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: P972424

Luminaire Tested: **GKO-PB1C-740-U-T1**

Issue Date: 02/27/2025

Report Generated By 670245763

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P972424
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	02/27/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GKO-PB1C-740-U-T1
Description:	GEKKO WALL PACK 2500LM PACKAGE 70CRI 4000K FIXTURE w/ TYPE I DISTRIBUTION OPTIC
Light Source:	(10) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2703.2 lumens
Efficiency:	N/A
Efficacy:	159.0 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):	17
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.97
Total Harmonic Distortion (THDi):	13%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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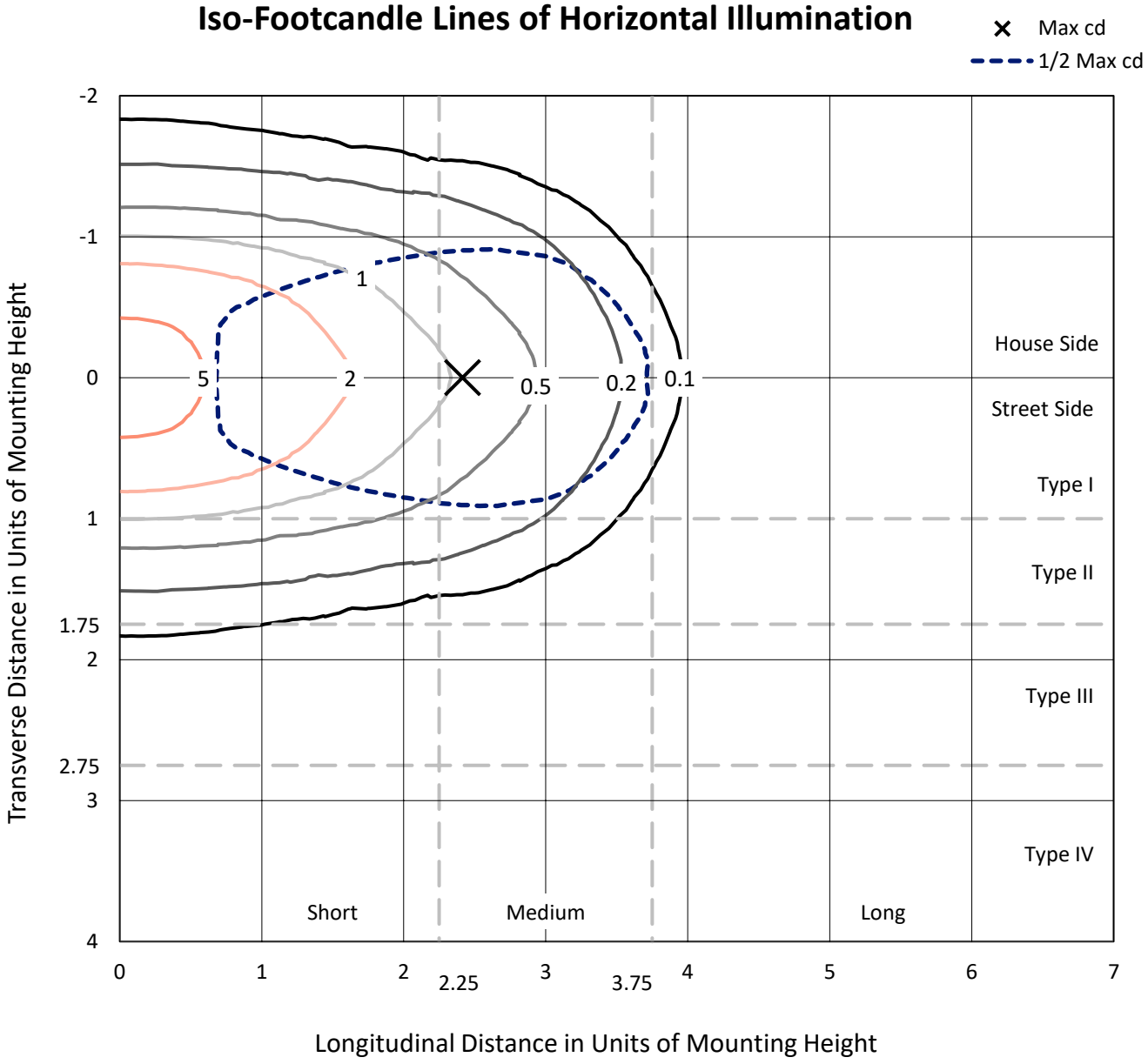
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
Type I - Short - N/A

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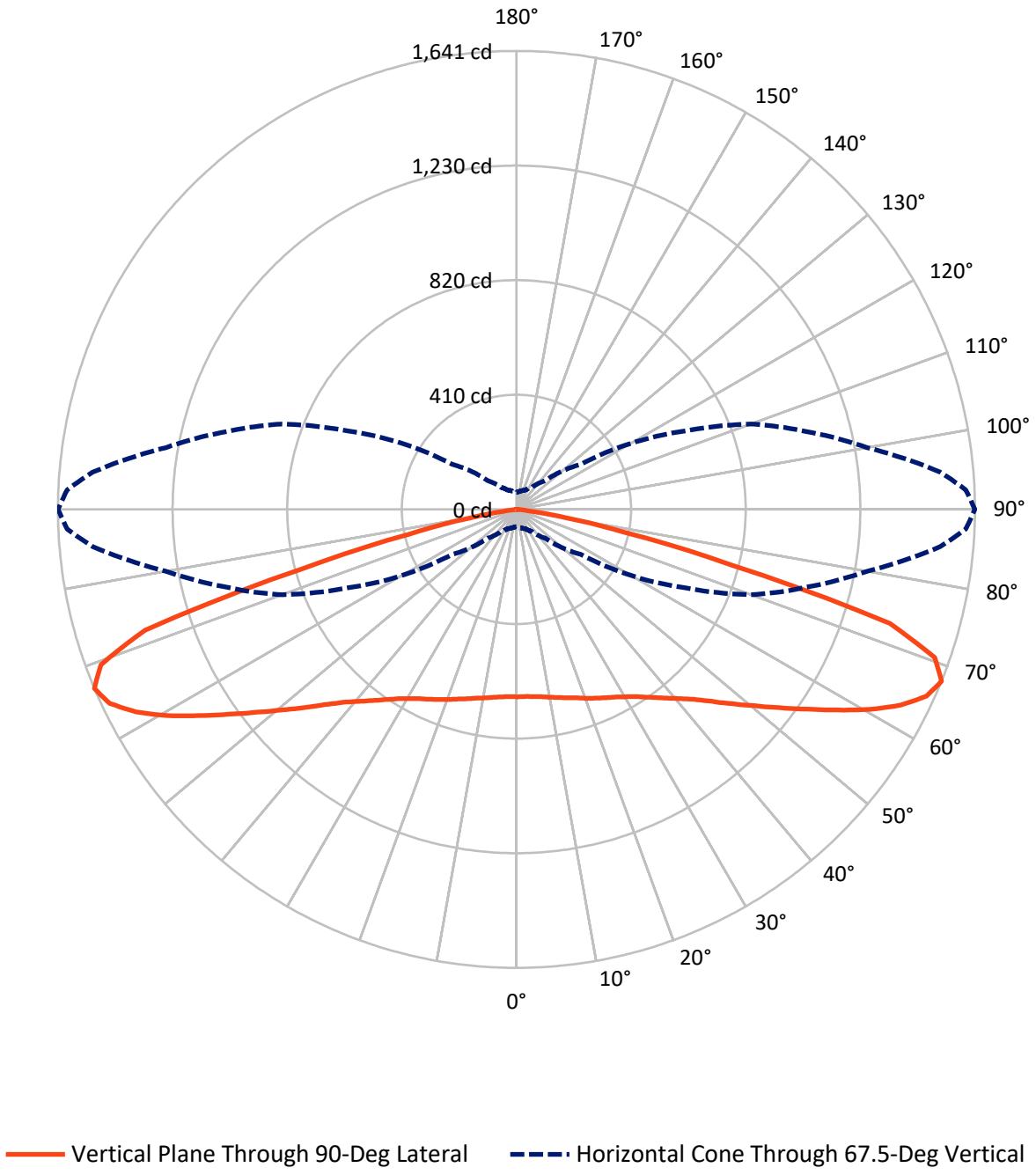
Luminous Intensity Polar Plot



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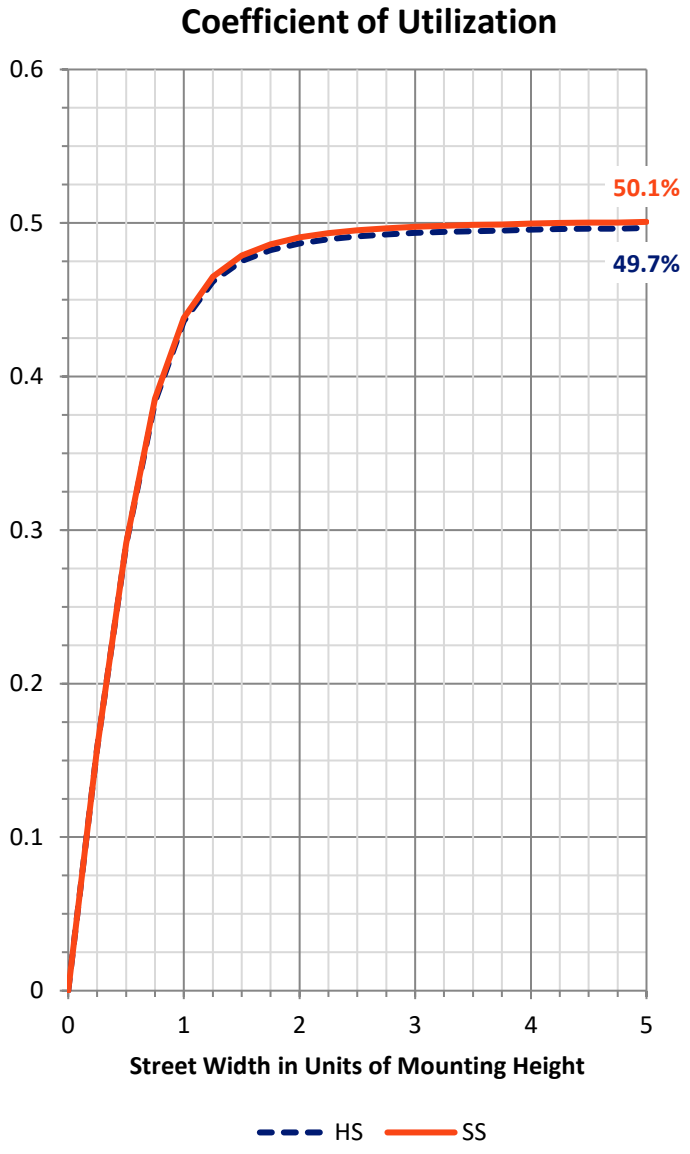
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1351.6	0.0	1351.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1351.6	0.0	1351.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	2703.2	0.0	2703.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	2.4
10°-20°	193.9	7.2
20°-30°	322.4	11.9
30°-40°	428.2	15.8
40°-50°	482.8	17.9
50°-60°	496.4	18.4
60°-70°	469.1	17.4
70°-80°	229.7	8.5
80°-90°	16.4	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°	2703.2	100.0
0°-180°	2703.2	100.0



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REPORT NUMBER: P972424
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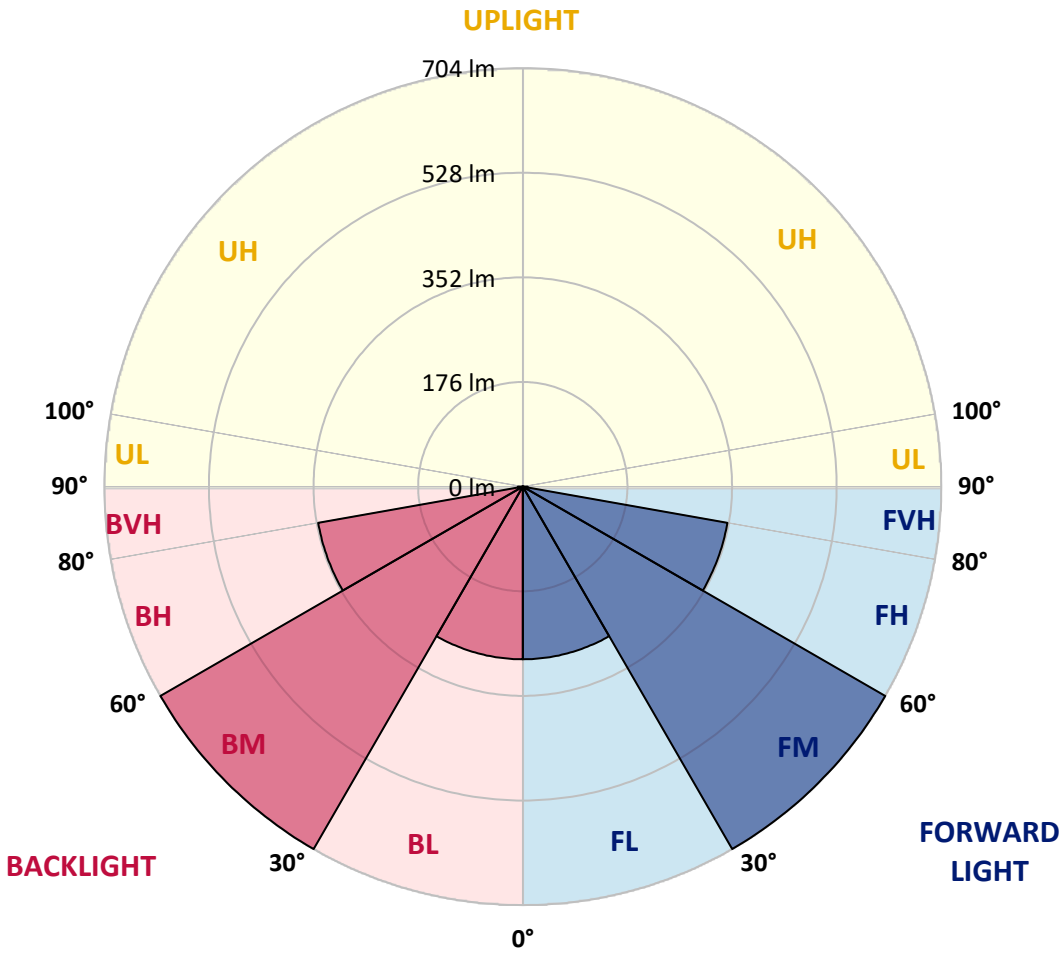
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	290.3	10.7			
FM	(30°-60°)	703.7	26.0			
FH	(60°-80°)	349.4	12.9			G0/660
FVH	(80°-90°)	8.2	0.3			G0/10
BL	(0°-30°)	290.3	10.7	B1/500		
BM	(30°-60°)	703.7	26.0	B1/1000		
BH	(60°-80°)	349.4	12.9	B1/500		G1/500
BVH	(80°-90°)	8.2	0.3			G0/10
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



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Scaled Data Report

REPORT NUMBER: P972424
CATALOG NUMBER: GKO-PB1C-740-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8	670.8
2.5°	671.3	672.3	670.3	670.3	671.3	671.8	671.8	672.3	671.3	671.3	670.8
5°	671.3	671.8	670.8	670.8	671.8	673.3	672.8	673.8	673.8	673.3	673.3
7.5°	670.8	671.8	670.8	671.3	672.8	675.8	675.8	675.8	676.8	677.8	677.8
10°	670.3	671.3	671.8	672.3	674.3	678.8	679.8	680.2	681.7	683.2	683.2
12.5°	667.8	668.8	670.3	672.3	675.8	681.7	683.7	685.2	687.7	689.2	690.2
15°	664.3	664.8	668.3	672.3	677.8	685.2	689.2	691.7	695.2	697.2	698.7
17.5°	659.3	659.8	665.3	671.3	679.3	689.7	696.2	700.2	703.7	706.7	708.7
20°	652.8	654.3	660.8	670.3	681.7	694.2	703.7	710.6	714.1	717.1	720.1
22.5°	644.9	646.4	654.3	667.8	684.2	700.2	712.6	721.6	726.1	730.1	733.6
25°	632.9	634.9	644.4	661.8	685.2	706.7	722.6	734.1	738.1	743.0	746.0
27.5°	614.5	616.0	627.4	649.8	682.2	713.6	734.1	747.5	752.0	757.5	760.5
30°	585.6	588.6	602.5	630.4	674.8	719.1	747.5	761.0	766.5	771.9	775.9
32.5°	548.2	552.7	568.1	604.0	660.3	721.1	762.0	777.4	784.4	790.4	795.4
35°	501.8	506.3	524.8	570.1	637.4	717.1	776.4	796.4	804.8	812.8	818.8
37.5°	449.0	453.0	475.4	527.3	604.5	704.7	787.9	817.3	828.8	839.2	847.2
40°	395.7	400.2	424.6	479.9	564.6	680.7	792.9	840.2	854.7	868.1	878.1
42.5°	337.9	343.4	370.8	429.6	518.3	647.9	788.9	862.6	880.6	899.0	914.0
45°	286.6	287.5	317.4	374.3	467.5	605.5	774.9	884.1	908.5	934.4	955.8
47.5°	237.2	239.2	265.1	321.4	414.6	557.7	749.5	901.0	939.9	973.3	1004.7
50°	193.4	195.9	219.3	269.6	361.8	505.3	715.1	911.0	966.8	1012.2	1056.0
52.5°	157.5	160.5	179.9	224.3	308.5	450.5	672.8	912.5	991.2	1051.0	1109.3
55°	131.1	133.1	148.0	183.4	257.1	393.7	624.4	905.0	1007.2	1085.9	1163.6
57.5°	110.6	112.6	123.1	151.0	210.8	335.4	565.6	887.6	1015.6	1116.3	1218.5
60°	96.2	97.7	105.2	125.1	173.4	280.6	502.3	856.7	1013.1	1135.2	1263.8
62.5°	85.7	86.2	92.7	106.6	143.0	228.7	431.1	810.3	992.7	1137.7	1294.7
65°	76.2	76.7	80.7	90.7	117.6	183.9	356.8	746.5	953.8	1120.3	1299.2
67.5°	*61.8*	*62.8*	*68.8*	*76.2*	*96.7*	*145.5*	*281.1*	*662.8*	*893.0*	*1074.9*	*1273.8*
70°	49.3	49.8	55.8	64.3	78.7	114.6	215.8	550.2	797.9	1001.2	1208.0
72.5°	36.9	37.9	43.4	51.8	64.3	88.7	156.0	416.1	637.9	844.2	1052.0
75°	29.4	29.9	31.9	39.9	49.8	67.3	105.2	252.2	384.2	522.3	644.9
77.5°	24.9	25.4	25.4	30.9	36.9	45.3	55.8	100.2	162.5	231.2	306.5
80°	20.4	21.4	19.4	22.9	26.4	26.4	25.9	47.8	76.7	108.6	142.5
82.5°	15.0	15.9	15.0	15.9	15.9	14.5	13.5	17.9	24.4	33.4	36.4
85°	10.5	11.0	12.0	11.0	10.5	8.5	6.5	5.0	3.0	3.5	5.0
87.5°	7.0	8.5	10.0	9.5	8.0	6.5	4.5	3.0	1.5	2.0	2.0
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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CATALOG NUMBER: GKO-PB1C-740-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°
0°	670.8	670.8	*670.8*
2.5°	671.3	670.8	*670.3*
5°	673.8	673.3	*672.8*
7.5°	677.3	677.3	*677.3*
10°	682.7	683.7	*683.7*
12.5°	689.7	690.7	*690.7*
15°	698.2	698.7	*699.7*
17.5°	708.7	709.2	*709.2*
20°	721.1	720.6	*721.6*
22.5°	733.6	733.6	*733.6*
25°	746.5	746.5	*746.5*
27.5°	761.5	761.5	*760.5*
30°	777.9	777.9	*777.9*
32.5°	797.9	798.4	*798.9*
35°	823.3	824.3	*825.8*
37.5°	852.2	854.7	*856.2*
40°	886.6	887.6	*890.1*
42.5°	924.9	927.9	*928.4*
45°	972.8	977.8	*979.8*
47.5°	1029.1	1036.1	*1039.6*
50°	1091.9	1099.9	*1104.8*
52.5°	1160.2	1173.1	*1179.1*
55°	1232.9	1255.3	*1261.8*
57.5°	1315.1	1345.5	*1354.5*
60°	1395.9	1438.7	*1453.2*
62.5°	1464.7	1525.0	*1542.9*
65°	1513.0	1585.8	*1612.2*
67.5°	*1523.0*	*1609.2*	*1640.6*
70°	1463.2	1551.4	*1587.7*
72.5°	1272.3	1352.0	*1397.4*
75°	751.5	808.8	*794.9*
77.5°	377.3	393.7	*396.2*
80°	165.5	175.4	*179.4*
82.5°	40.9	41.9	*47.3*
85°	5.5	6.5	*6.0*
87.5°	2.0	2.0	*2.5*
90°	0.0	0.0	*0.0*

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1121 Highway 74 South
Peachtree City, GA 30269

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

Report Generated By FNC07603 / LDUCLS01DT447
Version: v7.04

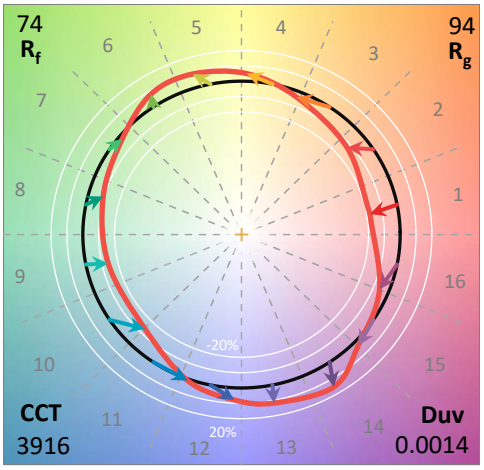
Test Information

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
CIE u':	0.2259
CIE v':	0.5049
Duv:	0.0014
CIE x:	0.3853
CIE y:	0.3827
CIE z:	0.2321
Peak Wavelength (nm):	449
Dominant Wavelength (nm):	578
Purity:	30.46652
Rf:	73.5
Rg:	93.5

CRI (Ra):	71.0				
R1:	67.4	R9:	-37.9
R2:	78.3	R10:	48.9
R3:	87.2	R11:	64.6
R4:	69.5	R12:	40.9
R5:	67.2	R13:	69.2
R6:	69.3	R14:	92.7
R7:	79.9	R15:	59.8
R8:	48.9		



Test Conditions

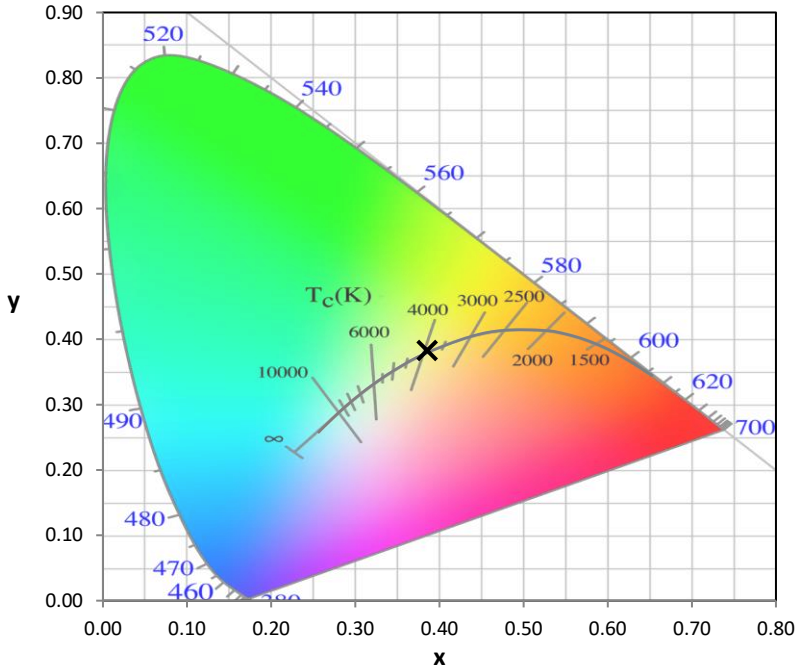
Stabilization Time:	33M
Operation Time:	1H 33M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP2-2501-321-1

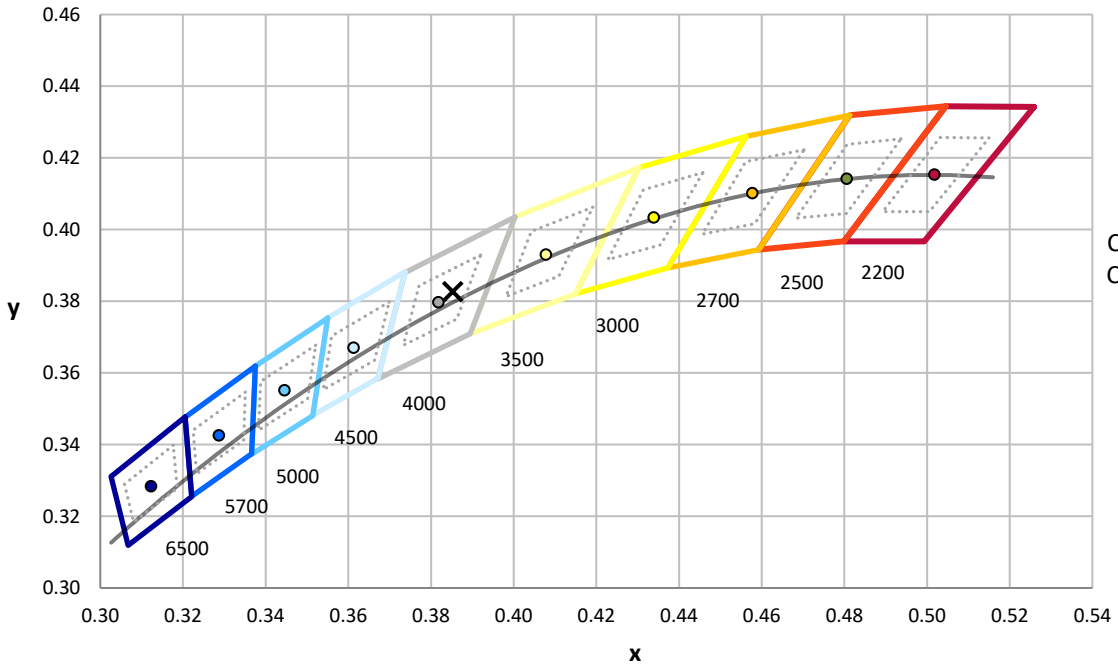
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN2187	1/6/2025	7/6/2025
Power Meter	INXT2011002	1/21/2025	1/21/2026
AC Power Source	IN0458	10/22/2024	10/22/2025
DC Power Source	IN0212	10/22/2024	10/22/2025
Sphere Thermometer	IN4036B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



CCT = 3916K
CIE x = 0.3853
CIE y = 0.3827
Duv = 0.0014

Point lies inside the ANSI 4000K 4-step quadrangle

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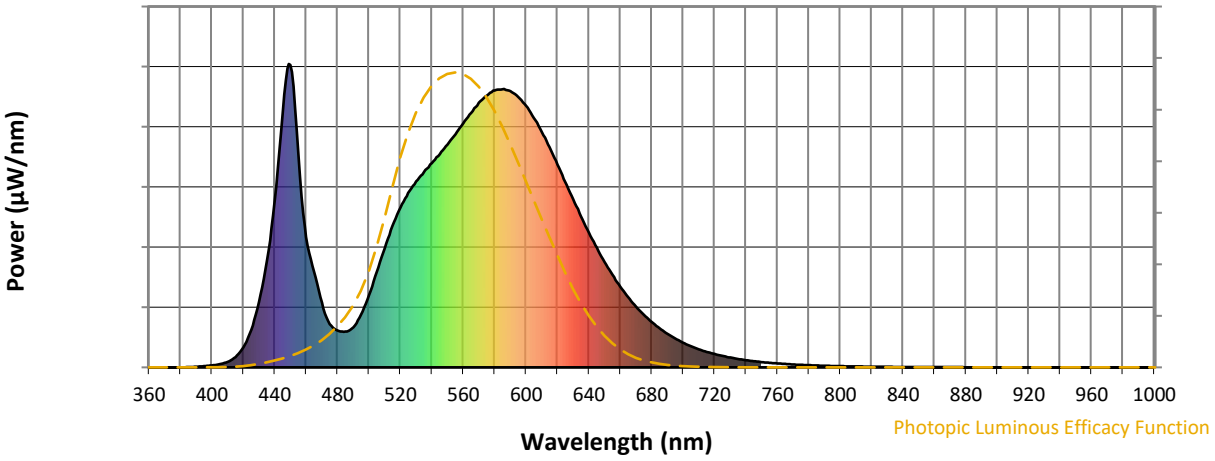
Photopic Flux vs. Wavelength

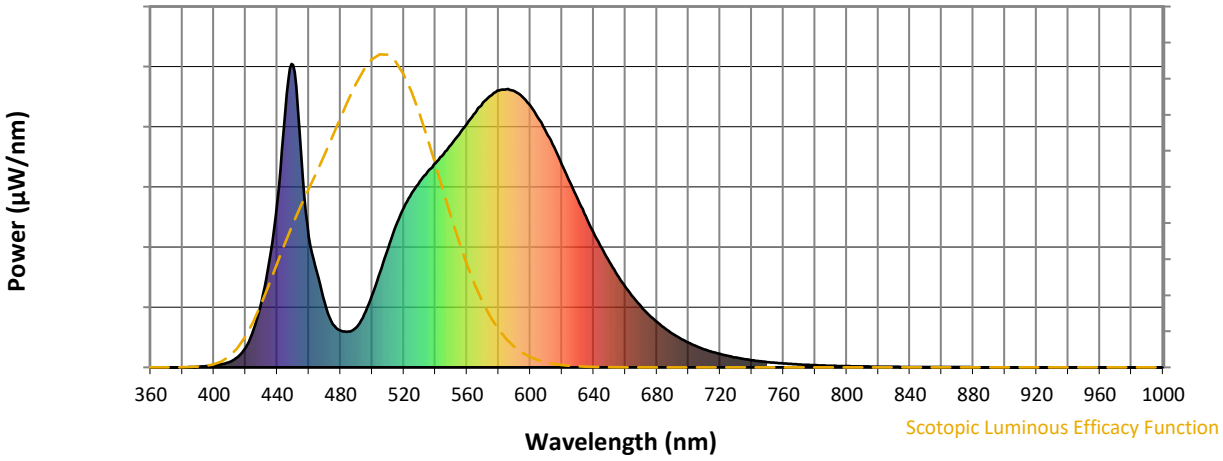


Photopic Lumens: NR

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	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 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	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			

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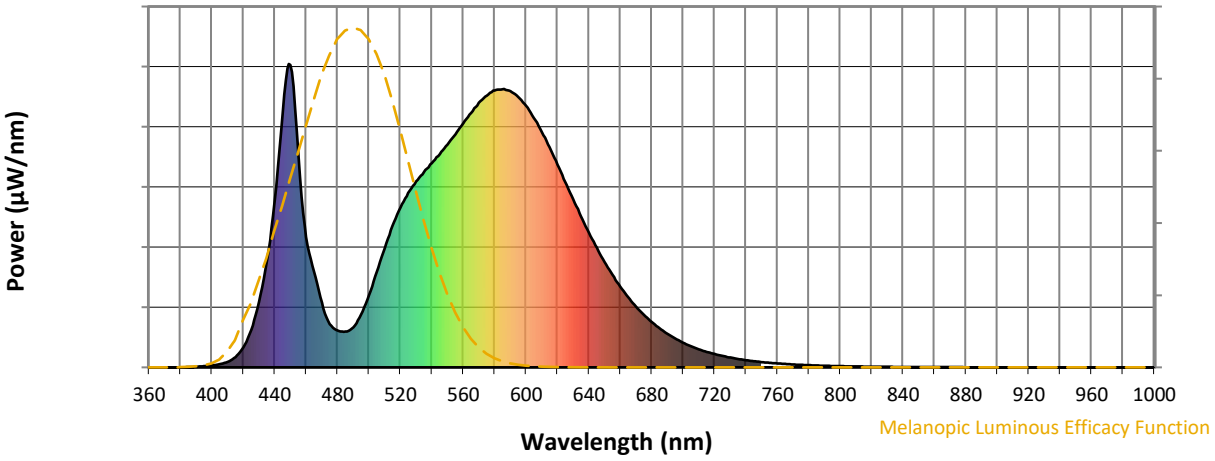
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.88**

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	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			

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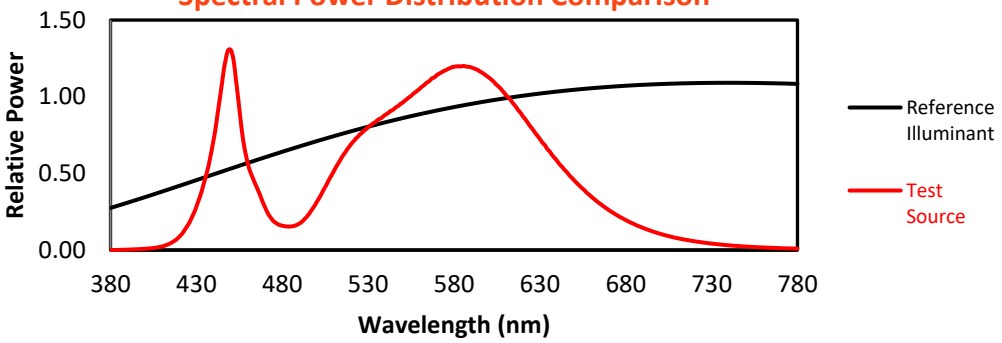
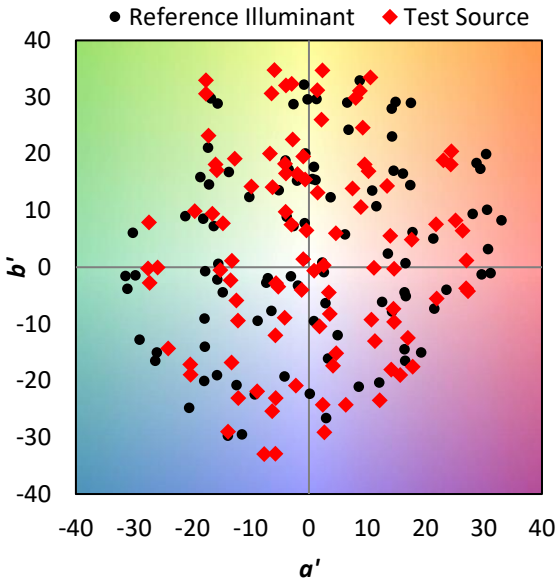
Summary

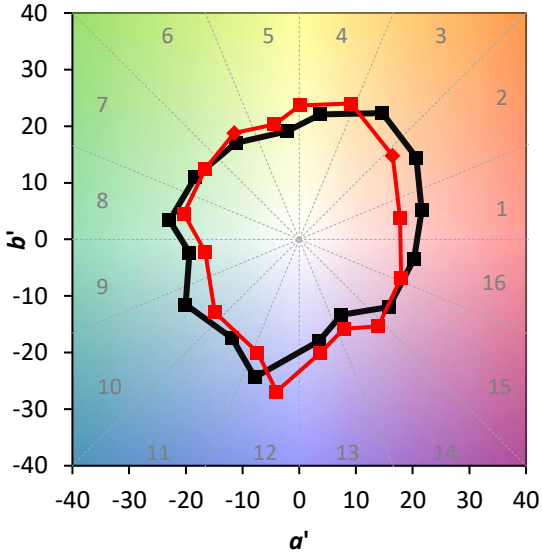
R_f = 73.5
R_g = 93.5
CIE R_a = 71.0
R_9 = -37.9

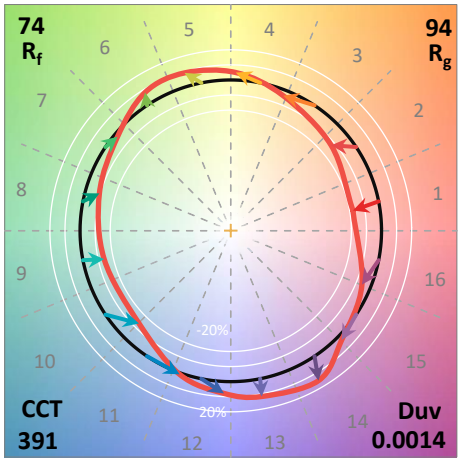
Spectral Power Distribution Comparison

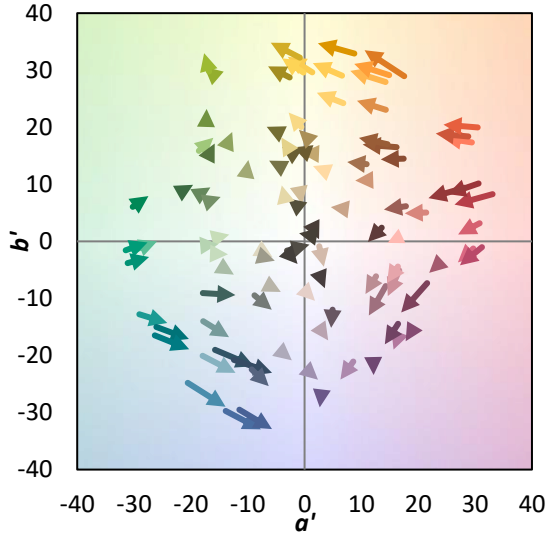


Color Vector Graphics









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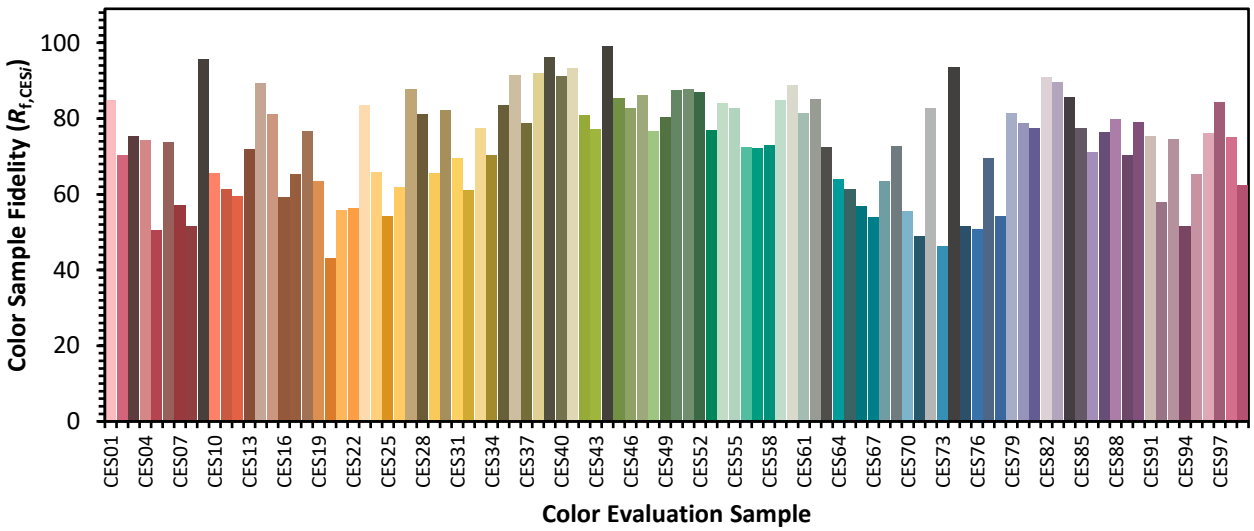
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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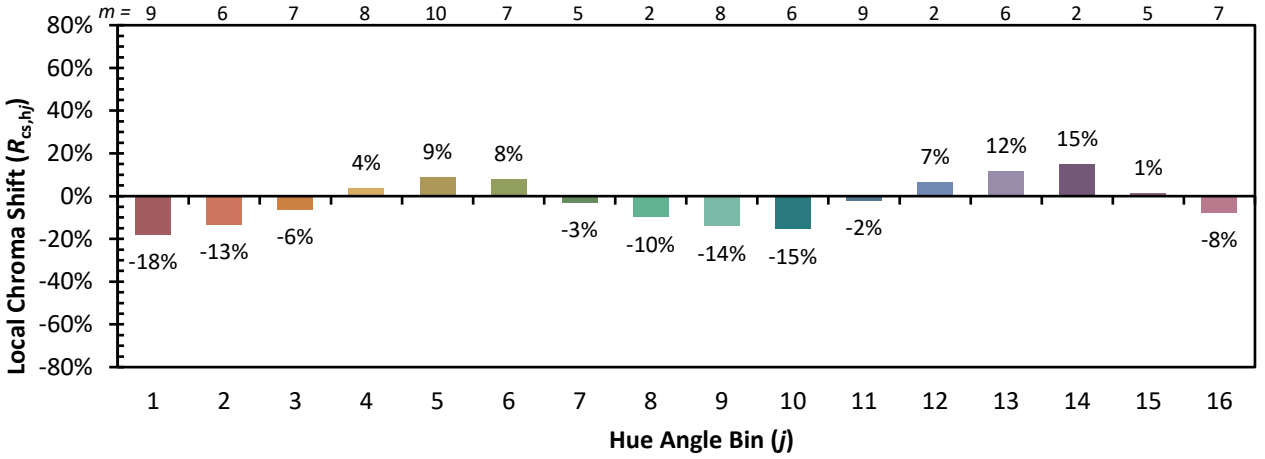
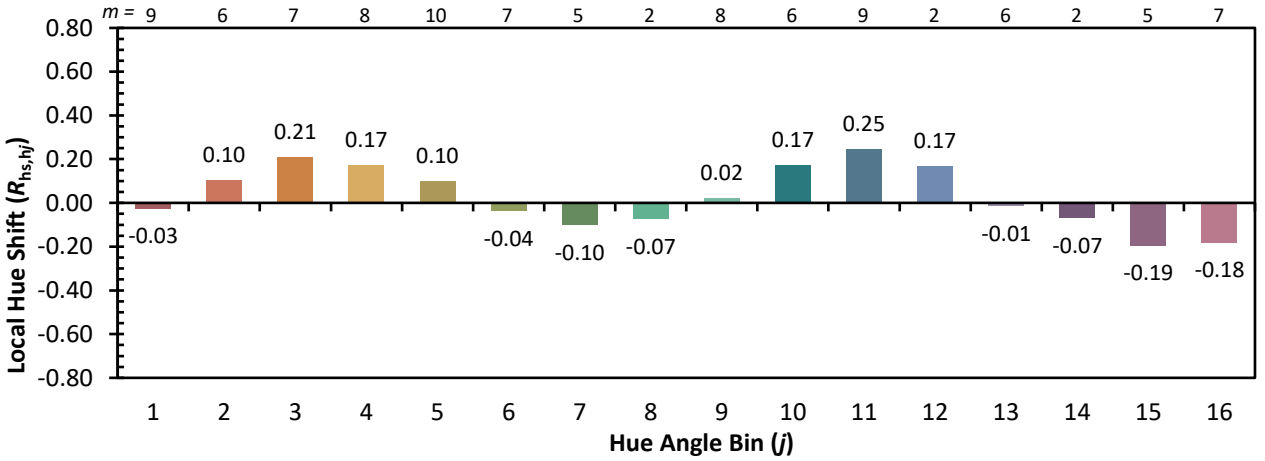
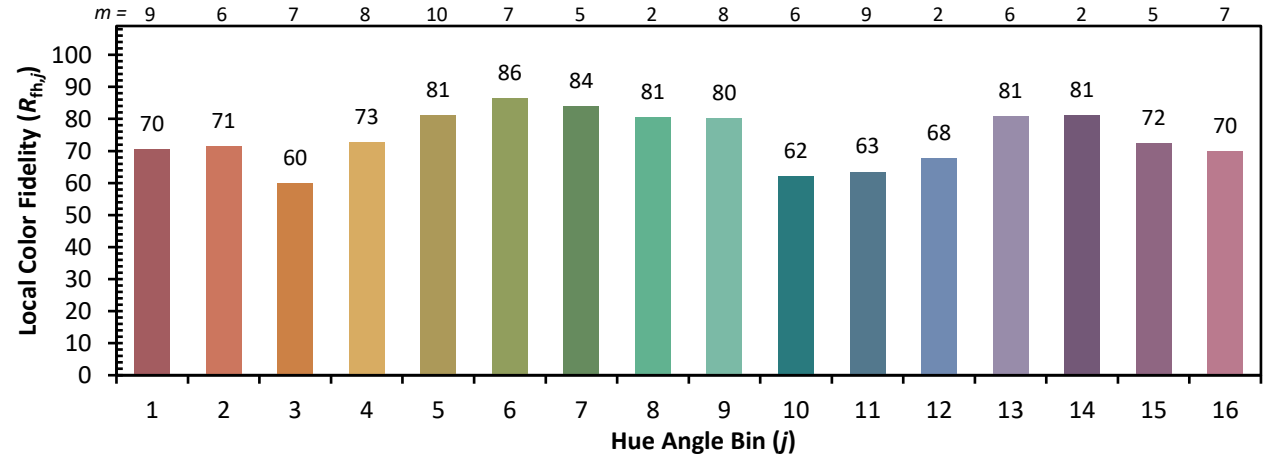
Color Rendition by Hue-Angle Bin







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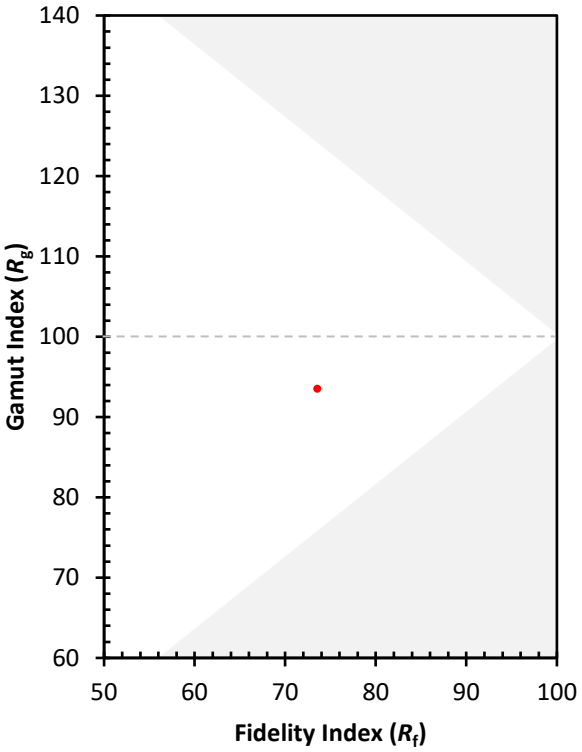
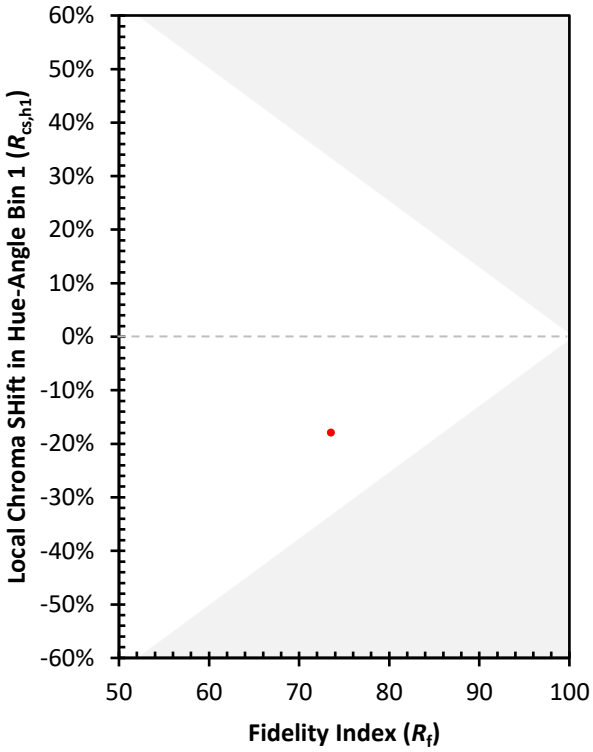
Measure Comparisons





(END OF REPORT)