

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: LUMARK

Report Number: P895741

Luminaire Tested: **CLCS15S-PC-5000K-100%**

Issue Date: 11/14/2024

Test Information

Test Method: LM-79-08
Report Number: P895741
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/14/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: CLCS15S-PC-5000K-100%
Description: LUMARK SMALL LED CANOPY 8000LM, 60W, PC 80 CRI 5000K FIXTURE @ 100%
OUTPUT
Light Source: 5000K CCT,80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8082.2 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.8' x L: 0.8' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U3 - G2

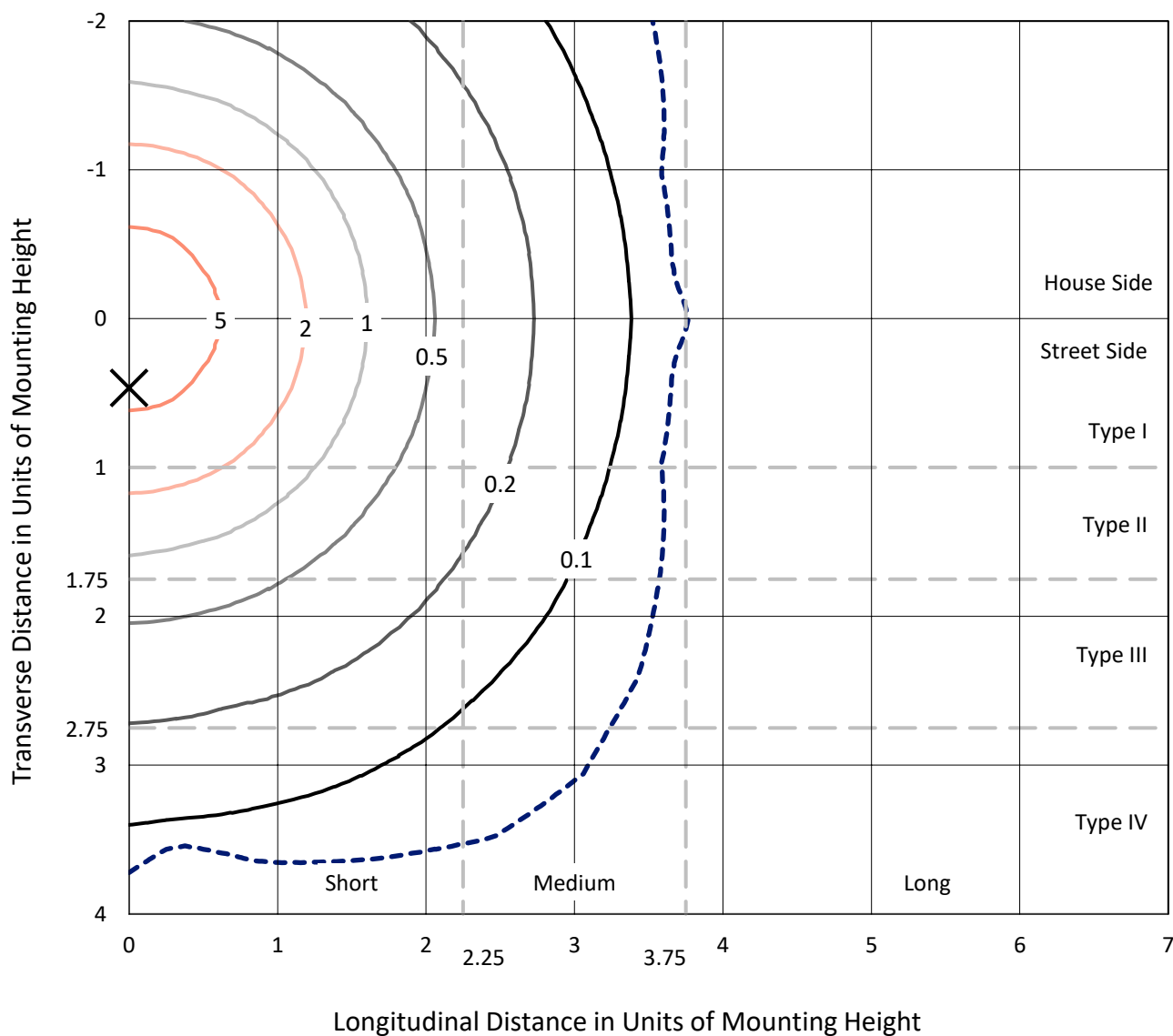
Input Watts (W): 59.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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CATALOG NUMBER: CLCS15S-PC-5000K-100%

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

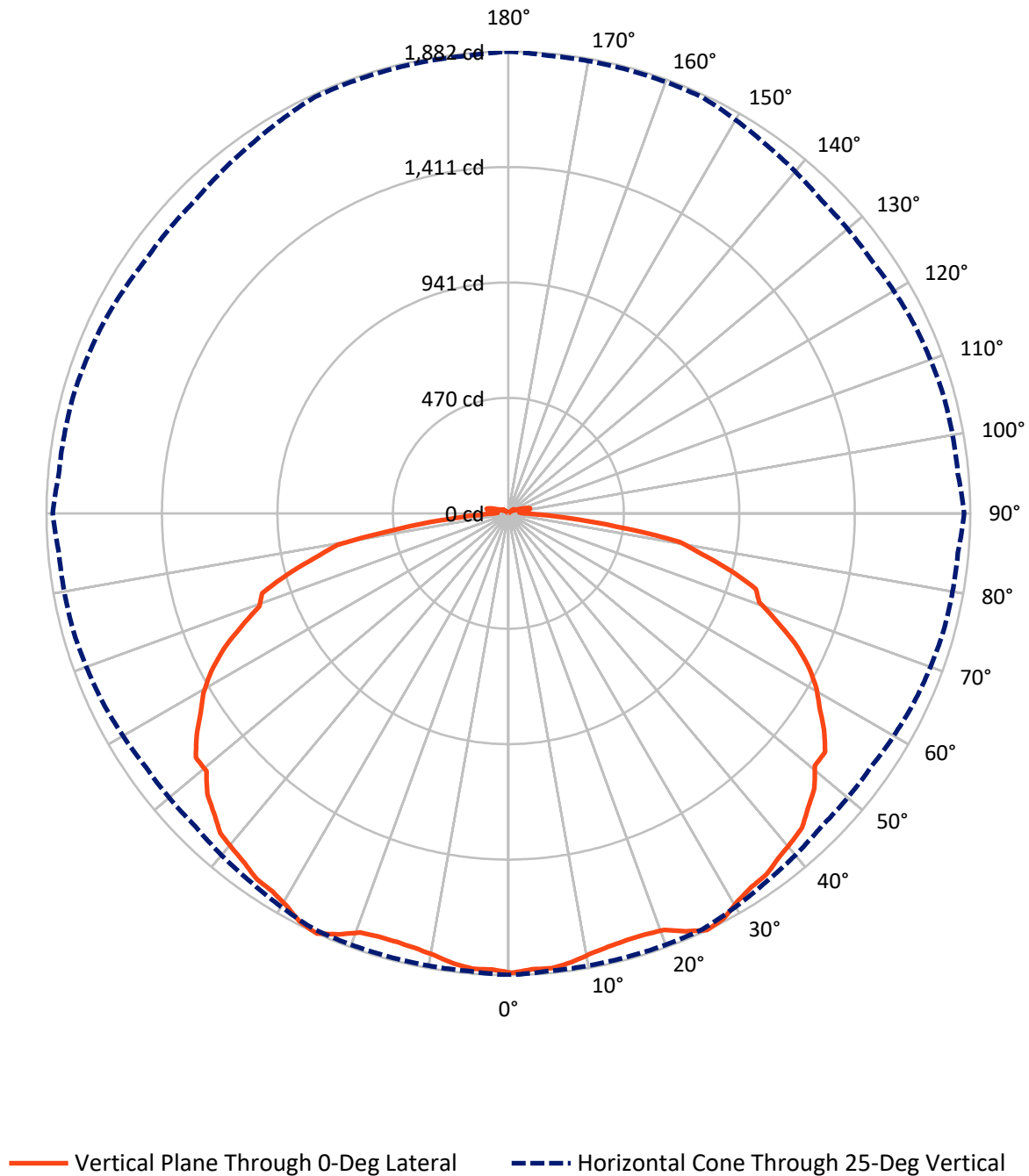


Based on 15 foot mounting height. Maximum calculated value = 8.3 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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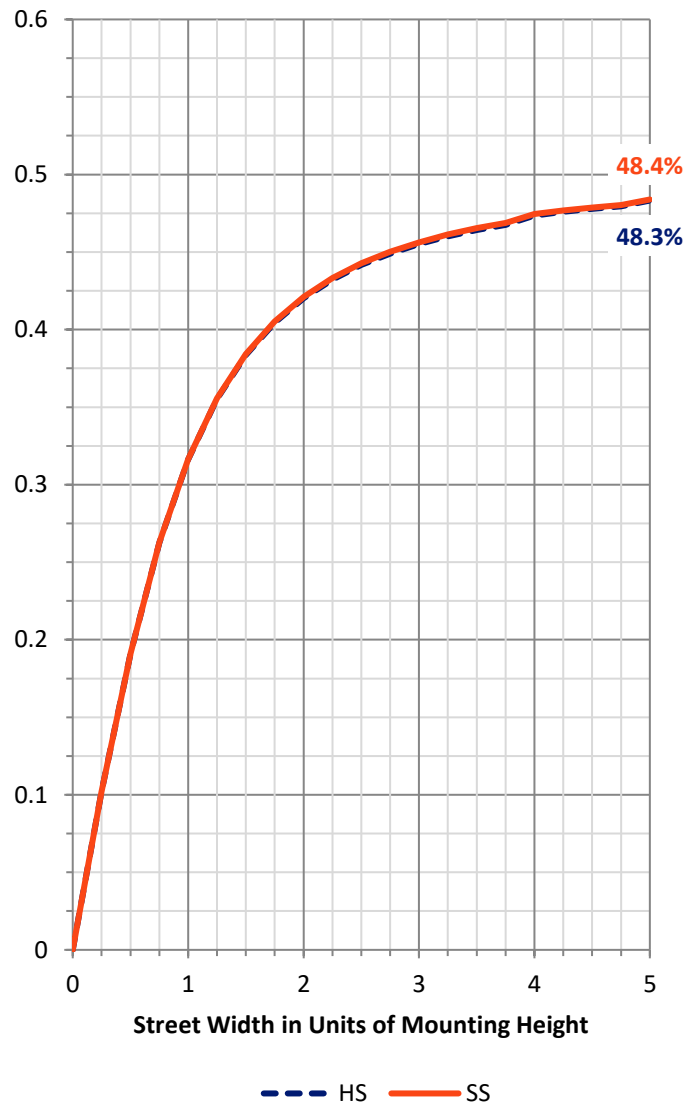
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3961.7	79.4	4041.1
	% Fixture	49.0	1.0	50.0
Street Side	Lumens	3961.7	79.4	4041.1
	% Fixture	49.0	1.0	50.0
Total	Lumens	7923.4	158.8	8082.2
	% Fixture	98.0	2.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.2	2.2
10°-20°	513.7	6.4
20°-30°	844.7	10.5
30°-40°	1119.9	13.9
40°-50°	1324.7	16.4
50°-60°	1393.5	17.2
60°-70°	1274.4	15.8
70°-80°	984.0	12.2
80°-90°	291.2	3.6
90°-100°	55.5	0.7
100°-110°	61.6	0.8
110°-120°	24.1	0.3
120°-130°	13.2	0.2
130°-140°	3.9	0.0
140°-150°	0.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7923.4	98.0
0°-180°	8082.2	100.0



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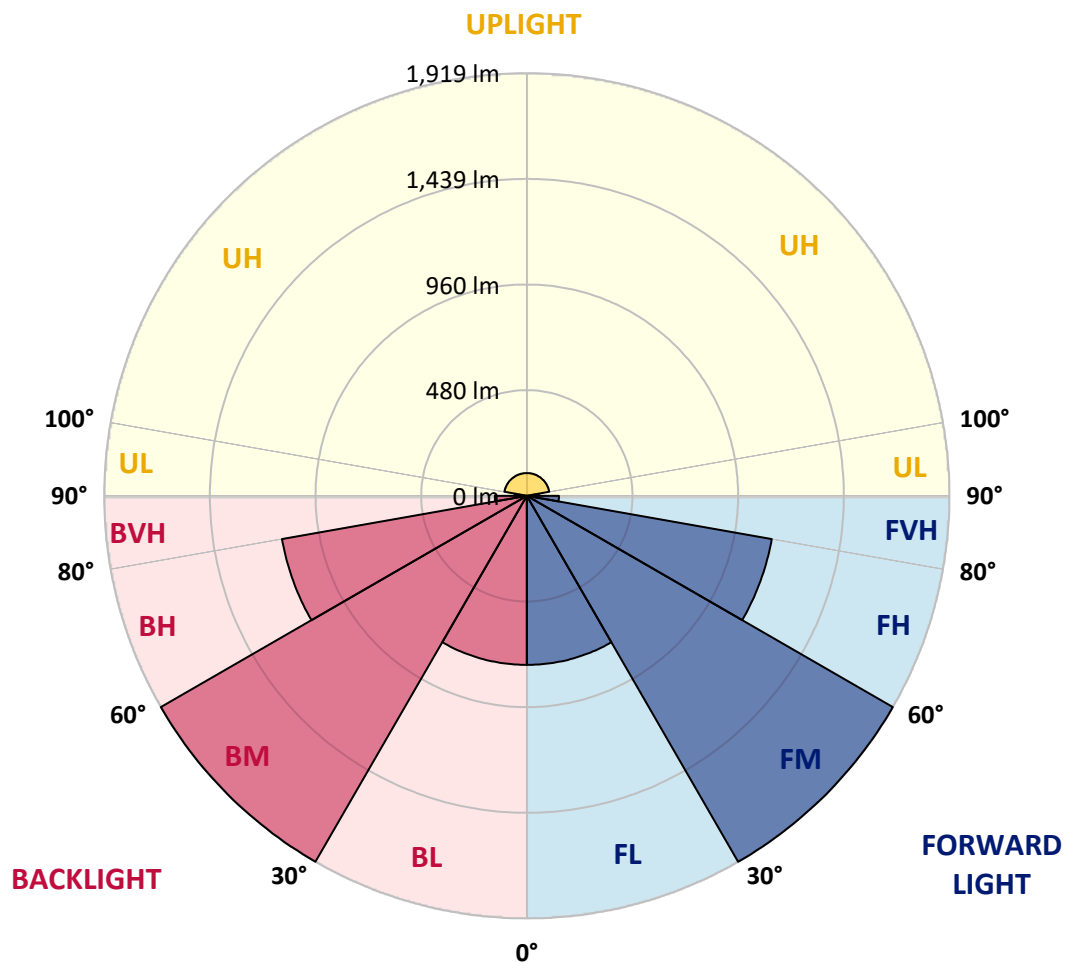
CATALOG NUMBER: CLCS15S-PC-5000K-100%

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	767.8	9.5			
FM	(30°-60°)	1919.1	23.7			
FH	(60°-80°)	1129.2	14.0			G1/1800
FVH	(80°-90°)	145.6	1.8			G2/225
BL	(0°-30°)	767.8	9.5	B2/1000		
BM	(30°-60°)	1919.1	23.7	B2/2500		
BH	(60°-80°)	1129.2	14.0	B3/2500		G1/1800
BVH	(80°-90°)	145.6	1.8			G2/225
UL	(90°-100°)	55.5	0.7		U3/500	
UH	(100°-180°)	103.4	1.3		U3/500	

BUG Rating: B3-U3-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6
2.5°	1860.5	1861.5	1863.5	1867.5	1865.5	1866.5	1866.5	1863.5	1867.5	1866.5	1872.6
5°	1861.5	1861.5	1861.5	1866.5	1866.5	1867.5	1869.5	1869.5	1871.6	1872.6	1876.6
7.5°	1847.4	1849.4	1847.4	1851.4	1852.4	1857.5	1859.5	1858.5	1862.5	1862.5	1870.6
10°	1826.1	1827.1	1827.1	1831.2	1835.3	1841.3	1841.3	1840.3	1842.3	1841.3	1847.4
12.5°	1812.0	1812.0	1811.0	1817.1	1821.1	1825.1	1826.1	1827.1	1830.1	1834.3	1840.3
15°	1805.0	1805.0	1804.0	1812.0	1811.0	1811.0	1815.0	1819.1	1819.1	1822.1	1831.2
17.5°	1804.0	1800.9	1790.9	1801.9	1798.9	1797.9	1800.9	1799.9	1808.0	1809.0	1812.0
20°	1812.0	1808.0	1807.0	1810.0	1797.9	1794.9	1797.9	1795.9	1800.9	1802.9	1813.0
22.5°	1850.4	1848.4	1838.3	1826.1	1798.9	1785.8	1782.8	1797.9	1815.0	1813.0	1817.1
25°	1881.6	1872.6	1871.6	1870.6	1832.2	1804.0	1802.9	1823.1	1836.3	1838.3	1856.4
27.5°	1869.5	1858.5	1863.5	1865.5	1834.3	1799.9	1787.8	1817.1	1835.3	1851.4	1863.5
30°	1836.3	1828.1	1833.2	1837.3	1819.1	1788.8	1770.7	1794.9	1826.1	1851.4	1846.4
32.5°	1816.0	1816.0	1816.0	1804.0	1793.9	1774.7	1747.5	1789.8	1802.9	1813.0	1821.1
35°	1809.0	1808.0	1808.0	1794.9	1772.7	1758.6	1758.6	1768.7	1780.8	1785.8	1805.0
37.5°	1784.8	1768.7	1782.8	1785.8	1763.7	1756.6	1758.6	1759.6	1775.7	1789.8	1788.8
40°	1768.7	1749.5	1743.5	1749.5	1753.6	1753.6	1746.5	1751.6	1766.7	1773.7	1764.7
42.5°	1753.6	1740.5	1739.5	1730.4	1722.3	1734.4	1726.4	1728.4	1735.4	1751.6	1755.6
45°	1711.3	1709.2	1708.2	1707.2	1686.1	1728.4	1722.3	1711.3	1727.4	1726.4	1755.6
47.5°	1677.0	1688.1	1667.9	1670.0	1691.1	1696.1	1691.1	1684.1	1712.3	1705.2	1736.5
50°	1617.6	1617.6	1628.6	1643.8	1670.0	1662.9	1663.9	1681.0	1676.0	1687.1	1720.3
52.5°	1615.5	1579.3	1567.2	1581.3	1614.5	1633.7	1614.5	1663.9	1606.5	1631.7	1641.7
55°	1560.1	1516.8	1523.9	1531.9	1556.1	1559.1	1607.5	1578.3	1559.1	1584.3	1599.4
57.5°	1494.5	1460.3	1447.2	1488.5	1482.5	1524.9	1518.8	1514.8	1528.9	1526.9	1528.9
60°	1441.1	1409.9	1378.7	1415.0	1451.2	1437.1	1462.3	1479.4	1463.3	1467.3	1459.3
62.5°	1370.6	1369.6	1345.4	1362.6	1357.5	1390.8	1381.7	1401.9	1396.8	1391.8	1403.9
65°	1285.0	1277.9	1273.9	1292.0	1296.1	1296.1	1287.0	1308.2	1304.1	1301.1	1315.2
67.5°	1182.2	1179.2	1183.2	1185.2	1206.4	1208.4	1204.4	1221.5	1219.5	1217.5	1222.5
70°	1083.4	1066.3	1045.1	1102.5	1126.7	1132.7	1117.6	1106.6	1098.5	1087.4	1093.5
72.5°	1054.2	1035.0	1038.0	1076.3	1074.3	1084.4	1060.2	1024.9	1024.9	1012.9	1017.9
75°	935.3	894.0	949.4	994.7	1028.0	1008.8	1019.9	981.6	934.3	930.2	944.3
77.5°	808.2	784.0	785.1	845.6	901.0	918.1	887.9	842.6	804.2	792.1	800.2
80°	708.5	682.3	629.9	608.7	621.8	651.1	626.9	601.7	614.8	629.9	645.0
82.5°	442.4	437.4	452.5	423.3	381.9	367.8	369.9	401.1	404.1	399.1	404.1
85°	240.9	232.8	228.8	219.7	209.7	205.6	200.6	204.6	208.7	198.6	201.6
87.5°	109.8	105.8	111.8	117.9	109.8	107.8	105.8	106.8	106.8	107.8	107.8
90°	58.4	59.4	60.5	59.4	59.4	58.4	57.4	56.4	56.4	58.4	58.4
92.5°	46.3	45.3	42.3	41.3	40.3	40.3	39.3	39.3	40.3	41.3	41.3
95°	44.3	44.3	41.3	39.3	38.3	36.3	37.3	39.3	41.3	43.3	43.3
97.5°	67.5	67.5	63.5	57.4	51.4	46.3	50.4	57.4	61.5	64.5	64.5
100°	86.6	86.6	80.6	69.5	58.4	53.4	57.4	68.5	77.6	81.6	82.6
102.5°	90.7	89.7	81.6	69.5	55.4	49.4	54.4	67.5	79.6	85.6	86.6
105°	79.6	78.6	72.5	59.4	45.3	37.3	45.3	58.4	70.5	76.6	77.6
107.5°	65.5	65.5	60.5	48.4	33.2	26.2	33.2	47.4	58.4	62.5	64.5
110°	49.4	48.4	44.3	35.3	24.2	18.1	23.2	35.3	43.3	47.4	48.4



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CATALOG NUMBER: CLCS15S-PC-5000K-100%

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	39.3	39.3	35.3	28.2	17.1	13.1	17.1	27.2	34.3	37.3	37.3
115°	33.2	33.2	30.2	22.2	14.1	11.1	14.1	22.2	29.2	31.2	31.2
117.5°	26.2	27.2	26.2	20.2	12.1	8.1	12.1	18.1	24.2	26.2	25.2
120°	21.2	22.2	24.2	19.1	11.1	7.1	11.1	18.1	22.2	21.2	21.2
122.5°	20.2	20.2	25.2	19.1	12.1	6.0	10.1	17.1	23.2	20.2	19.1
125°	28.2	28.2	24.2	15.1	7.1	5.0	6.0	13.1	22.2	25.2	25.2
127.5°	22.2	22.2	18.1	10.1	5.0	4.0	5.0	10.1	16.1	20.2	21.2
130°	17.1	16.1	12.1	7.1	4.0	3.0	4.0	7.1	10.1	13.1	14.1
132.5°	9.1	9.1	8.1	6.0	3.0	2.0	3.0	6.0	8.1	9.1	9.1
135°	7.1	7.1	6.0	5.0	3.0	1.0	3.0	5.0	6.0	7.1	7.1
137.5°	6.0	6.0	5.0	3.0	1.0	1.0	1.0	3.0	5.0	6.0	6.0
140°	4.0	4.0	4.0	2.0	1.0	1.0	1.0	2.0	3.0	4.0	4.0
142.5°	3.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0
145°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

Lumark

Report Number: SP1-2405-118-3

Test Date: 07/18/2024

Luminaire Tested: CLCS40S-5000K-HIGH

Data in this report applies to families of products including CLCS40S-5000K-HIGH

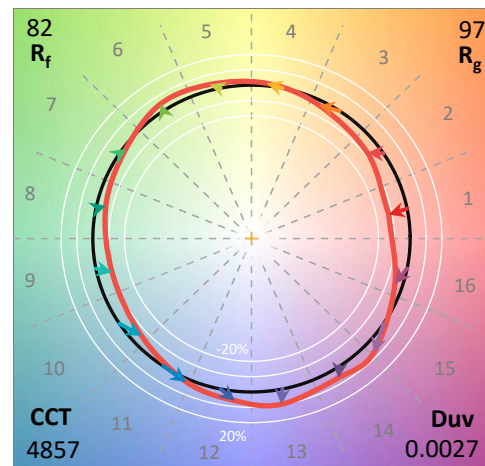
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2405-118-3
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/18/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Lumark
 Catalog Number: **CLCS40S-5000K-HIGH**
 Description: 120W LUMARK AP CANOPY SELECTABLE FIXTURE HIGHEST OUTPUT @5000K

Spectral Parameters

CCT (K): 4857
 CIE u' : 0.2111
 CIE v' : 0.4898
 Duv: 0.0027
 CIE x: 0.3499
 CIE y: 0.3609
 CIE z: 0.2892
 Peak Wavelength (nm): 451
 Dominant Wavelength (nm): 572
 Purity: 13.28172
 Rf: 82.4
 Rg: 96.8

CRI (Ra): 81.9
 R1: 80.4
 R2: 86.0
 R3: 89.7
 R4: 82.2
 R5: 80.0
 R6: 80.1
 R7: 88.2
 R8: 68.4
 R9: 8.5
 R10: 66.0
 R11: 80.6
 R12: 52.5
 R13: 81.8
 R14: 94.3
 R15: 74.7



Test Conditions

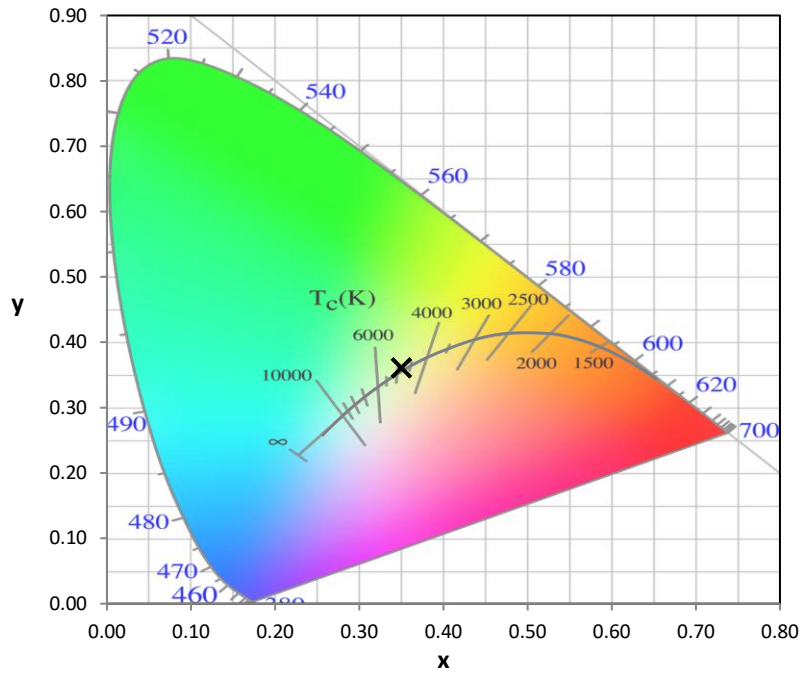
Stabilization Time: 72M
 Operation Time: 2H 12M
 Sphere Temperature (°C): 24.0

REPORT NUMBER: SP1-2405-118-3

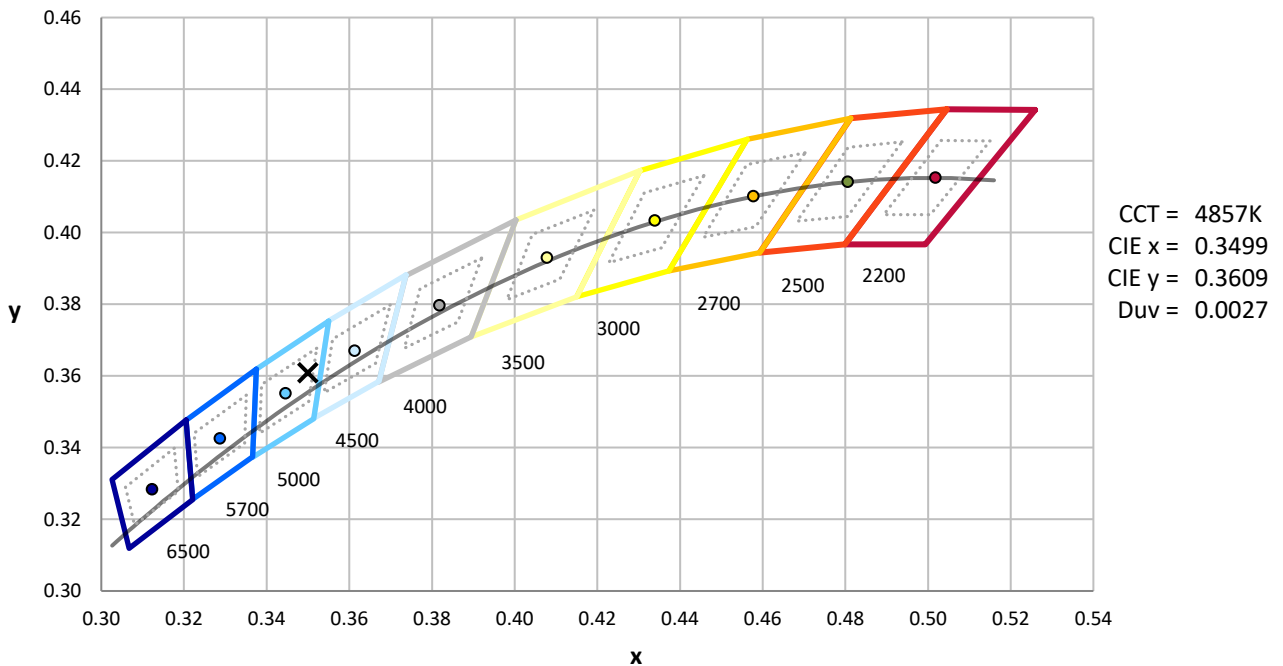
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



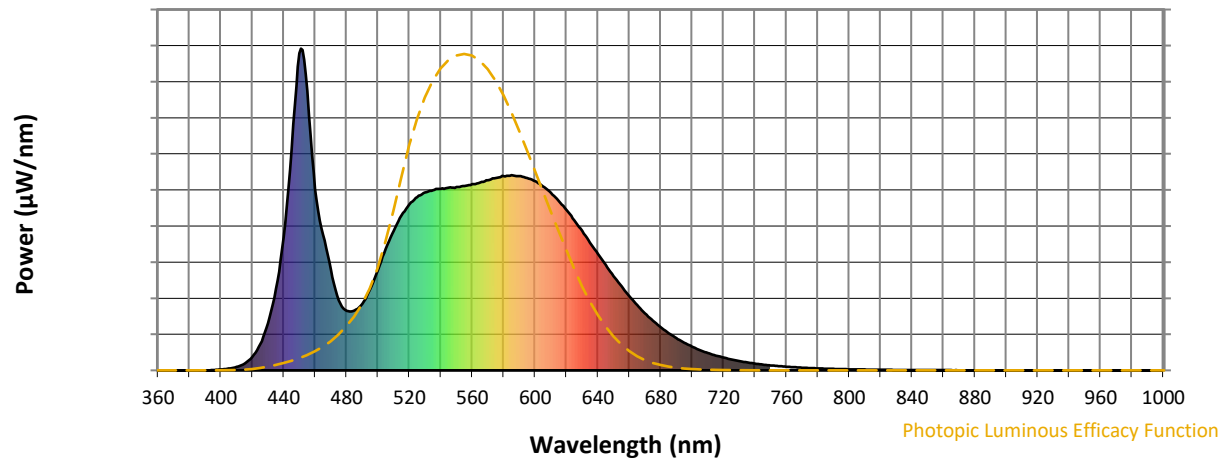
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

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Photopic Flux vs. Wavelength

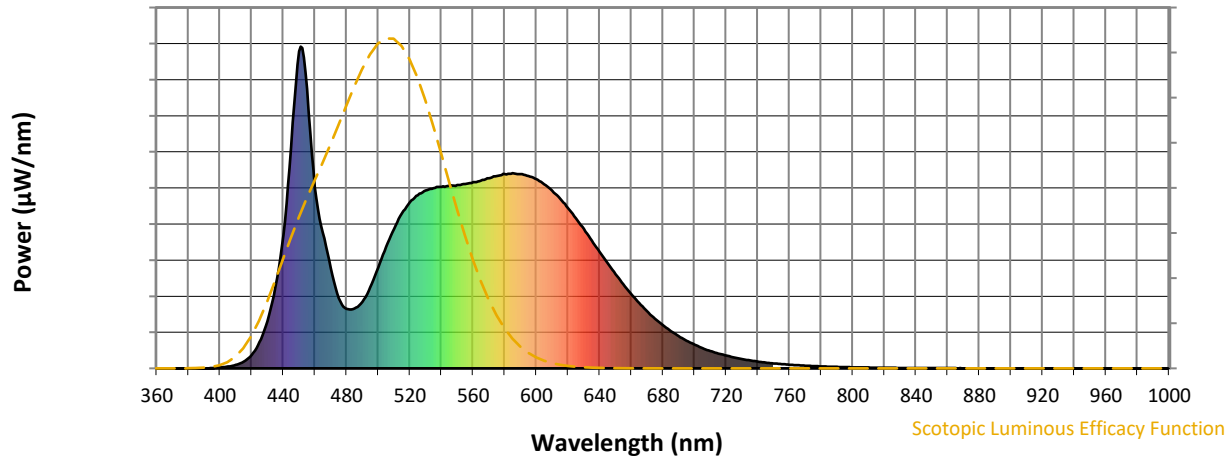


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	207	NR	620	498	NR	750	15	NR	880	0	NR
365	0	NR	495	252	NR	625	467	NR	755	13	NR	885	0	NR
370	0	NR	500	313	NR	630	433	NR	760	11	NR	890	0	NR
375	0	NR	505	378	NR	635	397	NR	765	10	NR	895	0	NR
380	0	NR	510	433	NR	640	362	NR	770	8	NR	900	0	NR
385	0	NR	515	481	NR	645	327	NR	775	7	NR	905	0	NR
390	0	NR	520	516	NR	650	293	NR	780	6	NR	910	0	NR
395	1	NR	525	538	NR	655	261	NR	785	5	NR	915	0	NR
400	3	NR	530	553	NR	660	231	NR	790	5	NR	920	0	NR
405	6	NR	535	560	NR	665	203	NR	795	4	NR	925	0	NR
410	11	NR	540	564	NR	670	177	NR	800	3	NR	930	0	NR
415	21	NR	545	568	NR	675	154	NR	805	3	NR	935	0	NR
420	42	NR	550	570	NR	680	134	NR	810	3	NR	940	0	NR
425	82	NR	555	573	NR	685	116	NR	815	2	NR	945	0	NR
430	146	NR	560	579	NR	690	100	NR	820	2	NR	950	0	NR
435	253	NR	565	584	NR	695	86	NR	825	2	NR	955	0	NR
440	414	NR	570	591	NR	700	73	NR	830	1	NR	960	0	NR
445	689	NR	575	598	NR	705	63	NR	835	1	NR	965	0	NR
450	986	NR	580	604	NR	710	54	NR	840	1	NR	970	0	NR
455	868	NR	585	607	NR	715	46	NR	845	1	NR	975	0	NR
460	563	NR	590	604	NR	720	40	NR	850	1	NR	980	0	NR
465	421	NR	595	598	NR	725	34	NR	855	1	NR	985	0	NR
470	311	NR	600	588	NR	730	29	NR	860	1	NR	990	0	NR
475	218	NR	605	572	NR	735	25	NR	865	1	NR	995	0	NR
480	185	NR	610	552	NR	740	21	NR	870	0	NR	1000	0	NR
485	186	NR	615	527	NR	745	18	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



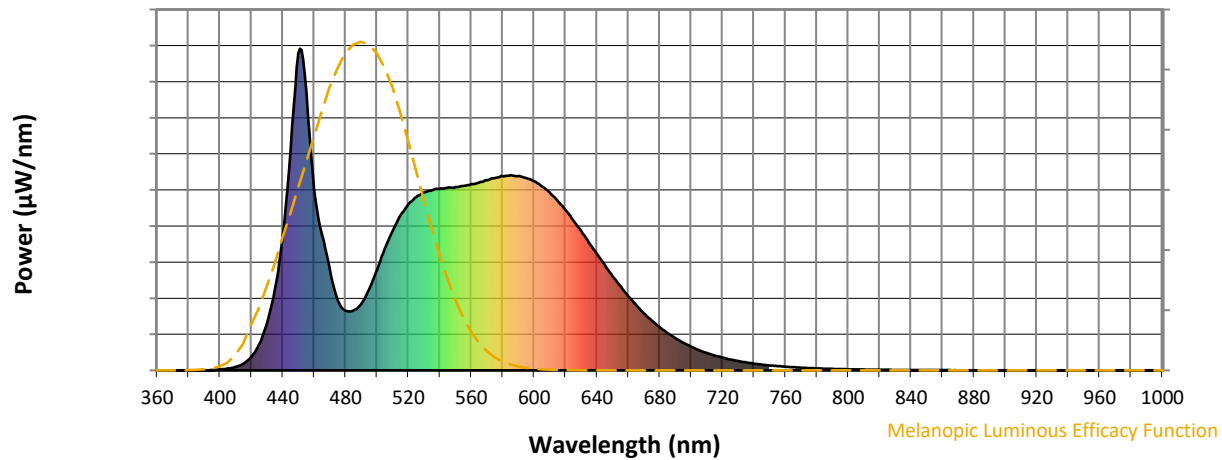
Scotopic Lumens: NR

S/P: 1.88

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	207	NR	620	498	NR	750	15	NR	880	0	NR
365	0	NR	495	252	NR	625	467	NR	755	13	NR	885	0	NR
370	0	NR	500	313	NR	630	433	NR	760	11	NR	890	0	NR
375	0	NR	505	378	NR	635	397	NR	765	10	NR	895	0	NR
380	0	NR	510	433	NR	640	362	NR	770	8	NR	900	0	NR
385	0	NR	515	481	NR	645	327	NR	775	7	NR	905	0	NR
390	0	NR	520	516	NR	650	293	NR	780	6	NR	910	0	NR
395	1	NR	525	538	NR	655	261	NR	785	5	NR	915	0	NR
400	3	NR	530	553	NR	660	231	NR	790	5	NR	920	0	NR
405	6	NR	535	560	NR	665	203	NR	795	4	NR	925	0	NR
410	11	NR	540	564	NR	670	177	NR	800	3	NR	930	0	NR
415	21	NR	545	568	NR	675	154	NR	805	3	NR	935	0	NR
420	42	NR	550	570	NR	680	134	NR	810	3	NR	940	0	NR
425	82	NR	555	573	NR	685	116	NR	815	2	NR	945	0	NR
430	146	NR	560	579	NR	690	100	NR	820	2	NR	950	0	NR
435	253	NR	565	584	NR	695	86	NR	825	2	NR	955	0	NR
440	414	NR	570	591	NR	700	73	NR	830	1	NR	960	0	NR
445	689	NR	575	598	NR	705	63	NR	835	1	NR	965	0	NR
450	986	NR	580	604	NR	710	54	NR	840	1	NR	970	0	NR
455	868	NR	585	607	NR	715	46	NR	845	1	NR	975	0	NR
460	563	NR	590	604	NR	720	40	NR	850	1	NR	980	0	NR
465	421	NR	595	598	NR	725	34	NR	855	1	NR	985	0	NR
470	311	NR	600	588	NR	730	29	NR	860	1	NR	990	0	NR
475	218	NR	605	572	NR	735	25	NR	865	1	NR	995	0	NR
480	185	NR	610	552	NR	740	21	NR	870	0	NR	1000	0	NR
485	186	NR	615	527	NR	745	18	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.92

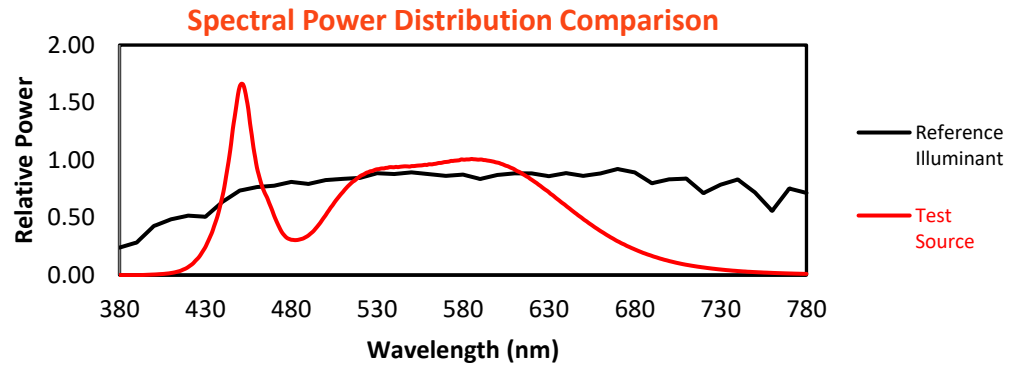
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	207	NR	620	498	NR	750	15	NR	880	0	NR
365	0	NR	495	252	NR	625	467	NR	755	13	NR	885	0	NR
370	0	NR	500	313	NR	630	433	NR	760	11	NR	890	0	NR
375	0	NR	505	378	NR	635	397	NR	765	10	NR	895	0	NR
380	0	NR	510	433	NR	640	362	NR	770	8	NR	900	0	NR
385	0	NR	515	481	NR	645	327	NR	775	7	NR	905	0	NR
390	0	NR	520	516	NR	650	293	NR	780	6	NR	910	0	NR
395	1	NR	525	538	NR	655	261	NR	785	5	NR	915	0	NR
400	3	NR	530	553	NR	660	231	NR	790	5	NR	920	0	NR
405	6	NR	535	560	NR	665	203	NR	795	4	NR	925	0	NR
410	11	NR	540	564	NR	670	177	NR	800	3	NR	930	0	NR
415	21	NR	545	568	NR	675	154	NR	805	3	NR	935	0	NR
420	42	NR	550	570	NR	680	134	NR	810	3	NR	940	0	NR
425	82	NR	555	573	NR	685	116	NR	815	2	NR	945	0	NR
430	146	NR	560	579	NR	690	100	NR	820	2	NR	950	0	NR
435	253	NR	565	584	NR	695	86	NR	825	2	NR	955	0	NR
440	414	NR	570	591	NR	700	73	NR	830	1	NR	960	0	NR
445	689	NR	575	598	NR	705	63	NR	835	1	NR	965	0	NR
450	986	NR	580	604	NR	710	54	NR	840	1	NR	970	0	NR
455	868	NR	585	607	NR	715	46	NR	845	1	NR	975	0	NR
460	563	NR	590	604	NR	720	40	NR	850	1	NR	980	0	NR
465	421	NR	595	598	NR	725	34	NR	855	1	NR	985	0	NR
470	311	NR	600	588	NR	730	29	NR	860	1	NR	990	0	NR
475	218	NR	605	572	NR	735	25	NR	865	1	NR	995	0	NR
480	185	NR	610	552	NR	740	21	NR	870	0	NR	1000	0	NR
485	186	NR	615	527	NR	745	18	NR	875	0	NR			

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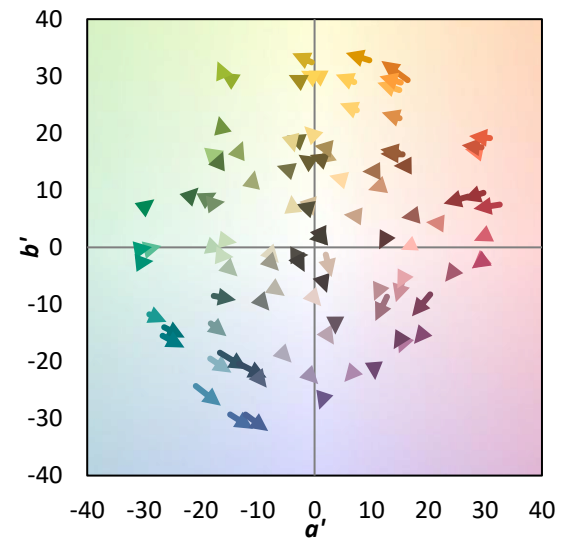
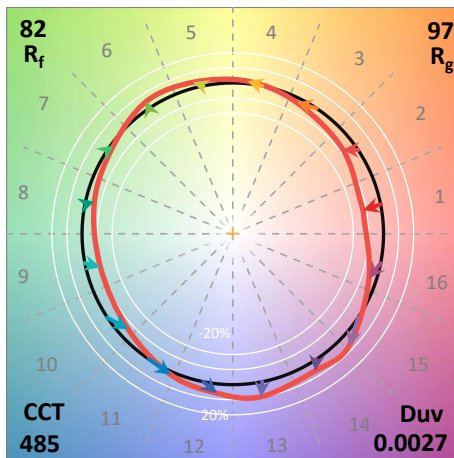
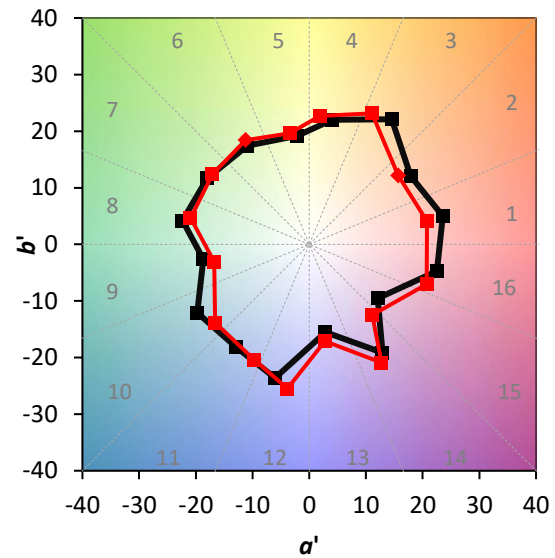
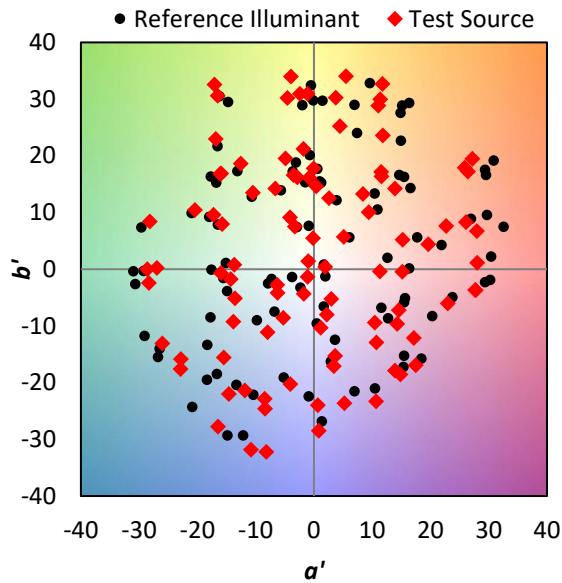
TM-30-18

Summary

$R_f = 82.4$
 $R_g = 96.8$
 $CIE R_a = 81.9$
 $R_9 = 8.5$

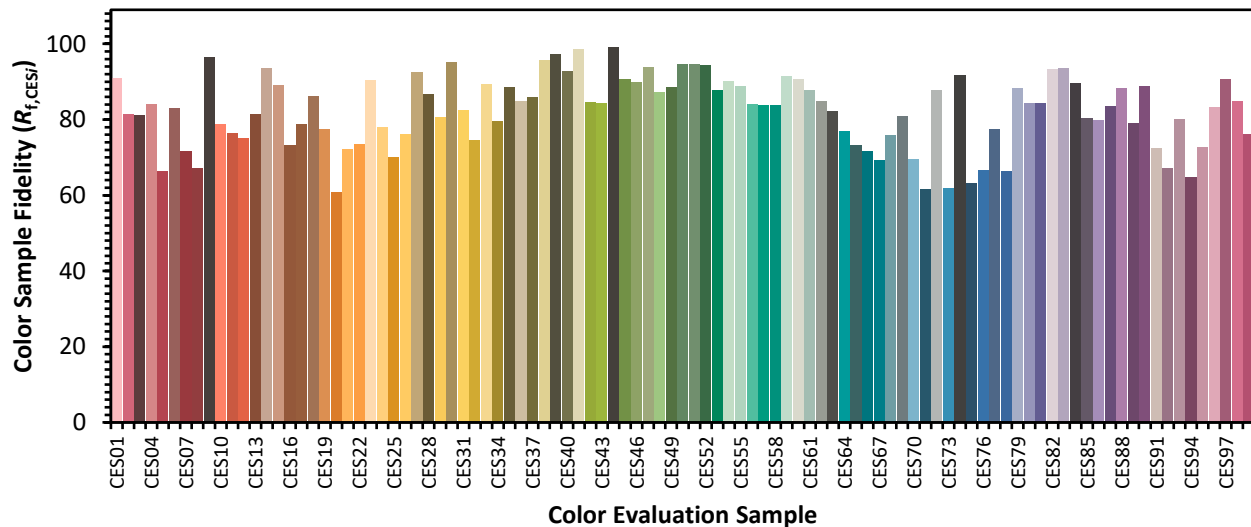


Color Vector Graphics

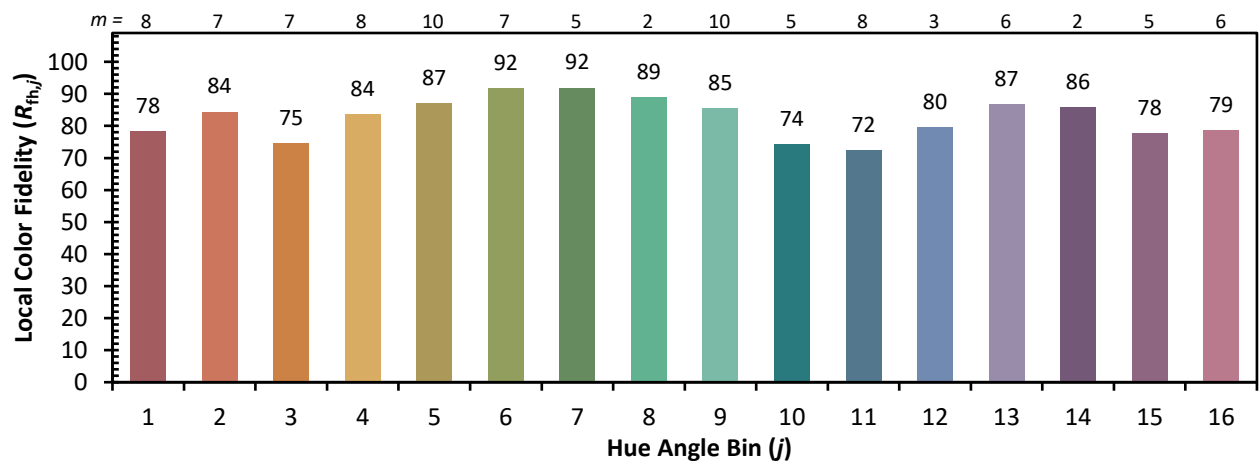
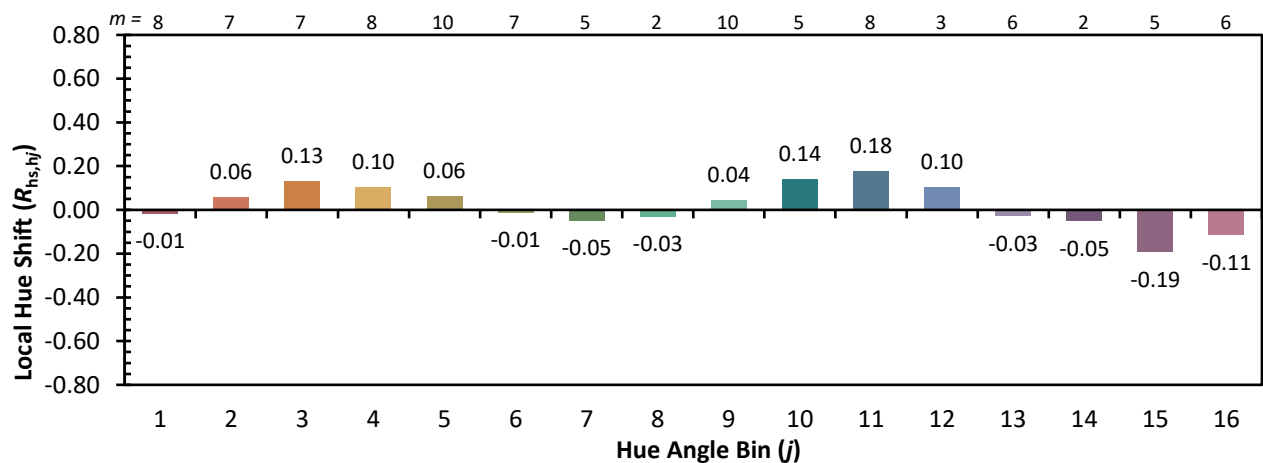
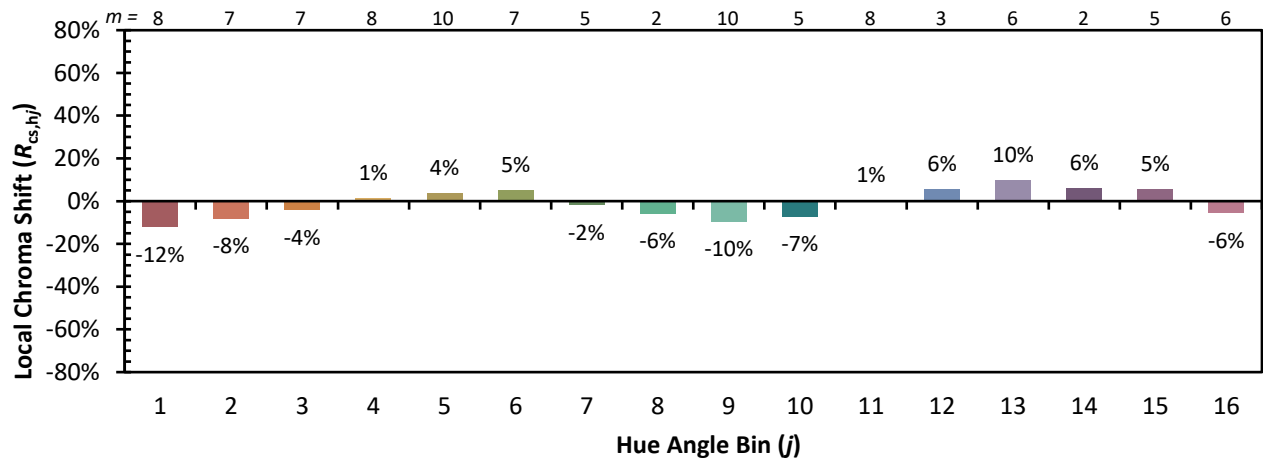


Individual Sample Fidelity Index ($R_{f,i}$)

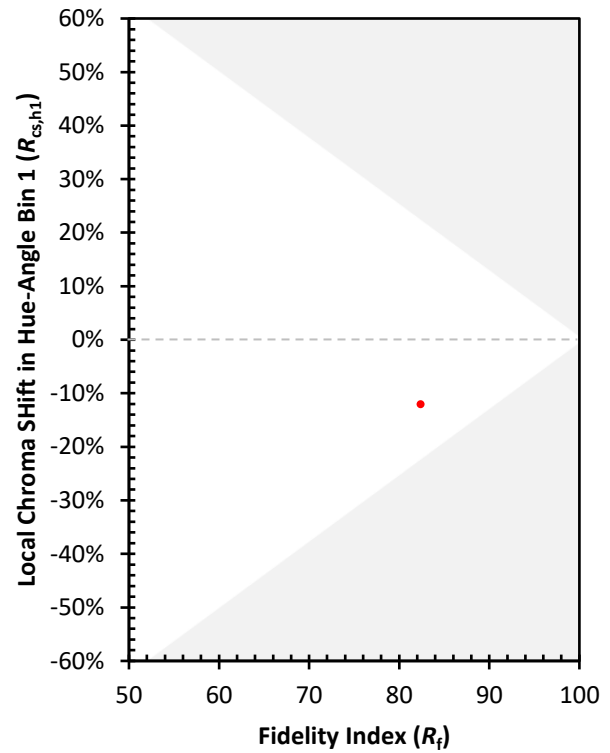
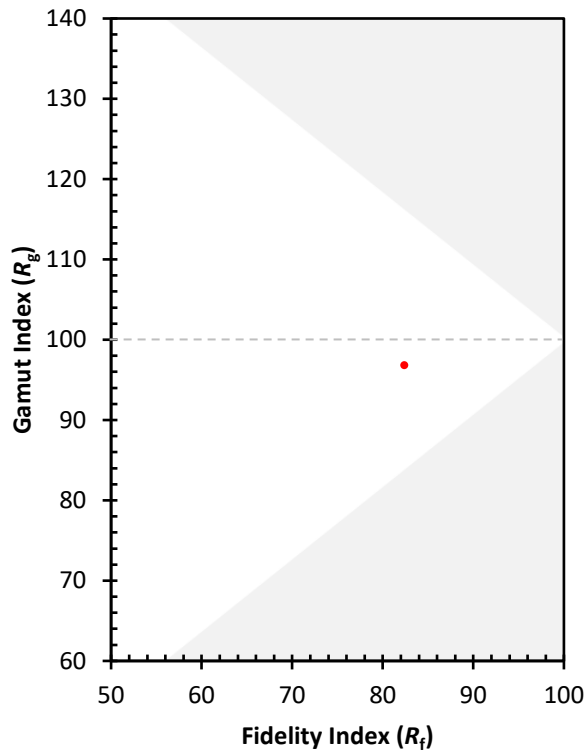
CES01 = 85	CES26 = 76	CES51 = 95	CES76 = 67
CES02 = 60	CES27 = 92	CES52 = 94	CES77 = 77
CES03 = 30	CES28 = 87	CES53 = 88	CES78 = 66
CES04 = 69	CES29 = 81	CES54 = 90	CES79 = 88
CES05 = 47	CES30 = 95	CES55 = 89	CES80 = 84
CES06 = 50	CES31 = 82	CES56 = 84	CES81 = 84
CES07 = 40	CES32 = 74	CES57 = 84	CES82 = 93
CES08 = 39	CES33 = 89	CES58 = 84	CES83 = 94
CES09 = 29	CES34 = 80	CES59 = 91	CES84 = 90
CES10 = 73	CES35 = 88	CES60 = 91	CES85 = 80
CES11 = 56	CES36 = 85	CES61 = 88	CES86 = 80
CES12 = 62	CES37 = 86	CES62 = 85	CES87 = 83
CES13 = 42	CES38 = 96	CES63 = 82	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 77	CES89 = 79
CES15 = 71	CES40 = 93	CES65 = 73	CES90 = 89
CES16 = 46	CES41 = 99	CES66 = 72	CES91 = 73
CES17 = 49	CES42 = 85	CES67 = 69	CES92 = 67
CES18 = 56	CES43 = 84	CES68 = 76	CES93 = 80
CES19 = 71	CES44 = 99	CES69 = 81	CES94 = 65
CES20 = 64	CES45 = 91	CES70 = 70	CES95 = 73
CES21 = 85	CES46 = 90	CES71 = 62	CES96 = 83
CES22 = 77	CES47 = 94	CES72 = 88	CES97 = 91
CES23 = 91	CES48 = 87	CES73 = 62	CES98 = 85
CES24 = 90	CES49 = 88	CES74 = 92	CES99 = 76
CES25 = 71	CES50 = 95	CES75 = 63	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)