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

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Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: LUMARK

Report Number: P1460819

Luminaire Tested: PRV-P-PB1B-740-U-5WQ

Issue Date: 06/09/2026

Test Information

Test Method:	LM-79-2024
Report Number:	P1460819
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	6/9/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	LUMARK
Catalog Number:	PRV-P-PB1B-740-U-5WQ
Description:	PREVAIL PETITE DISCRETE LED 1 SQUARE AT 1470MA 70CRI 4000K FIXTURE w/ TYPE V SQUARE WIDE DISTRIBUTION OPTIC
Light Source:	(10) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6605.7 lumens
Efficiency:	N/A
Efficacy:	125.8 lumens/watt
Luminous Opening:	Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B3 - U0 - G1
Input Watts (W):	52.5
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.97
Total Harmonic Distortion (THDi):	6.0%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Scaled Data Report

REPORT NUMBER: P1460819
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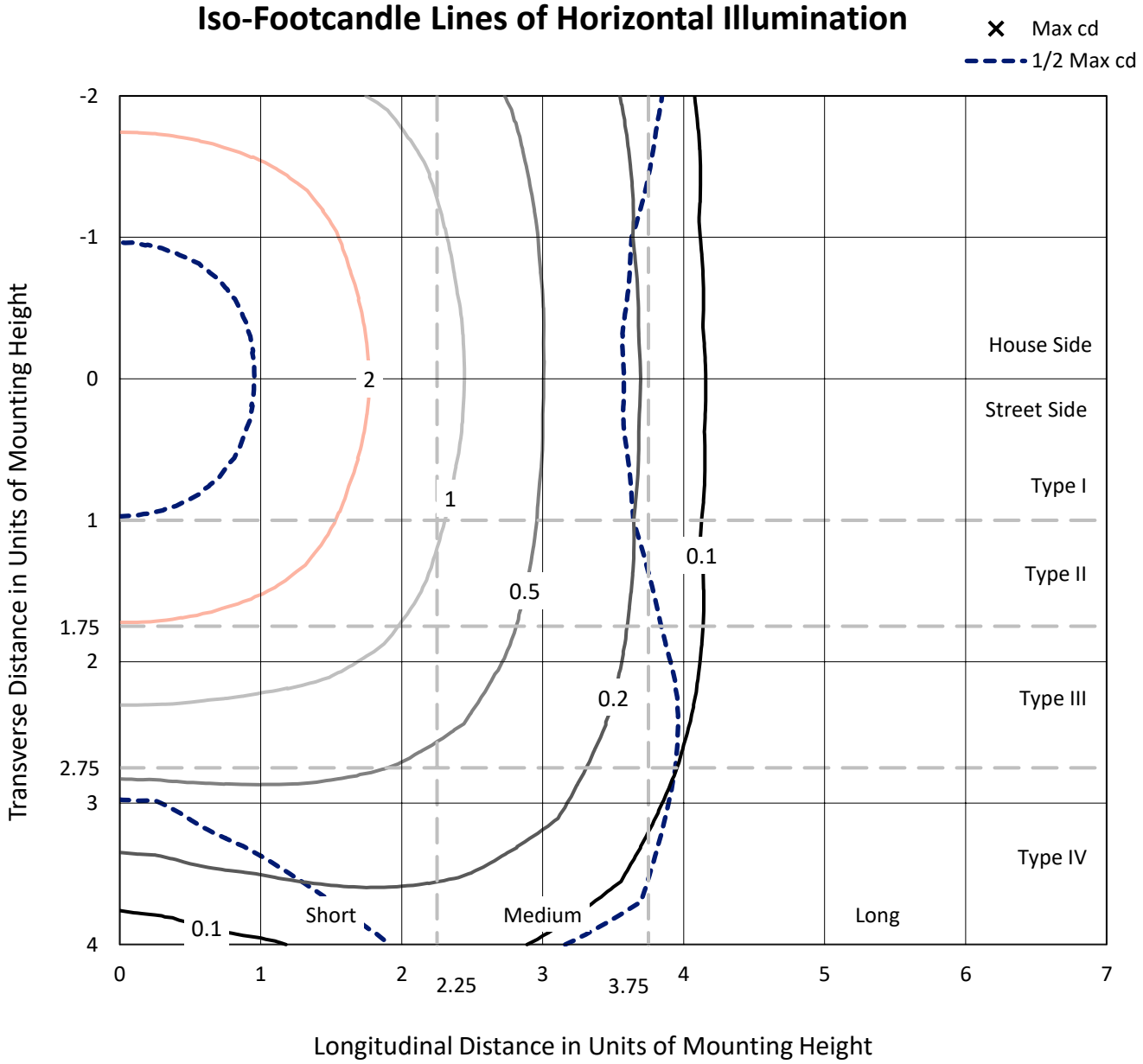
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
Type V - Short - N/A

REPORT NUMBER: P1460819
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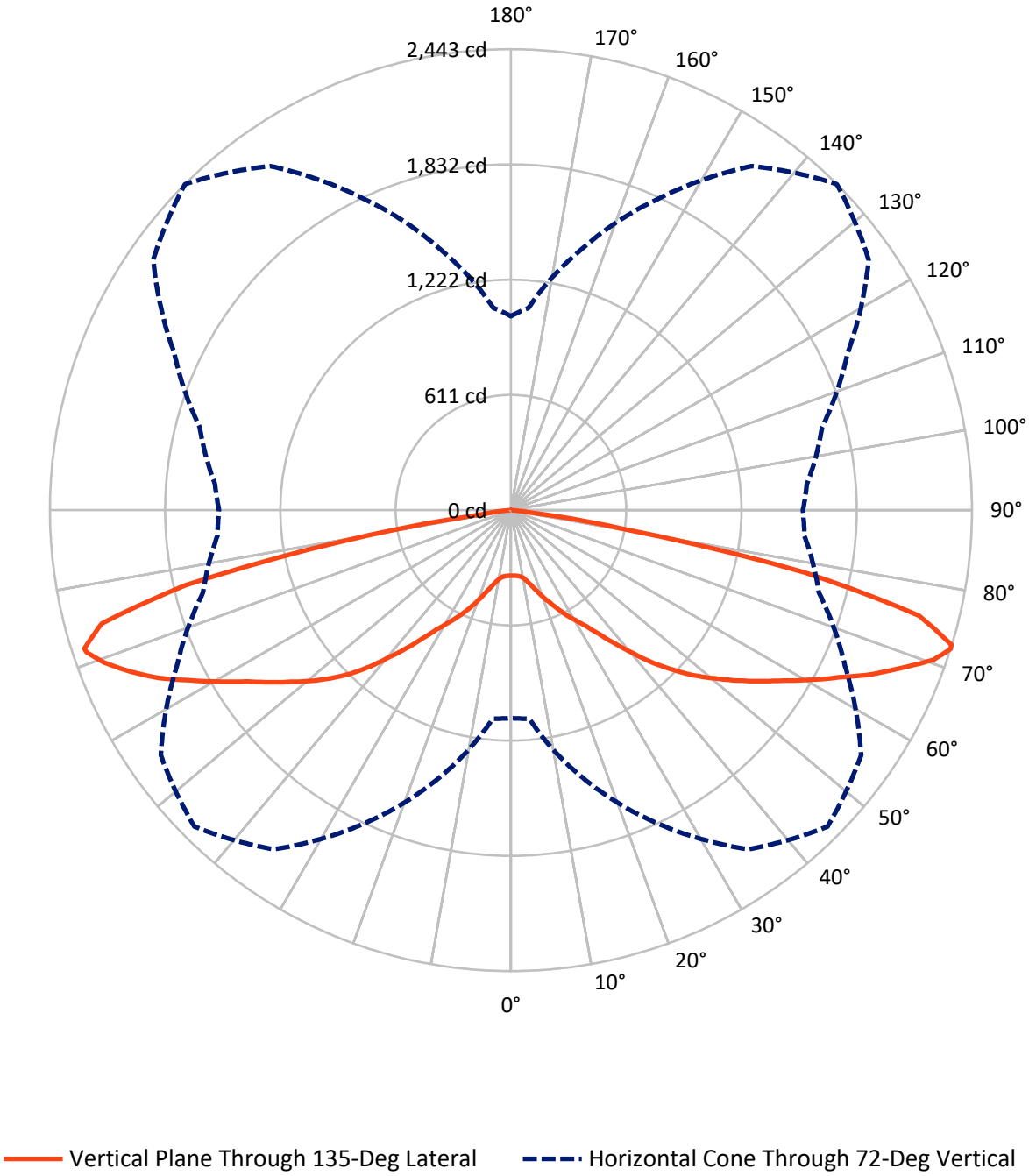
Luminous Intensity Polar Plot



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Scaled Data Report

REPORT NUMBER: P1460819
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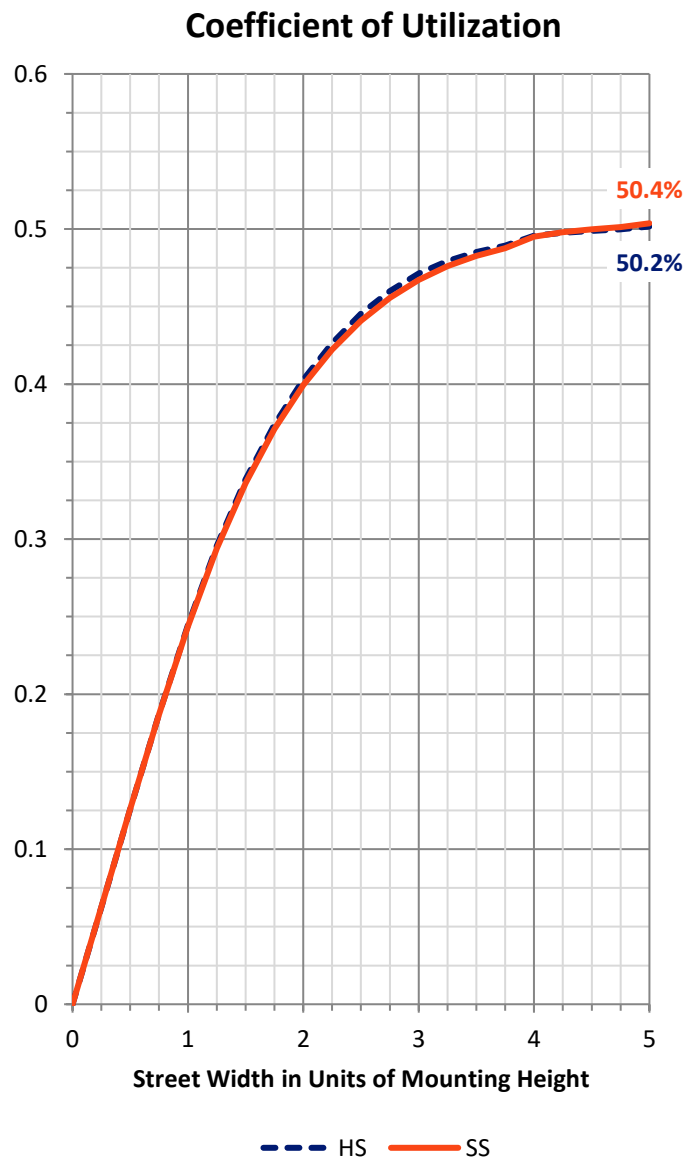
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3289.0	0.0	3289.0
	% Fixture	49.8	0.0	49.8
Street Side	Lumens	3316.7	0.0	3316.7
	% Fixture	50.2	0.0	50.2
Total	Lumens	6605.7	0.0	6605.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.9	0.5
10°-20°	121.1	1.8
20°-30°	267.2	4.0
30°-40°	523.4	7.9
40°-50°	949.8	14.4
50°-60°	1395.6	21.1
60°-70°	1840.8	27.9
70°-80°	1396.9	21.1
80°-90°	77.1	1.2
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°	6605.7	100.0
0°-180°	6605.7	100.0

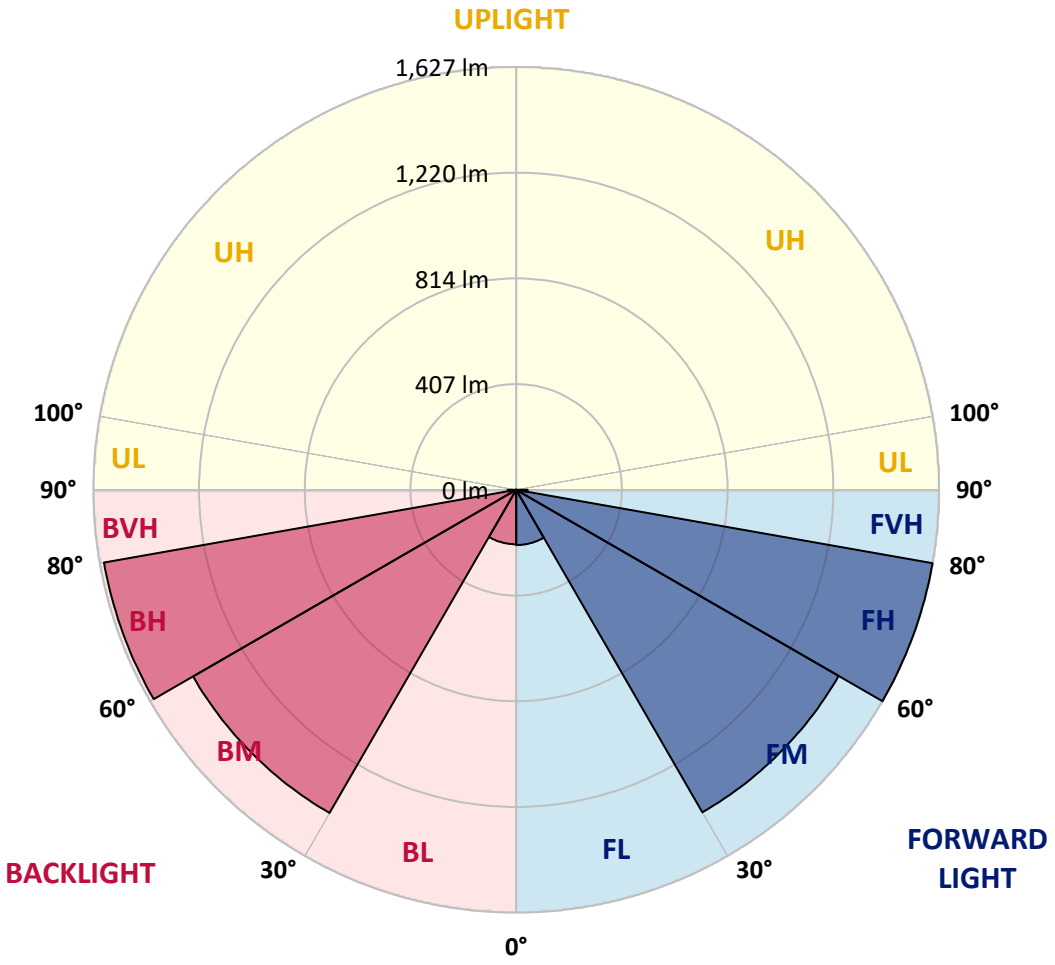


REPORT NUMBER: P1460819
CATALOG NUMBER: PRV-P-PB1B-740-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	212.6	3.2			
FM	(30°-60°)	1432.8	21.7			
FH	(60°-80°)	1627.1	24.6			G1/1800
FVH	(80°-90°)	44.1	0.7			G1/100
BL	(0°-30°)	209.6	3.2	B1/500		
BM	(30°-60°)	1435.9	21.7	B2/2500		
BH	(60°-80°)	1610.6	24.4	B3/2500		G1/1800
BVH	(80°-90°)	33.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
Type V Short



REPORT NUMBER: P1460819
CATALOG NUMBER: PRV-P-PB1B-740-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	347	347	347	347	347	347	347	347	347	347	347
2.5°	348	349	349	349	349	348	348	348	347	347	348
5°	351	351	352	352	351	351	350	349	348	347	348
7.5°	358	356	357	357	356	355	354	352	352	352	352
10°	371	371	371	370	370	368	366	364	366	366	367
12.5°	395	395	395	394	391	390	388	385	386	387	386
15°	426	426	426	423	424	420	416	413	414	414	413
17.5°	464	463	462	459	459	455	450	445	443	442	442
20°	499	497	500	500	503	500	491	481	476	473	473
22.5°	529	533	534	540	547	547	533	521	510	504	503
25°	573	575	577	580	593	594	577	562	553	553	553
27.5°	617	617	622	628	640	642	626	609	606	604	603
30°	663	663	673	683	689	691	678	665	662	659	660
32.5°	721	726	739	749	750	747	747	736	727	733	731
35°	810	812	818	824	827	824	821	817	815	818	815
37.5°	912	914	918	912	913	914	919	923	924	924	923
40°	1010	1016	1016	1012	1011	1007	1016	1027	1038	1040	1037
42.5°	1125	1122	1127	1119	1111	1115	1121	1134	1145	1153	1154
45°	1232	1234	1235	1217	1211	1216	1219	1230	1248	1260	1254
47.5°	1321	1322	1323	1313	1309	1307	1310	1314	1329	1337	1340
50°	1386	1390	1396	1392	1391	1393	1394	1398	1408	1413	1414
52.5°	1450	1454	1466	1461	1472	1478	1478	1473	1478	1481	1480
55°	1506	1510	1533	1538	1557	1570	1566	1545	1551	1544	1546
57.5°	1559	1565	1592	1610	1655	1668	1658	1626	1613	1611	1609
60°	1580	1587	1628	1694	1759	1790	1761	1700	1673	1666	1668
62.5°	1584	1593	1647	1747	1874	1921	1881	1787	1740	1729	1725
65°	1583	1590	1655	1796	1981	2066	2020	1889	1816	1801	1806
67.5°	1585	1595	1672	1832	2078	2191	2129	1982	1886	1855	1857
70°	1430	1482	1673	1877	2155	2304	2229	2025	1850	1758	1761
72°	*1102*	*1109*	*1468*	*1831*	*2194*	*2372*	*2265*	*1953*	*1689*	*1561*	*1547*
72.5°	983	1030	1409	1810	2194	2377	2250	1914	1629	1515	1502
75°	604	654	975	1483	2044	2251	1983	1568	1220	1093	1095
77.5°	248	270	536	1137	1591	1769	1451	1038	687	572	558
80°	57	61	90	378	807	912	610	346	231	158	149
82.5°	30	32	41	74	111	153	135	98	107	90	87
85°	10	10	13	20	27	34	39	48	46	35	33
87.5°	1	1	2	3	3	3	3	2	2	2	1
90°	0	0	0	0	0	0	0	0	0	0	0

REPORT NUMBER: P1460819
CATALOG NUMBER: PRV-P-PB1B-740-U-5WQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	347	347	347	347	*347*	347	347	347	347	347
2.5°	348	347	347	348	*348*	348	348	348	348	348
5°	348	348	347	348	*350*	350	350	350	349	349
7.5°	352	351	351	353	*355*	355	355	355	355	354
10°	366	365	364	367	*366*	366	368	368	367	368
12.5°	386	385	385	386	*388*	387	389	390	391	391
15°	413	410	410	413	*417*	418	416	419	419	419
17.5°	443	443	442	445	*453*	452	449	451	452	454
20°	473	475	478	487	*494*	490	488	488	484	485
22.5°	506	510	516	527	*534*	533	526	519	515	514
25°	552	551	556	570	*581*	577	567	559	556	555
27.5°	603	603	605	618	*632*	623	613	606	599	599
30°	660	655	663	672	*678*	672	666	653	645	642
32.5°	729	729	725	730	*734*	736	729	717	710	707
35°	817	814	809	809	*807*	812	811	809	801	801
37.5°	925	920	910	905	*899*	899	909	915	912	910
40°	1032	1033	1016	1003	*999*	1002	1013	1029	1023	1015
42.5°	1154	1141	1119	1106	*1109*	1110	1122	1139	1138	1127
45°	1255	1238	1222	1211	*1209*	1220	1231	1245	1246	1246
47.5°	1332	1327	1308	1308	*1310*	1314	1325	1329	1324	1319
50°	1410	1402	1392	1398	*1402*	1407	1404	1401	1389	1382
52.5°	1478	1474	1472	1492	*1500*	1489	1479	1467	1453	1449
55°	1542	1547	1554	1590	*1599*	1583	1556	1541	1526	1521
57.5°	1606	1614	1636	1693	*1705*	1675	1635	1605	1583	1582
60°	1660	1675	1716	1801	*1826*	1780	1712	1655	1625	1622
62.5°	1728	1745	1807	1916	*1952*	1900	1783	1693	1647	1643
65°	1802	1828	1909	2052	*2098*	2012	1841	1729	1673	1671
67.5°	1862	1904	2012	2178	*2232*	2135	1905	1774	1704	1694
70°	1767	1862	2060	2294	*2376*	2218	1922	1682	1462	1422
72°	*1574*	*1708*	*1968*	*2314*	*2443*	*2226*	*1813*	*1426*	*1076*	*1028*
72.5°	1498	1650	1929	2293	*2441*	2209	1762	1341	974	947
75°	1092	1210	1579	2005	*2235*	1960	1355	794	465	423
77.5°	553	674	983	1369	*1594*	1280	765	312	98	79
80°	155	206	305	520	*603*	491	256	52	20	13
82.5°	92	110	94	84	*117*	85	45	21	4	1
85°	36	54	49	30	*22*	14	8	4	1	0
87.5°	2	2	3	3	*2*	2	2	1	0	0
90°	0	0	0	0	*0*	0	0	0	0	0

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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

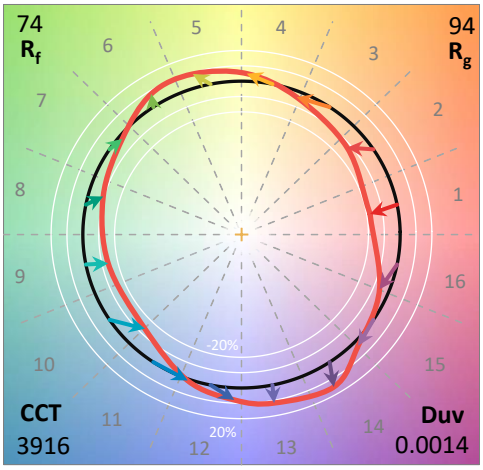
Test Information

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	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

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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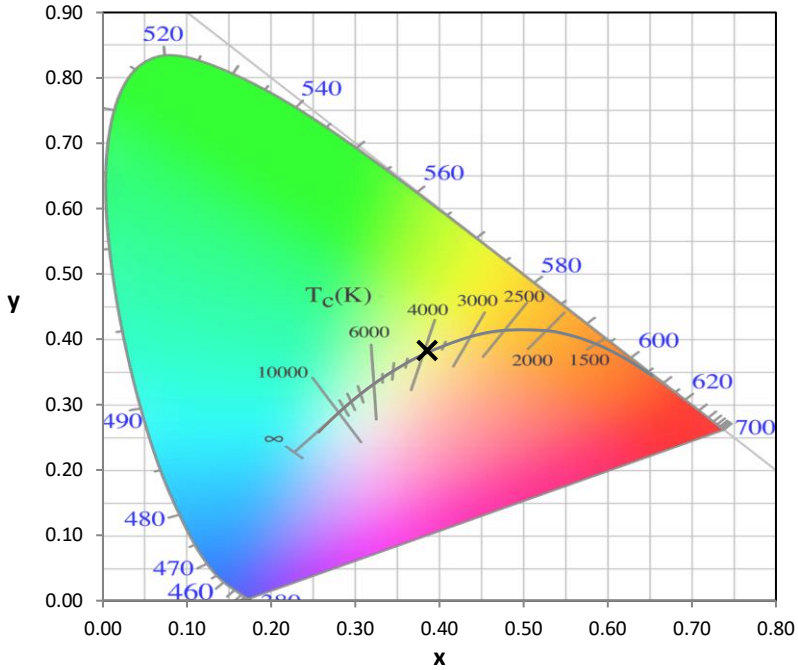
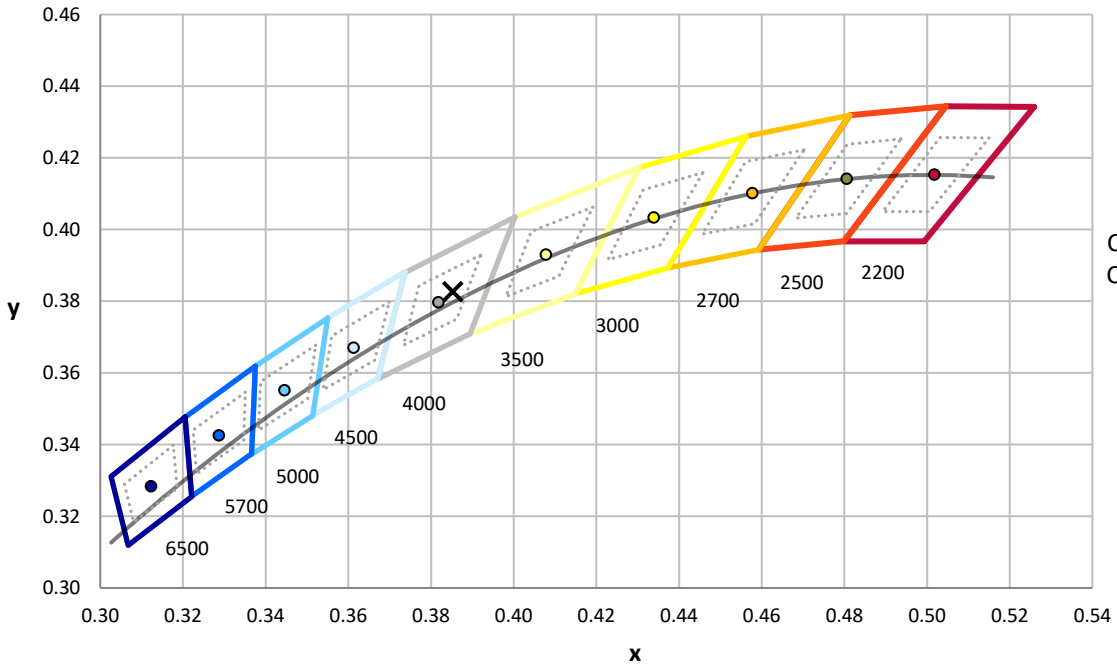
CIE 1931 Chromaticity Diagram



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

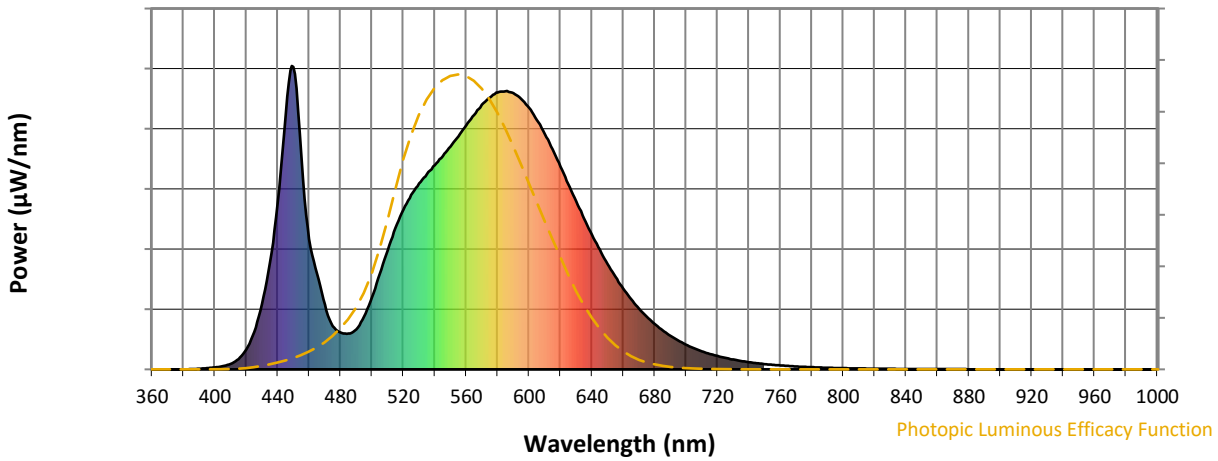


CCT = 3916K
CIE x = 0.3853
CIE y = 0.3827
Duv = 0.0014

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP2-2501-321-1

Photopic Flux vs. Wavelength

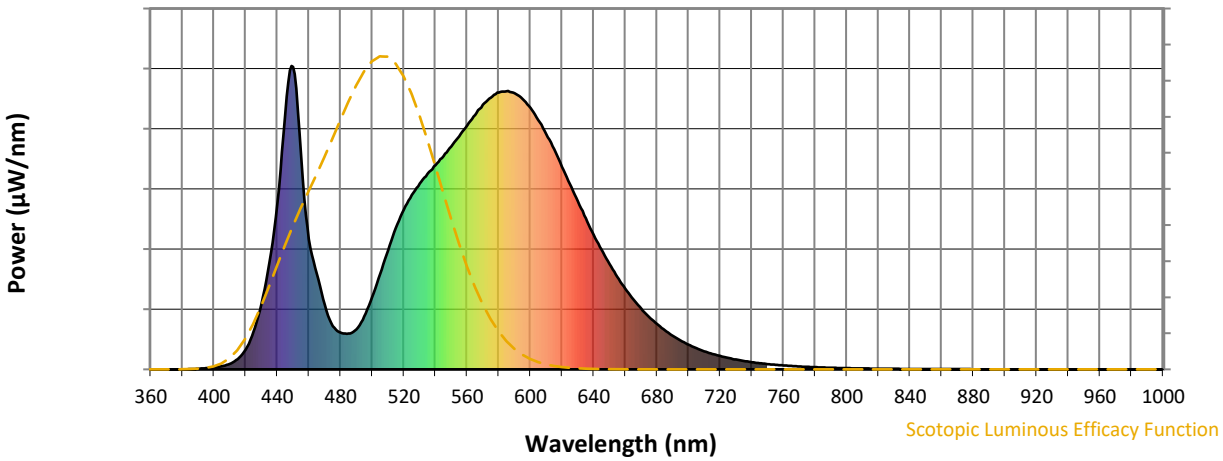


Photopic Lumens: NR

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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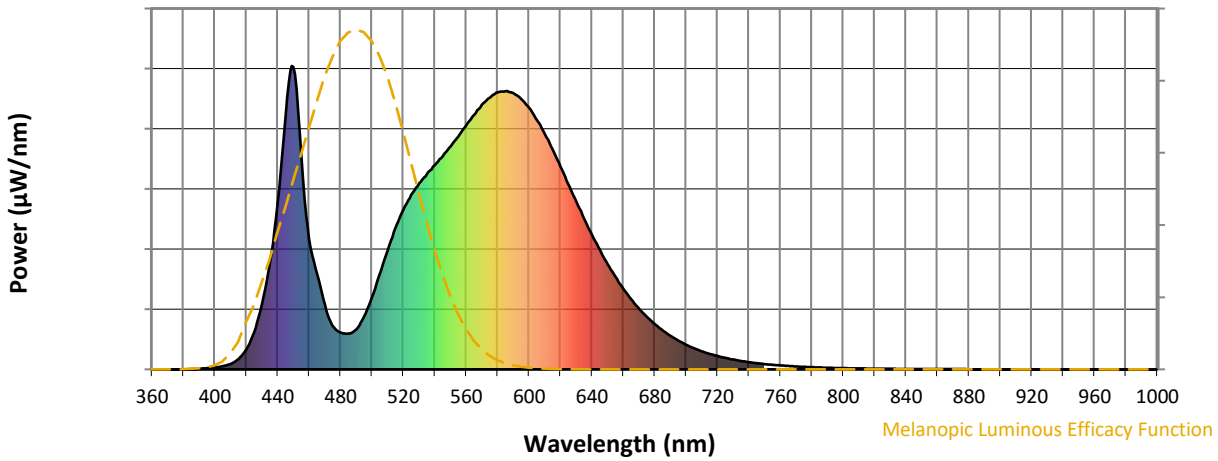
Melanopic Flux vs. Wavelength



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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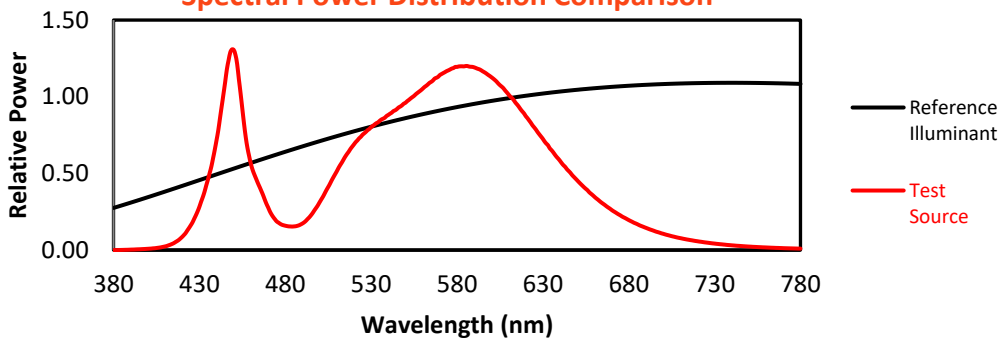
TM-30-18

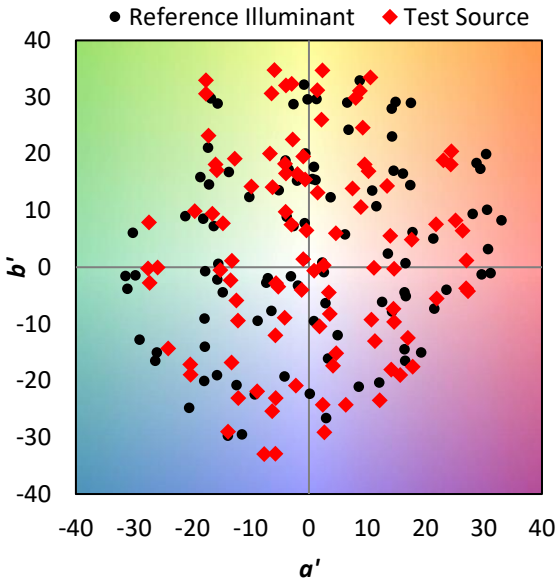
Summary

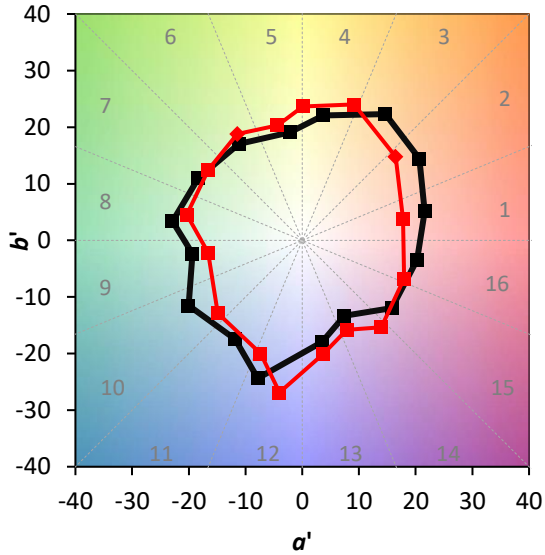
R_f = 73.5
R_g = 93.5
CIE R_a = 71.0
R_9 = -37.9

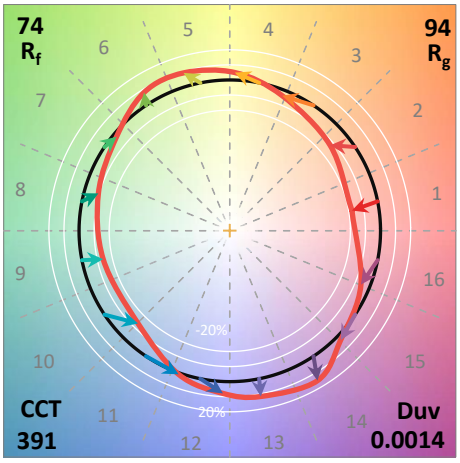
Spectral Power Distribution Comparison

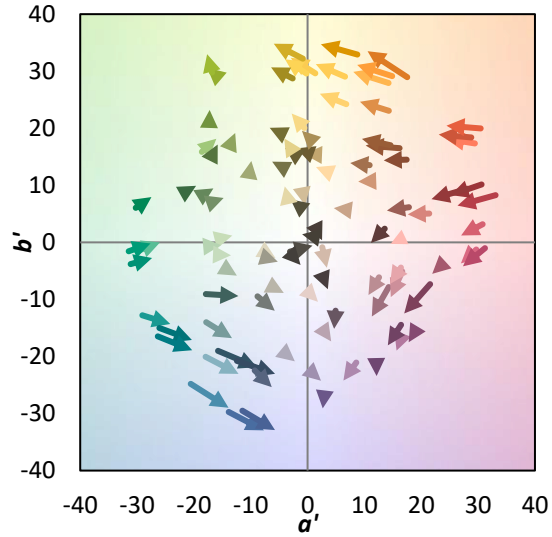


Color Vector Graphics



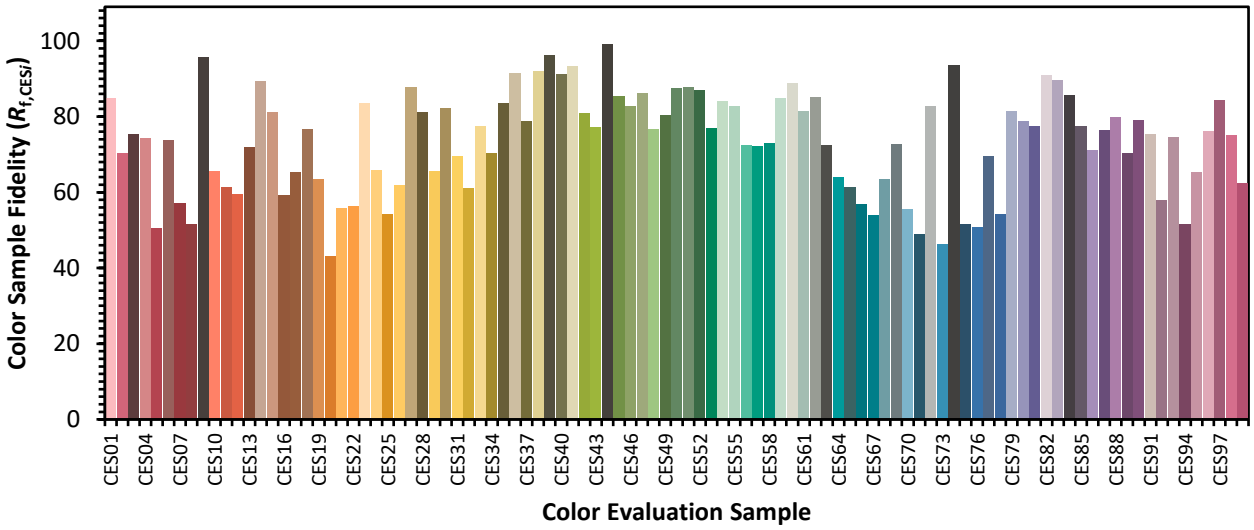




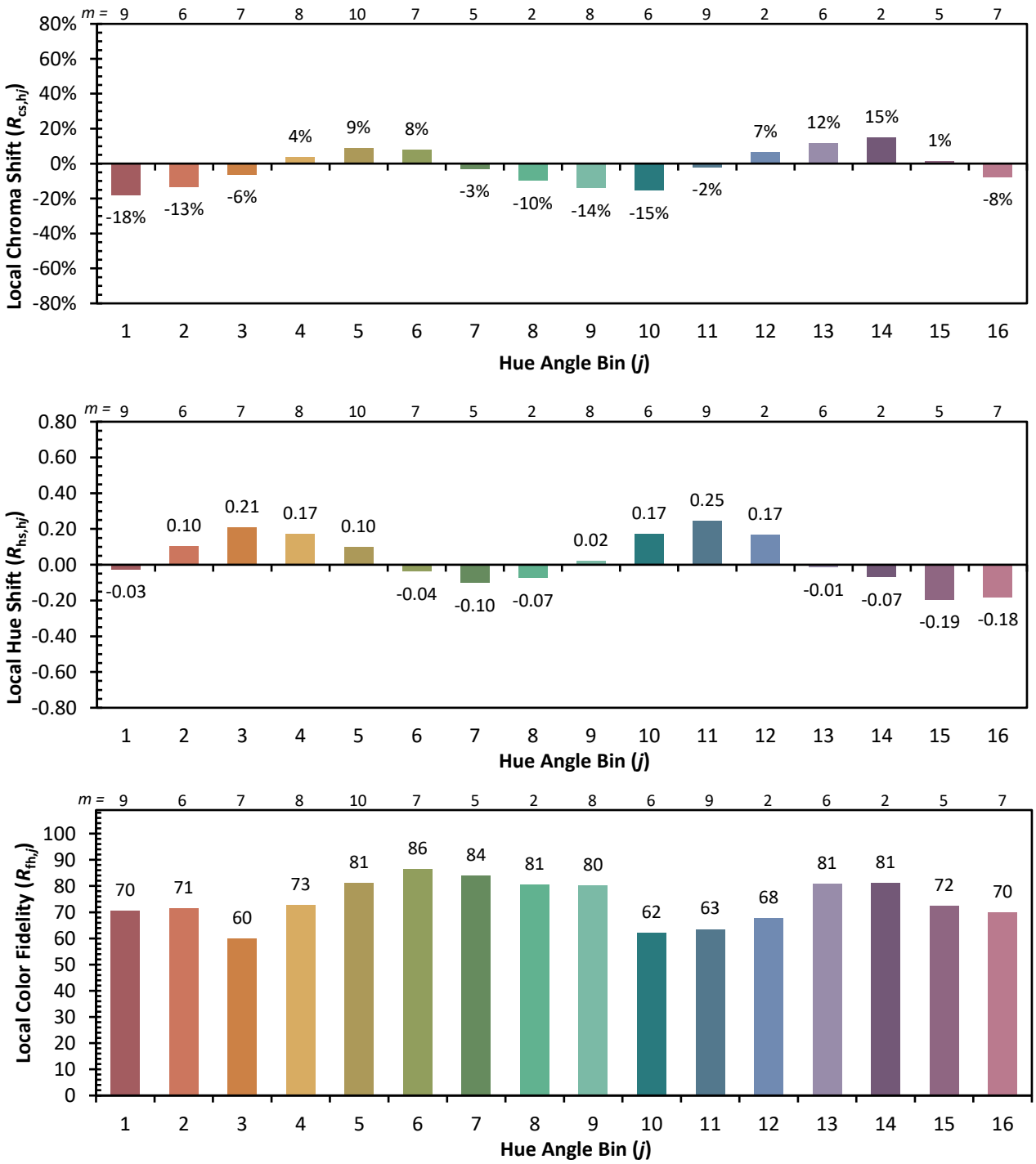


Individual Sample Fidelity Index ($R_{f,i}$)

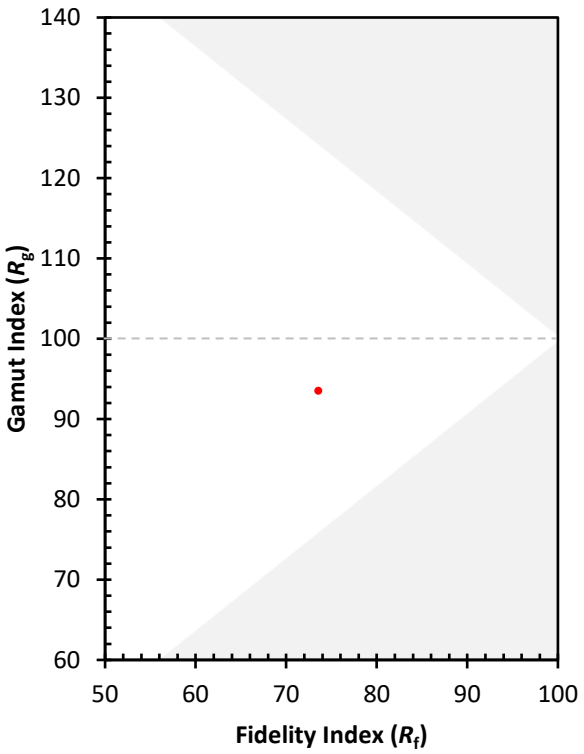
CES01 = 85	CES26 = 62	CES51 = 88	CES76 = 51
CES02 = 61	CES27 = 88	CES52 = 87	CES77 = 70
CES03 = 30	CES28 = 81	CES53 = 77	CES78 = 54
CES04 = 70	CES29 = 66	CES54 = 84	CES79 = 81
CES05 = 47	CES30 = 82	CES55 = 83	CES80 = 79
CES06 = 50	CES31 = 69	CES56 = 73	CES81 = 77
CES07 = 40	CES32 = 61	CES57 = 72	CES82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

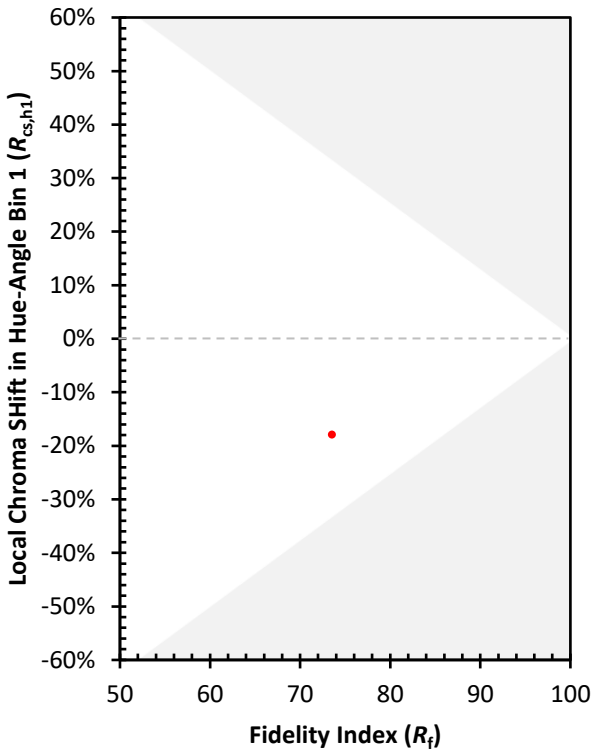


Color Rendition by Hue-Angle Bin



Measure Comparisons





(END OF REPORT)