

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: P972407

Luminaire Tested: **GKO-PB2E-727-U-T1**

Issue Date: 02/27/2025



Test Information

Test Method: LM-79-08
Report Number: P972407
Test Lab: INNOVATION CENTER(G1)
Issue Date: 02/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GKO-PB2E-727-U-T1
Description: GEKKO WALL PACK 12000LM 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: 12390.8 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

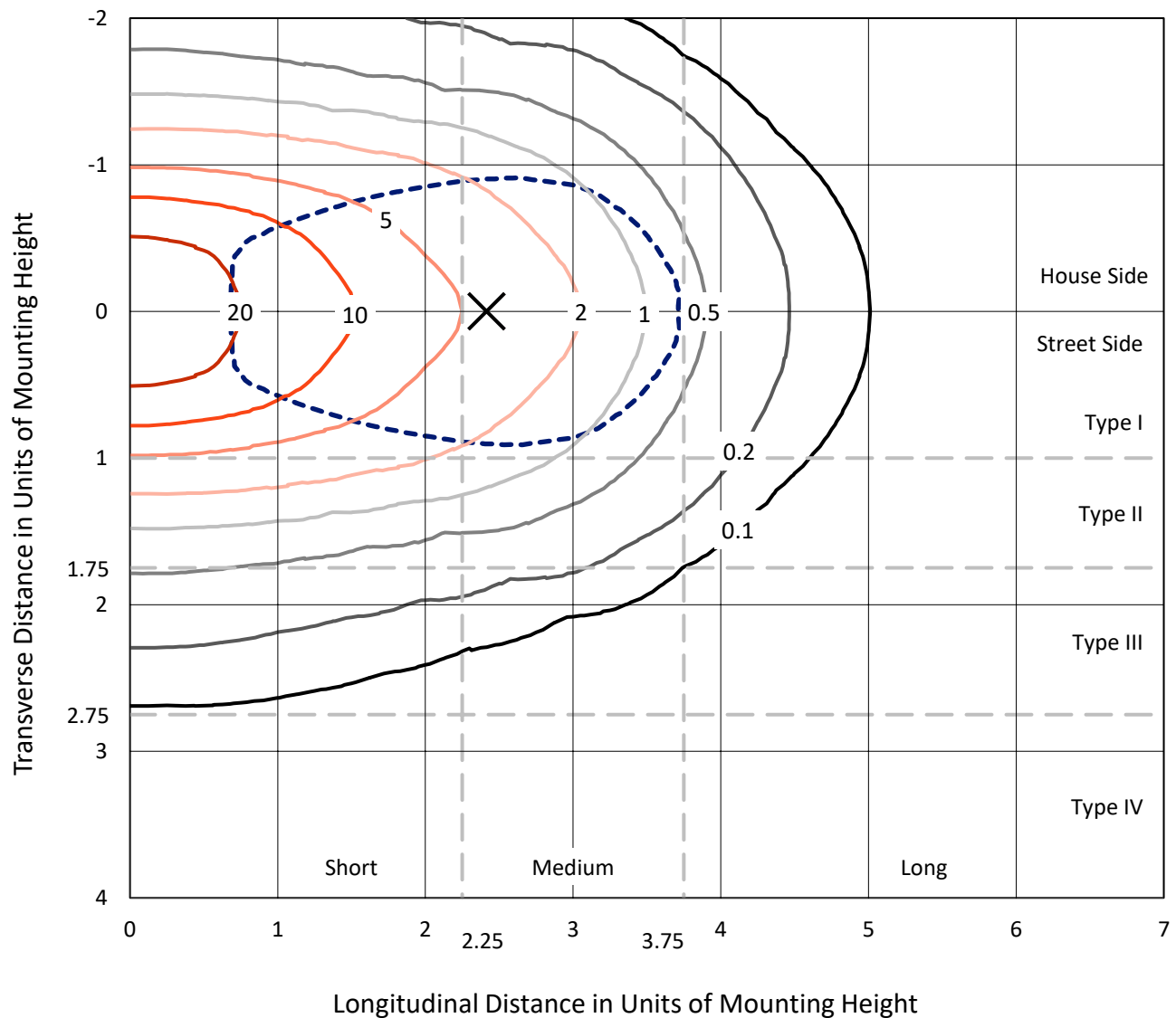
Input Watts (W): 104.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): 6%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

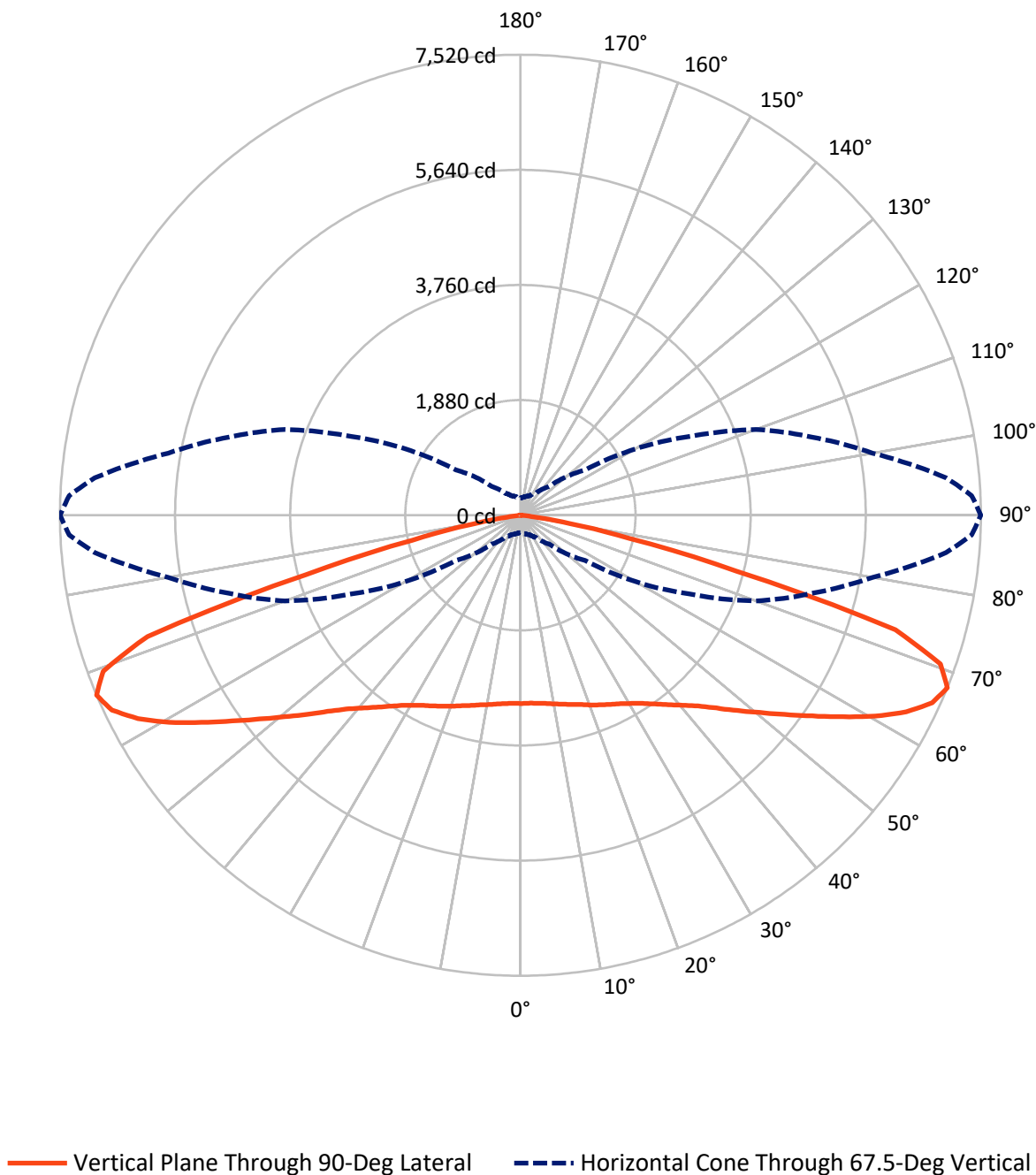


Based on 10 foot mounting height. Maximum calculated value = 30.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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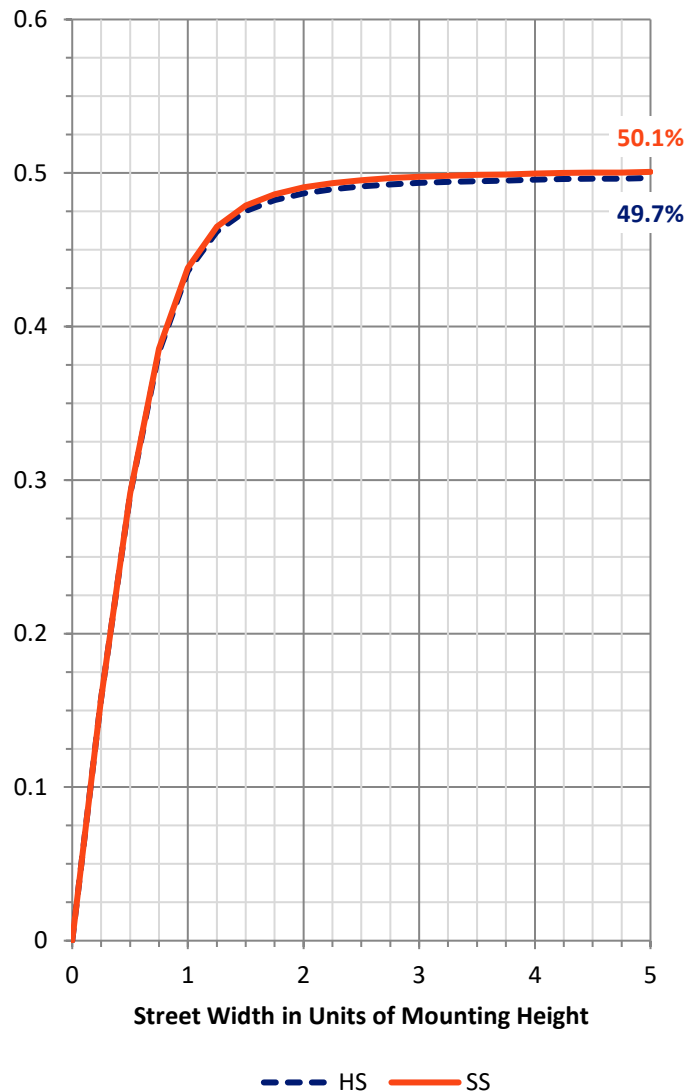
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6195.4	0.0	6195.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6195.4	0.0	6195.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	12390.8	0.0	12390.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.9	2.4
10°-20°	888.6	7.2
20°-30°	1477.6	11.9
30°-40°	1962.9	15.8
40°-50°	2212.9	17.9
50°-60°	2275.5	18.4
60°-70°	2150.4	17.4
70°-80°	1052.7	8.5
80°-90°	75.3	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°	12390.8	100.0
0°-180°	12390.8	100.0



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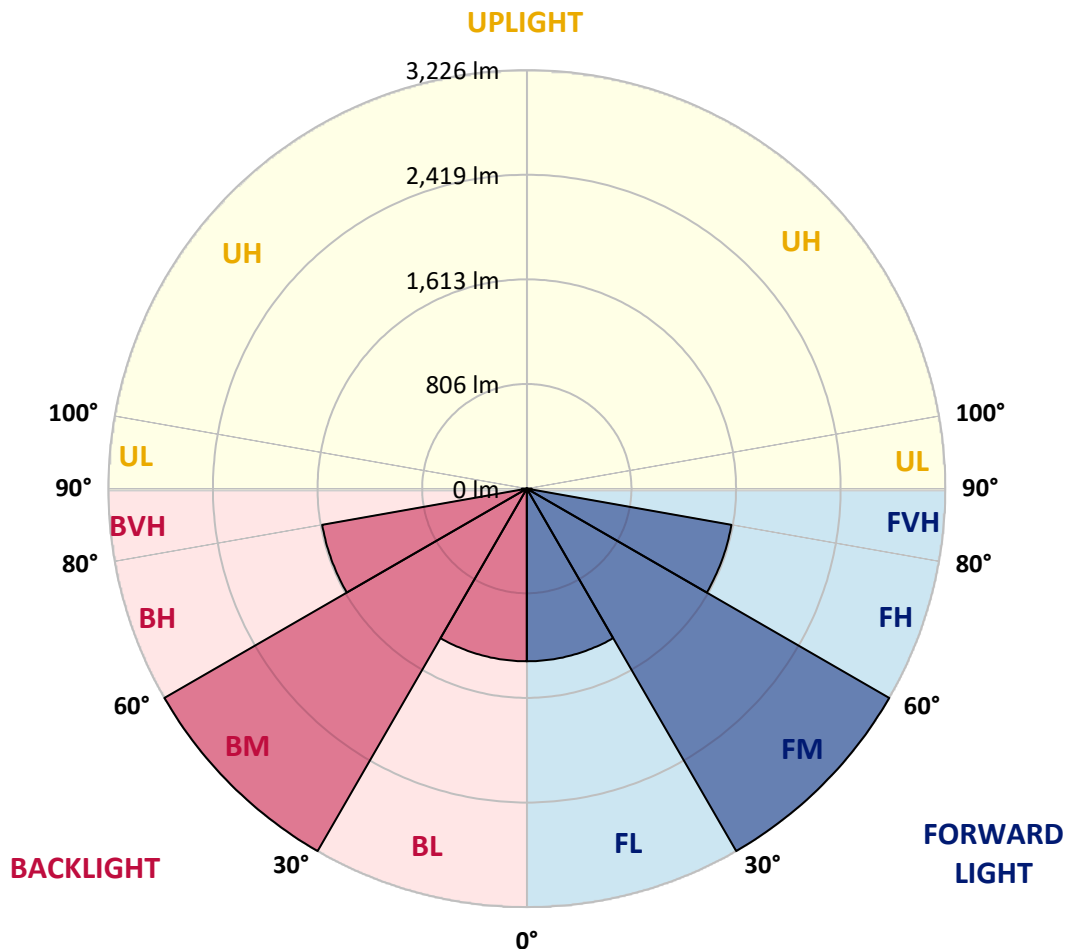
CATALOG NUMBER: GKO-PB2E-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1330.5	10.7			
FM	(30°-60°)	3225.7	26.0			
FH	(60°-80°)	1601.6	12.9			G1/1800
FVH	(80°-90°)	37.6	0.3			G1/100
BL	(0°-30°)	1330.5	10.7	B3/2500		
BM	(30°-60°)	3225.7	26.0	B3/5000		
BH	(60°-80°)	1601.6	12.9	B3/2500		G3/2500
BVH	(80°-90°)	37.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	3074.7	3074.7	3074.7	3074.7	3074.7	3074.7	3074.7	3074.7	3074.7	3074.7	3074.7
2.5°	3077.0	3081.5	3072.4	3072.4	3077.0	3079.2	3079.2	3081.5	3077.0	3077.0	3074.7
5°	3077.0	3079.2	3074.7	3074.7	3079.2	3086.1	3083.8	3088.4	3088.4	3086.1	3086.1
7.5°	3074.7	3079.2	3074.7	3077.0	3083.8	3097.5	3097.5	3097.5	3102.1	3106.7	3106.7
10°	3072.4	3077.0	3079.2	3081.5	3090.7	3111.2	3115.8	3118.1	3124.9	3131.8	3131.8
12.5°	3061.0	3065.5	3072.4	3081.5	3097.5	3124.9	3134.1	3140.9	3152.3	3159.2	3163.8
15°	3045.0	3047.3	3063.3	3081.5	3106.7	3140.9	3159.2	3170.6	3186.6	3195.7	3202.6
17.5°	3022.1	3024.4	3049.6	3077.0	3113.5	3161.5	3191.2	3209.5	3225.4	3239.1	3248.3
20°	2992.4	2999.3	3029.0	3072.4	3124.9	3182.0	3225.4	3257.4	3273.4	3287.1	3300.8
22.5°	2955.9	2962.7	2999.3	3061.0	3136.4	3209.5	3266.6	3307.7	3328.2	3346.5	3362.5
25°	2901.1	2910.2	2953.6	3033.6	3140.9	3239.1	3312.2	3364.8	3383.1	3405.9	3419.6
27.5°	2816.6	2823.4	2875.9	2978.7	3127.2	3271.1	3364.8	3426.5	3447.0	3472.1	3485.9
30°	2684.1	2697.8	2761.7	2889.6	3093.0	3296.3	3426.5	3488.1	3513.3	3538.4	3556.7
32.5°	2512.7	2533.3	2604.1	2768.6	3026.7	3305.4	3492.7	3563.5	3595.5	3622.9	3645.8
35°	2300.3	2320.9	2405.4	2613.2	2921.6	3287.1	3559.0	3650.3	3689.2	3725.7	3753.1
37.5°	2058.2	2076.4	2179.2	2416.8	2770.9	3230.0	3611.5	3746.3	3798.8	3846.8	3883.3
40°	1813.7	1834.3	1946.2	2199.8	2588.1	3120.4	3634.3	3851.3	3917.6	3979.3	4025.0
42.5°	1548.8	1573.9	1699.5	1969.1	2375.7	2969.6	3616.1	3954.1	4036.4	4120.9	4189.4
45°	1313.5	1318.0	1455.1	1715.5	2142.7	2775.4	3552.1	4052.4	4164.3	4283.1	4381.3
47.5°	1087.3	1096.5	1215.3	1473.4	1900.5	2556.1	3435.6	4130.0	4308.2	4461.3	4605.2
50°	886.3	897.7	1005.1	1235.8	1658.4	2316.3	3278.0	4175.7	4431.6	4639.4	4840.4
52.5°	721.8	735.5	824.6	1027.9	1414.0	2065.0	3083.8	4182.6	4543.5	4817.6	5084.9
55°	600.8	609.9	678.4	840.6	1178.7	1804.6	2862.2	4148.3	4616.6	4977.5	5333.9
57.5°	507.1	516.3	564.2	692.1	966.3	1537.3	2592.7	4068.4	4655.4	5116.9	5585.1
60°	440.9	447.7	482.0	573.4	794.9	1286.1	2302.6	3926.7	4644.0	5203.7	5793.0
62.5°	392.9	395.2	424.9	488.8	655.6	1048.5	1975.9	3714.3	4550.3	5215.1	5934.6
65°	349.5	351.8	370.1	415.7	539.1	842.9	1635.6	3421.9	4372.2	5135.1	5955.2
67.5°	283.3	287.8	315.2	349.5	443.2	667.0	1288.3	3038.1	4093.5	4927.3	5838.7
70°	226.1	228.4	255.8	294.7	360.9	525.4	989.1	2521.9	3657.2	4589.2	5537.2
72.5°	169.0	173.6	198.7	237.6	294.7	406.6	715.0	1907.4	2923.9	3869.6	4822.2
75°	134.8	137.1	146.2	182.7	228.4	308.4	482.0	1155.9	1761.2	2394.0	2955.9
77.5°	114.2	116.5	116.5	141.6	169.0	207.9	255.8	459.1	744.7	1059.9	1404.8
80°	93.7	98.2	89.1	105.1	121.1	121.1	118.8	219.3	351.8	498.0	653.3
82.5°	68.5	73.1	68.5	73.1	73.1	66.2	61.7	82.2	111.9	153.0	166.8
85°	48.0	50.3	54.8	50.3	48.0	38.8	29.7	22.8	13.7	16.0	22.8
87.5°	32.0	38.8	45.7	43.4	36.5	29.7	20.6	13.7	6.9	9.1	9.1
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):

	85°	87.5°	90°
0°	3074.7	3074.7	3074.7
2.5°	3077.0	3074.7	3072.4
5°	3088.4	3086.1	3083.8
7.5°	3104.4	3104.4	3104.4
10°	3129.5	3134.1	3134.1
12.5°	3161.5	3166.1	3166.1
15°	3200.3	3202.6	3207.2
17.5°	3248.3	3250.6	3250.6
20°	3305.4	3303.1	3307.7
22.5°	3362.5	3362.5	3362.5
25°	3421.9	3421.9	3421.9
27.5°	3490.4	3490.4	3485.9
30°	3565.8	3565.8	3565.8
32.5°	3657.2	3659.5	3661.7
35°	3773.7	3778.2	3785.1
37.5°	3906.2	3917.6	3924.4
40°	4063.8	4068.4	4079.8
42.5°	4239.7	4253.4	4255.7
45°	4459.0	4481.8	4490.9
47.5°	4717.1	4749.1	4765.1
50°	5004.9	5041.5	5064.3
52.5°	5317.9	5377.3	5404.7
55°	5651.4	5754.2	5783.9
57.5°	6028.3	6167.6	6208.7
60°	6398.3	6594.8	6661.0
62.5°	6713.6	6990.0	7072.2
65°	6935.2	7268.7	7389.7
67.5°	6980.8	7376.0	7519.9
70°	6706.7	7111.1	7277.8
72.5°	5831.8	6197.3	6405.2
75°	3444.7	3707.4	3643.5
77.5°	1729.2	1804.6	1816.0
80°	758.4	804.1	822.4
82.5°	187.3	191.9	217.0
85°	25.1	29.7	27.4
87.5°	9.1	9.1	11.4
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

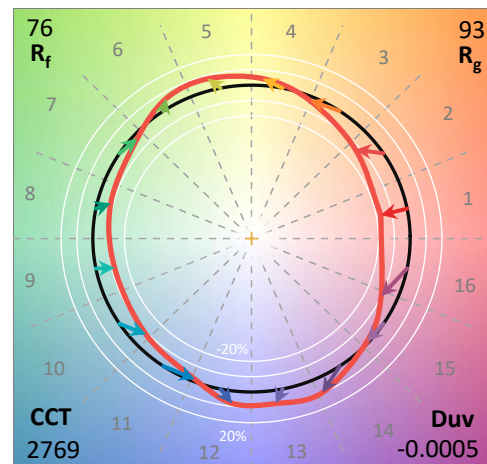
Test Information

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

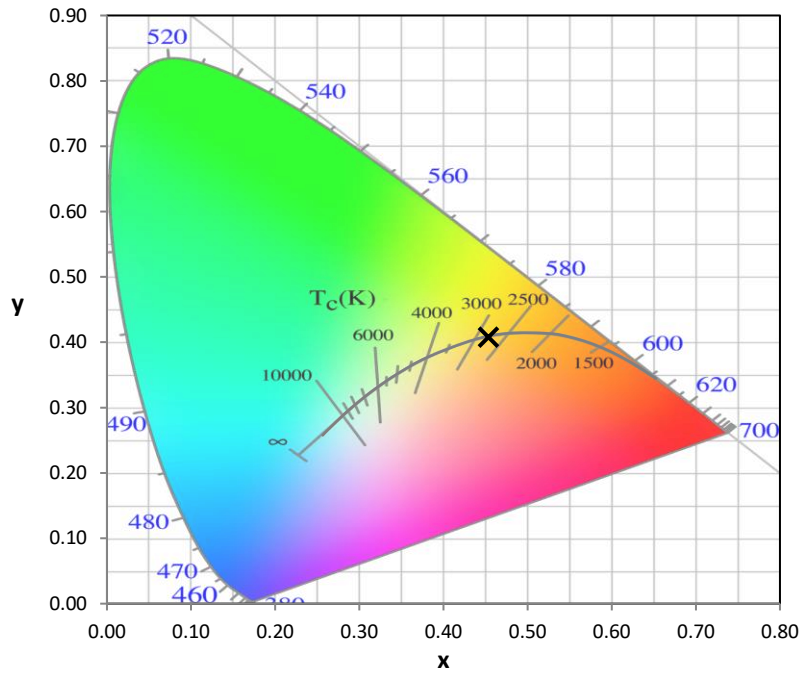
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.0

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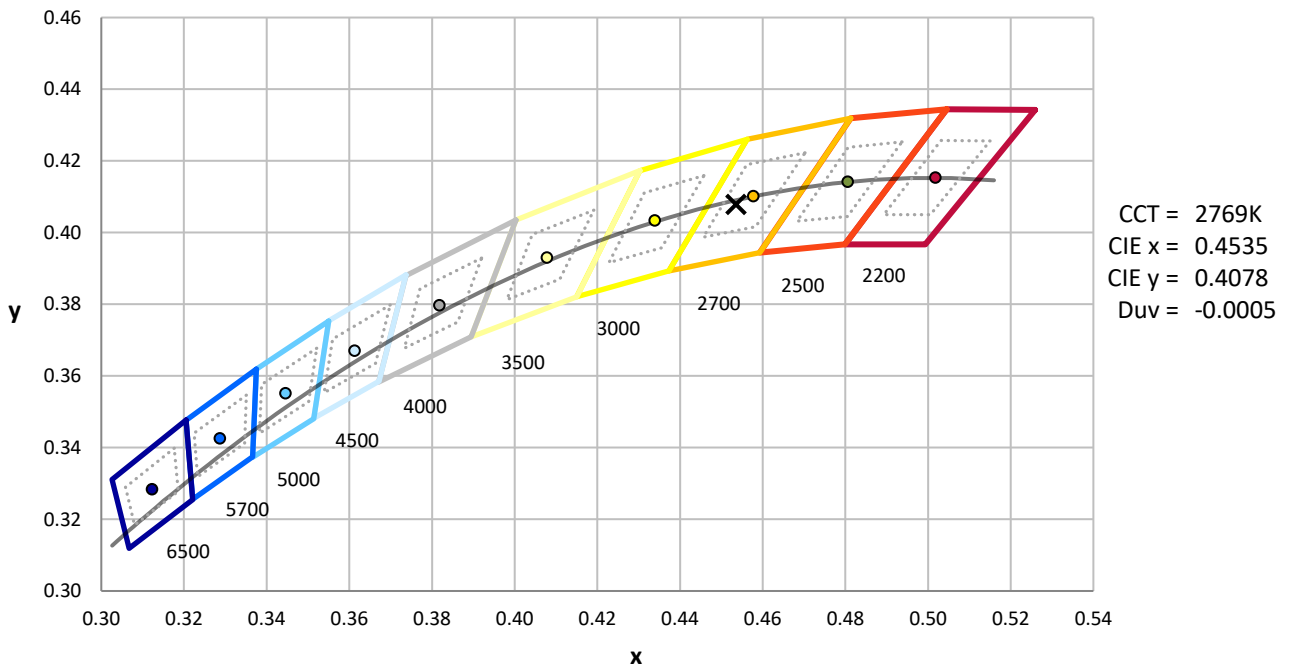
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN2187	1/6/2025	7/6/2025
Power Meter	INXT2011002	1/21/2025	1/21/2026
AC Power Source	IN0458	10/22/2024	10/22/2025
DC Power Source	IN0212	10/22/2024	10/22/2025
Sphere Thermometer	IN4036B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

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CIE 1931 Chromaticity Diagram



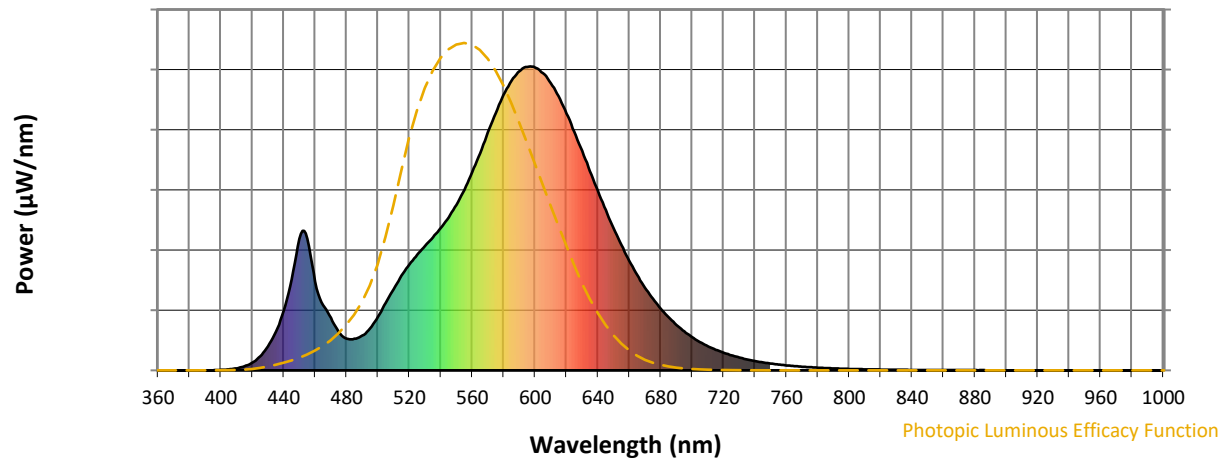
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

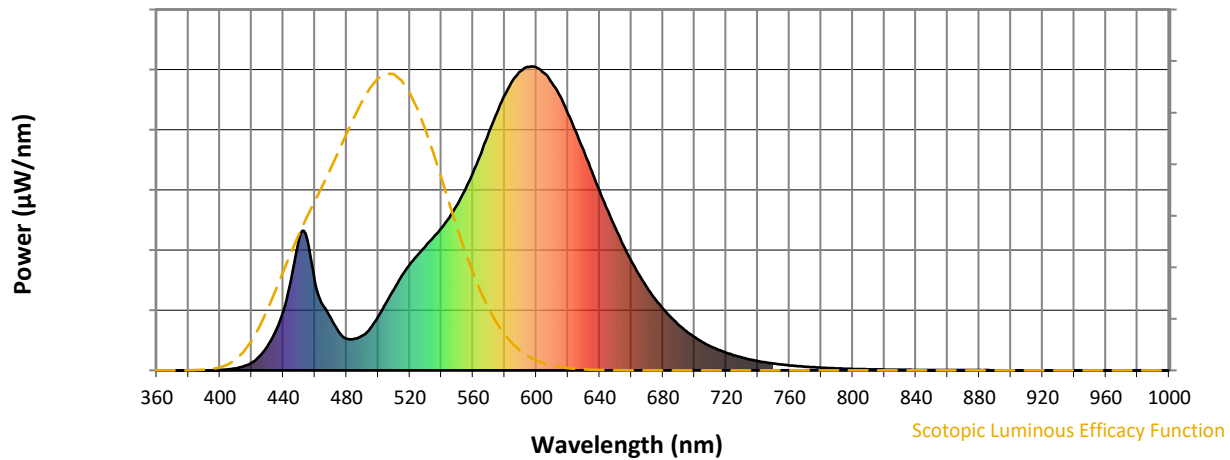


Photopic Lumens: NR

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	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			

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Scotopic Flux vs. Wavelength



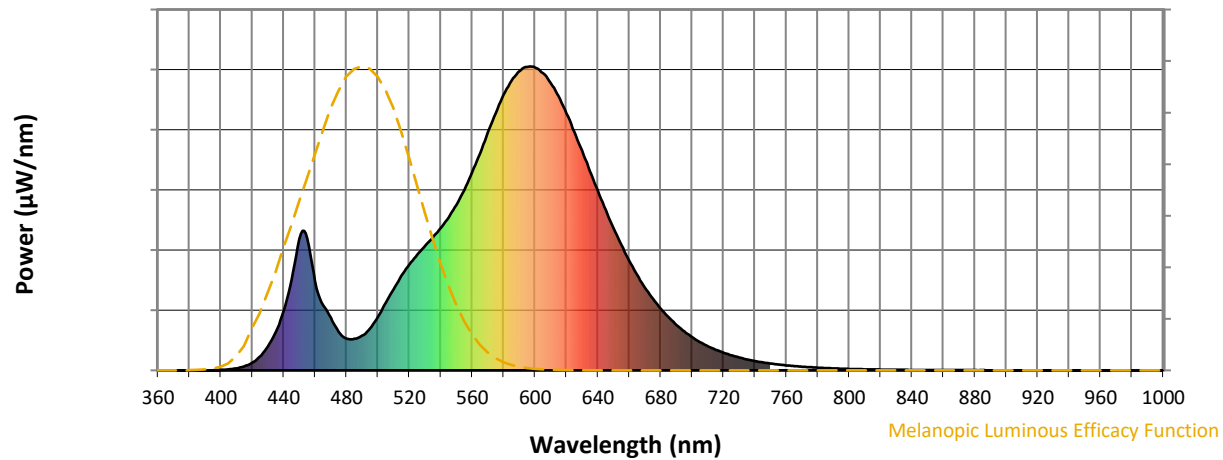
Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.08

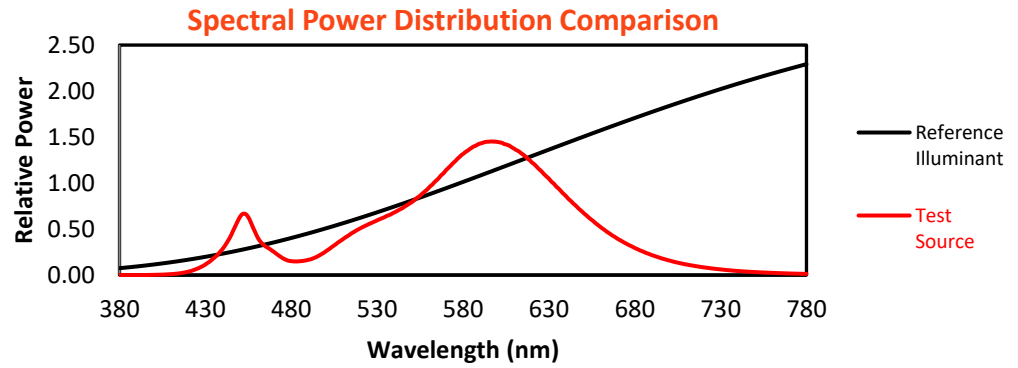
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	114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

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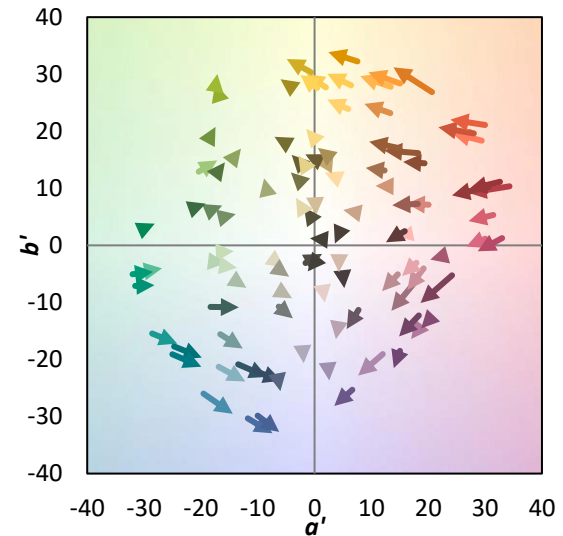
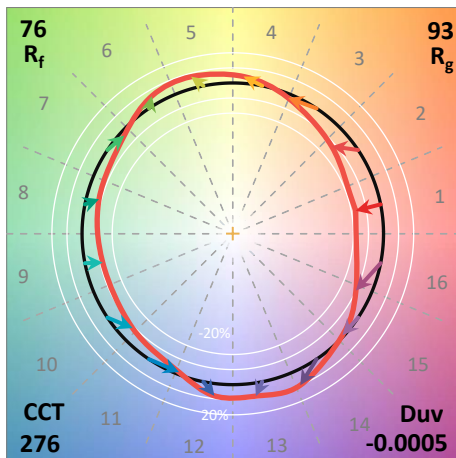
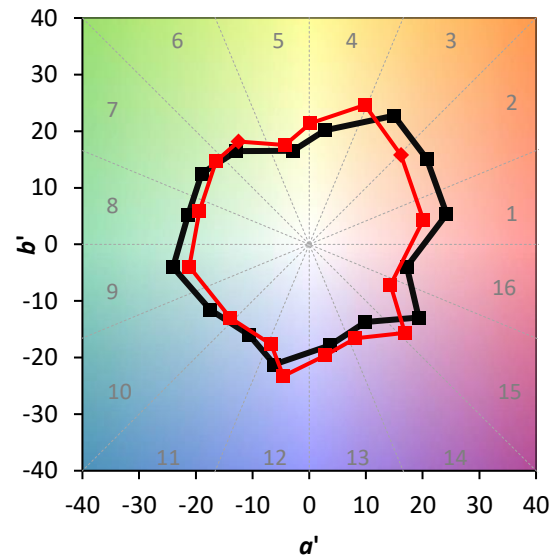
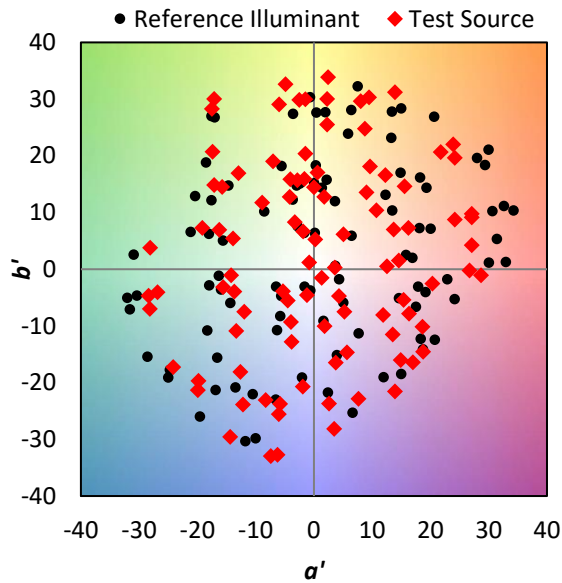
TM-30-18

Summary

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

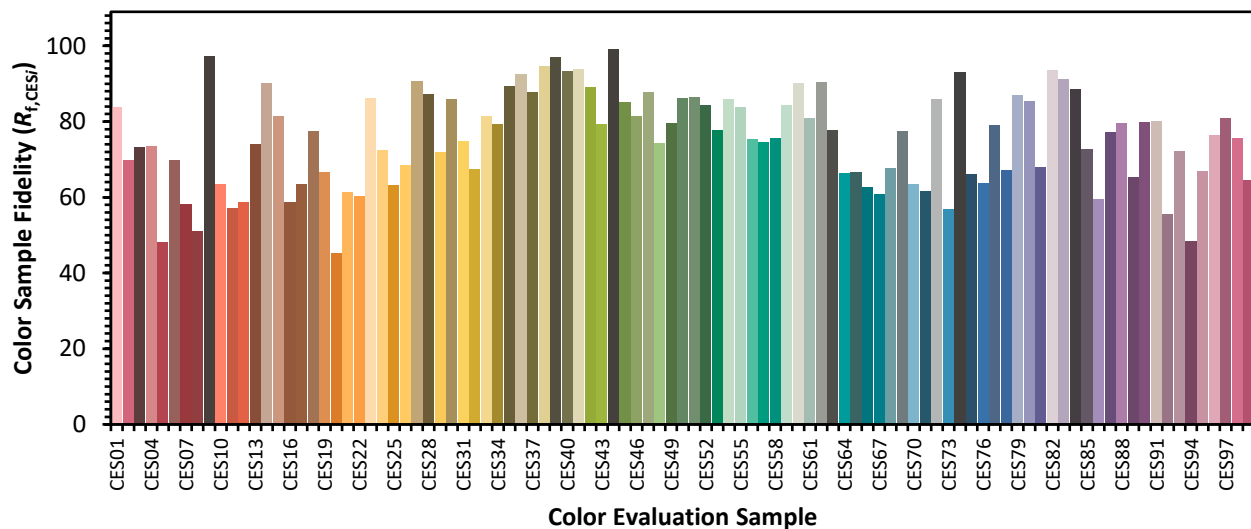


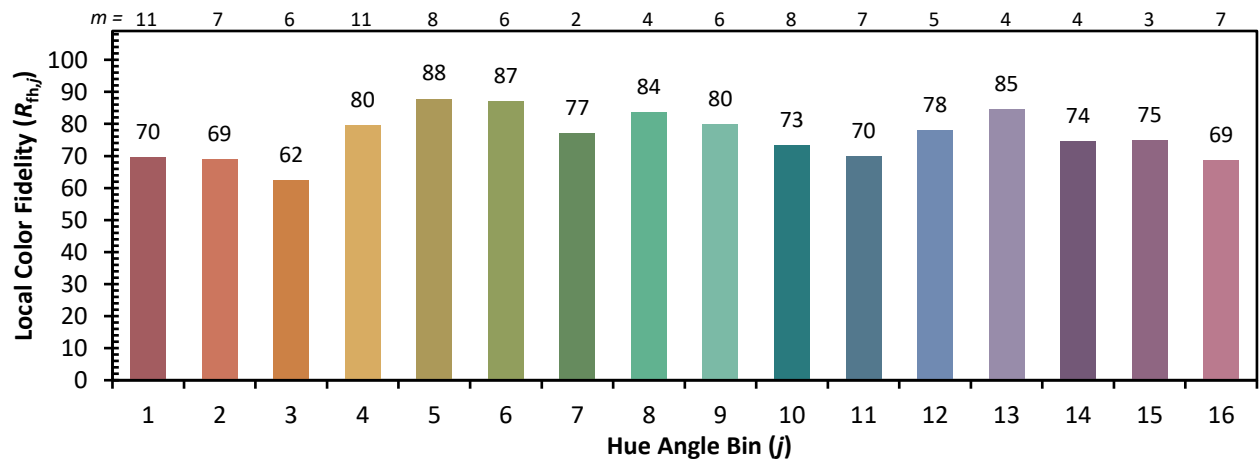
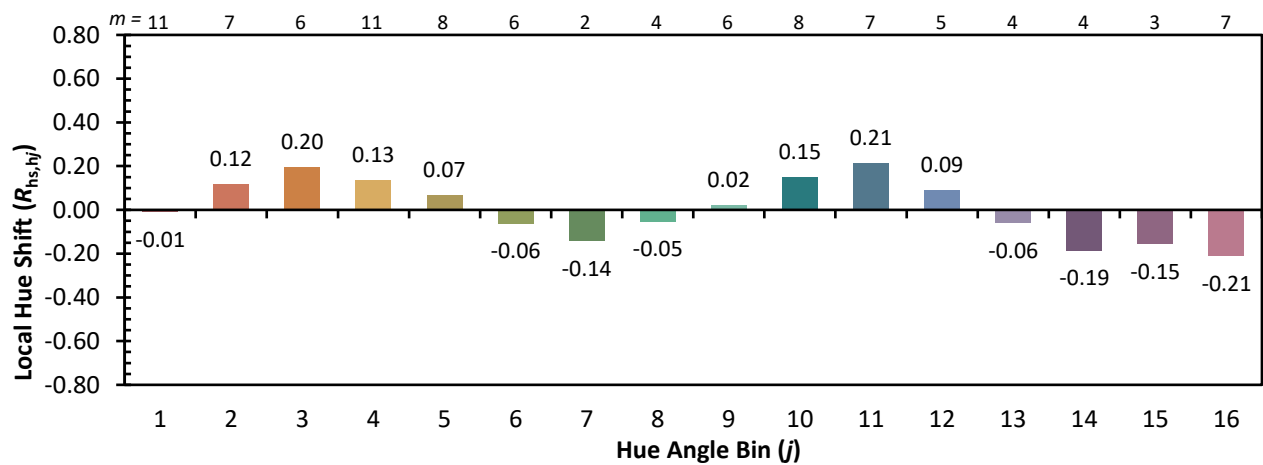
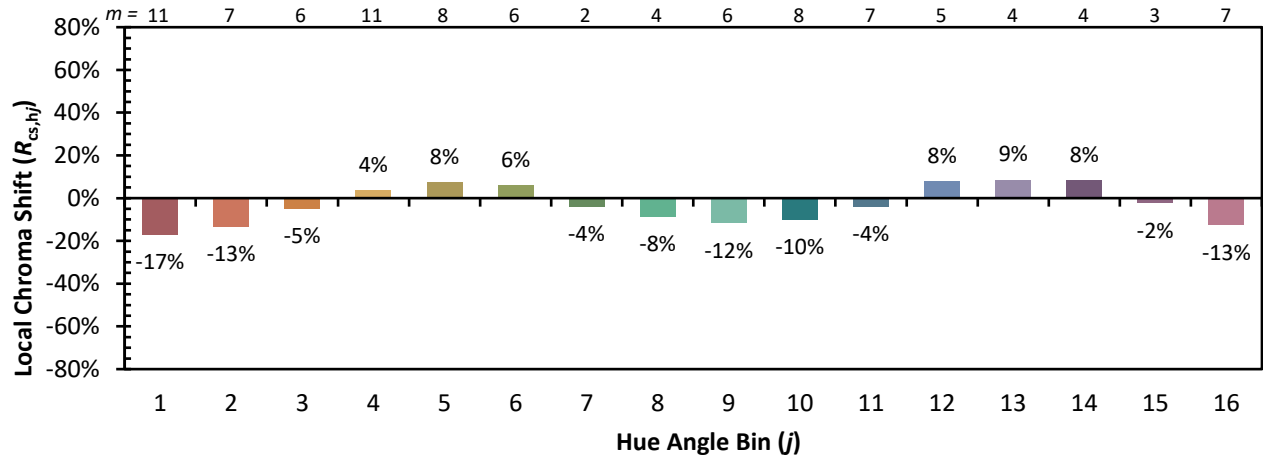
Color Vector Graphics



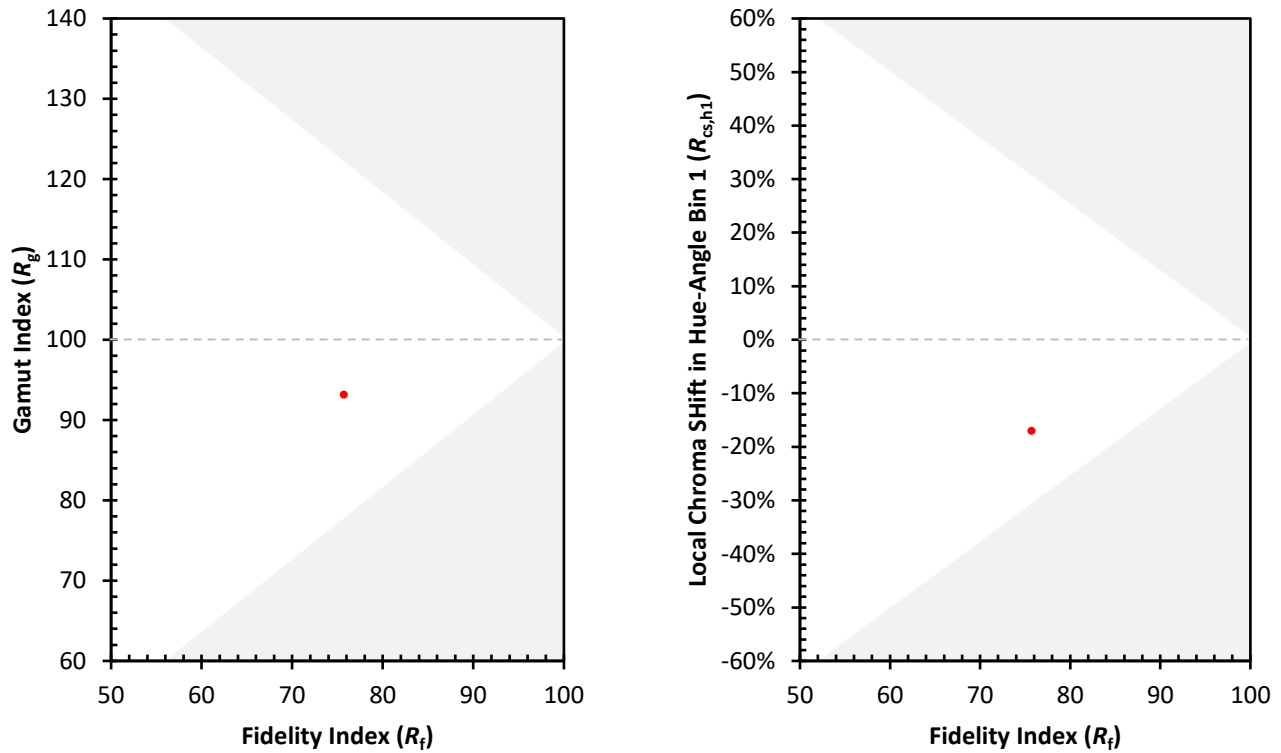
Individual Sample Fidelity Index ($R_{f,i}$)

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)