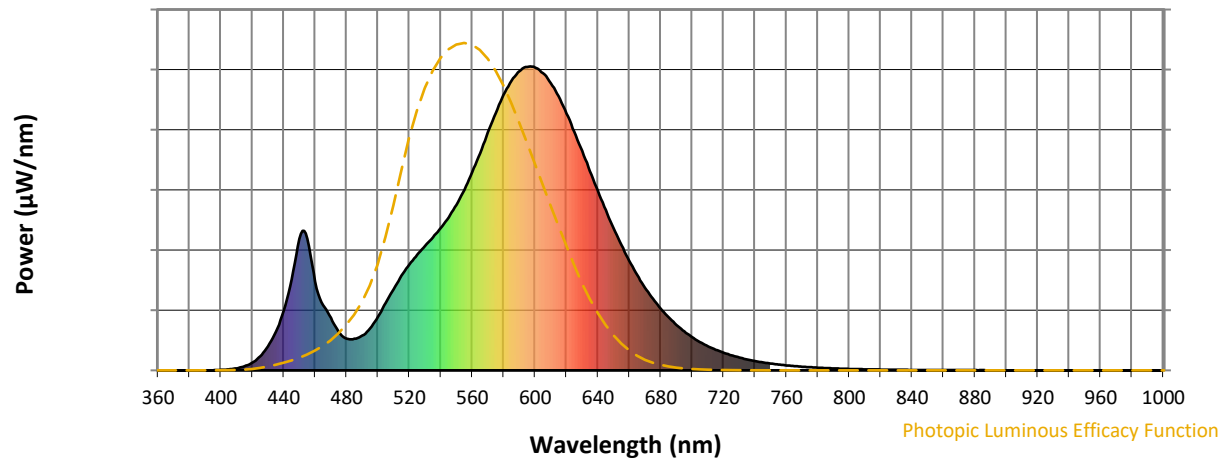
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP2-2501-321-3

Photopic Flux vs. Wavelength

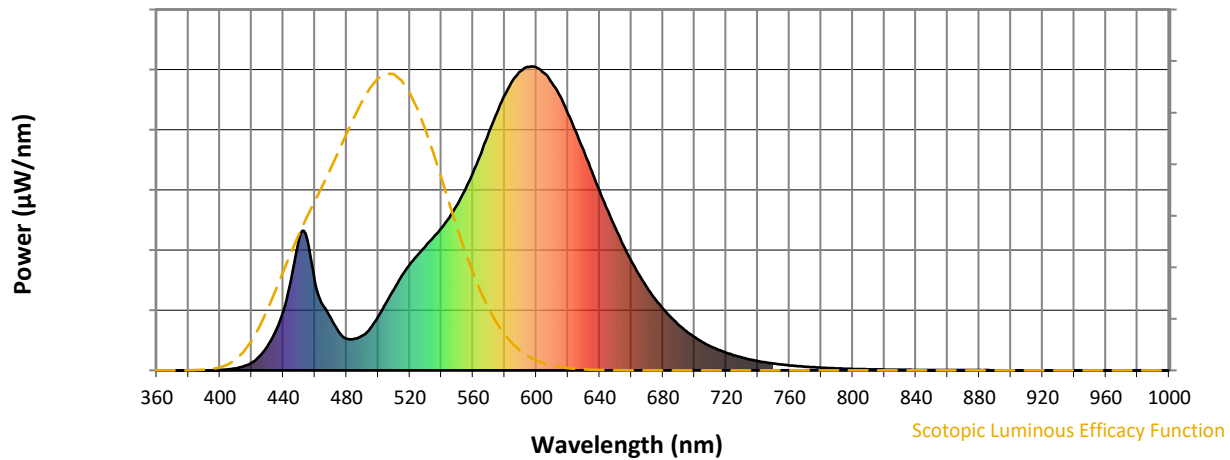


Photopic Lumens: NR

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



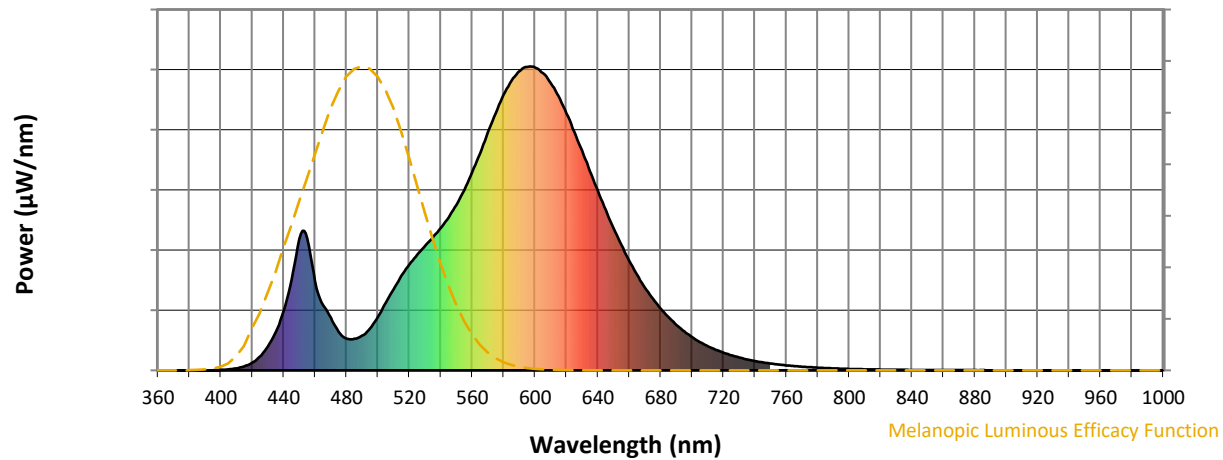
Scotopic Lumens: NR

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

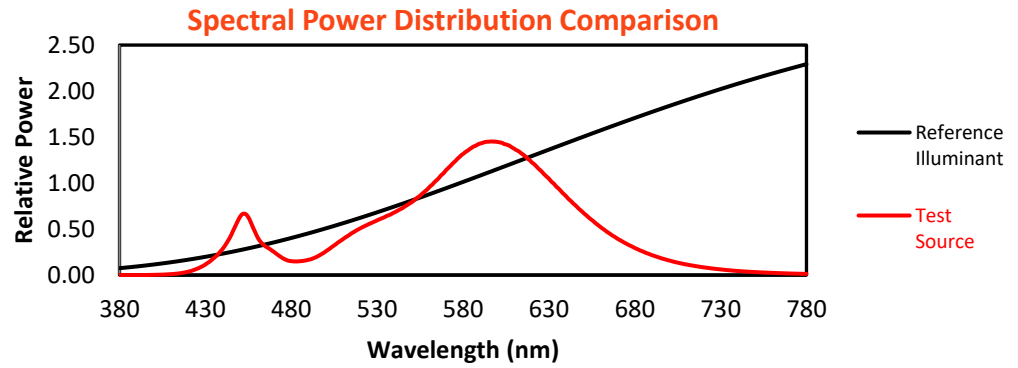
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	114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

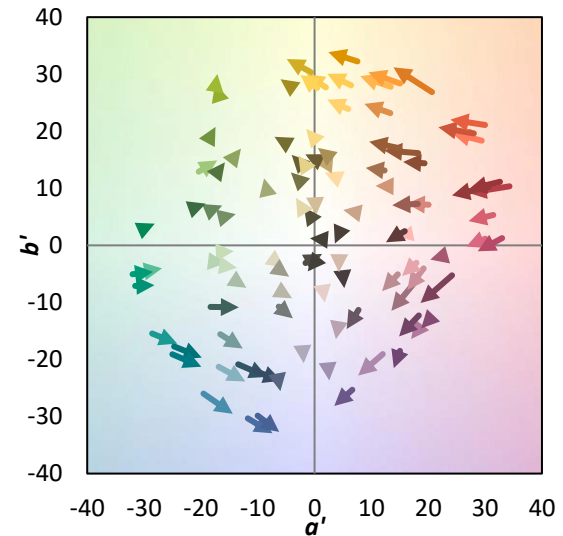
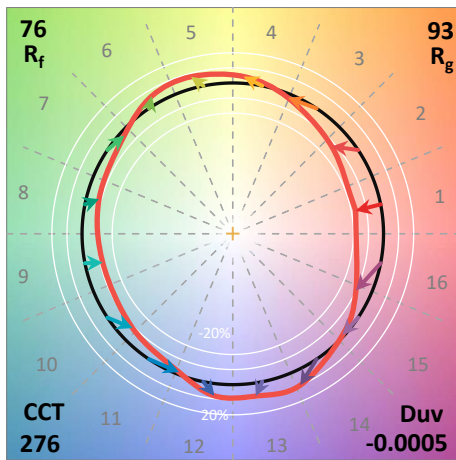
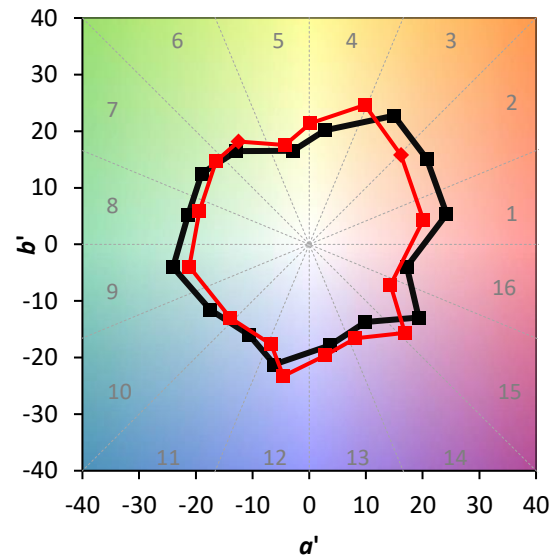
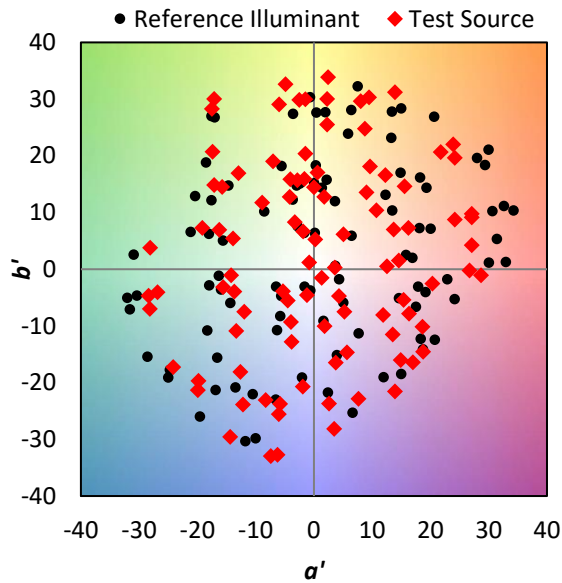
TM-30-18

Summary

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

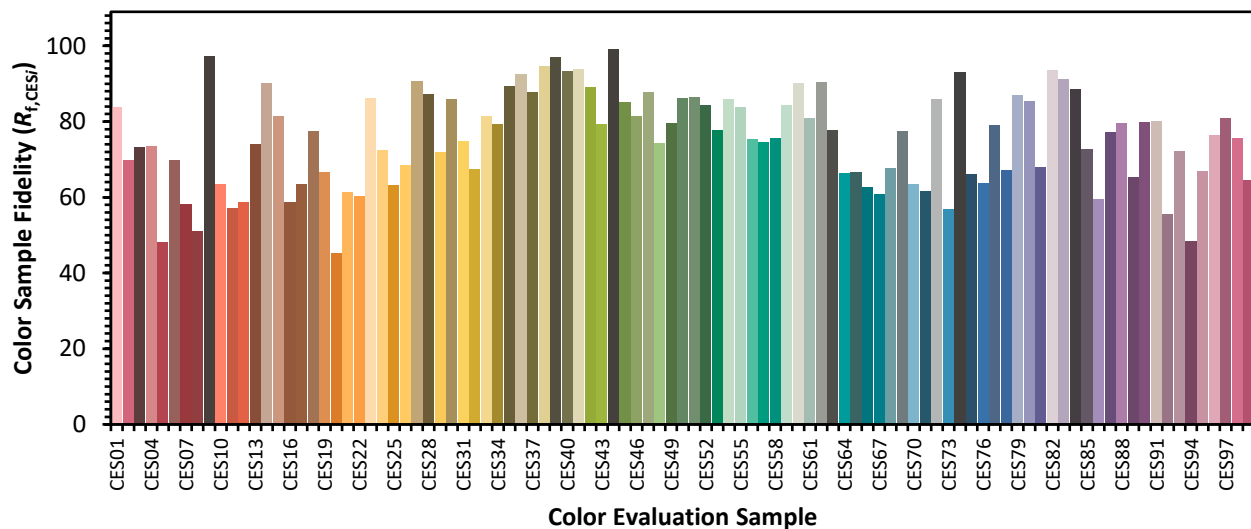


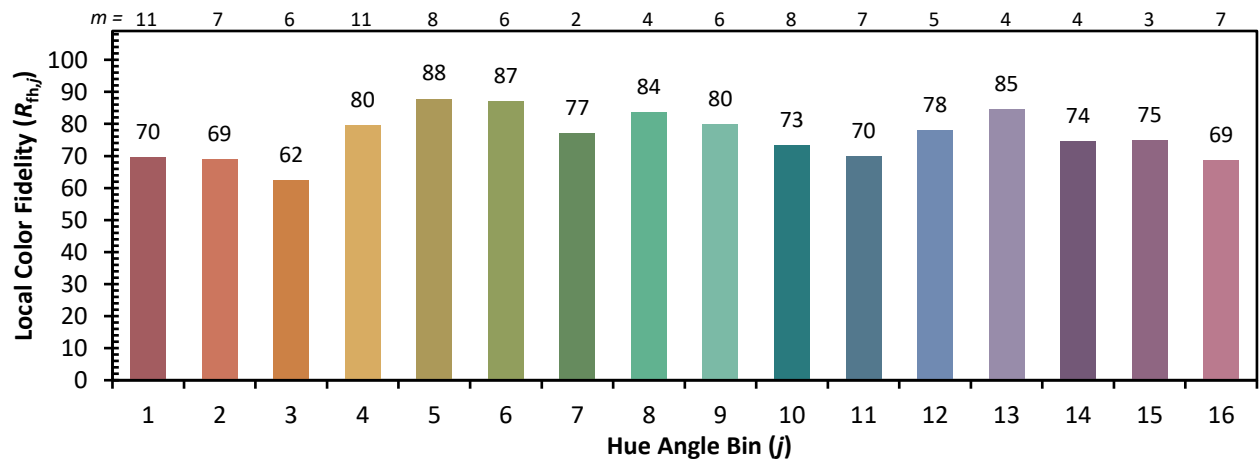
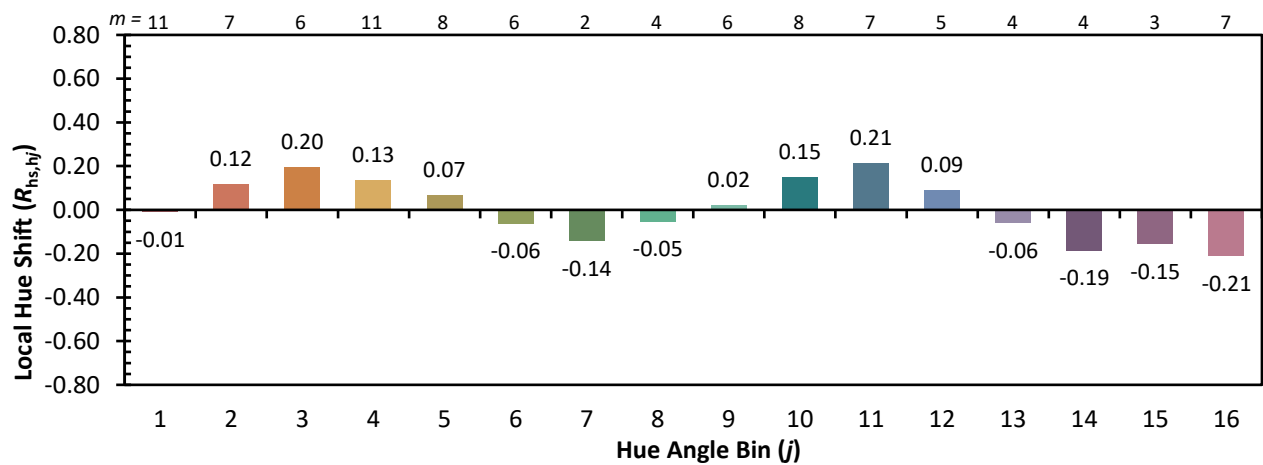
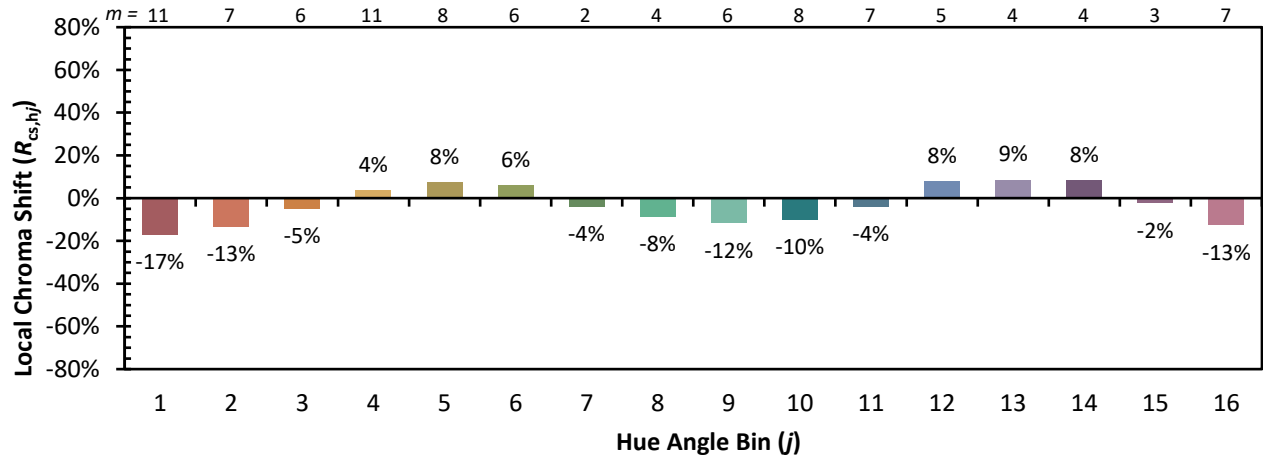
Color Vector Graphics



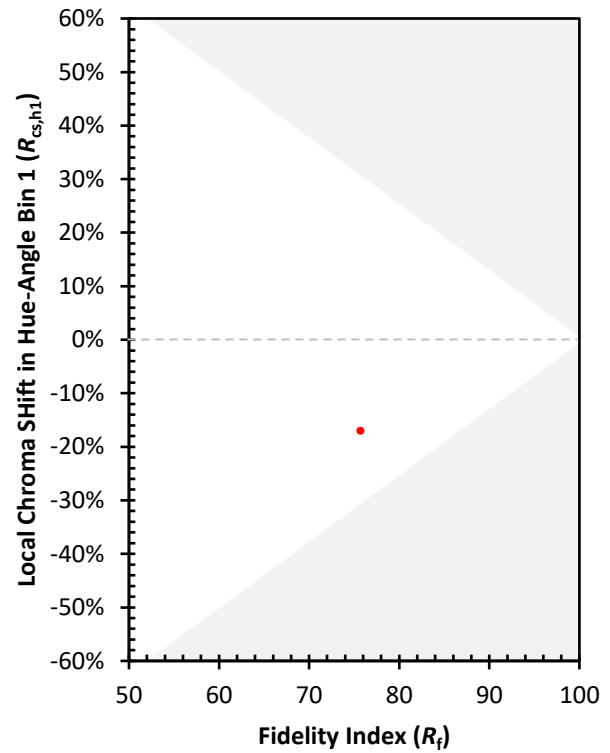
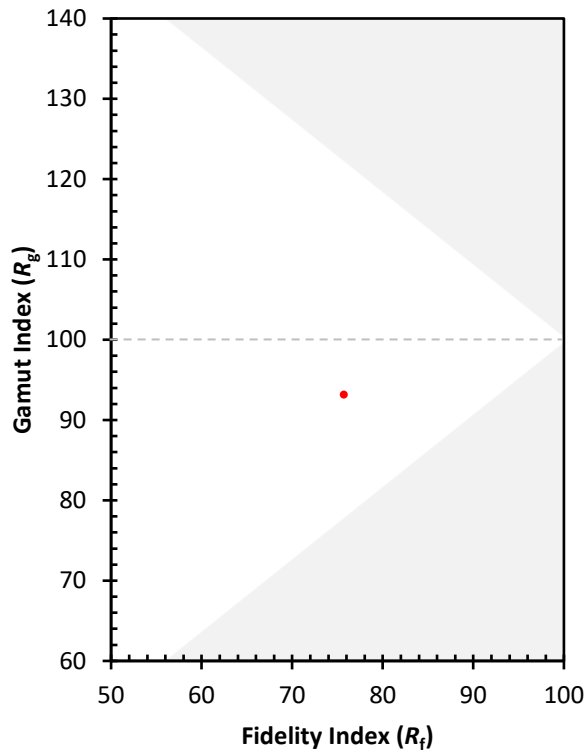
Individual Sample Fidelity Index ($R_{f,i}$)

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)