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: P1460445

Luminaire Tested: PRV-PC1A-722-U-5WQ

Issue Date: 06/10/2026

Test Information

Test Method:	LM-79-2024
Report Number:	P1460445
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	6/10/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	LUMARK
Catalog Number:	PRV-PC1A-722-U-5WQ
Description:	PREVAIL DISCRETE LED 1 SQUARE AT 425MA 70CRI 2200K FIXTURE w/ TYPE V SQUARE WIDE DISTRIBUTION OPTIC
Light Source:	(40) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7328.8 lumens
Efficiency:	N/A
Efficacy:	140.9 lumens/watt
Luminous Opening:	Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B3 - U0 - G1
Input Watts (W):	52
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	3.35%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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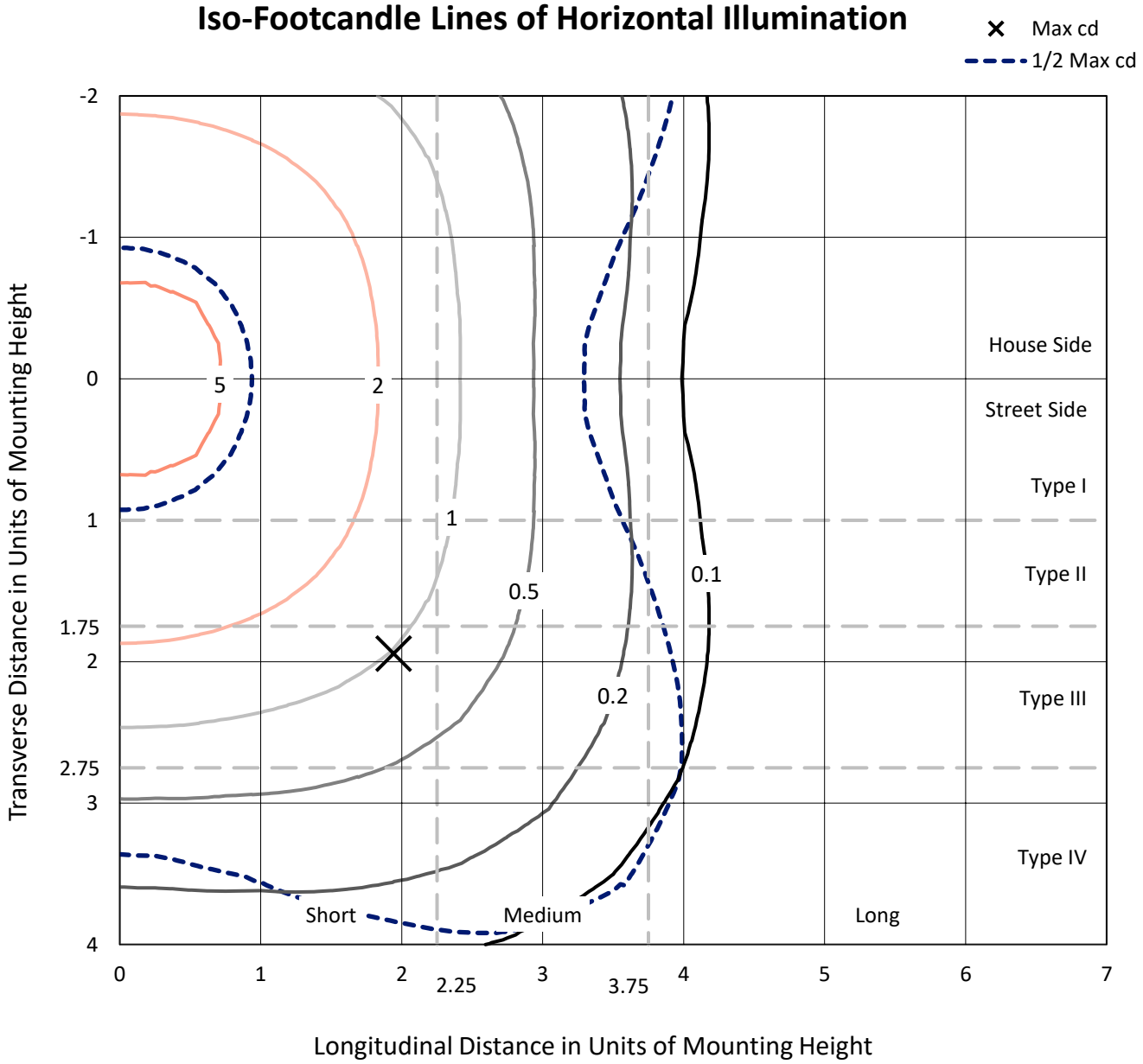
Scaled Data Report

REPORT NUMBER: P1460445
CATALOG NUMBER: PRV-PC1A-722-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
Type V - Short - N/A

REPORT NUMBER: P1460445
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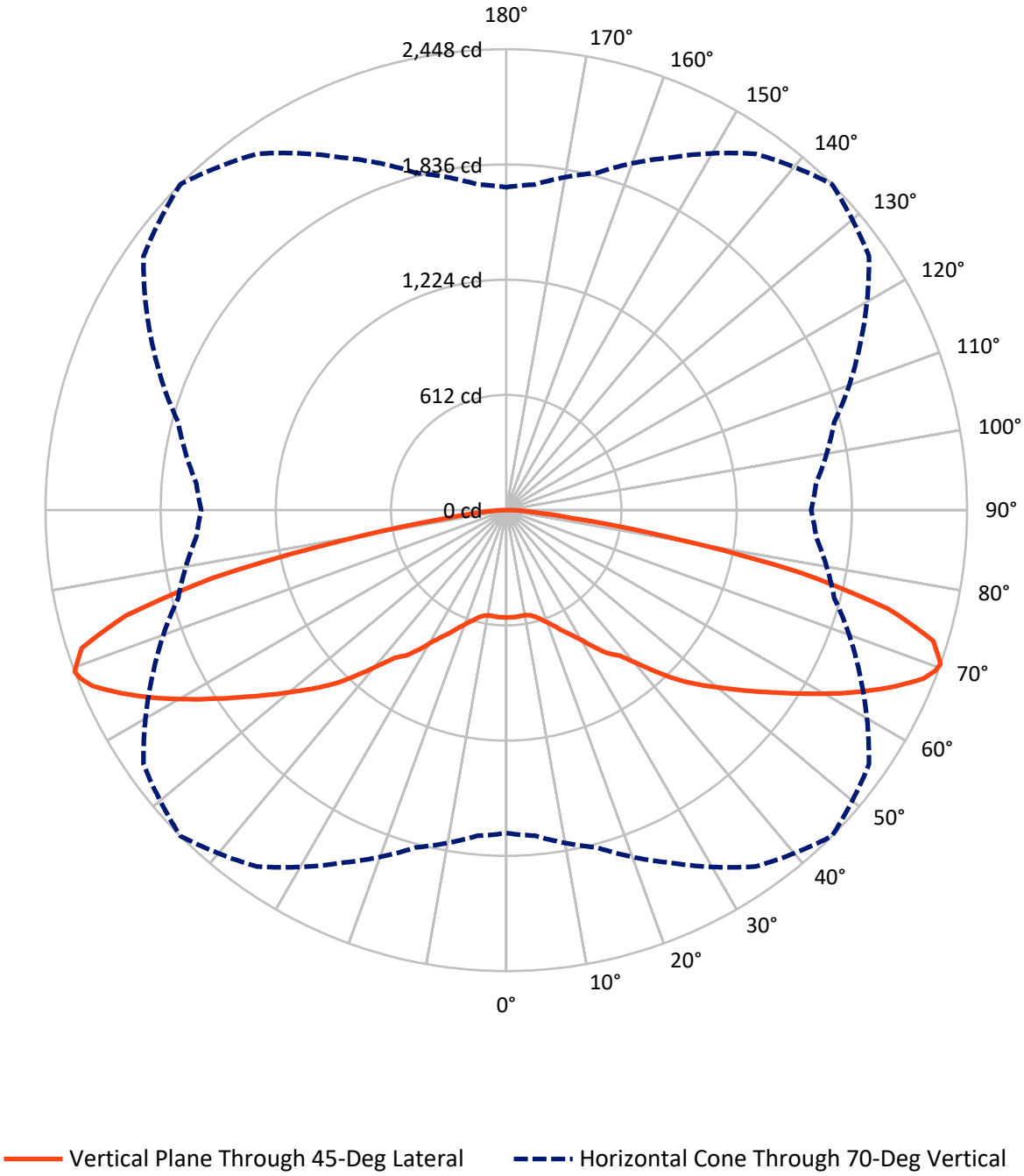
Luminous Intensity Polar Plot



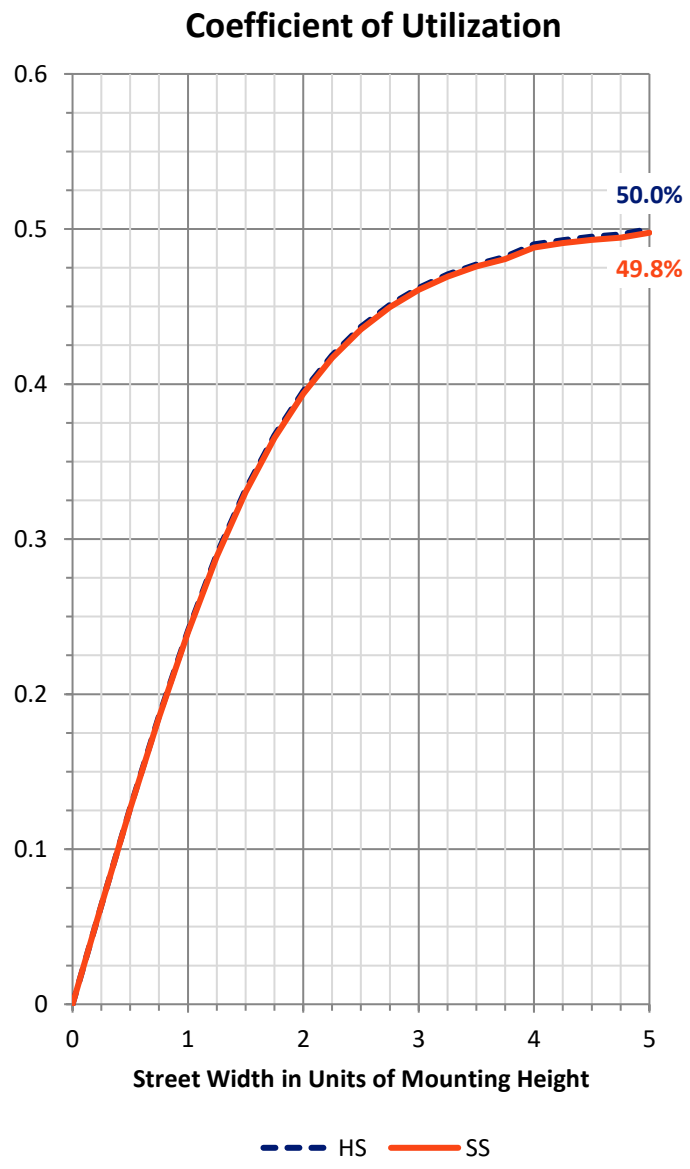
REPORT NUMBER: P1460445
CATALOG NUMBER: PRV-PC1A-722-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3664.4	0.0	3664.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3664.4	0.0	3664.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	7328.8	0.0	7328.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	0.7
10°-20°	168.7	2.3
20°-30°	328.6	4.5
30°-40°	582.8	8.0
40°-50°	1005.5	13.7
50°-60°	1518.4	20.7
60°-70°	2021.7	27.6
70°-80°	1466.4	20.0
80°-90°	182.7	2.5
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°	7328.8	100.0
0°-180°	7328.8	100.0

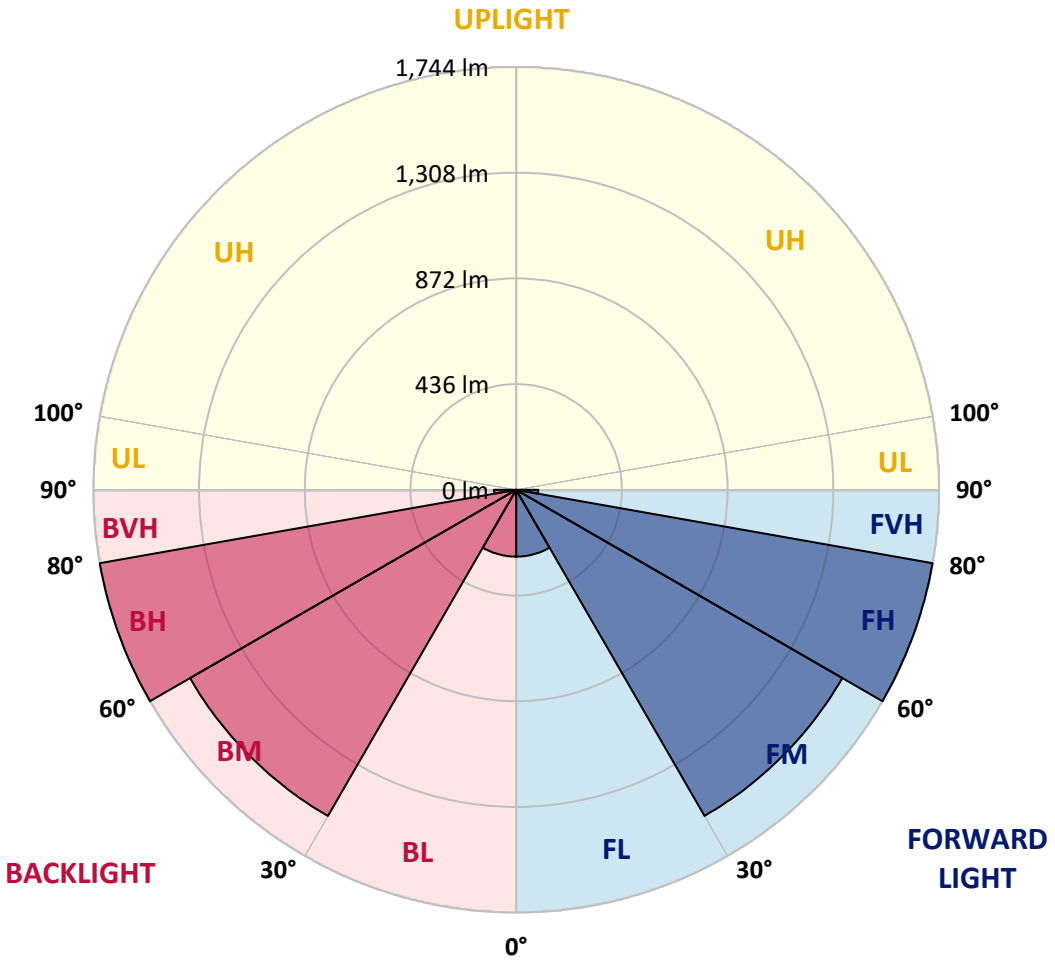


REPORT NUMBER: P1460445
CATALOG NUMBER: PRV-PC1A-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	275.7	3.8			
FM	(30°-60°)	1553.4	21.2			
FH	(60°-80°)	1744.1	23.8			G1/1800
FVH	(80°-90°)	91.3	1.2			G1/100
BL	(0°-30°)	275.7	3.8	B1/500		
BM	(30°-60°)	1553.4	21.2	B2/2500		
BH	(60°-80°)	1744.1	23.8	B3/2500		G1/1800
BVH	(80°-90°)	91.3	1.2			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	569.8	569.8	569.8	569.8	569.8	*569.8*	569.8	569.8	569.8	569.8	569.8
2.5°	570.1	570.1	570.1	570.1	569.8	*569.4*	569.1	569.1	569.1	568.8	568.8
5°	571.4	571.1	571.1	570.8	570.8	*569.4*	568.1	567.1	566.1	565.1	565.5
7.5°	566.1	566.8	566.4	567.1	567.8	*567.1*	564.5	561.5	558.8	556.5	556.5
10°	566.8	566.4	566.1	566.4	567.1	*566.8*	564.1	560.1	556.5	553.8	553.5
12.5°	576.1	576.1	574.4	573.1	573.8	*573.1*	571.1	566.4	563.5	560.8	561.1
15°	594.4	593.7	591.4	589.4	588.4	*588.1*	586.7	583.4	579.8	576.8	577.8
17.5°	616.7	616.7	612.0	611.0	610.0	*612.7*	609.7	605.0	602.0	600.4	600.4
20°	643.6	644.3	640.3	638.3	638.6	*639.0*	637.6	632.6	629.0	627.3	628.0
22.5°	673.9	672.6	671.6	670.6	672.6	*672.9*	670.2	664.2	661.9	658.6	659.6
25°	700.5	700.5	700.8	706.1	709.5	*714.5*	710.5	701.2	692.5	689.2	688.9
27.5°	729.4	728.8	732.8	740.4	751.1	*755.7*	750.7	739.1	729.1	724.1	721.8
30°	777.0	776.7	777.3	787.0	798.6	*805.6*	799.9	790.3	781.3	776.7	778.7
32.5°	847.5	843.5	849.5	859.5	868.8	*871.8*	872.5	861.5	850.2	846.2	847.8
35°	887.1	886.1	892.7	904.7	921.4	*935.0*	924.3	914.7	909.4	903.7	902.4
37.5°	977.2	976.9	982.2	981.2	983.9	*980.9*	985.9	989.9	994.9	990.5	991.5
40°	1086.7	1084.0	1083.0	1081.0	1073.7	*1069.0*	1078.3	1085.3	1091.3	1099.6	1095.6
42.5°	1201.4	1197.1	1193.8	1187.8	1180.1	*1176.8*	1178.1	1190.8	1196.1	1197.1	1197.4
45°	1332.1	1324.2	1310.2	1299.5	1288.9	*1287.9*	1287.2	1289.9	1290.2	1290.2	1295.5
47.5°	1446.9	1445.9	1425.9	1407.6	1386.4	*1386.4*	1379.0	1378.0	1382.4	1388.0	1385.0
50°	1544.3	1541.0	1523.4	1507.8	1496.4	*1482.8*	1472.2	1463.9	1469.8	1474.8	1477.5
52.5°	1623.2	1622.8	1610.9	1604.9	1600.6	*1592.2*	1567.6	1552.7	1554.0	1560.0	1558.3
55°	1692.7	1697.4	1698.0	1705.7	1713.6	*1707.7*	1684.0	1661.4	1649.8	1641.1	1640.8
57.5°	1772.2	1775.2	1784.5	1809.1	1832.1	*1837.4*	1813.4	1779.8	1747.6	1726.3	1718.3
60°	1855.0	1855.7	1880.0	1918.9	1960.8	*1978.4*	1957.1	1901.9	1843.4	1797.1	1788.8
62.5°	1929.5	1927.9	1964.4	2023.3	2093.8	*2122.4*	2094.2	2013.3	1912.2	1847.7	1836.7
65°	1961.8	1966.1	2014.3	2104.8	2204.6	*2260.5*	2223.9	2089.5	1942.5	1855.3	1842.0
67.5°	1903.2	1915.5	1992.7	2134.7	2291.1	*2389.2*	2325.0	2120.8	1917.2	1804.1	1786.5
69°	1819.4	1822.4	1922.5	2108.5	2314.4	*2434.1*	2352.9	2104.5	1866.3	1722.6	1704.0
70°	*1715.0*	*1735.9*	*1854.3*	*2066.2*	*2310.4*	*2448.1*	*2352.6*	*2073.5*	*1804.5*	*1653.1*	*1620.2*
72.5°	1392.3	1400.0	1568.3	1892.6	2212.6	*2371.9*	2240.2	1902.6	1567.3	1342.1	1333.5
75°	932.7	969.6	1172.1	1564.0	1932.5	*2098.8*	1934.2	1562.0	1175.1	894.1	854.8
77.5°	483.6	504.6	684.5	1019.1	1405.0	*1601.2*	1442.2	1093.0	723.8	437.1	414.8
80°	237.8	249.1	316.3	470.0	727.8	*882.4*	808.3	574.4	338.9	216.5	203.6
82.5°	133.7	138.0	175.6	218.9	303.3	*353.2*	330.6	280.1	170.3	128.4	124.7
85°	69.5	73.2	109.4	135.0	151.0	*152.7*	152.3	150.3	107.4	78.5	74.8
87.5°	32.9	36.3	56.2	74.2	78.2	*75.5*	80.2	69.5	50.9	35.6	31.3
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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LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP2-2501-321-2

Test Date: 04/09/2025

Luminaire Tested: GKO-PB1E-722-U-T4W

Data in this report applies to families of products including GKO-PB1E-722-U-T4W

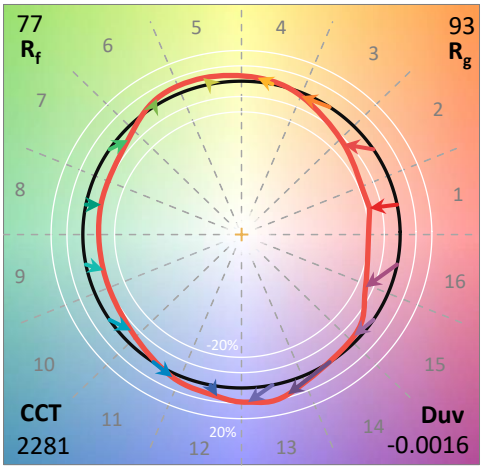
Report Generated By FNC07603 / LDUCLS01DT447
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP2-2501-321-2
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-722-U-T4W**
Description:	Gekko Wedge Wall Pack Fixture 1 SQ w/ T4W distribution

Spectral Parameters

CCT (K):	2281	CRI (Ra):		70.6			
CIE u':	0.2851	R1:		68.4	R9:		-35.1
CIE v':	0.5324	R2:		88.7	R10:		78.0
Duv:	-0.0016	R3:		85.7	R11:		60.2
CIE x:	0.4942	R4:		63.2	R12:		73.8
CIE y:	0.4102	R5:		69.0	R13:		72.8
CIE z:	0.0956	R6:		88.6	R14:		92.4
Peak Wavelength (nm):	602	R7:		68.8	R15:		58.4
Dominant Wavelength (nm):	587	R8:		32.6			
Purity:	71.48321						
Rf:	76.9						
Rg:	92.6						



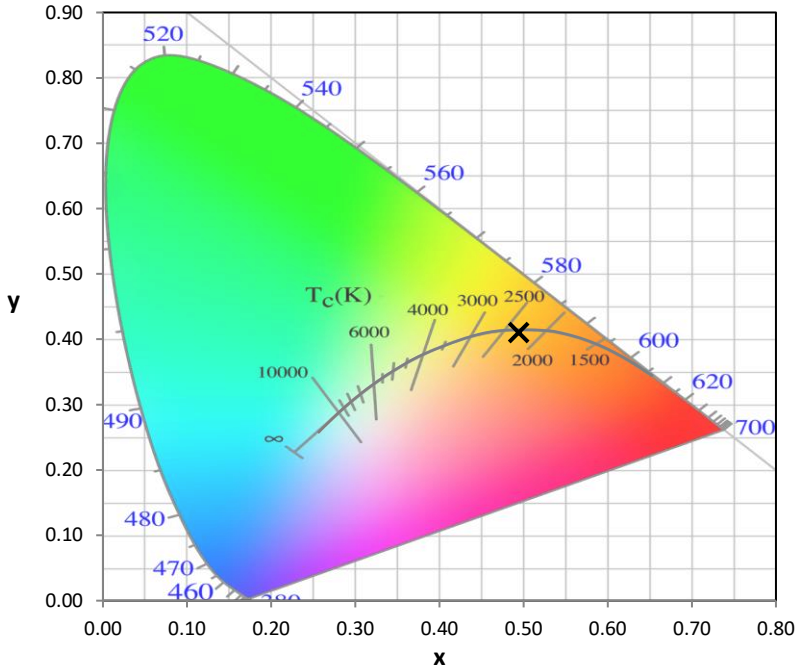
Test Conditions

Stabilization Time:	40M
Operation Time:	1H 40M
Sphere Temperature (°C):	25.0

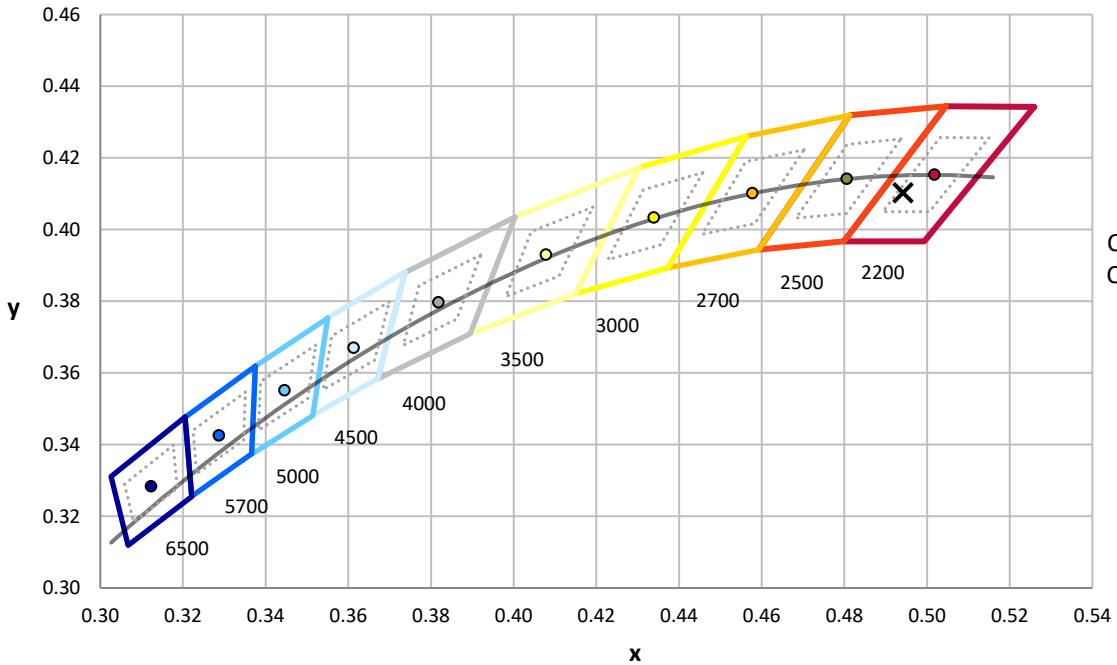
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN2187	1/6/2025	7/6/2025
Power Meter	INXT2011002	1/21/2025	1/21/2026
AC Power Source	IN0458	10/22/2024	10/22/2025
DC Power Source	IN0212	10/22/2024	10/22/2025
Sphere Thermometer	IN4036B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

REPORT NUMBER: SP2-2501-321-2

CIE 1931 Chromaticity Diagram



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

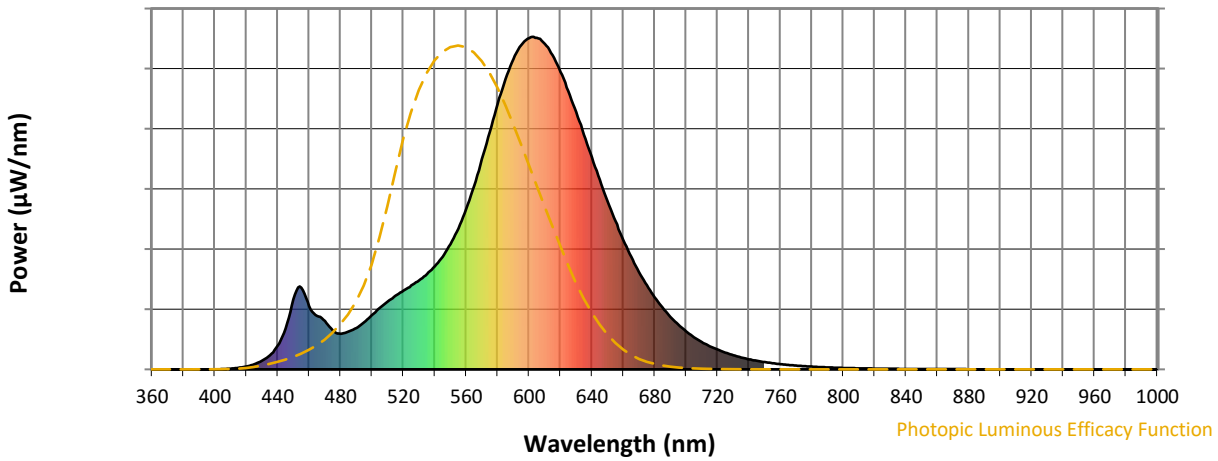


CCT = 2281K
CIE x = 0.4942
CIE y = 0.4102
Duv = -0.0016

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP2-2501-321-2

Photopic Flux vs. Wavelength

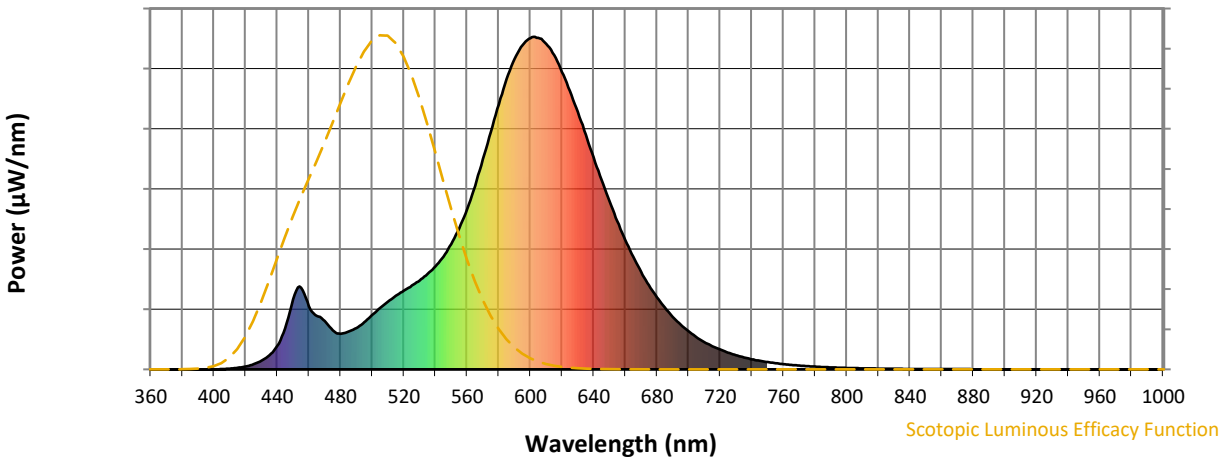


Photopic Lumens: NR

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	124	NR	620	894	NR	750	22	NR	880	0	NR
365	0	NR	495	141	NR	625	837	NR	755	19	NR	885	0	NR
370	0	NR	500	163	NR	630	774	NR	760	16	NR	890	0	NR
375	0	NR	505	184	NR	635	706	NR	765	13	NR	895	0	NR
380	0	NR	510	204	NR	640	638	NR	770	11	NR	900	0	NR
385	0	NR	515	221	NR	645	570	NR	775	10	NR	905	0	NR
390	0	NR	520	237	NR	650	505	NR	780	8	NR	910	0	NR
395	0	NR	525	252	NR	655	446	NR	785	7	NR	915	0	NR
400	0	NR	530	268	NR	660	389	NR	790	6	NR	920	0	NR
405	1	NR	535	287	NR	665	339	NR	795	5	NR	925	0	NR
410	2	NR	540	310	NR	670	292	NR	800	4	NR	930	0	NR
415	5	NR	545	339	NR	675	253	NR	805	4	NR	935	0	NR
420	9	NR	550	377	NR	680	217	NR	810	3	NR	940	0	NR
425	15	NR	555	424	NR	685	186	NR	815	3	NR	945	0	NR
430	26	NR	560	482	NR	690	158	NR	820	2	NR	950	0	NR
435	43	NR	565	551	NR	695	135	NR	825	2	NR	955	0	NR
440	71	NR	570	632	NR	700	114	NR	830	2	NR	960	0	NR
445	123	NR	575	714	NR	705	97	NR	835	2	NR	965	0	NR
450	210	NR	580	797	NR	710	82	NR	840	1	NR	970	0	NR
455	245	NR	585	873	NR	715	70	NR	845	1	NR	975	0	NR
460	190	NR	590	934	NR	720	59	NR	850	1	NR	980	0	NR
465	161	NR	595	975	NR	725	50	NR	855	1	NR	985	0	NR
470	145	NR	600	996	NR	730	43	NR	860	1	NR	990	0	NR
475	117	NR	605	997	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	978	NR	740	30	NR	870	1	NR	1000	0	NR
485	113	NR	615	945	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP2-2501-321-2

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 0.98**

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	124	NR	620	894	NR	750	22	NR	880	0	NR
365	0	NR	495	141	NR	625	837	NR	755	19	NR	885	0	NR
370	0	NR	500	163	NR	630	774	NR	760	16	NR	890	0	NR
375	0	NR	505	184	NR	635	706	NR	765	13	NR	895	0	NR
380	0	NR	510	204	NR	640	638	NR	770	11	NR	900	0	NR
385	0	NR	515	221	NR	645	570	NR	775	10	NR	905	0	NR
390	0	NR	520	237	NR	650	505	NR	780	8	NR	910	0	NR
395	0	NR	525	252	NR	655	446	NR	785	7	NR	915	0	NR
400	0	NR	530	268	NR	660	389	NR	790	6	NR	920	0	NR
405	1	NR	535	287	NR	665	339	NR	795	5	NR	925	0	NR
410	2	NR	540	310	NR	670	292	NR	800	4	NR	930	0	NR
415	5	NR	545	339	NR	675	253	NR	805	4	NR	935	0	NR
420	9	NR	550	377	NR	680	217	NR	810	3	NR	940	0	NR
425	15	NR	555	424	NR	685	186	NR	815	3	NR	945	0	NR
430	26	NR	560	482	NR	690	158	NR	820	2	NR	950	0	NR
435	43	NR	565	551	NR	695	135	NR	825	2	NR	955	0	NR
440	71	NR	570	632	NR	700	114	NR	830	2	NR	960	0	NR
445	123	NR	575	714	NR	705	97	NR	835	2	NR	965	0	NR
450	210	NR	580	797	NR	710	82	NR	840	1	NR	970	0	NR
455	245	NR	585	873	NR	715	70	NR	845	1	NR	975	0	NR
460	190	NR	590	934	NR	720	59	NR	850	1	NR	980	0	NR
465	161	NR	595	975	NR	725	50	NR	855	1	NR	985	0	NR
470	145	NR	600	996	NR	730	43	NR	860	1	NR	990	0	NR
475	117	NR	605	997	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	978	NR	740	30	NR	870	1	NR	1000	0	NR
485	113	NR	615	945	NR	745	26	NR	875	1	NR			

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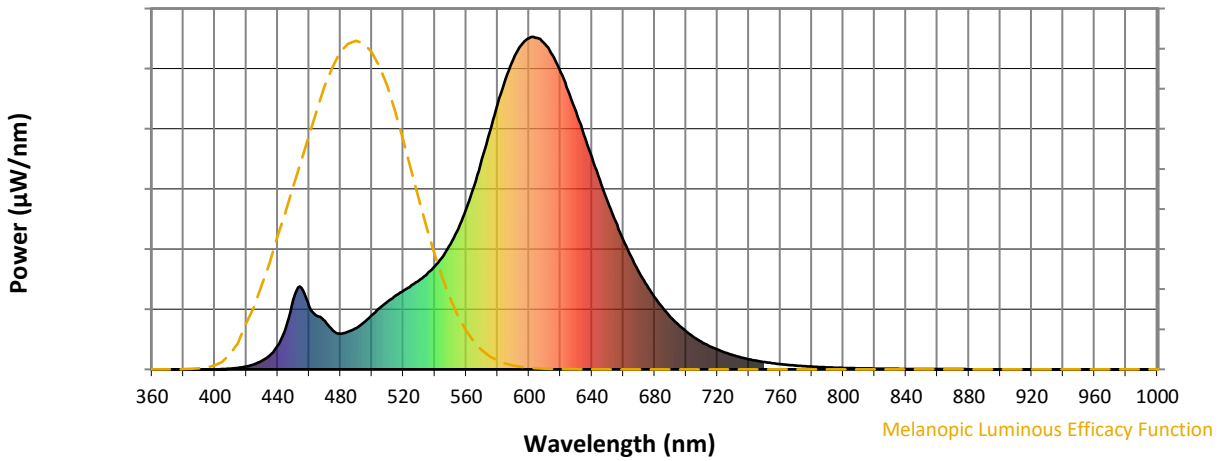
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.75**

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	124	NR	620	894	NR	750	22	NR	880	0	NR
365	0	NR	495	141	NR	625	837	NR	755	19	NR	885	0	NR
370	0	NR	500	163	NR	630	774	NR	760	16	NR	890	0	NR
375	0	NR	505	184	NR	635	706	NR	765	13	NR	895	0	NR
380	0	NR	510	204	NR	640	638	NR	770	11	NR	900	0	NR
385	0	NR	515	221	NR	645	570	NR	775	10	NR	905	0	NR
390	0	NR	520	237	NR	650	505	NR	780	8	NR	910	0	NR
395	0	NR	525	252	NR	655	446	NR	785	7	NR	915	0	NR
400	0	NR	530	268	NR	660	389	NR	790	6	NR	920	0	NR
405	1	NR	535	287	NR	665	339	NR	795	5	NR	925	0	NR
410	2	NR	540	310	NR	670	292	NR	800	4	NR	930	0	NR
415	5	NR	545	339	NR	675	253	NR	805	4	NR	935	0	NR
420	9	NR	550	377	NR	680	217	NR	810	3	NR	940	0	NR
425	15	NR	555	424	NR	685	186	NR	815	3	NR	945	0	NR
430	26	NR	560	482	NR	690	158	NR	820	2	NR	950	0	NR
435	43	NR	565	551	NR	695	135	NR	825	2	NR	955	0	NR
440	71	NR	570	632	NR	700	114	NR	830	2	NR	960	0	NR
445	123	NR	575	714	NR	705	97	NR	835	2	NR	965	0	NR
450	210	NR	580	797	NR	710	82	NR	840	1	NR	970	0	NR
455	245	NR	585	873	NR	715	70	NR	845	1	NR	975	0	NR
460	190	NR	590	934	NR	720	59	NR	850	1	NR	980	0	NR
465	161	NR	595	975	NR	725	50	NR	855	1	NR	985	0	NR
470	145	NR	600	996	NR	730	43	NR	860	1	NR	990	0	NR
475	117	NR	605	997	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	978	NR	740	30	NR	870	1	NR	1000	0	NR
485	113	NR	615	945	NR	745	26	NR	875	1	NR			

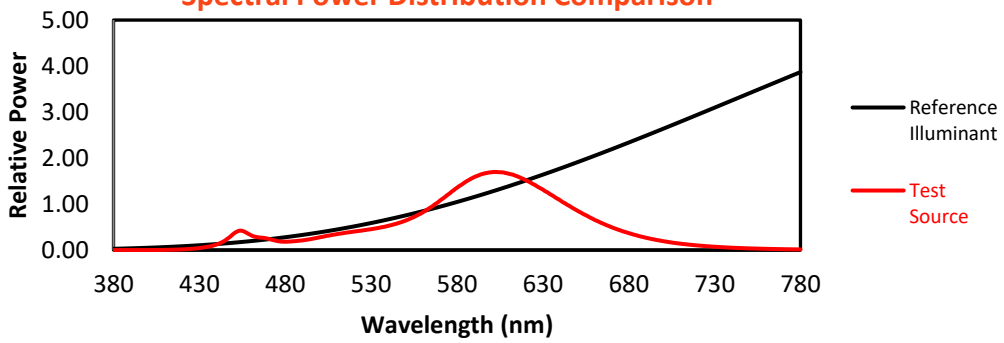
REPORT NUMBER: SP2-2501-321-2

TM-30-18

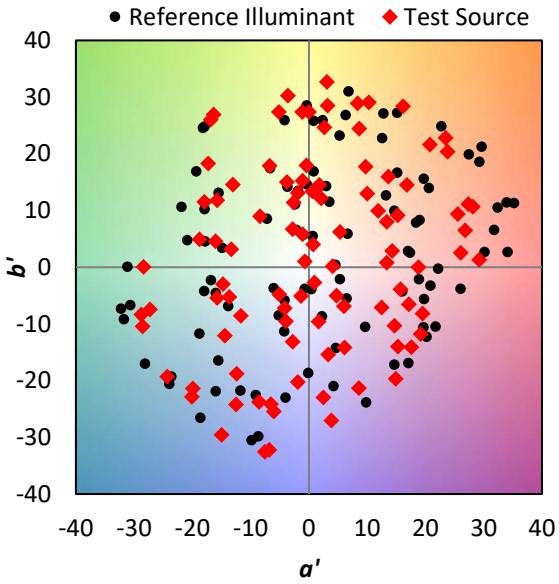
Summary

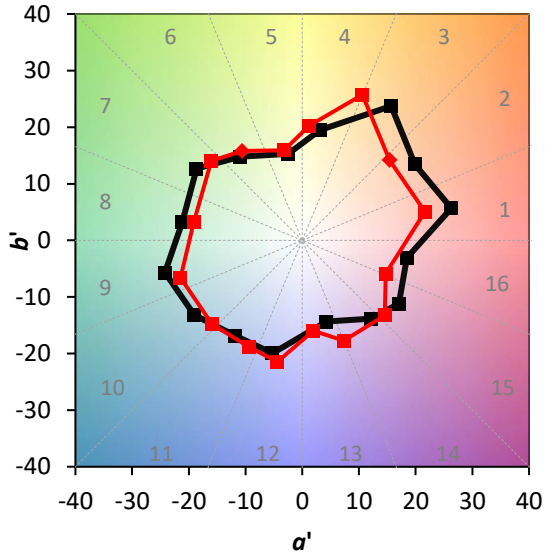
R_f = 76.9
R_g = 92.6
CIE R_a = 70.6
R_9 = -35.1

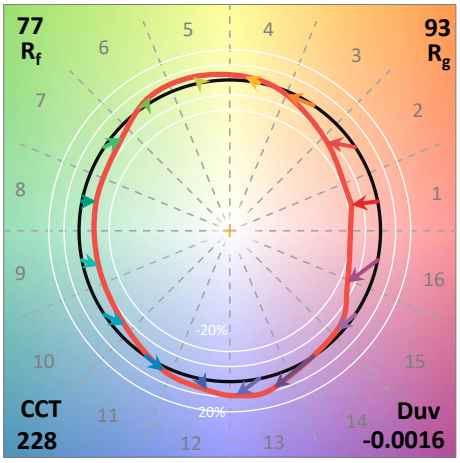
Spectral Power Distribution Comparison

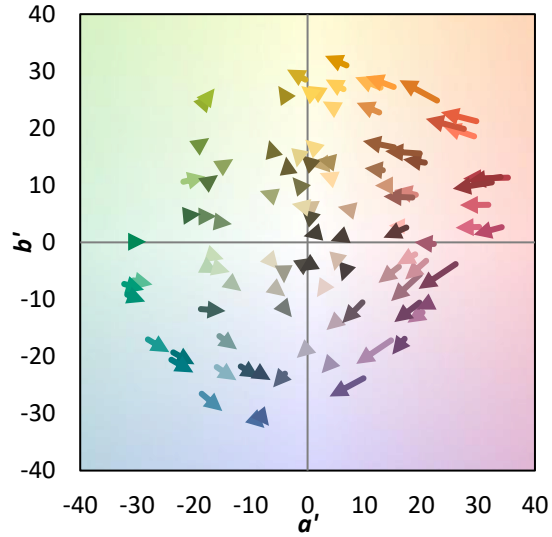


Color Vector Graphics



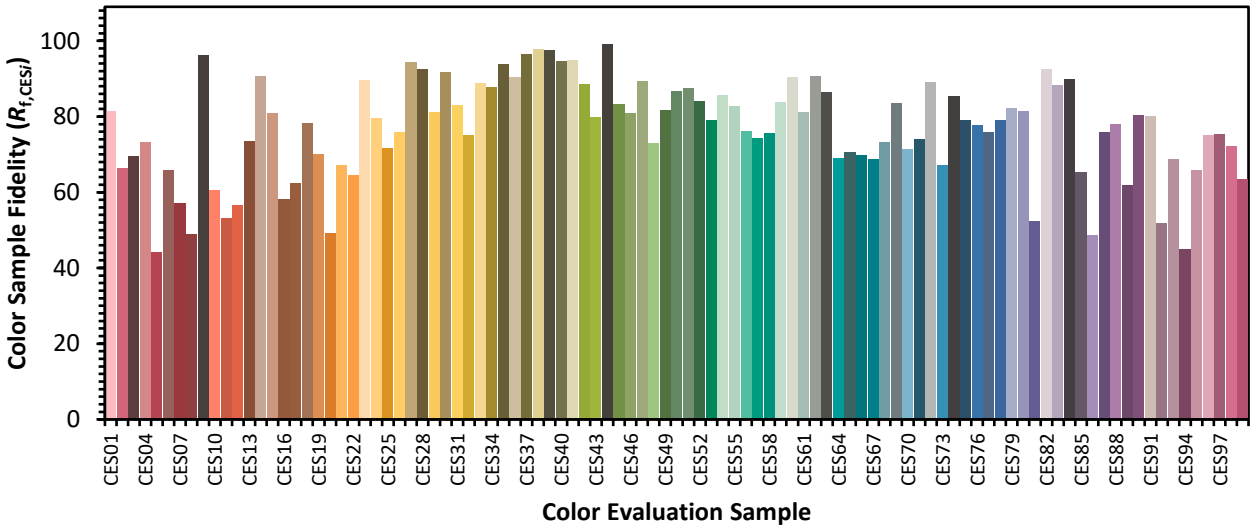




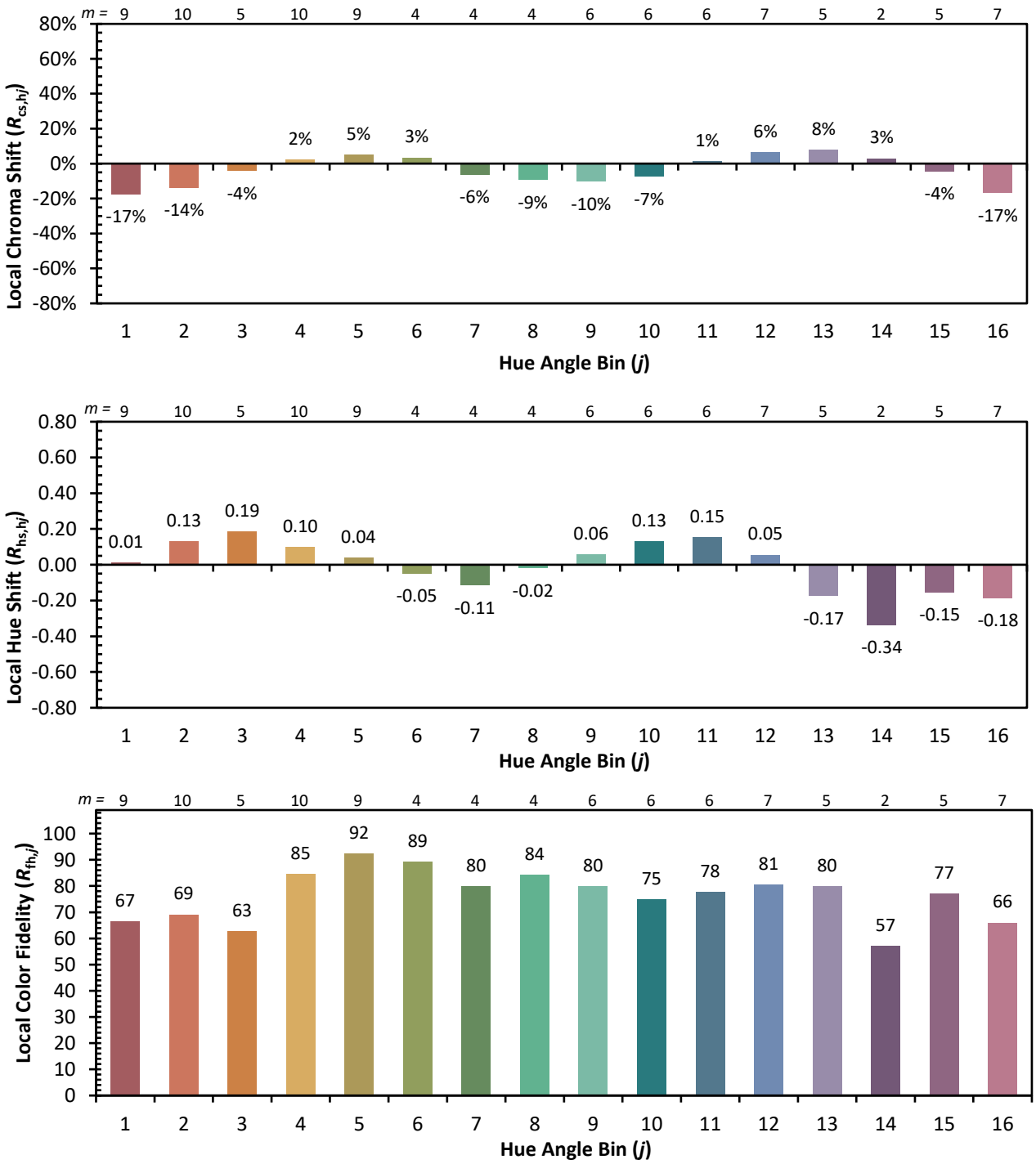


Individual Sample Fidelity Index ($R_{f,i}$)

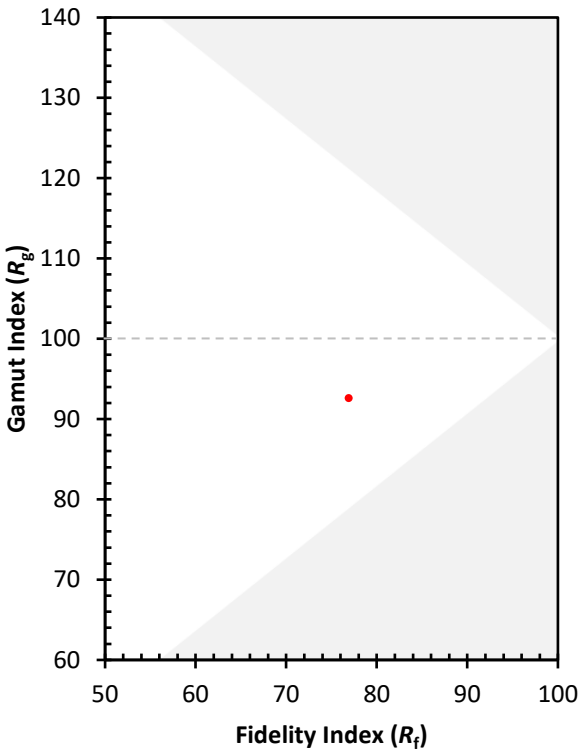
CES01 = 87	CES26 = 76	CES51 = 88	CES76 = 78
CES02 = 65	CES27 = 94	CES52 = 84	CES77 = 76
CES03 = 32	CES28 = 93	CES53 = 79	CES78 = 79
CES04 = 72	CES29 = 81	CES54 = 86	CES79 = 82
CES05 = 51	CES30 = 92	CES55 = 83	CES80 = 81
CES06 = 52	CES31 = 83	CES56 = 76	CES81 = 52
CES07 = 44	CES32 = 75	CES57 = 74	CES82 = 92
CES08 = 42	CES33 = 89	CES58 = 76	CES83 = 88
CES09 = 29	CES34 = 88	CES59 = 84	CES84 = 90
CES10 = 79	CES35 = 94	CES60 = 91	CES85 = 65
CES11 = 62	CES36 = 90	CES61 = 81	CES86 = 49
CES12 = 68	CES37 = 96	CES62 = 91	CES87 = 76
CES13 = 44	CES38 = 98	CES63 = 86	CES88 = 78
CES14 = 75	CES39 = 98	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 95	CES65 = 71	CES90 = 80
CES16 = 48	CES41 = 95	CES66 = 70	CES91 = 80
CES17 = 51	CES42 = 89	CES67 = 69	CES92 = 52
CES18 = 57	CES43 = 80	CES68 = 73	CES93 = 69
CES19 = 74	CES44 = 99	CES69 = 84	CES94 = 45
CES20 = 68	CES45 = 83	CES70 = 71	CES95 = 66
CES21 = 88	CES46 = 81	CES71 = 74	CES96 = 75
CES22 = 81	CES47 = 89	CES72 = 89	CES97 = 75
CES23 = 92	CES48 = 73	CES73 = 67	CES98 = 72
CES24 = 92	CES49 = 82	CES74 = 85	CES99 = 64
CES25 = 73	CES50 = 87	CES75 = 79	

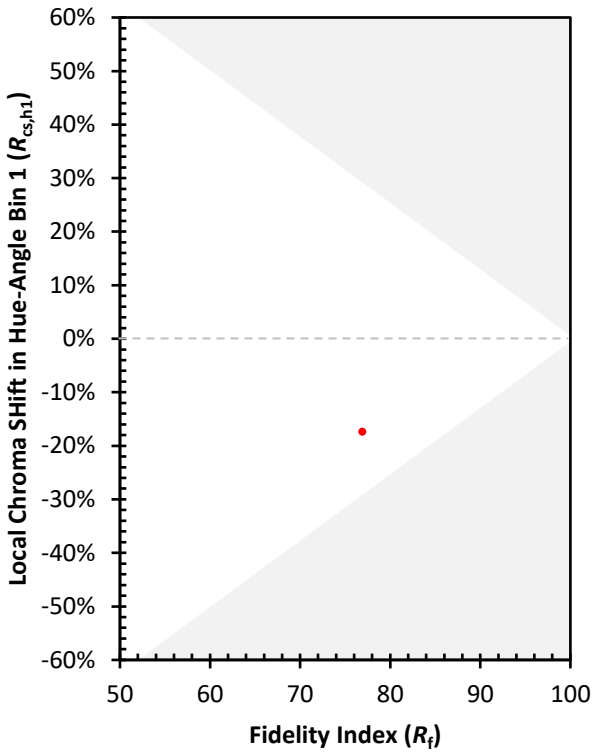


Color Rendition by Hue-Angle Bin



Measure Comparisons





(END OF REPORT)