

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: P972431

Luminaire Tested: **GKO-PB2A-740-U-T1**

Issue Date: 02/27/2025

Test Information

Test Method: LM-79-08
Report Number: P972431
Test Lab: INNOVATION CENTER(G1)
Issue Date: 02/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GKO-PB2A-740-U-T1
Description: GEKKO WALL PACK 4000LM PACKAGE 70CRI 4000K FIXTURE w/ TYPE I DISTRIBUTION OPTIC
Light Source: (20) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4407.2 lumens
Efficiency: N/A
Efficacy: 166.3 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 (A_{in}): 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

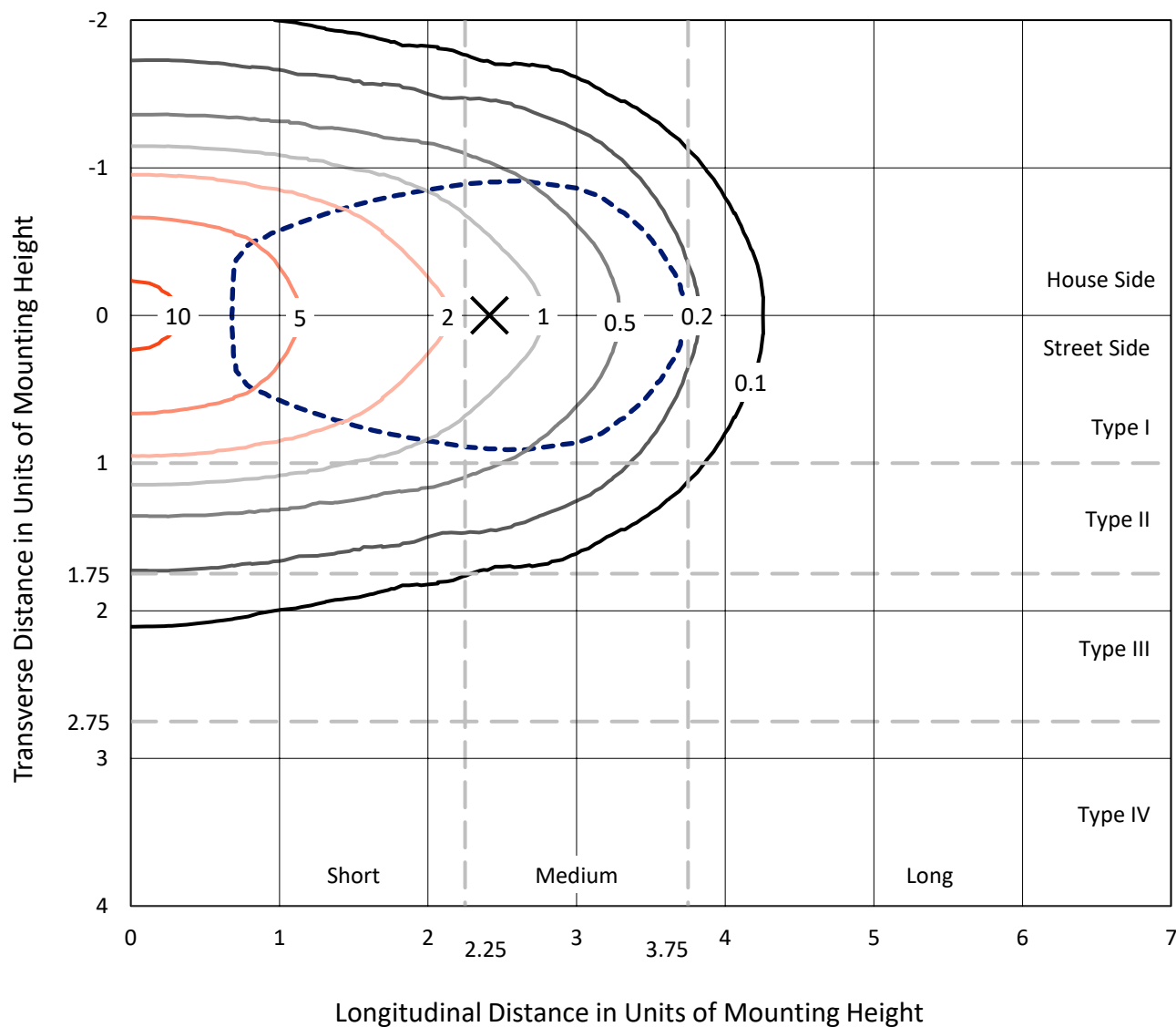
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CATALOG NUMBER: GKO-PB2A-740-U-T1

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

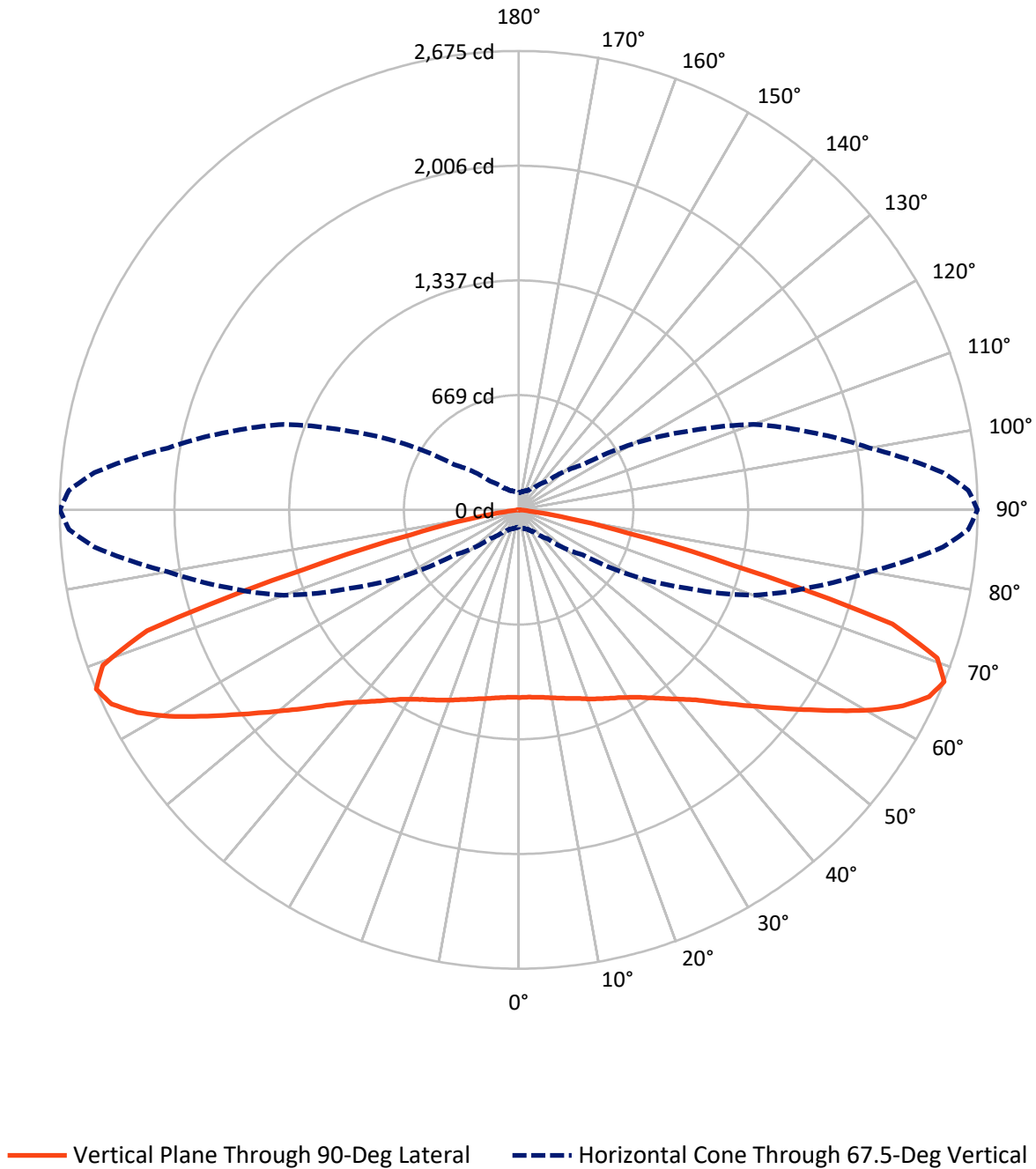


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type I - Short - N/A

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CATALOG NUMBER: GKO-PB2A-740-U-T1

Luminous Intensity Polar Plot



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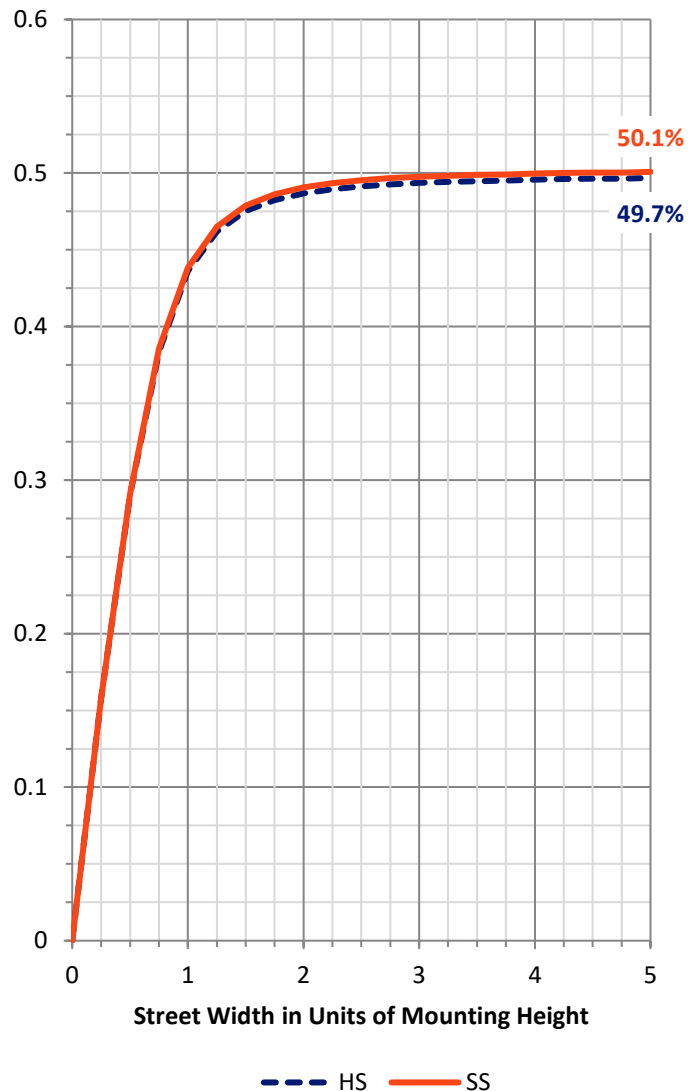
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2203.6	0.0	2203.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2203.6	0.0	2203.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	4407.2	0.0	4407.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	2.4
10°-20°	316.1	7.2
20°-30°	525.6	11.9
30°-40°	698.2	15.8
40°-50°	787.1	17.9
50°-60°	809.4	18.4
60°-70°	764.9	17.4
70°-80°	374.4	8.5
80°-90°	26.8	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°	4407.2	100.0
0°-180°	4407.2	100.0

Coefficient of Utilization



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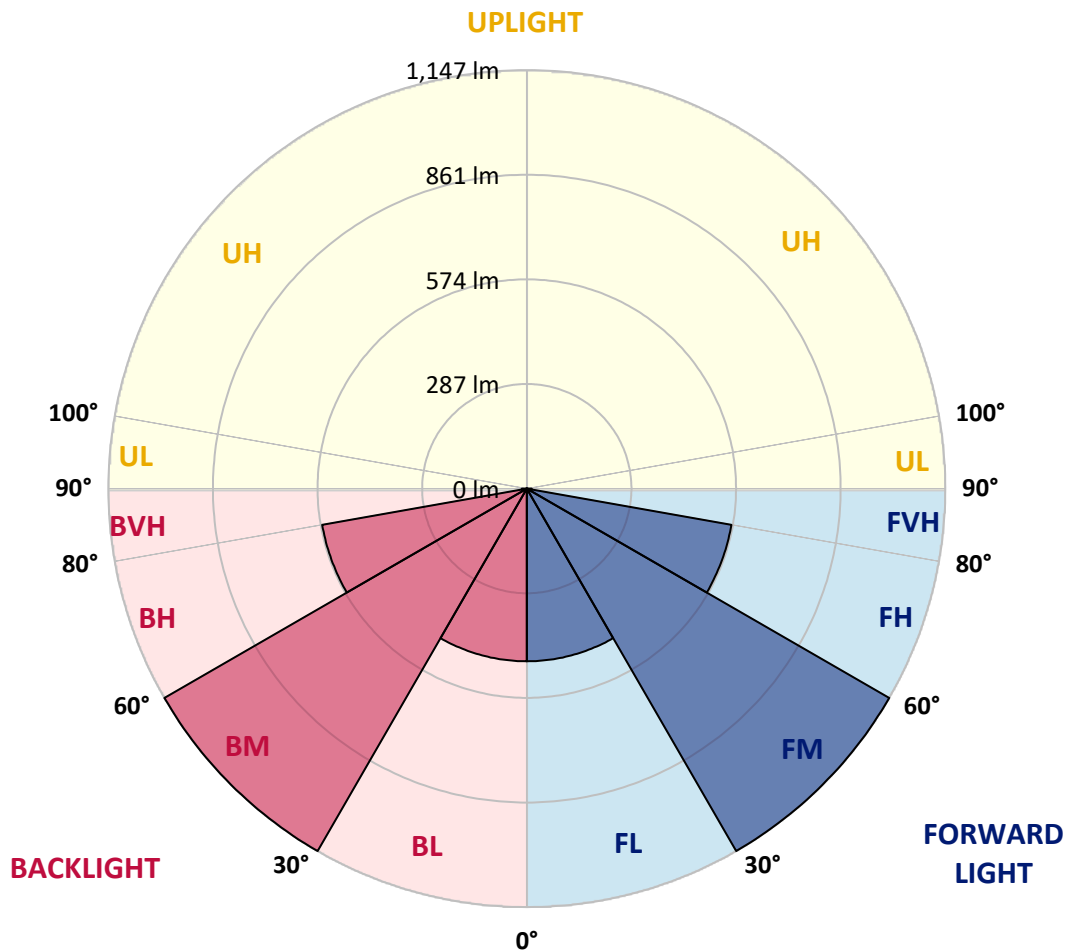
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	473.3	10.7			
FM	(30°-60°)	1147.3	26.0			
FH	(60°-80°)	569.6	12.9			G0/660
FVH	(80°-90°)	13.4	0.3			G1/100
BL	(0°-30°)	473.3	10.7	B1/500		
BM	(30°-60°)	1147.3	26.0	B2/2500		
BH	(60°-80°)	569.6	12.9	B2/1000		G2/1000
BVH	(80°-90°)	13.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	1093.6	1093.6	1093.6	1093.6	1093.6	1093.6	1093.6	1093.6	1093.6	1093.6	1093.6
2.5°	1094.4	1096.1	1092.8	1092.8	1094.4	1095.2	1095.2	1096.1	1094.4	1094.4	1093.6
5°	1094.4	1095.2	1093.6	1093.6	1095.2	1097.7	1096.9	1098.5	1098.5	1097.7	1097.7
7.5°	1093.6	1095.2	1093.6	1094.4	1096.9	1101.7	1101.7	1101.7	1103.4	1105.0	1105.0
10°	1092.8	1094.4	1095.2	1096.1	1099.3	1106.6	1108.2	1109.1	1111.5	1113.9	1113.9
12.5°	1088.7	1090.4	1092.8	1096.1	1101.7	1111.5	1114.7	1117.2	1121.2	1123.7	1125.3
15°	1083.1	1083.9	1089.6	1096.1	1105.0	1117.2	1123.7	1127.7	1133.4	1136.7	1139.1
17.5°	1074.9	1075.7	1084.7	1094.4	1107.4	1124.5	1135.1	1141.6	1147.2	1152.1	1155.4
20°	1064.4	1066.8	1077.4	1092.8	1111.5	1131.8	1147.2	1158.6	1164.3	1169.2	1174.1
22.5°	1051.4	1053.8	1066.8	1088.7	1115.6	1141.6	1161.9	1176.5	1183.8	1190.3	1196.0
25°	1031.9	1035.1	1050.6	1079.0	1117.2	1152.1	1178.1	1196.8	1203.3	1211.4	1216.3
27.5°	1001.8	1004.2	1022.9	1059.5	1112.3	1163.5	1196.8	1218.7	1226.1	1235.0	1239.9
30°	954.7	959.6	982.3	1027.8	1100.1	1172.4	1218.7	1240.7	1249.6	1258.6	1265.1
32.5°	893.7	901.1	926.2	984.7	1076.6	1175.7	1242.3	1267.5	1278.9	1288.6	1296.7
35°	818.2	825.5	855.6	929.5	1039.2	1169.2	1265.9	1298.4	1312.2	1325.2	1334.9
37.5°	732.1	738.6	775.1	859.6	985.6	1148.9	1284.6	1332.5	1351.2	1368.2	1381.2
40°	645.1	652.4	692.2	782.4	920.6	1109.9	1292.7	1369.9	1393.4	1415.4	1431.6
42.5°	550.9	559.8	604.5	700.4	845.0	1056.2	1286.2	1406.4	1435.7	1465.7	1490.1
45°	467.2	468.8	517.6	610.2	762.1	987.2	1263.4	1441.4	1481.2	1523.4	1558.4
47.5°	386.7	390.0	432.2	524.1	676.0	909.2	1222.0	1469.0	1532.4	1586.8	1638.0
50°	315.2	319.3	357.5	439.6	589.9	823.9	1165.9	1485.2	1576.2	1650.2	1721.7
52.5°	256.7	261.6	293.3	365.6	502.9	734.5	1096.9	1487.7	1616.1	1713.6	1808.6
55°	213.7	216.9	241.3	299.0	419.2	641.9	1018.1	1475.5	1642.1	1770.4	1897.2
57.5°	180.4	183.6	200.7	246.2	343.7	546.8	922.2	1447.1	1655.9	1820.0	1986.6
60°	156.8	159.2	171.4	203.9	282.7	457.4	819.0	1396.7	1651.8	1850.9	2060.5
62.5°	139.7	140.6	151.1	173.9	233.2	372.9	702.8	1321.1	1618.5	1854.9	2110.9
65°	124.3	125.1	131.6	147.9	191.7	299.8	581.7	1217.1	1555.1	1826.5	2118.2
67.5°	100.7	102.4	112.1	124.3	157.6	237.2	458.2	1080.6	1456.0	1752.6	2076.7
70°	80.4	81.2	91.0	104.8	128.4	186.9	351.8	897.0	1300.8	1632.3	1969.5
72.5°	60.1	61.7	70.7	84.5	104.8	144.6	254.3	678.4	1040.0	1376.4	1715.2
75°	47.9	48.7	52.0	65.0	81.2	109.7	171.4	411.1	626.4	851.5	1051.4
77.5°	40.6	41.4	41.4	50.4	60.1	73.9	91.0	163.3	264.9	377.0	499.7
80°	33.3	34.9	31.7	37.4	43.1	43.1	42.2	78.0	125.1	177.1	232.4
82.5°	24.4	26.0	24.4	26.0	26.0	23.6	21.9	29.2	39.8	54.4	59.3
85°	17.1	17.9	19.5	17.9	17.1	13.8	10.6	8.1	4.9	5.7	8.1
87.5°	11.4	13.8	16.2	15.4	13.0	10.6	7.3	4.9	2.4	3.2	3.2
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°	1093.6	1093.6	1093.6
2.5°	1094.4	1093.6	1092.8
5°	1098.5	1097.7	1096.9
7.5°	1104.2	1104.2	1104.2
10°	1113.1	1114.7	1114.7
12.5°	1124.5	1126.1	1126.1
15°	1138.3	1139.1	1140.7
17.5°	1155.4	1156.2	1156.2
20°	1175.7	1174.9	1176.5
22.5°	1196.0	1196.0	1196.0
25°	1217.1	1217.1	1217.1
27.5°	1241.5	1241.5	1239.9
30°	1268.3	1268.3	1268.3
32.5°	1300.8	1301.6	1302.4
35°	1342.2	1343.9	1346.3
37.5°	1389.4	1393.4	1395.9
40°	1445.4	1447.1	1451.1
42.5°	1508.0	1512.9	1513.7
45°	1586.0	1594.1	1597.4
47.5°	1677.8	1689.2	1694.9
50°	1780.2	1793.2	1801.3
52.5°	1891.5	1912.6	1922.4
55°	2010.1	2046.7	2057.2
57.5°	2144.2	2193.7	2208.4
60°	2275.8	2345.7	2369.2
62.5°	2387.9	2486.2	2515.5
65°	2466.7	2585.4	2628.4
67.5°	2483.0	2623.6	2674.7
70°	2385.5	2529.3	2588.6
72.5°	2074.3	2204.3	2278.2
75°	1225.2	1318.7	1295.9
77.5°	615.1	641.9	645.9
80°	269.7	286.0	292.5
82.5°	66.6	68.2	77.2
85°	8.9	10.6	9.7
87.5°	3.2	3.2	4.1
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: SP2-2501-321-1

Test Date: 04/09/2025

Luminaire Tested: GKO-PB1E-740-U-T4W

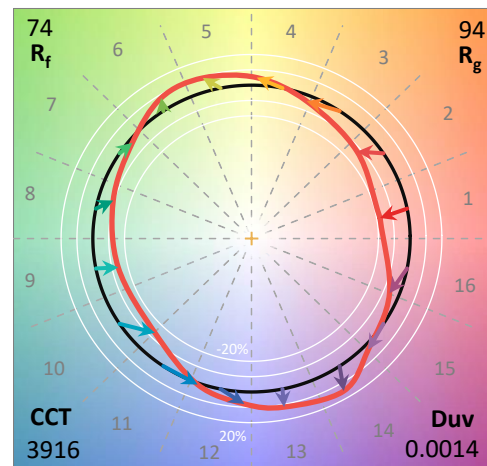
Data in this report applies to families of products including GKO-PB1E-740-U-T4W

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	CRI (Ra):	71.0		
CIE u':	0.2259	R1:	67.4	R9:	-37.9
CIE v':	0.5049	R2:	78.3	R10:	48.9
Duv:	0.0014	R3:	87.2	R11:	64.6
CIE x:	0.3853	R4:	69.5	R12:	40.9
CIE y:	0.3827	R5:	67.2	R13:	69.2
CIE z:	0.2321	R6:	69.3	R14:	92.7
Peak Wavelength (nm):	449	R7:	79.9	R15:	59.8
Dominant Wavelength (nm):	578	R8:	48.9		
Purity:	30.46652				
Rf:	73.5				
Rg:	93.5				



Test Conditions

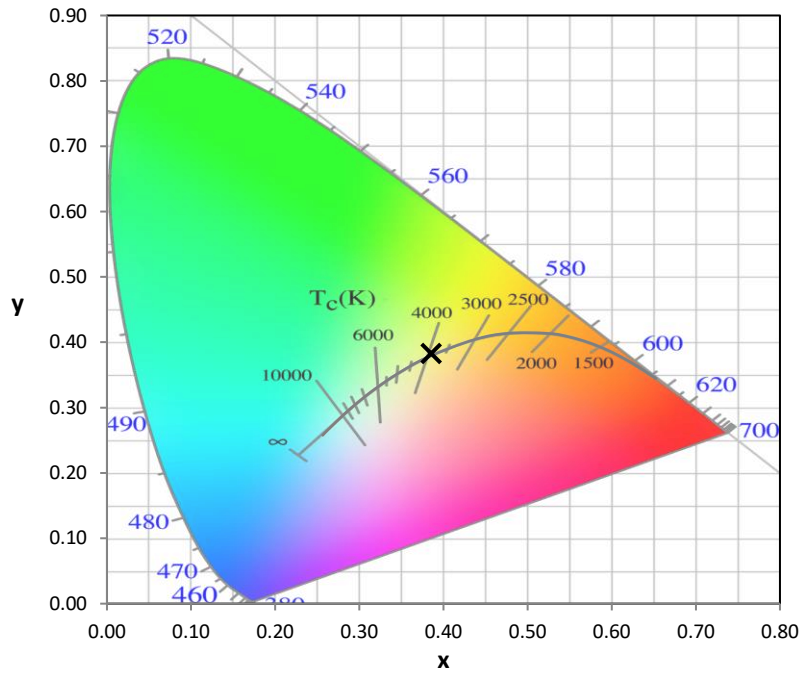
Stabilization Time: 33M
 Operation Time: 1H 33M
 Sphere Temperature (°C): 25.0

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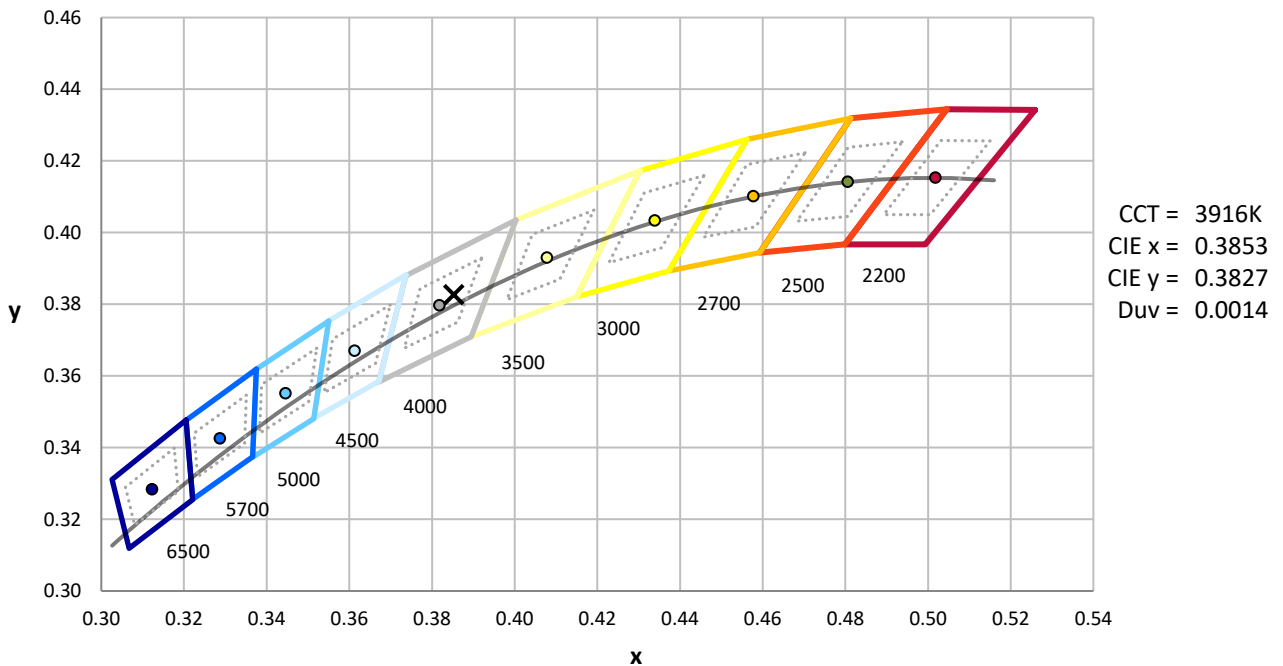
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN2187	1/6/2025	7/6/2025
Power Meter	INXT2011002	1/21/2025	1/21/2026
AC Power Source	IN0458	10/22/2024	10/22/2025
DC Power Source	IN0212	10/22/2024	10/22/2025
Sphere Thermometer	IN4036B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

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CIE 1931 Chromaticity Diagram



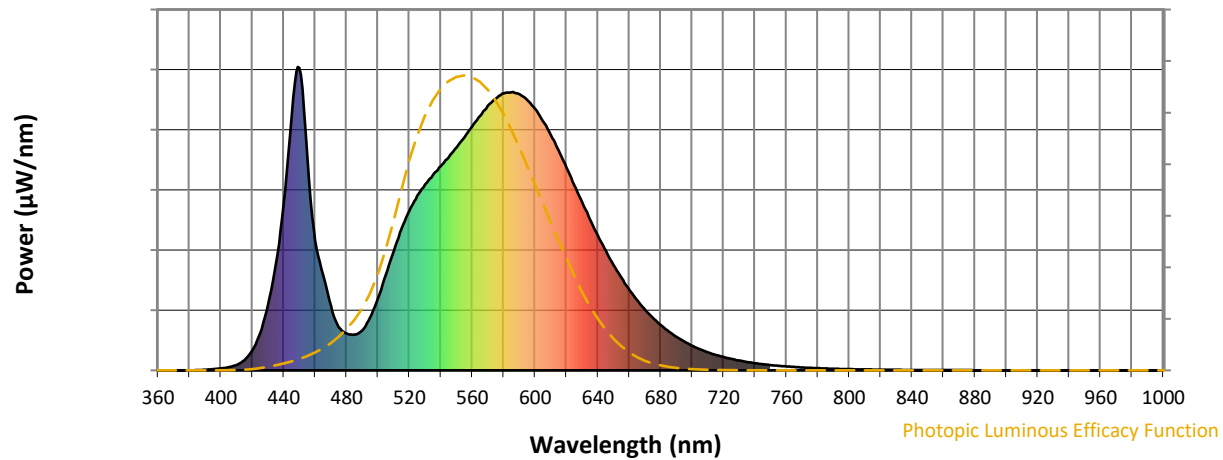
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

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Photopic Flux vs. Wavelength

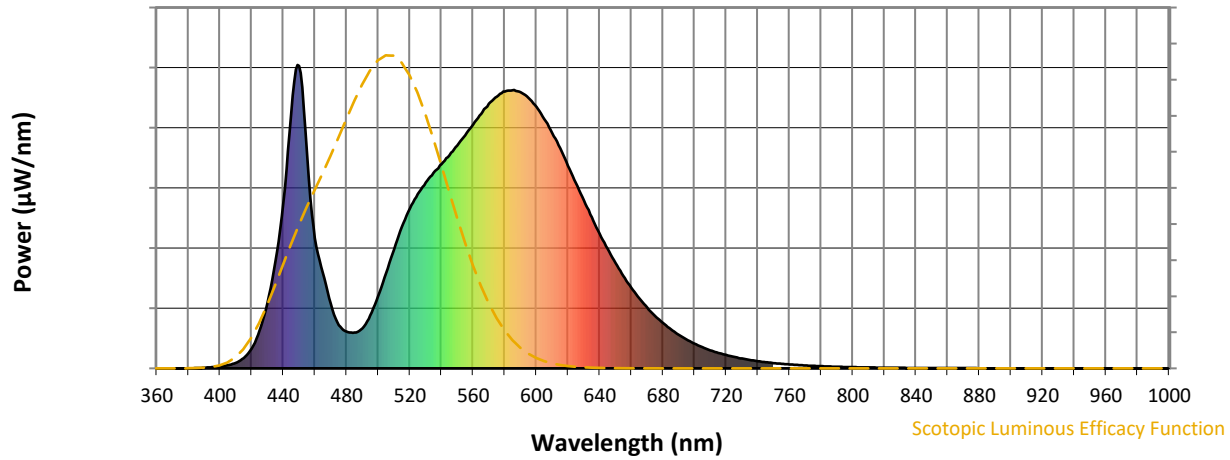


Photopic Lumens: NR

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	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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Scotopic Flux vs. Wavelength



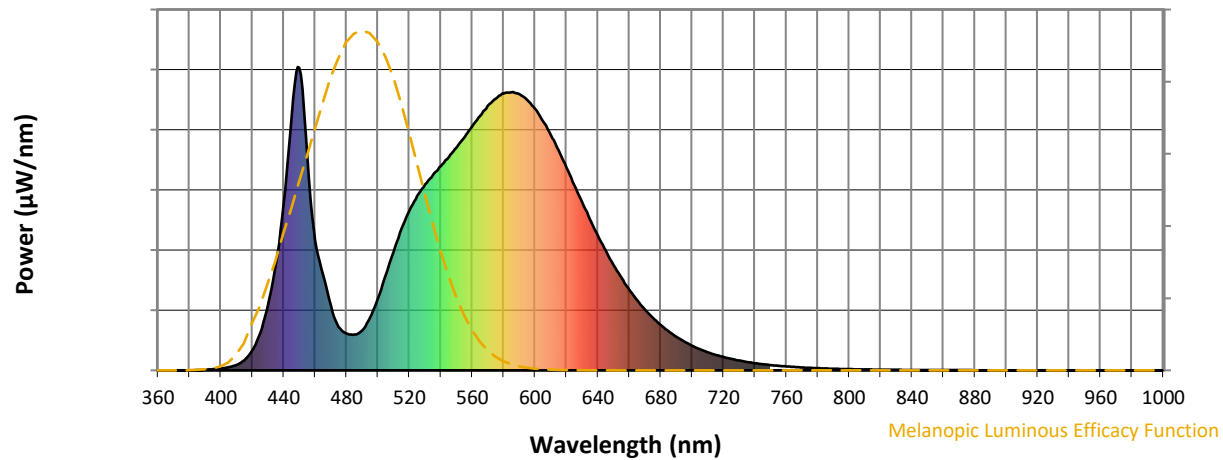
Scotopic Lumens: NR

S/P: 1.49

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	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

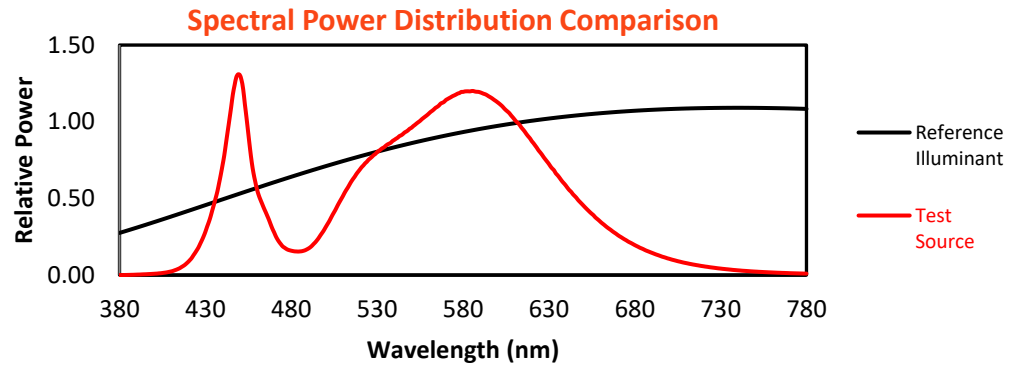
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	132	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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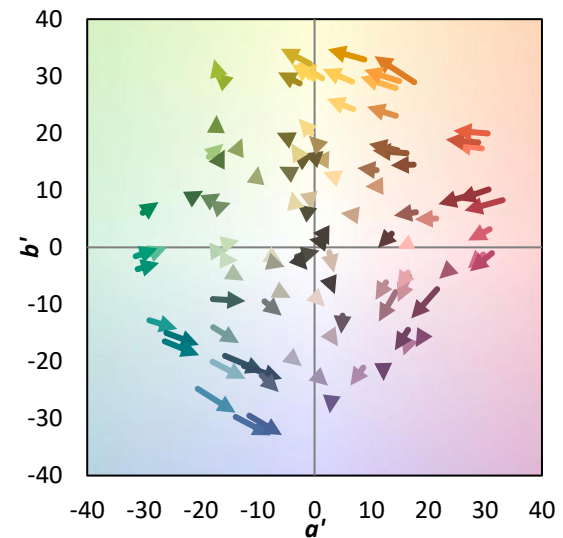
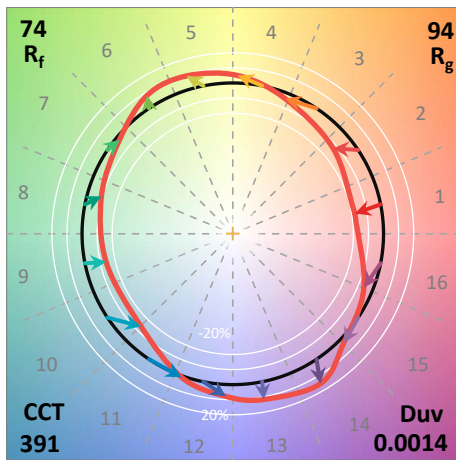
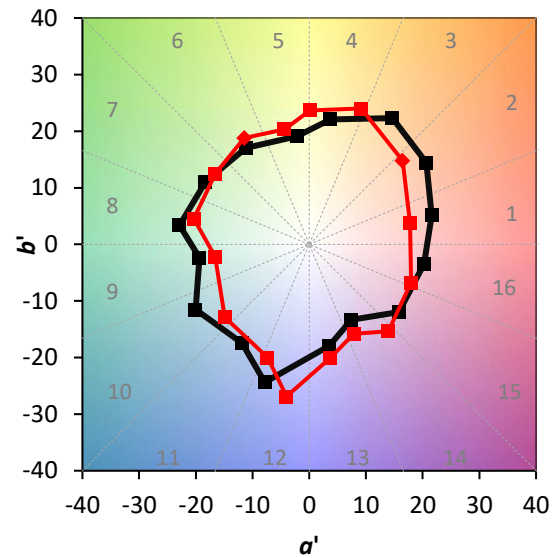
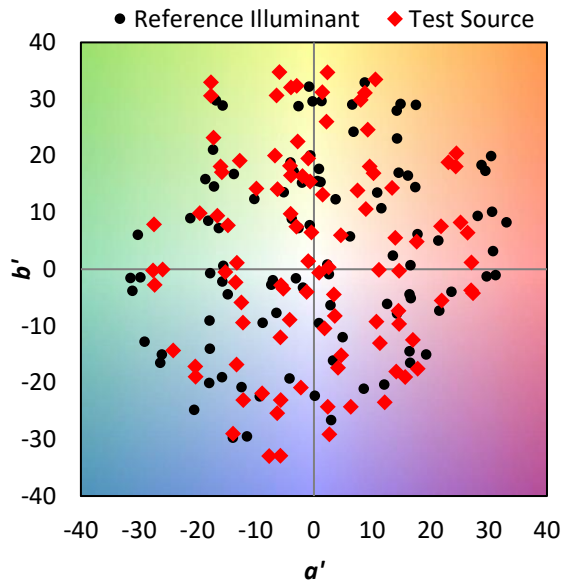
TM-30-18

Summary

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

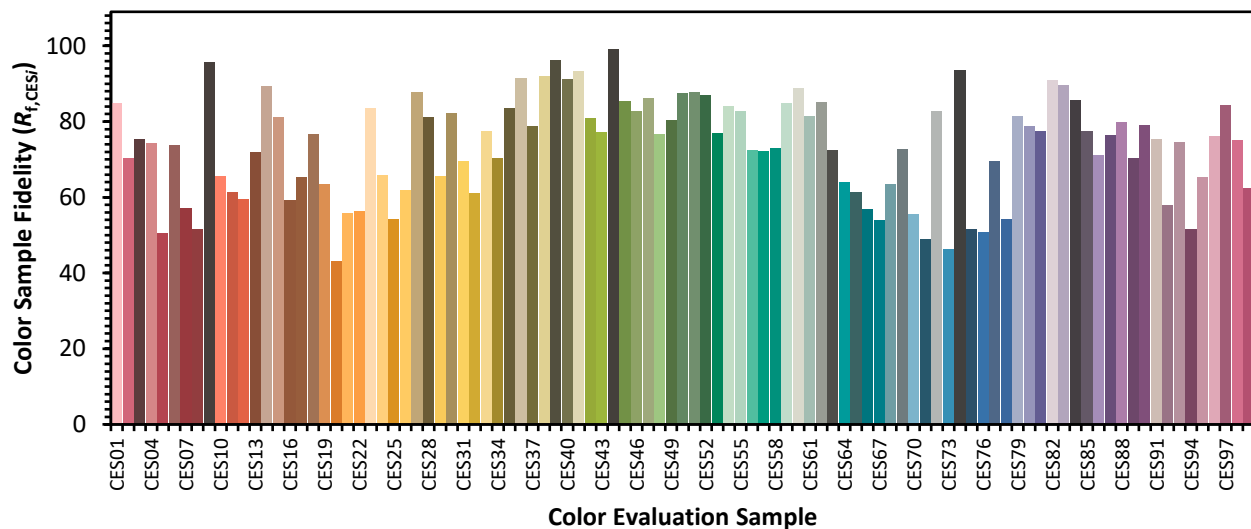


Color Vector Graphics

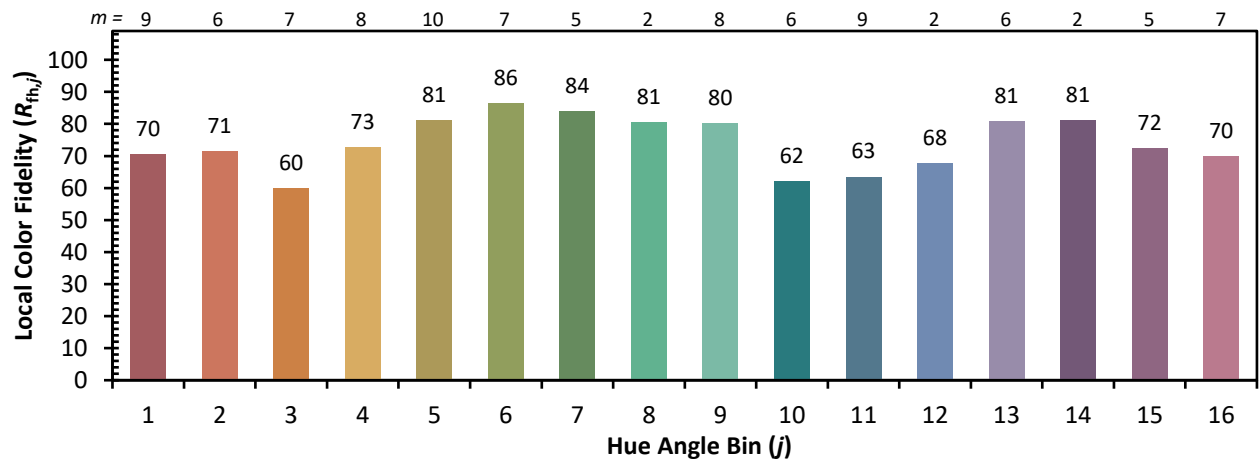
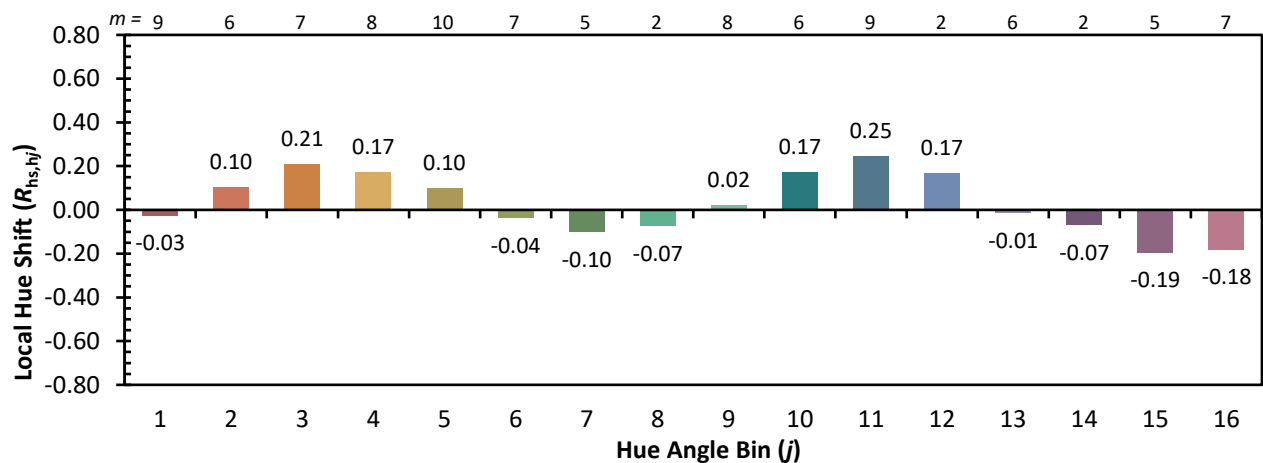
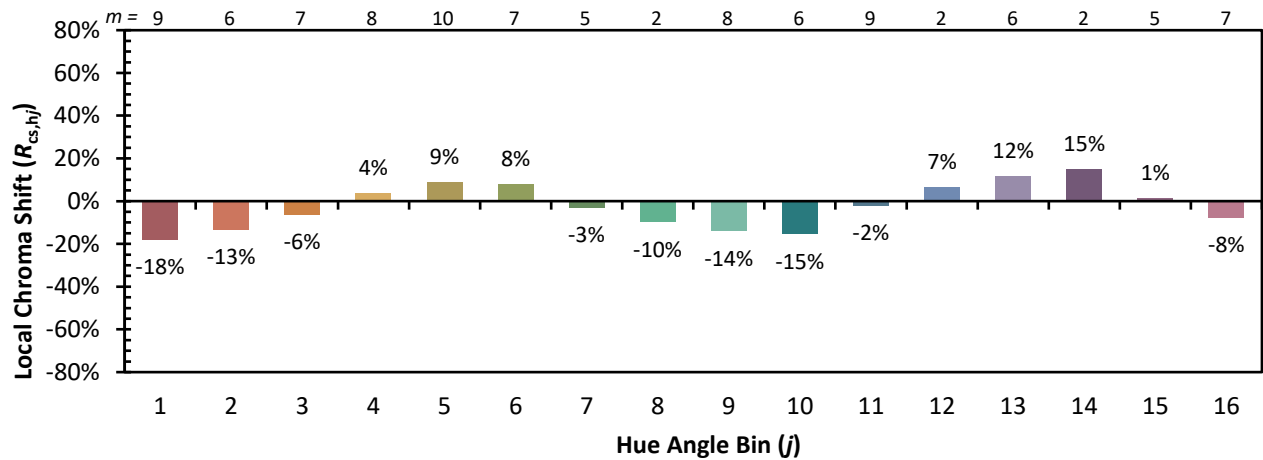


Individual Sample Fidelity Index ($R_{f,i}$)

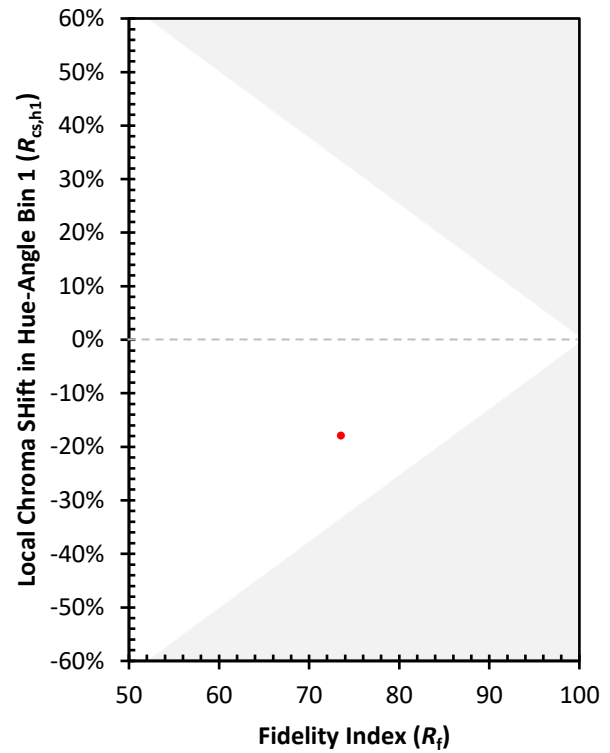
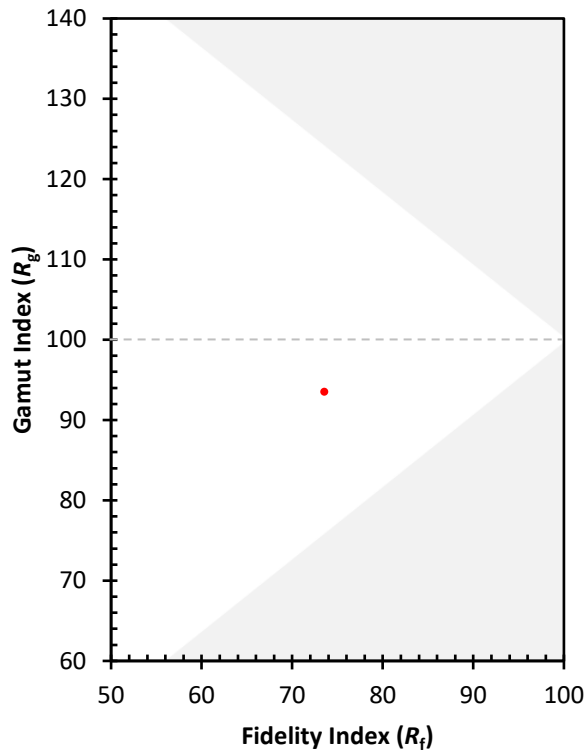
CES01 = 85	CES26 = 62	CES51 = 88	CES76 = 51
CES02 = 61	CES27 = 88	CES52 = 87	CES77 = 70
CES03 = 30	CES28 = 81	CES53 = 77	CES78 = 54
CES04 = 70	CES29 = 66	CES54 = 84	CES79 = 81
CES05 = 47	CES30 = 82	CES55 = 83	CES80 = 79
CES06 = 50	CES31 = 69	CES56 = 73	CES81 = 77
CES07 = 40	CES32 = 61	CES57 = 72	CES82 = 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	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)