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: P972423

Luminaire Tested: **GKO-PB1D-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:	P972423
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	02/27/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GKO-PB1D-740-U-T1
Description:	GEKKO WALL PACK 3500LM 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:	3836 lumens
Efficiency:	N/A
Efficacy:	149.8 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

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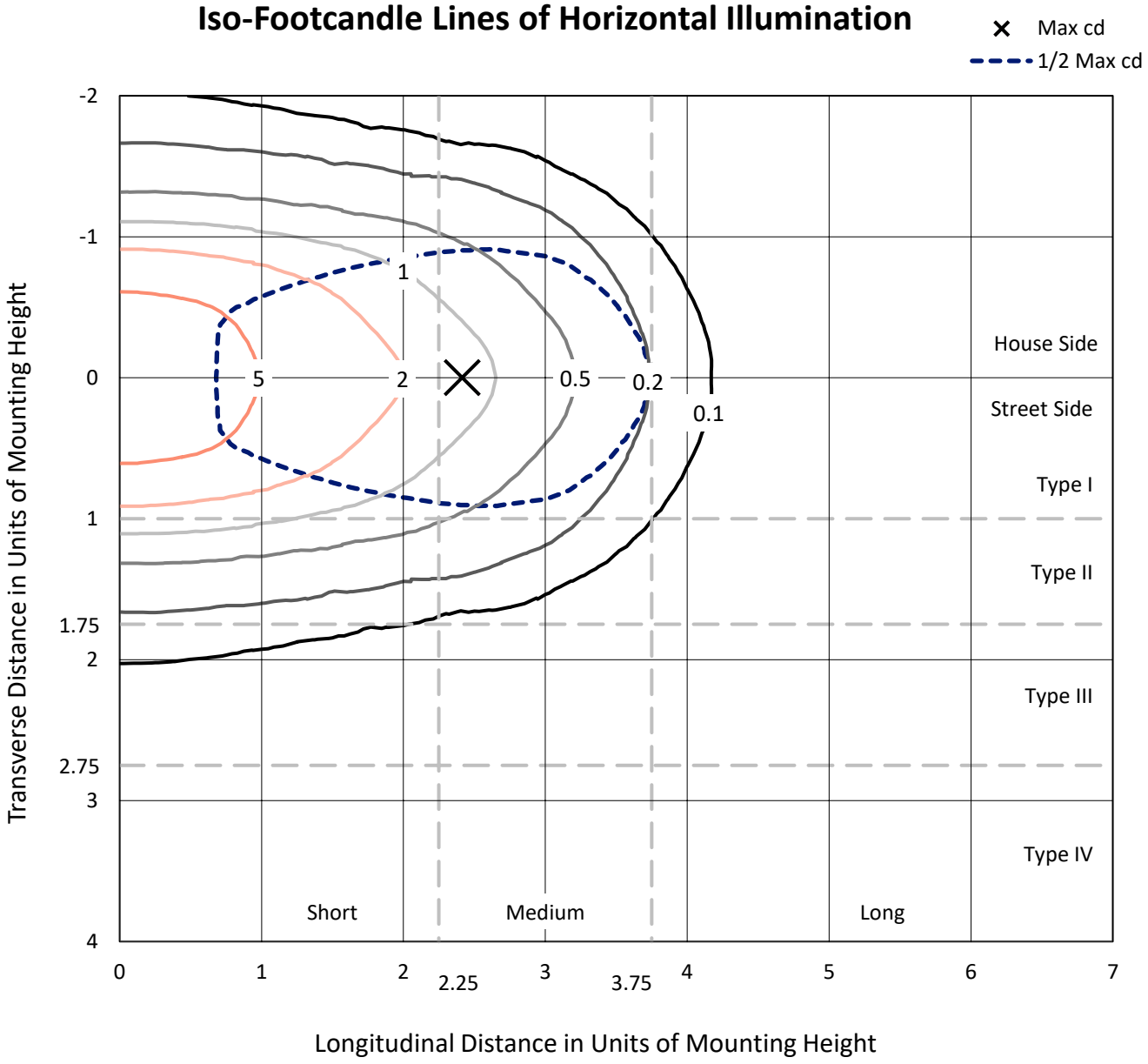
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
Type I - Short - N/A

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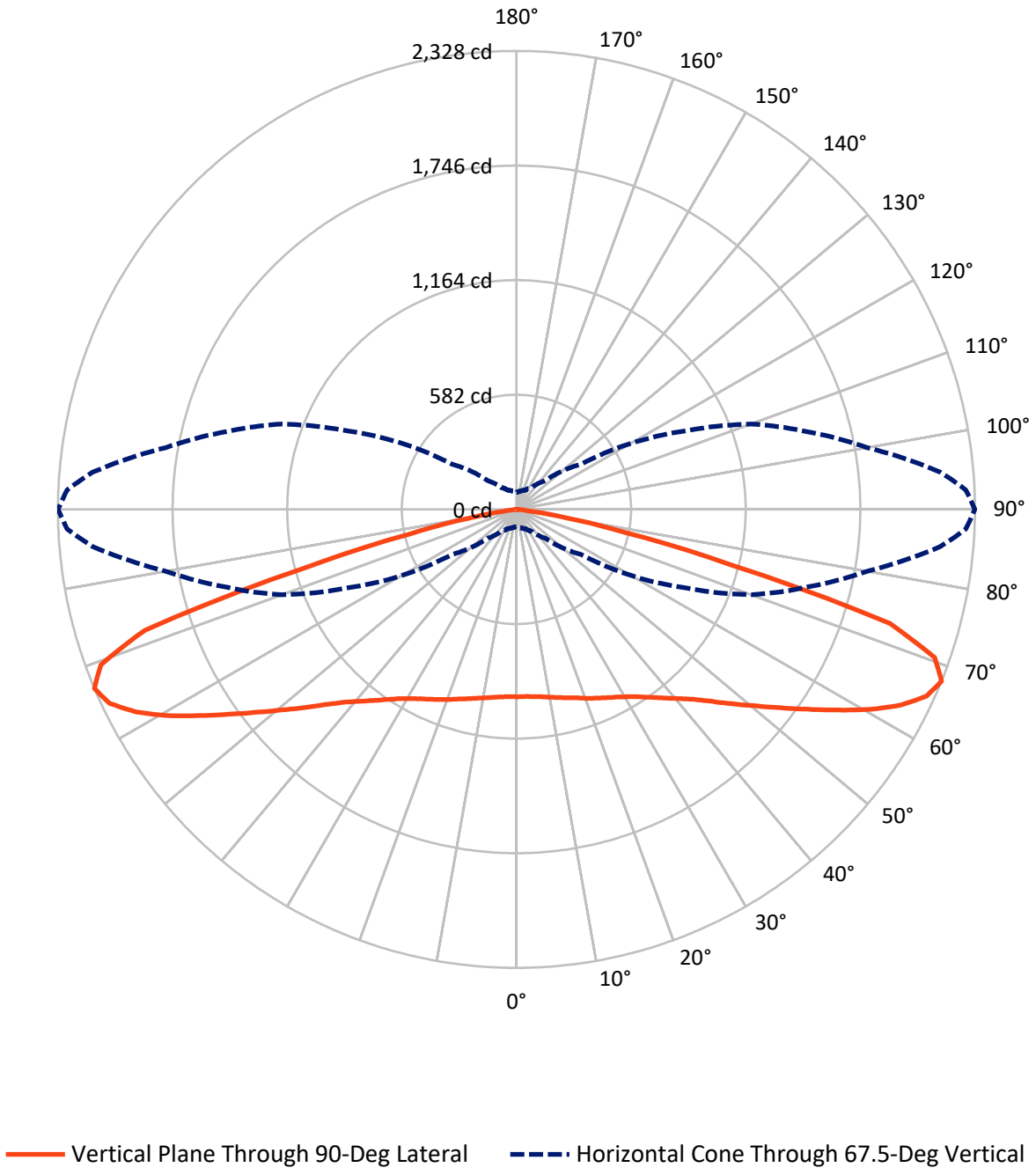
Luminous Intensity Polar Plot



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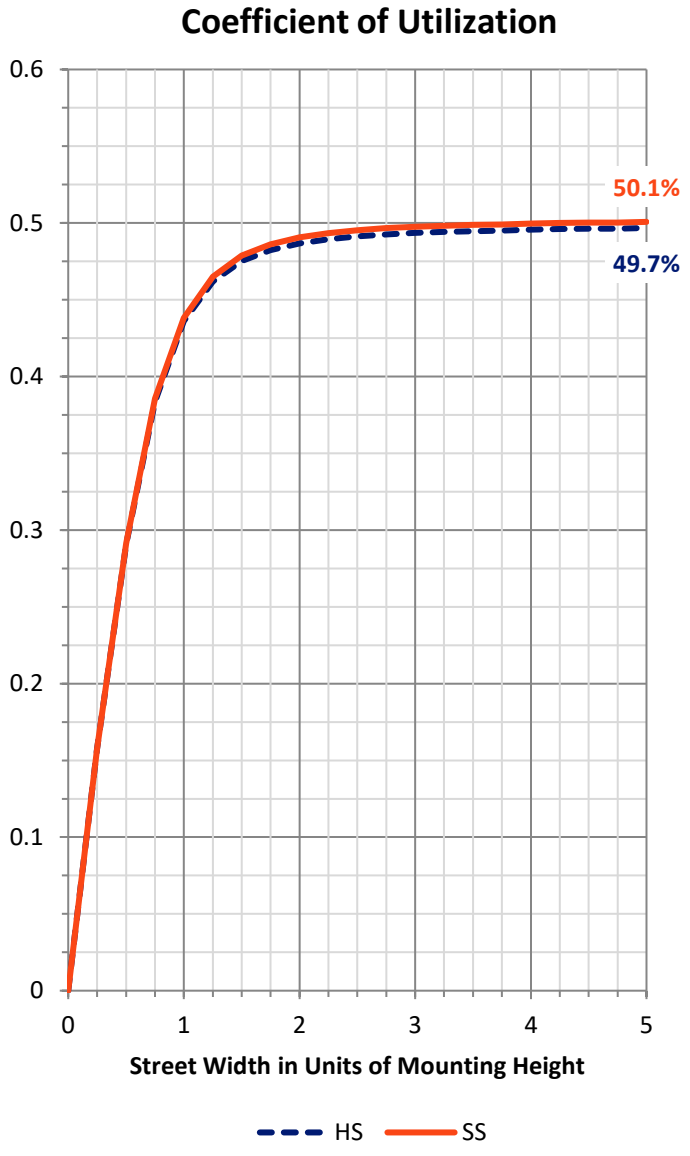
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1918.0	0.0	1918.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1918.0	0.0	1918.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3836.0	0.0	3836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	2.4
10°-20°	275.1	7.2
20°-30°	457.4	11.9
30°-40°	607.7	15.8
40°-50°	685.1	17.9
50°-60°	704.5	18.4
60°-70°	665.7	17.4
70°-80°	325.9	8.5
80°-90°	23.3	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°	3836.0	100.0
0°-180°	3836.0	100.0



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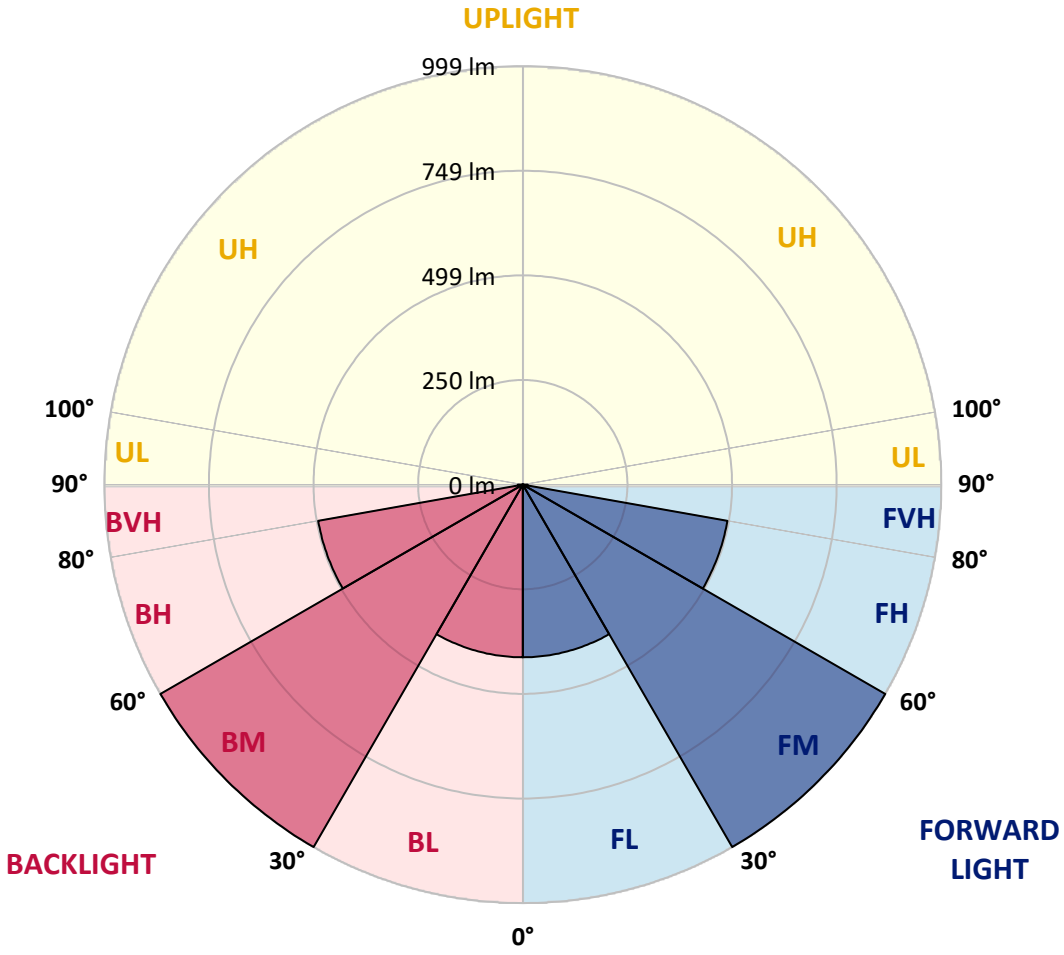
REPORT NUMBER: P972423
CATALOG NUMBER: GKO-PB1D-740-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	411.9	10.7			
FM	(30°-60°)	998.6	26.0			
FH	(60°-80°)	495.8	12.9			G0/660
FVH	(80°-90°)	11.7	0.3			G1/100
BL	(0°-30°)	411.9	10.7	B1/500		
BM	(30°-60°)	998.6	26.0	B1/1000		
BH	(60°-80°)	495.8	12.9	B1/500		G1/500
BVH	(80°-90°)	11.7	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



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REPORT NUMBER: P972423
CATALOG NUMBER: GKO-PB1D-740-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9
2.5°	952.6	954.0	951.2	951.2	952.6	953.3	953.3	954.0	952.6	952.6	951.9
5°	952.6	953.3	951.9	951.9	953.3	955.4	954.7	956.1	956.1	955.4	955.4
7.5°	951.9	953.3	951.9	952.6	954.7	958.9	958.9	958.9	960.4	961.8	961.8
10°	951.2	952.6	953.3	954.0	956.8	963.2	964.6	965.3	967.4	969.5	969.5
12.5°	947.6	949.0	951.2	954.0	958.9	967.4	970.3	972.4	975.9	978.0	979.4
15°	942.7	943.4	948.3	954.0	961.8	972.4	978.0	981.6	986.5	989.3	991.5
17.5°	935.6	936.3	944.1	952.6	963.9	978.7	987.9	993.6	998.5	1002.8	1005.6
20°	926.4	928.5	937.7	951.2	967.4	985.1	998.5	1008.4	1013.4	1017.6	1021.9
22.5°	915.1	917.2	928.5	947.6	971.0	993.6	1011.3	1024.0	1030.4	1036.0	1041.0
25°	898.1	900.9	914.4	939.1	972.4	1002.8	1025.4	1041.7	1047.3	1054.4	1058.7
27.5°	872.0	874.1	890.3	922.2	968.1	1012.7	1041.7	1060.8	1067.1	1074.9	1079.2
30°	830.9	835.2	855.0	894.6	957.5	1020.5	1060.8	1079.9	1087.6	1095.4	1101.1
32.5°	777.9	784.3	806.2	857.1	937.0	1023.3	1081.3	1103.2	1113.1	1121.6	1128.7
35°	712.1	718.5	744.7	809.0	904.5	1017.6	1101.8	1130.1	1142.1	1153.4	1161.9
37.5°	637.2	642.8	674.7	748.2	857.8	1000.0	1118.1	1159.8	1176.0	1190.9	1202.2
40°	561.5	567.9	602.5	681.0	801.2	966.0	1125.1	1192.3	1212.8	1231.9	1246.1
42.5°	479.5	487.2	526.1	609.6	735.5	919.3	1119.5	1224.1	1249.6	1275.8	1297.0
45°	406.6	408.0	450.5	531.1	663.3	859.2	1099.7	1254.5	1289.2	1326.0	1356.4
47.5°	336.6	339.4	376.2	456.1	588.4	791.3	1063.6	1278.6	1333.7	1381.1	1425.7
50°	274.4	277.9	311.2	382.6	513.4	717.1	1014.8	1292.7	1371.9	1436.3	1498.5
52.5°	223.5	227.7	255.3	318.2	437.7	639.3	954.7	1294.8	1406.6	1491.4	1574.2
55°	186.0	188.8	210.0	260.2	364.9	558.7	886.1	1284.2	1429.2	1540.9	1651.3
57.5°	157.0	159.8	174.7	214.3	299.1	475.9	802.7	1259.5	1441.2	1584.1	1729.1
60°	136.5	138.6	149.2	177.5	246.1	398.1	712.8	1215.6	1437.7	1611.0	1793.4
62.5°	121.6	122.3	131.5	151.3	203.0	324.6	611.7	1149.9	1408.7	1614.5	1837.3
65°	108.2	108.9	114.6	128.7	166.9	260.9	506.3	1059.4	1353.5	1589.7	1843.6
67.5°	*87.7*	*89.1*	*97.6*	*108.2*	*137.2*	*206.5*	*398.9*	*940.6*	*1267.3*	*1525.4*	*1807.6*
70°	70.0	70.7	79.2	91.2	111.7	162.7	306.2	780.7	1132.2	1420.7	1714.2
72.5°	52.3	53.7	61.5	73.5	91.2	125.9	221.3	590.5	905.2	1198.0	1492.9
75°	41.7	42.4	45.3	56.6	70.7	95.5	149.2	357.8	545.2	741.1	915.1
77.5°	35.4	36.1	36.1	43.8	52.3	64.4	79.2	142.1	230.5	328.1	434.9
80°	29.0	30.4	27.6	32.5	37.5	37.5	36.8	67.9	108.9	154.2	202.3
82.5°	21.2	22.6	21.2	22.6	22.6	20.5	19.1	25.5	34.7	47.4	51.6
85°	14.9	15.6	17.0	15.6	14.9	12.0	9.2	7.1	4.2	5.0	7.1
87.5°	9.9	12.0	14.1	13.4	11.3	9.2	6.4	4.2	2.1	2.8	2.8
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°	951.9	951.9	*951.9*
2.5°	952.6	951.9	*951.2*
5°	956.1	955.4	*954.7*
7.5°	961.1	961.1	*961.1*
10°	968.8	970.3	*970.3*
12.5°	978.7	980.2	*980.2*
15°	990.8	991.5	*992.9*
17.5°	1005.6	1006.3	*1006.3*
20°	1023.3	1022.6	*1024.0*
22.5°	1041.0	1041.0	*1041.0*
25°	1059.4	1059.4	*1059.4*
27.5°	1080.6	1080.6	*1079.2*
30°	1103.9	1103.9	*1103.9*
32.5°	1132.2	1132.9	*1133.6*
35°	1168.3	1169.7	*1171.8*
37.5°	1209.3	1212.8	*1214.9*
40°	1258.1	1259.5	*1263.0*
42.5°	1312.5	1316.8	*1317.5*
45°	1380.4	1387.5	*1390.3*
47.5°	1460.3	1470.2	*1475.2*
50°	1549.4	1560.7	*1567.8*
52.5°	1646.3	1664.7	*1673.2*
55°	1749.6	1781.4	*1790.6*
57.5°	1866.3	1909.4	*1922.1*
60°	1980.8	2041.6	*2062.1*
62.5°	2078.4	2164.0	*2189.4*
65°	2147.0	2250.3	*2287.7*
67.5°	*2161.1*	*2283.5*	*2328.0*
70°	2076.3	2201.5	*2253.1*
72.5°	1805.4	1918.6	*1982.9*
75°	1066.4	1147.8	*1128.0*
77.5°	535.3	558.7	*562.2*
80°	234.8	248.9	*254.6*
82.5°	58.0	59.4	*67.2*
85°	7.8	9.2	*8.5*
87.5°	2.8	2.8	*3.5*
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

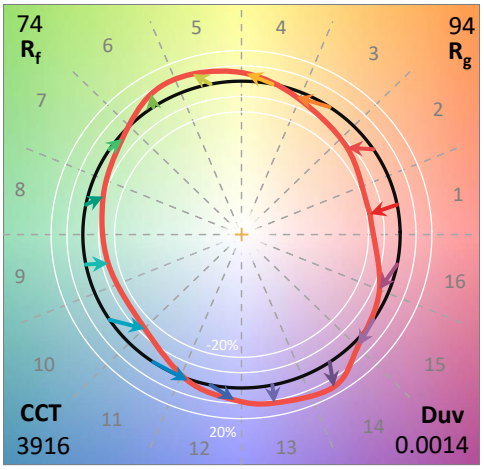
Test Information

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

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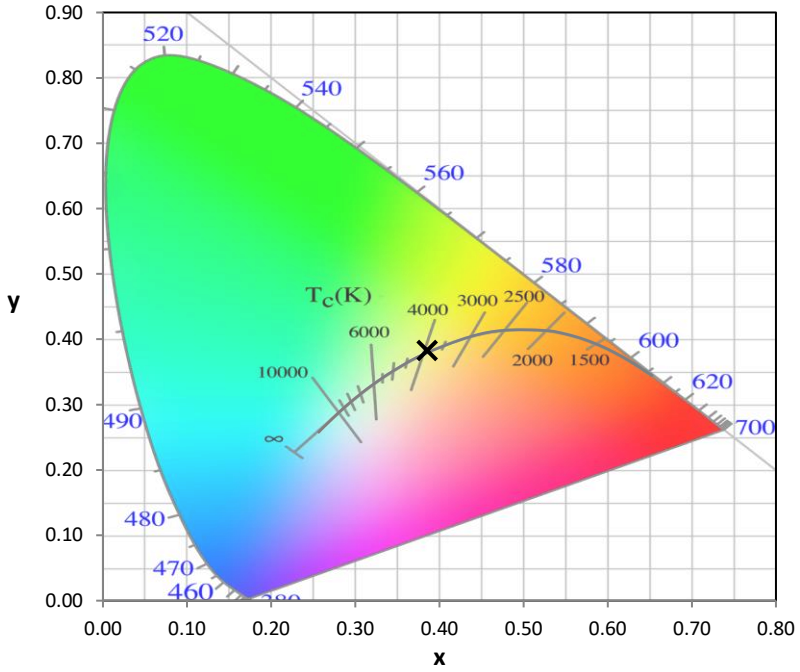
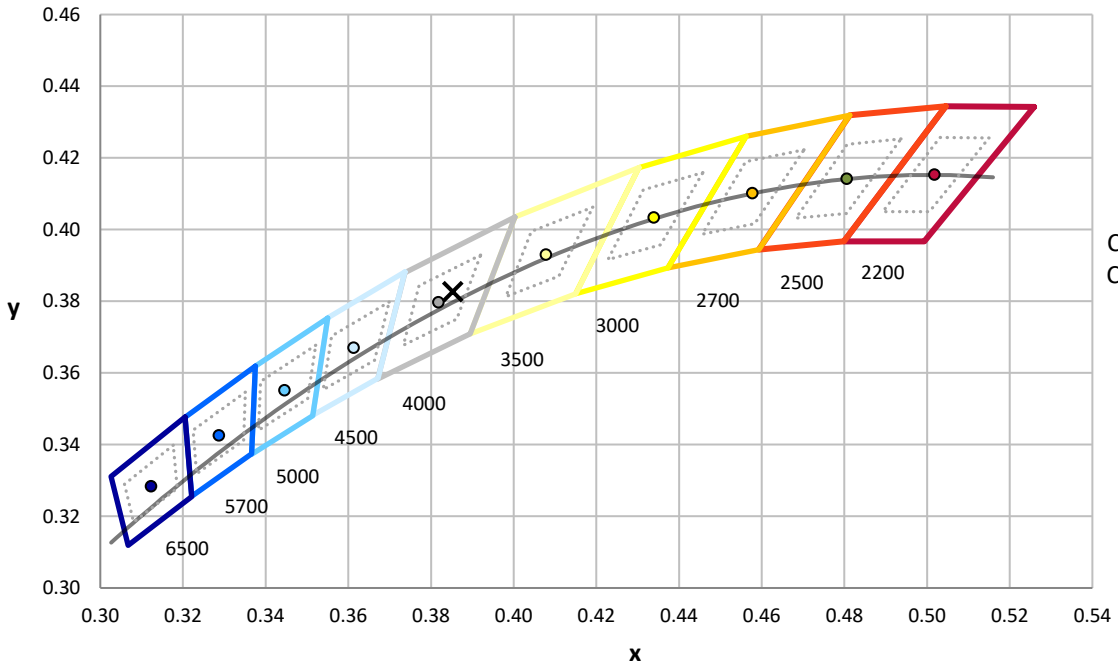
CIE 1931 Chromaticity Diagram



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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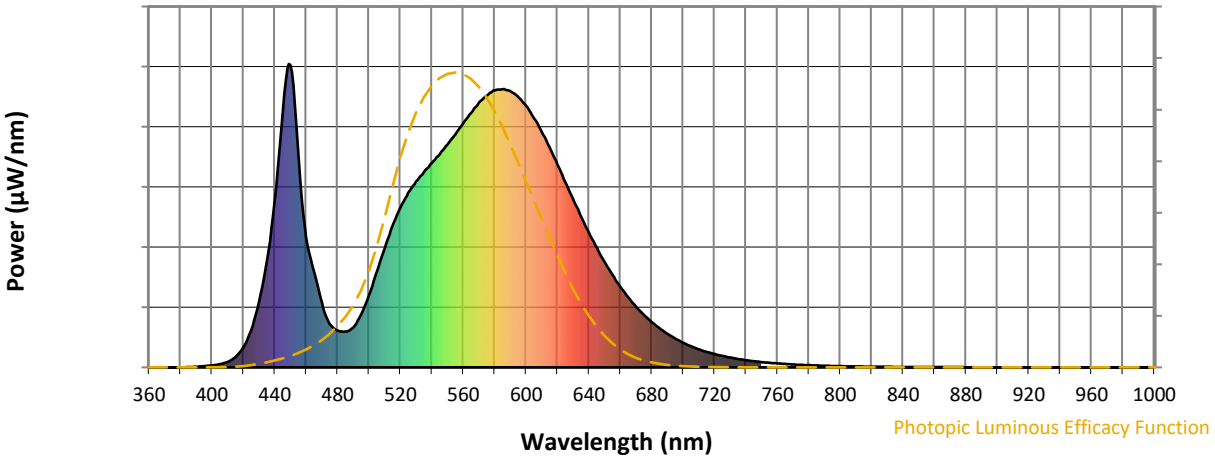
Photopic Flux vs. Wavelength

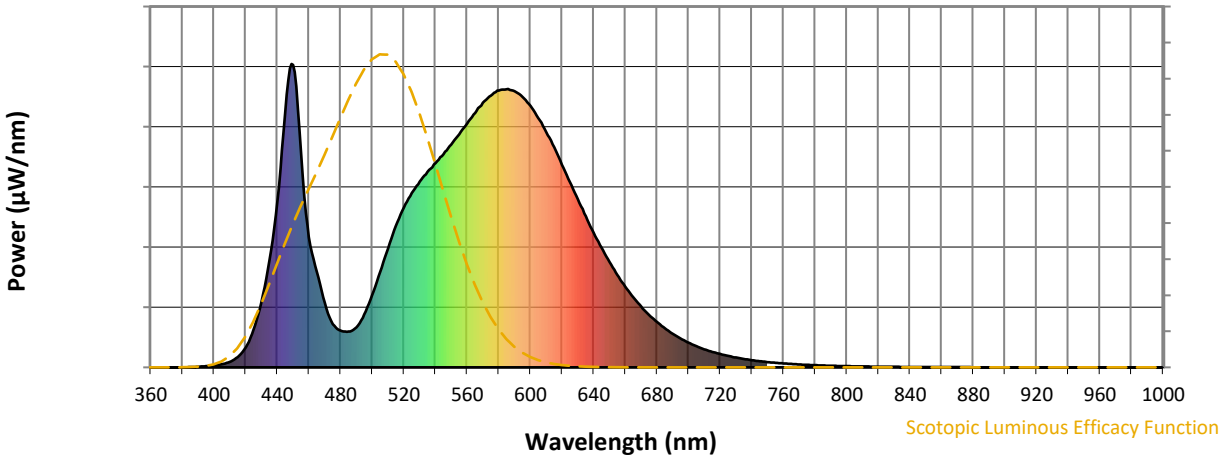


Photopic Lumens: NR

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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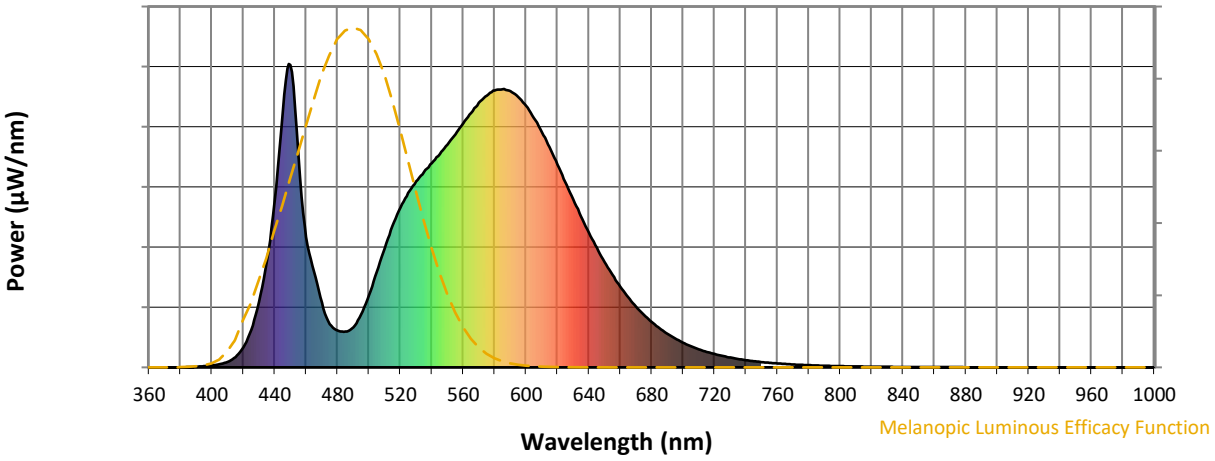
Melanopic Flux vs. Wavelength



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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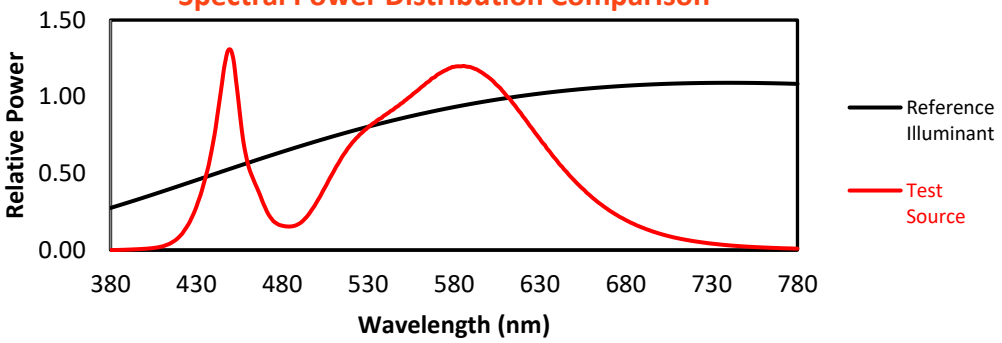
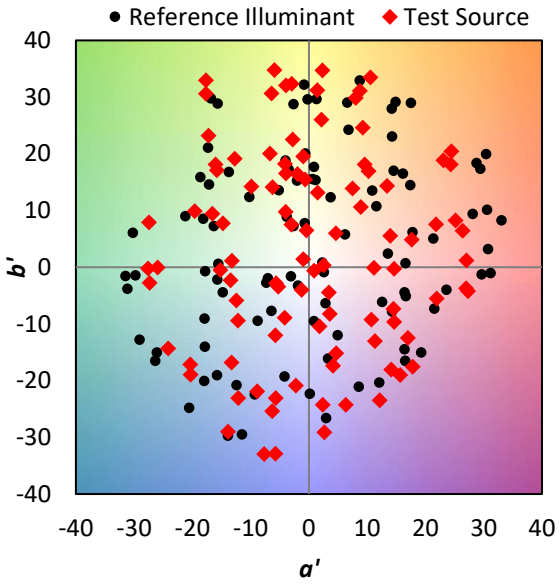
Summary

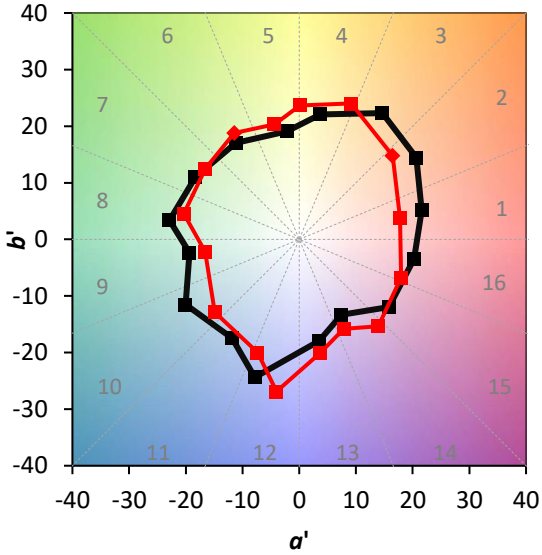
R_f = 73.5
R_g = 93.5
CIE R_a = 71.0
R_9 = -37.9

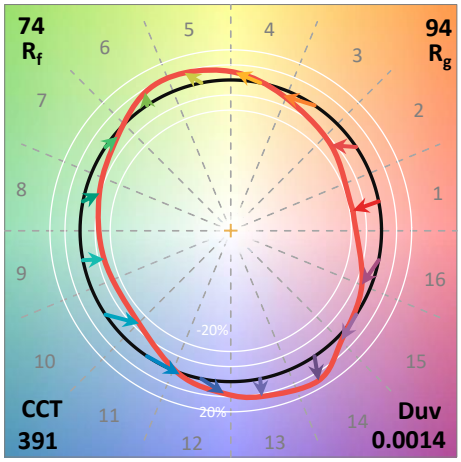
Spectral Power Distribution Comparison

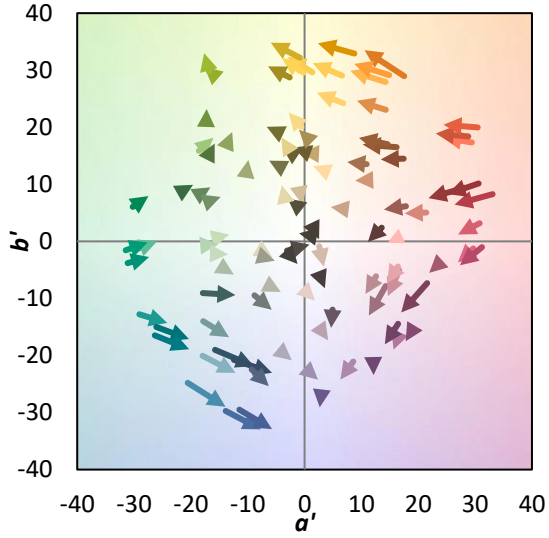


Color Vector Graphics









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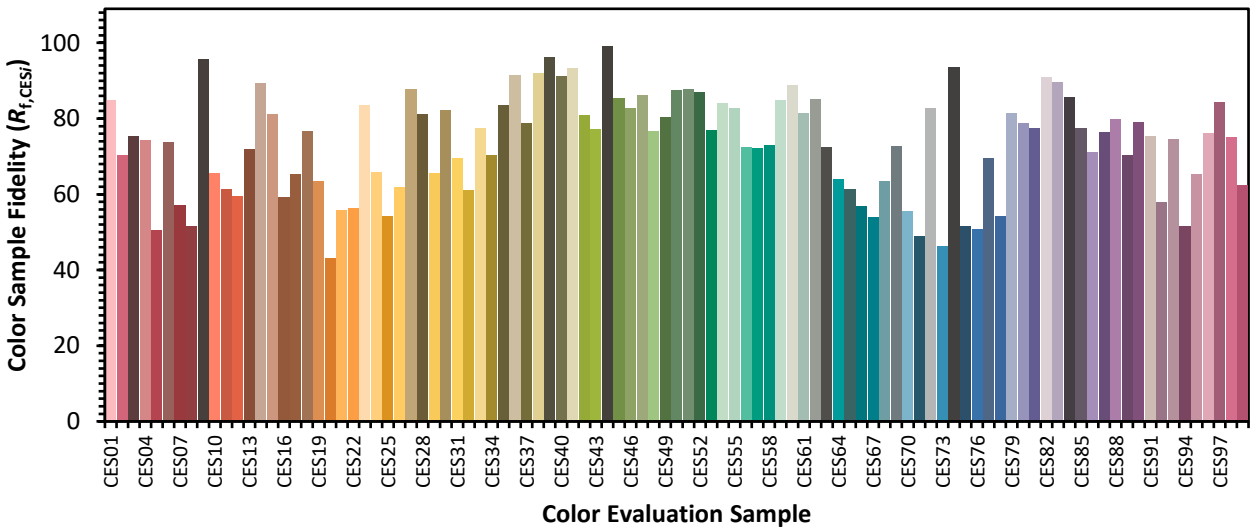
Individual Sample Fidelity Index ($R_{f,i}$)

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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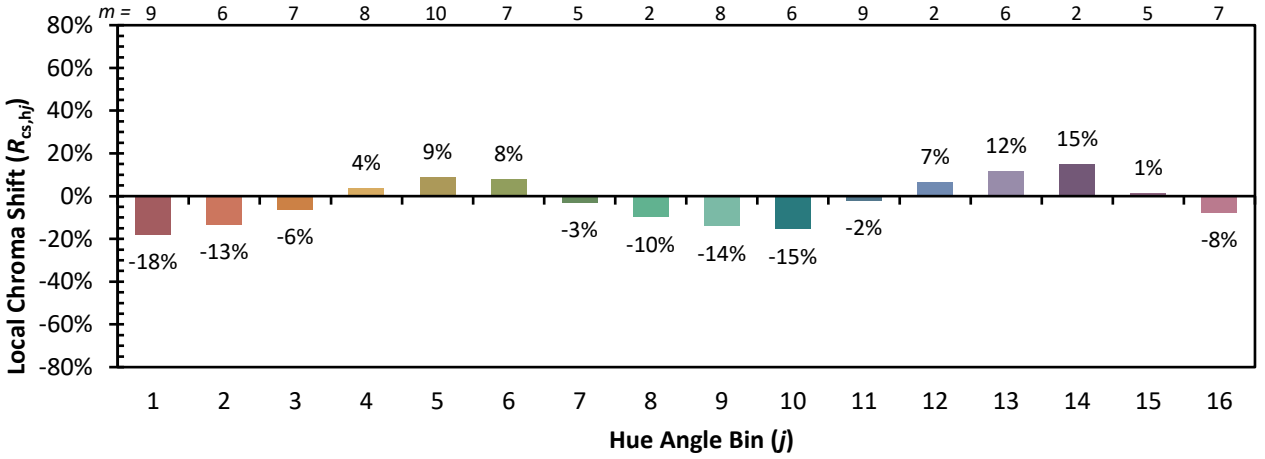
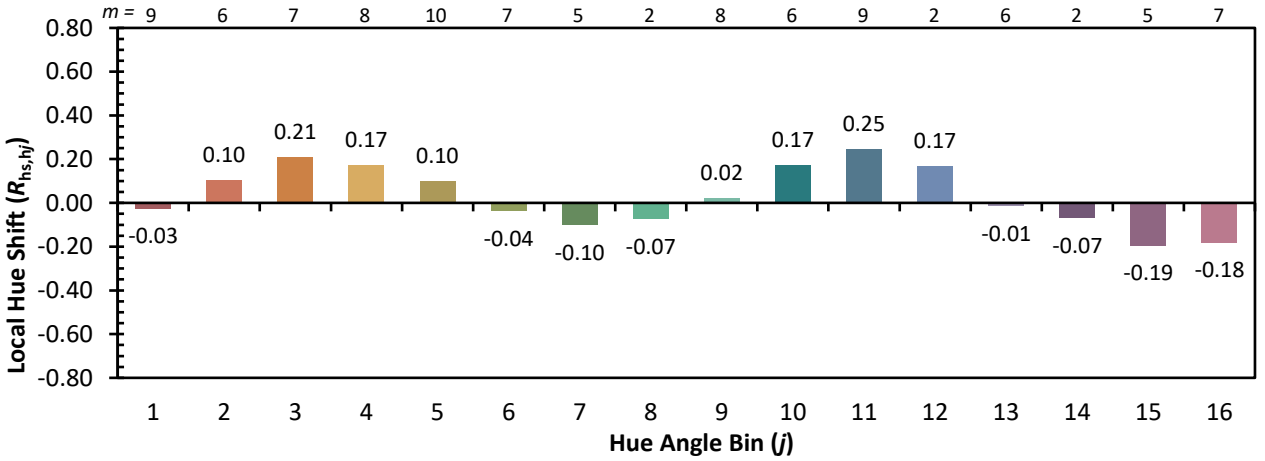
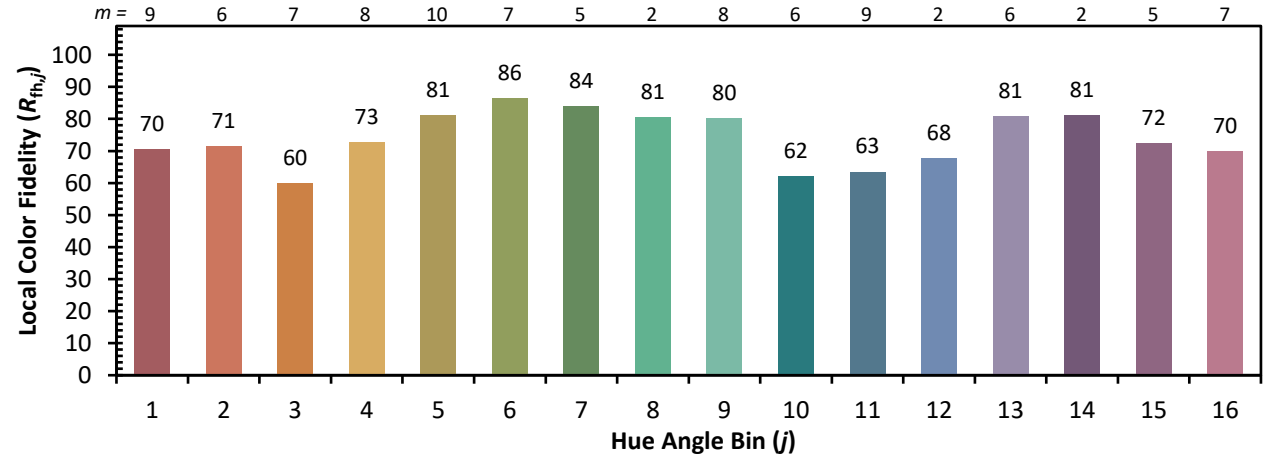
Color Rendition by Hue-Angle Bin







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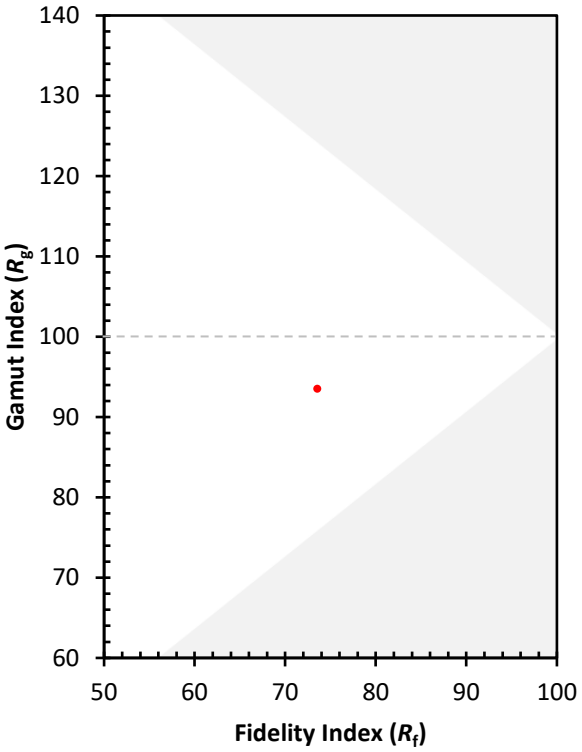
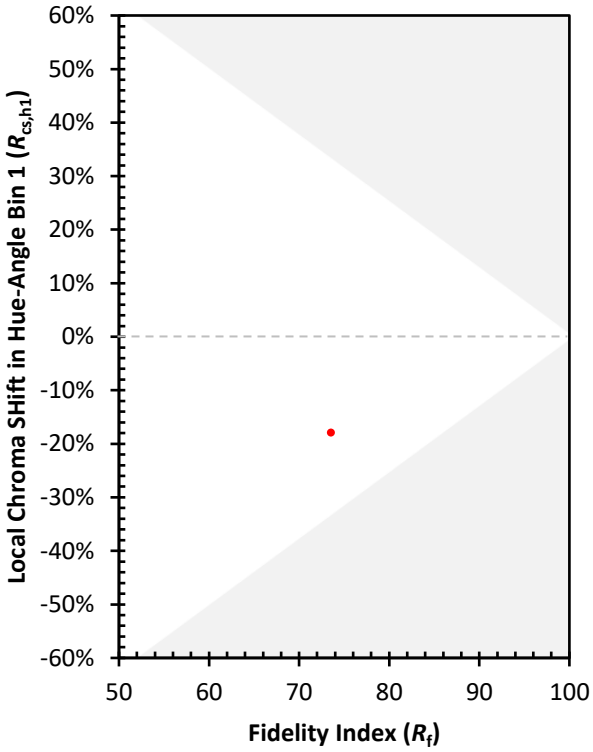
Measure Comparisons





(END OF REPORT)