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: P821505

Luminaire Tested: **TT-D5-735-12VDC-MQ-HSS**

Issue Date: 12/2/2020

Report Generated By 670245763

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P821505
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-1)
Test Lab:	INNOVATION CENTER
Issue Date:	12/2/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TT-D5-735-12VDC-MQ-HSS
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE
	3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8013.9 lumens
Efficiency:	N/A
Efficacy:	109.8 lumens/watt
Luminous Opening:	Circular (Dia: 1.12' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U2 - G3

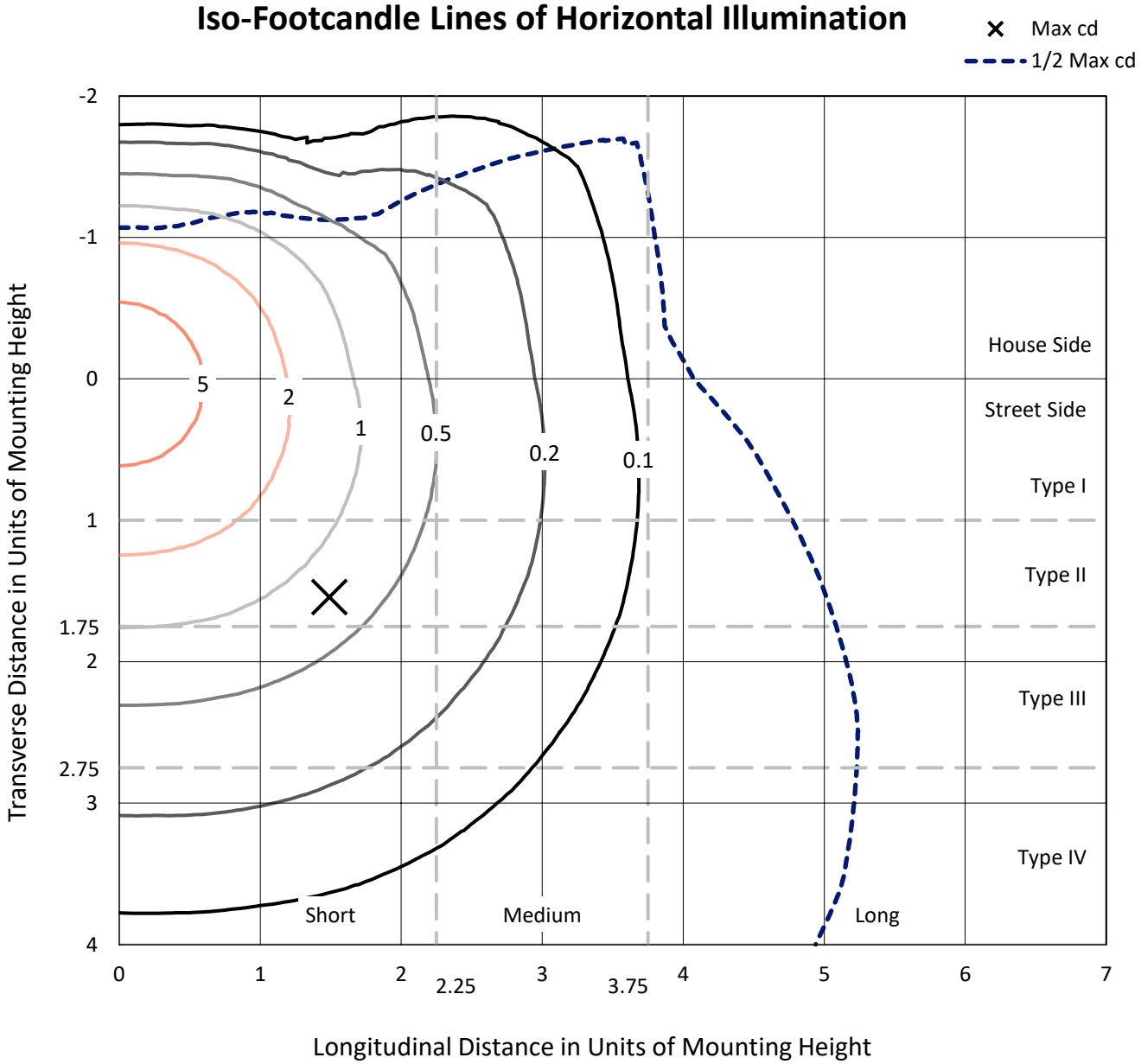
Input Watts (W):	73
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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Iso-Footcandle Lines of Horizontal Illumination



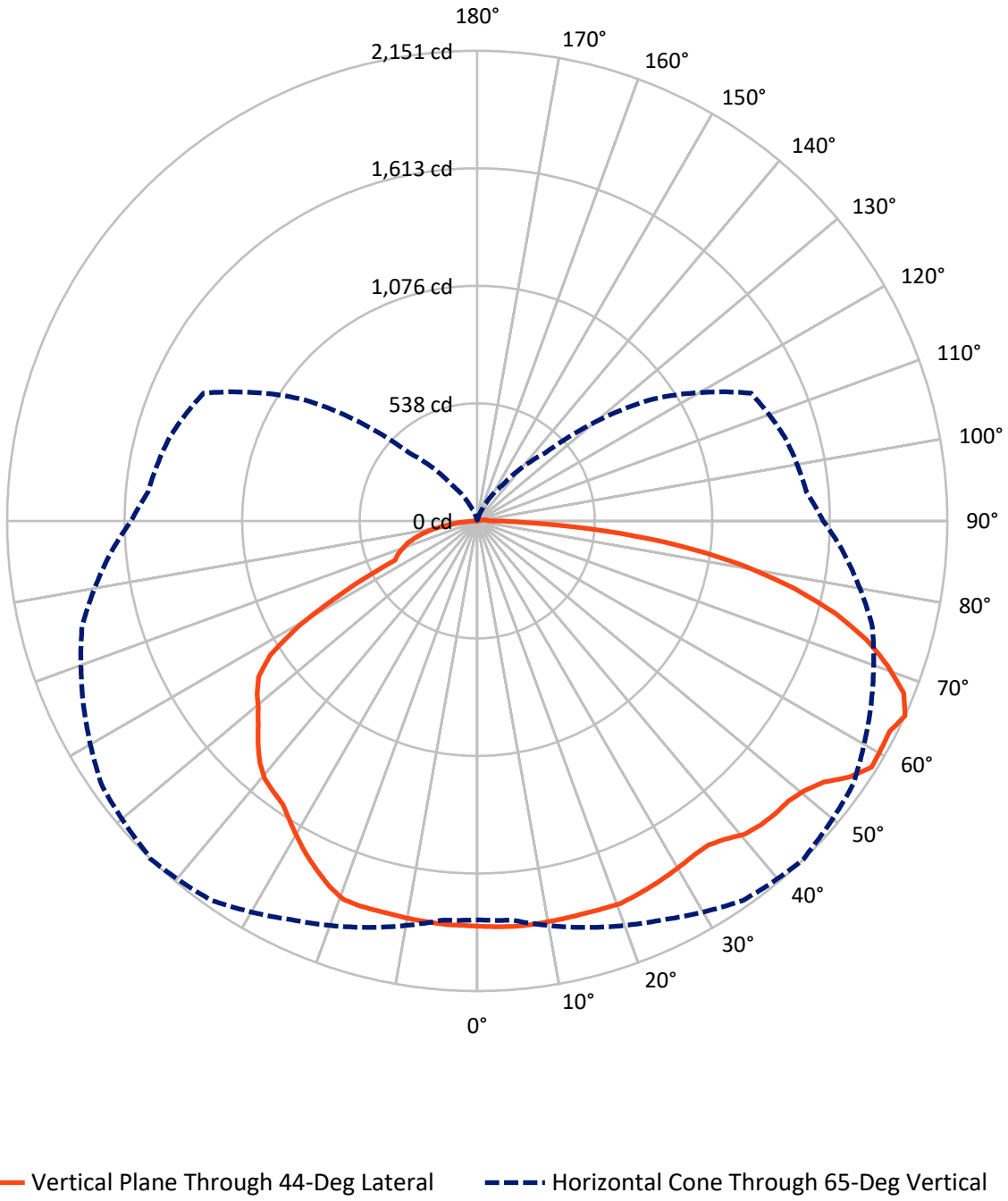
Based on 15 foot mounting height. Maximum calculated value = 8.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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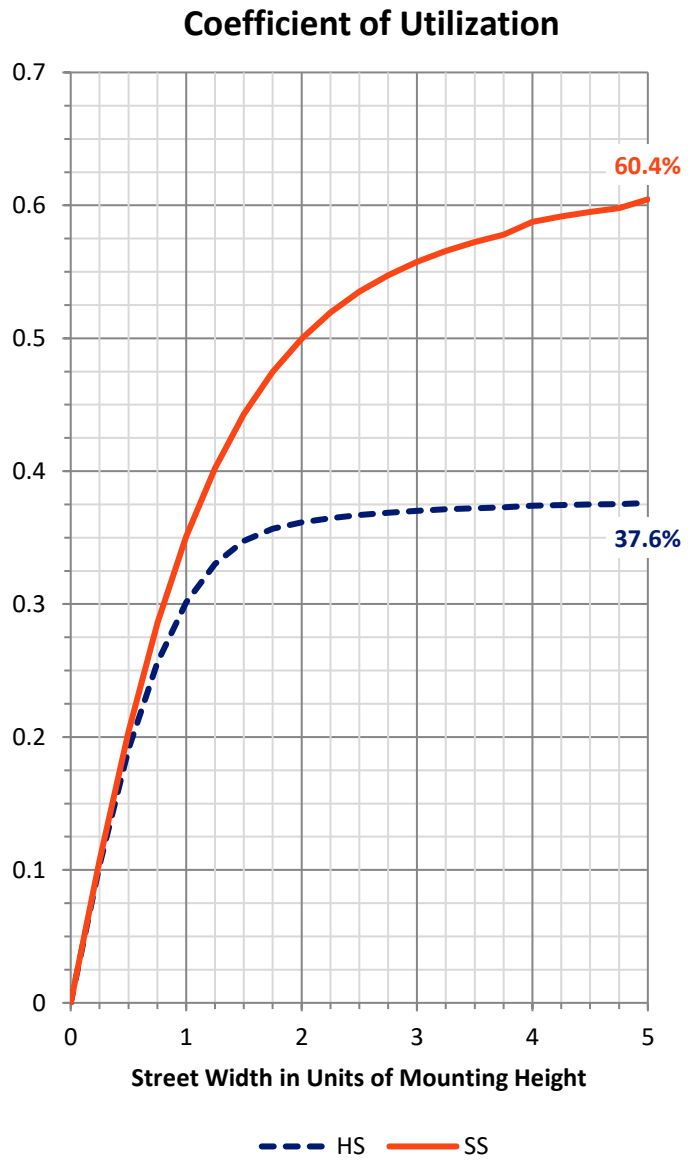
REPORT NUMBER: P821505
CATALOG NUMBER: TT-D5-735-12VDC-MQ-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3034.4	2.1	3036.5
	% Fixture	37.9	0.0	37.9
Street Side	Lumens	4950.2	27.1	4977.4
	% Fixture	61.8	0.3	62.1
Total	Lumens	7984.7	29.2	8013.9
	% Fixture	99.6	0.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.1	2.2
10°-20°	524.4	6.5
20°-30°	834.6	10.4
30°-40°	1069.3	13.3
40°-50°	1266.7	15.8
50°-60°	1387.3	17.3
60°-70°	1318.7	16.5
70°-80°	1049.9	13.1
80°-90°	356.7	4.5
90°-100°	18.8	0.2
100°-110°	6.2	0.1
110°-120°	1.3	0.0
120°-130°	0.8	0.0
130°-140°	0.6	0.0
140°-150°	0.6	0.0
150°-160°	0.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-90°	7984.7	99.6
0°-180°	8013.9	100.0



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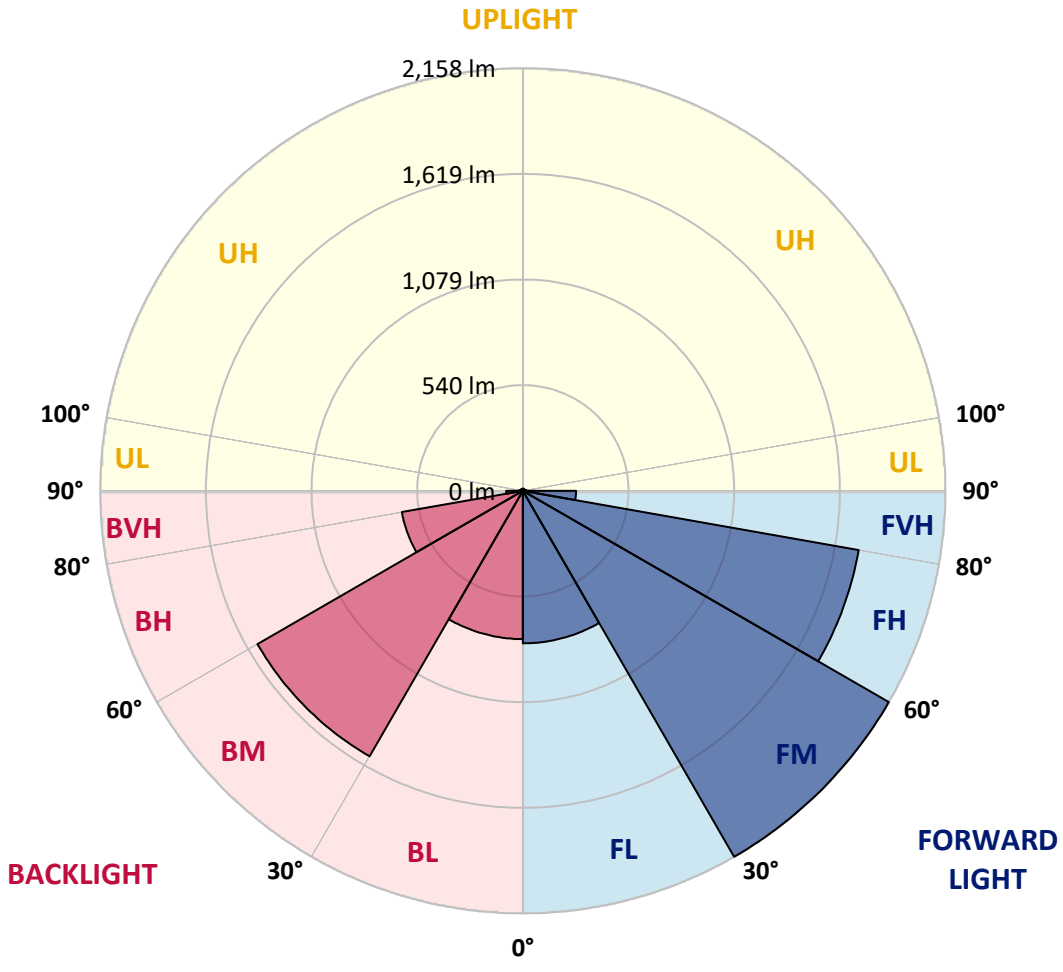
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	778.9	9.7			
FM	(30°-60°)	2158.1	26.9			
FH	(60°-80°)	1741.5	21.7			G1/1800
FVH	(80°-90°)	271.7	3.4			G3/500
BL	(0°-30°)	757.2	9.4	B2/1000		
BM	(30°-60°)	1565.2	19.5	B2/2500		
BH	(60°-80°)	627.1	7.8	B2/1000		G2/1000
BVH	(80°-90°)	85.0	1.1			G1/100
UL	(90°-100°)	18.8	0.2		U2/50	
UH	(100°-180°)	10.5	0.1		U2/50	

BUG Rating: B2-U2-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1855.2	1855.2	1855.2	1855.2	1855.2	*1855.2*	1855.2	1855.2	1855.2	1855.2	1855.2
2.5°	1862.3	1860.9	1860.9	1860.9	1860.9	*1859.4*	1860.9	1858.0	1859.4	1855.2	1855.2
5°	1866.5	1863.7	1865.1	1865.1	1865.1	*1863.7*	1865.1	1860.9	1862.3	1856.6	1855.2
7.5°	1867.9	1866.5	1866.5	1866.5	1866.5	*1863.7*	1865.1	1862.3	1860.9	1856.6	1853.8
10°	1867.9	1866.5	1866.5	1866.5	1865.1	*1862.3*	1863.7	1859.4	1859.4	1853.8	1850.9
12.5°	1867.9	1866.5	1867.9	1865.1	1865.1	*1862.3*	1862.3	1858.0	1858.0	1850.9	1848.1
15°	1866.5	1865.1	1865.1	1866.5	1865.1	*1862.3*	1862.3	1858.0	1856.6	1848.1	1845.3
17.5°	1865.1	1863.7	1865.1	1866.5	1867.9	*1865.1*	1866.5	1859.4	1856.6	1848.1	1843.9
20°	1866.5	1865.1	1866.5	1869.3	1869.3	*1869.3*	1869.3	1862.3	1856.6	1848.1	1841.0
22.5°	1862.3	1862.3	1862.3	1862.3	1865.1	*1860.9*	1860.9	1856.6	1849.5	1842.4	1835.4
25°	1852.4	1852.4	1853.8	1855.2	1855.2	*1852.4*	1850.9	1846.7	1841.0	1832.5	1824.0
27.5°	1841.0	1841.0	1842.4	1842.4	1845.3	*1842.4*	1841.0	1835.4	1829.7	1819.8	1809.9
30°	1828.3	1828.3	1828.3	1831.1	1832.5	*1832.5*	1831.1	1824.0	1816.9	1805.6	1792.9
32.5°	1814.1	1814.1	1818.4	1821.2	1822.6	*1822.6*	1822.6	1814.1	1805.6	1791.5	1773.0
35°	1802.8	1802.8	1808.5	1818.4	1824.0	*1821.2*	1819.8	1814.1	1801.4	1785.8	1756.1
37.5°	1809.9	1809.9	1822.6	1836.8	1849.5	*1846.7*	1846.7	1836.8	1819.8	1794.3	1757.5
40°	1826.9	1828.3	1848.1	1866.5	1882.1	*1884.9*	1884.9	1873.6	1848.1	1815.5	1764.6
42.5°	1831.1	1833.9	1853.8	1880.7	1894.8	*1901.9*	1901.9	1886.3	1859.4	1821.2	1761.7
45°	1831.1	1832.5	1855.2	1883.5	1906.2	*1911.8*	1911.8	1894.8	1860.9	1824.0	1751.8
47.5°	1831.1	1829.7	1849.5	1889.2	1911.8	*1916.1*	1916.1	1897.7	1865.1	1818.4	1737.6
50°	1826.9	1833.9	1863.7	1894.8	1934.5	*1940.2*	1938.7	1918.9	1873.6	1825.4	1726.3
52.5°	1836.8	1835.4	1875.0	1937.3	1972.7	*1985.5*	1986.9	1961.4	1914.7	1845.3	1719.2
55°	1877.8	1879.3	1917.5	1989.7	2043.5	*2067.6*	2064.8	2032.2	1965.6	1884.9	1739.1
57.5°	1892.0	1906.2	1961.4	2023.7	2105.8	*2127.1*	2127.1	2087.4	2006.7	1916.1	1753.2
60°	1863.7	1869.3	1937.3	2043.5	2118.6	*2122.8*	2124.3	2095.9	2011.0	1899.1	1724.9
62.5°	1856.6	1867.9	1920.3	2039.3	2087.4	*2118.6*	2117.2	2078.9	2006.7	1886.3	1715.0
65°	*1825.4*	*1833.9*	*1926.0*	*2013.8*	*2120.0*	*2151.2*	*2144.1*	*2100.2*	*1988.3*	*1872.2*	*1683.8*
67.5°	1761.7	1770.2	1855.2	1978.4	2074.7	*2104.4*	2111.5	2060.5	1944.4	1805.6	1617.3
70°	1655.5	1668.3	1754.6	1875.0	1977.0	*1994.0*	1991.1	1960.0	1843.9	1695.2	1519.6
72.5°	1506.8	1526.6	1635.7	1750.4	1838.2	*1863.7*	1852.4	1816.9	1722.1	1562.0	1386.4
75°	1349.6	1368.0	1454.4	1583.3	1675.3	*1692.3*	1683.8	1641.3	1545.0	1387.8	1229.2
77.5°	1178.3	1193.8	1267.5	1399.2	1467.2	*1481.3*	1485.6	1428.9	1338.3	1196.7	1055.0
80°	947.4	954.5	1053.6	1140.0	1199.5	*1227.8*	1225.0	1182.5	1091.9	974.3	832.7
82.5°	699.6	705.3	781.7	855.4	909.2	*934.7*	920.5	878.0	805.8	705.3	597.6
85°	429.1	419.2	481.5	536.7	569.3	*586.3*	572.1	548.1	484.3	405.0	330.0
87.5°	154.4	145.9	174.2	182.7	219.5	*213.8*	226.6	182.7	147.3	104.8	73.6
90°	68.0	68.0	66.6	63.7	58.1	*52.4*	51.0	42.5	31.2	19.8	7.1
92.5°	62.3	62.3	60.9	58.1	52.4	*46.7*	46.7	38.2	28.3	18.4	7.1
95°	52.4	52.4	51.0	48.1	43.9	*39.7*	39.7	31.2	24.1	15.6	5.7
97.5°	41.1	41.1	39.7	38.2	34.0	*31.2*	31.2	25.5	18.4	11.3	4.2
100°	31.2	31.2	29.7	28.3	26.9	*24.1*	22.7	18.4	14.2	8.5	2.8
102.5°	22.7	22.7	22.7	21.2	18.4	*17.0*	17.0	14.2	9.9	7.1	2.8
105°	15.6	15.6	15.6	14.2	12.7	*11.3*	11.3	9.9	7.1	4.2	1.4
107.5°	9.9	9.9	9.9	9.9	8.5	*7.1*	7.1	5.7	4.2	2.8	1.4
110°	5.7	4.2	5.7	5.7	5.7	*4.2*	4.2	2.8	2.8	1.4	1.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
112.5°	2.8	2.8	2.8	2.8	2.8	*2.8*	2.8	1.4	1.4	1.4	1.4
115°	1.4	1.4	1.4	2.8	2.8	*1.4*	1.4	1.4	1.4	1.4	1.4
117.5°	0.0	1.4	1.4	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
120°	0.0	0.0	1.4	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
122.5°	0.0	0.0	0.0	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
125°	0.0	0.0	0.0	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
127.5°	0.0	0.0	0.0	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
130°	0.0	0.0	0.0	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
132.5°	0.0	0.0	0.0	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
135°	0.0	0.0	0.0	0.0	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
137.5°	0.0	0.0	0.0	0.0	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
140°	0.0	1.4	1.4	0.0	0.0	*1.4*	1.4	1.4	1.4	1.4	1.4
142.5°	1.4	1.4	1.4	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
145°	1.4	1.4	1.4	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
147.5°	1.4	1.4	0.0	0.0	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
150°	1.4	1.4	1.4	0.0	0.0	*1.4*	1.4	1.4	1.4	1.4	1.4
152.5°	1.4	1.4	1.4	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
155°	1.4	1.4	1.4	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
157.5°	1.4	1.4	1.4	0.0	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
160°	1.4	1.4	1.4	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
162.5°	1.4	1.4	1.4	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
165°	1.4	1.4	1.4	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
167.5°	1.4	1.4	1.4	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
170°	1.4	1.4	1.4	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
172.5°	1.4	1.4	1.4	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
175°	1.4	1.4	1.4	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
177.5°	1.4	1.4	1.4	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4
180°	1.4	1.4	1.4	1.4	1.4	*1.4*	1.4	1.4	1.4	1.4	1.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1855.2	1855.2	1855.2	1855.2	1855.2	1855.2	1855.2	1855.2	1855.2	1855.2	1855.2
2.5°	1855.2	1853.8	1852.4	1853.8	1852.4	1852.4	1850.9	1850.9	1849.5	1849.5	1848.1
5°	1855.2	1853.8	1852.4	1853.8	1850.9	1852.4	1852.4	1850.9	1849.5	1848.1	1846.7
7.5°	1853.8	1853.8	1850.9	1852.4	1849.5	1849.5	1848.1	1848.1	1846.7	1846.7	1845.3
10°	1850.9	1849.5	1849.5	1849.5	1846.7	1846.7	1845.3	1843.9	1843.9	1842.4	1841.0
12.5°	1848.1	1846.7	1845.3	1845.3	1843.9	1842.4	1841.0	1841.0	1839.6	1838.2	1836.8
15°	1843.9	1842.4	1842.4	1842.4	1841.0	1841.0	1839.6	1838.2	1835.4	1833.9	1832.5
17.5°	1842.4	1841.0	1842.4	1842.4	1841.0	1842.4	1839.6	1836.8	1833.9	1832.5	1831.1
20°	1841.0	1841.0	1841.0	1839.6	1838.2	1836.8	1835.4	1833.9	1832.5	1831.1	1829.7
22.5°	1833.9	1832.5	1829.7	1821.2	1811.3	1804.2	1802.8	1805.6	1805.6	1805.6	1801.4
25°	1821.2	1816.9	1805.6	1790.0	1773.0	1761.7	1754.6	1754.6	1753.2	1750.4	1749.0
27.5°	1805.6	1797.1	1777.3	1757.5	1733.4	1719.2	1702.2	1692.3	1688.1	1686.7	1683.8
30°	1784.4	1771.6	1746.1	1720.6	1690.9	1671.1	1644.2	1627.2	1617.3	1613.0	1610.2
32.5°	1758.9	1746.1	1716.4	1685.2	1649.8	1621.5	1587.5	1560.6	1542.2	1533.7	1529.5
35°	1741.9	1723.5	1689.5	1652.7	1617.3	1576.2	1535.1	1498.3	1470.0	1460.1	1454.4
37.5°	1734.8	1717.8	1681.0	1644.2	1604.5	1555.0	1506.8	1454.4	1416.2	1399.2	1393.5
40°	1739.1	1717.8	1676.7	1637.1	1590.4	1535.1	1471.4	1406.3	1356.7	1332.6	1327.0
42.5°	1729.1	1705.1	1656.9	1614.4	1556.4	1494.1	1416.2	1341.1	1274.6	1254.7	1246.2
45°	1712.2	1682.4	1630.0	1576.2	1515.3	1438.8	1358.1	1261.8	1182.5	1158.4	1151.3
47.5°	1695.2	1654.1	1591.8	1542.2	1468.6	1379.4	1284.5	1176.8	1077.7	1053.6	1049.4
50°	1669.7	1631.4	1564.9	1506.8	1431.8	1328.4	1220.7	1086.2	974.3	933.3	921.9
52.5°	1658.3	1608.8	1545.0	1499.7	1409.1	1291.5	1155.6	1011.1	849.7	798.7	787.4
55°	1669.7	1607.4	1539.4	1495.5	1390.7	1244.8	1077.7	893.6	706.7	652.9	637.3
57.5°	1649.8	1596.0	1528.0	1478.5	1342.5	1148.5	964.4	727.9	533.9	464.5	458.8
60°	1624.3	1547.9	1484.1	1438.8	1242.0	967.2	750.6	518.3	321.5	262.0	250.7
62.5°	1614.4	1535.1	1461.5	1406.3	1107.4	710.9	457.4	262.0	133.1	93.5	85.0
65°	*1583.3*	*1512.5*	*1460.1*	*1382.2*	*967.2*	*439.0*	*196.8*	*77.9*	*5.7*	*4.2*	*4.2*
67.5°	1523.8	1451.6	1416.2	1370.9	953.1	419.2	178.4	70.8	2.8	0.0	0.0
70°	1421.8	1365.2	1341.1	1317.0	912.0	388.0	162.9	63.7	1.4	0.0	0.0
72.5°	1287.3	1249.1	1244.8	1242.0	852.5	358.3	145.9	56.6	1.4	0.0	0.0
75°	1152.8	1106.0	1113.1	1130.1	778.9	317.2	126.0	49.6	1.4	0.0	0.0
77.5°	982.8	948.8	965.8	994.2	682.6	269.1	103.4	39.7	1.4	0.0	0.0
80°	773.2	750.6	788.8	814.3	558.0	213.8	77.9	28.3	0.0	0.0	0.0
82.5°	549.5	536.7	572.1	604.7	414.9	151.5	53.8	18.4	0.0	0.0	0.0
85°	296.0	288.9	322.9	358.3	249.2	86.4	26.9	8.5	0.0	0.0	0.0
87.5°	73.6	68.0	69.4	83.6	60.9	18.4	4.2	1.4	0.0	0.0	0.0
90°	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
102.5°	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
110°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report

REPORT NUMBER: P821505
CATALOG NUMBER: TT-D5-735-12VDC-MQ-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
115°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
117.5°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
120°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
122.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
125°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
127.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
130°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
135°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
147.5°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
162.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
165°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
167.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
170°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
172.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
175°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
177.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4

Cooper Lighting Solutions Photometric Lab
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

Streetworks

Report Number: SP1-2407-176-4

Test Date: 09/24/2024

Luminaire Tested: MEM2-HTN-VA-30-735-U-WQ

Data in this report applies to families of products including MEM2-HTN-VA-30-735-U-WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

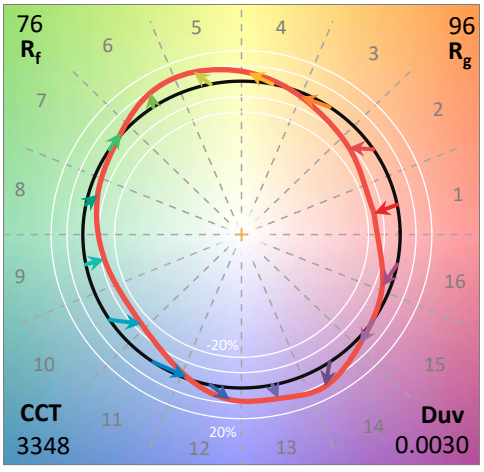
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-176-4
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	09/27/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**MEM2-HTN-VA-30-735-U-WQ**
Description:	EPIC MODERN VISUAL COMFORT 30W WAVESTREAM WIDE

Spectral Parameters

CCT (K):	3348	CRI (Ra):	73.4		
CIE u':	0.2384	R1:	70.8	R9:	-19.2
CIE v':	0.5184	R2:	79.9	R10:	52.5
Duv:	0.0030	R3:	87.6	R11:	68.0
CIE x:	0.4177	R4:	72.6	R12:	42.6
CIE y:	0.4036	R5:	69.3	R13:	72.0
CIE z:	0.1787	R6:	71.3	R14:	92.6
Peak Wavelength (nm):	593	R7:	82.1	R15:	63.8
Dominant Wavelength (nm):	580	R8:	53.3		
Purity:	46.5223				

Rf:	75.8
Rg:	95.8



Test Conditions

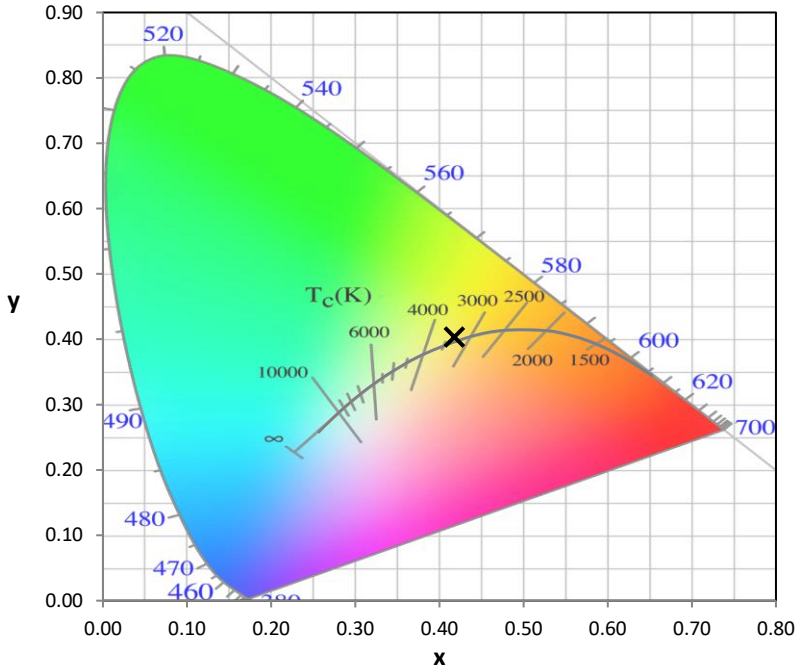
Stabilization Time:	30M
Operation Time:	1H 30M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-4

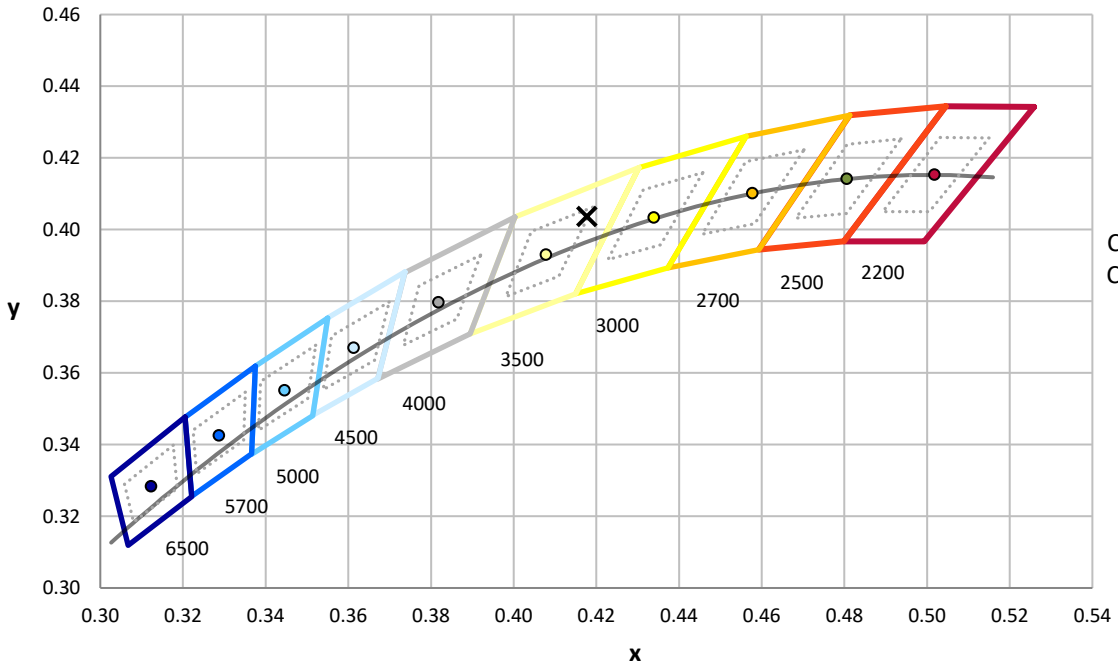
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-176-4

CIE 1931 Chromaticity Diagram



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

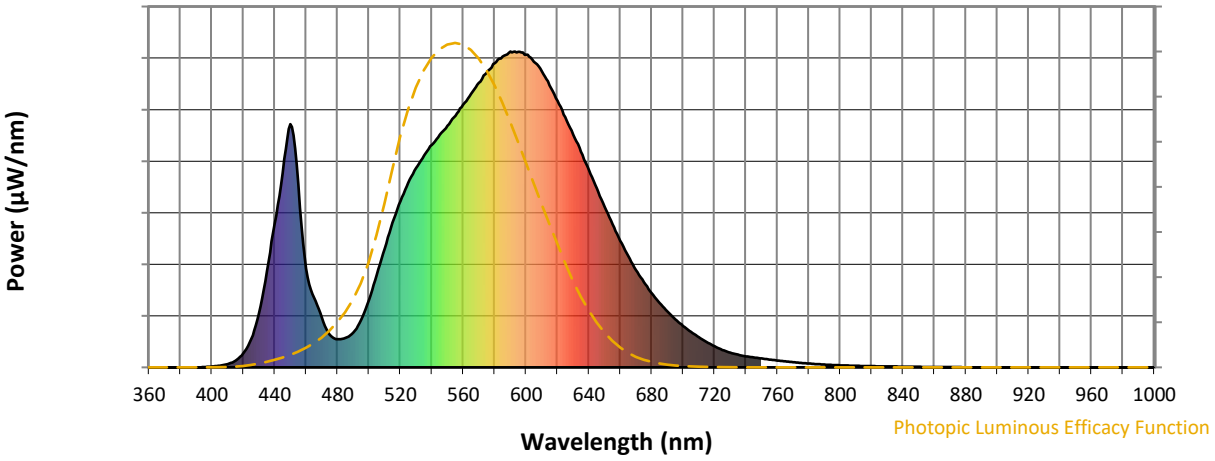


CCT = 3348K
CIE x = 0.4177
CIE y = 0.4036
Duv = 0.0030

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-176-4

Photopic Flux vs. Wavelength

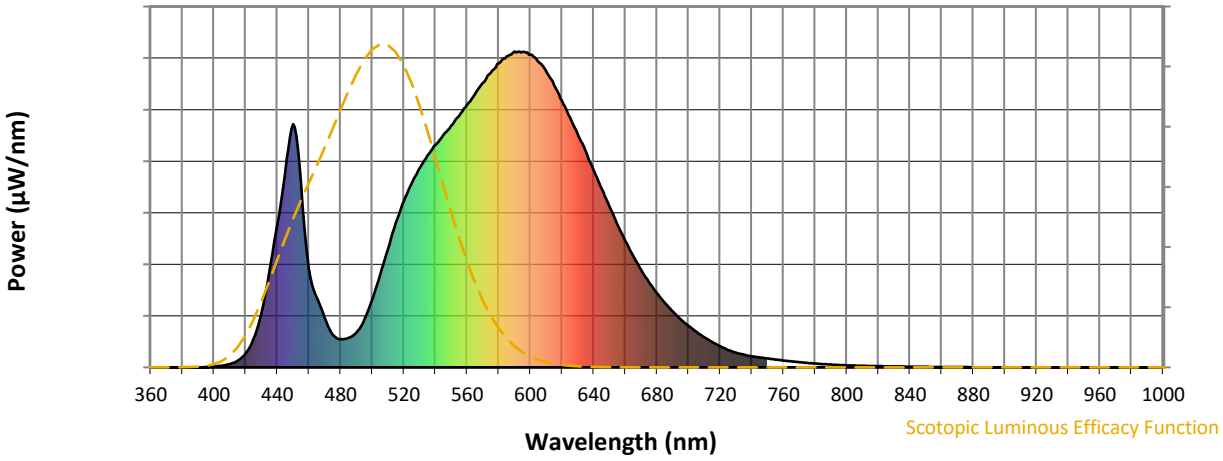


Photopic Lumens: NR

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	110	NR	620	844	NR	750	28	NR	880	0	NR
365	0	NR	495	150	NR	625	792	NR	755	25	NR	885	0	NR
370	0	NR	500	214	NR	630	737	NR	760	22	NR	890	0	NR
375	0	NR	505	293	NR	635	683	NR	765	19	NR	895	0	NR
380	0	NR	510	376	NR	640	625	NR	770	16	NR	900	0	NR
385	0	NR	515	458	NR	645	566	NR	775	14	NR	905	0	NR
390	0	NR	520	526	NR	650	509	NR	780	12	NR	910	0	NR
395	1	NR	525	584	NR	655	453	NR	785	10	NR	915	0	NR
400	3	NR	530	631	NR	660	401	NR	790	9	NR	920	0	NR
405	5	NR	535	671	NR	665	353	NR	795	8	NR	925	0	NR
410	10	NR	540	704	NR	670	308	NR	800	7	NR	930	0	NR
415	21	NR	545	737	NR	675	269	NR	805	6	NR	935	0	NR
420	44	NR	550	766	NR	680	235	NR	810	5	NR	940	0	NR
425	90	NR	555	797	NR	685	204	NR	815	4	NR	945	0	NR
430	171	NR	560	832	NR	690	177	NR	820	4	NR	950	0	NR
435	305	NR	565	866	NR	695	152	NR	825	3	NR	955	0	NR
440	455	NR	570	901	NR	700	131	NR	830	3	NR	960	0	NR
445	615	NR	575	933	NR	705	112	NR	835	3	NR	965	0	NR
450	771	NR	580	963	NR	710	96	NR	840	2	NR	970	0	NR
455	579	NR	585	984	NR	715	80	NR	845	2	NR	975	0	NR
460	313	NR	590	1000	NR	720	67	NR	850	2	NR	980	0	NR
465	221	NR	595	999	NR	725	55	NR	855	1	NR	985	0	NR
470	156	NR	600	990	NR	730	46	NR	860	1	NR	990	0	NR
475	103	NR	605	968	NR	735	40	NR	865	1	NR	995	0	NR
480	89	NR	610	937	NR	740	35	NR	870	1	NR	1000	0	NR
485	93	NR	615	893	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-176-4

Scotopic Flux vs. Wavelength

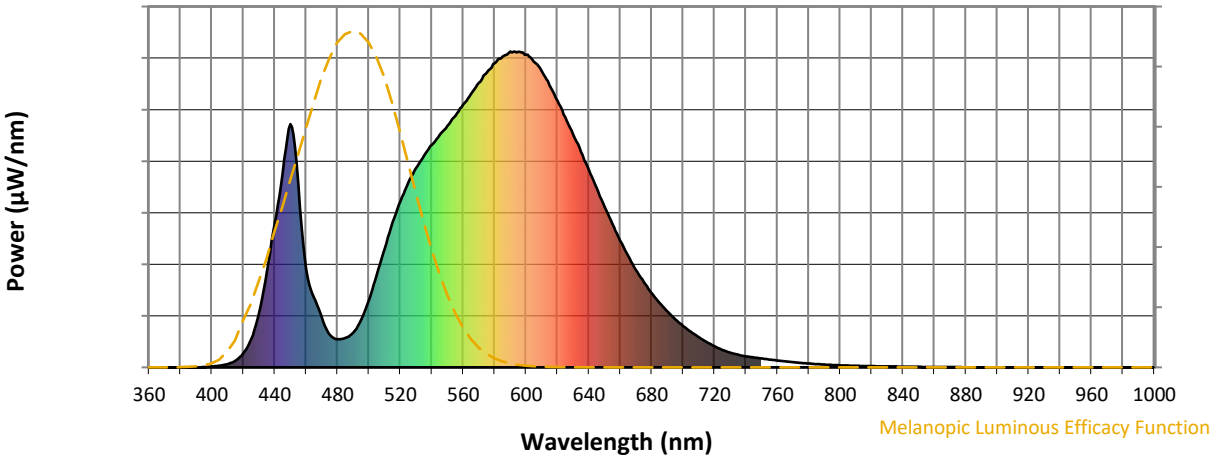


Scotopic Lumens: NR **S/P: 1.31**

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	110	NR	620	844	NR	750	28	NR	880	0	NR
365	0	NR	495	150	NR	625	792	NR	755	25	NR	885	0	NR
370	0	NR	500	214	NR	630	737	NR	760	22	NR	890	0	NR
375	0	NR	505	293	NR	635	683	NR	765	19	NR	895	0	NR
380	0	NR	510	376	NR	640	625	NR	770	16	NR	900	0	NR
385	0	NR	515	458	NR	645	566	NR	775	14	NR	905	0	NR
390	0	NR	520	526	NR	650	509	NR	780	12	NR	910	0	NR
395	1	NR	525	584	NR	655	453	NR	785	10	NR	915	0	NR
400	3	NR	530	631	NR	660	401	NR	790	9	NR	920	0	NR
405	5	NR	535	671	NR	665	353	NR	795	8	NR	925	0	NR
410	10	NR	540	704	NR	670	308	NR	800	7	NR	930	0	NR
415	21	NR	545	737	NR	675	269	NR	805	6	NR	935	0	NR
420	44	NR	550	766	NR	680	235	NR	810	5	NR	940	0	NR
425	90	NR	555	797	NR	685	204	NR	815	4	NR	945	0	NR
430	171	NR	560	832	NR	690	177	NR	820	4	NR	950	0	NR
435	305	NR	565	866	NR	695	152	NR	825	3	NR	955	0	NR
440	455	NR	570	901	NR	700	131	NR	830	3	NR	960	0	NR
445	615	NR	575	933	NR	705	112	NR	835	3	NR	965	0	NR
450	771	NR	580	963	NR	710	96	NR	840	2	NR	970	0	NR
455	579	NR	585	984	NR	715	80	NR	845	2	NR	975	0	NR
460	313	NR	590	1000	NR	720	67	NR	850	2	NR	980	0	NR
465	221	NR	595	999	NR	725	55	NR	855	1	NR	985	0	NR
470	156	NR	600	990	NR	730	46	NR	860	1	NR	990	0	NR
475	103	NR	605	968	NR	735	40	NR	865	1	NR	995	0	NR
480	89	NR	610	937	NR	740	35	NR	870	1	NR	1000	0	NR
485	93	NR	615	893	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-176-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.4**

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	110	NR	620	844	NR	750	28	NR	880	0	NR
365	0	NR	495	150	NR	625	792	NR	755	25	NR	885	0	NR
370	0	NR	500	214	NR	630	737	NR	760	22	NR	890	0	NR
375	0	NR	505	293	NR	635	683	NR	765	19	NR	895	0	NR
380	0	NR	510	376	NR	640	625	NR	770	16	NR	900	0	NR
385	0	NR	515	458	NR	645	566	NR	775	14	NR	905	0	NR
390	0	NR	520	526	NR	650	509	NR	780	12	NR	910	0	NR
395	1	NR	525	584	NR	655	453	NR	785	10	NR	915	0	NR
400	3	NR	530	631	NR	660	401	NR	790	9	NR	920	0	NR
405	5	NR	535	671	NR	665	353	NR	795	8	NR	925	0	NR
410	10	NR	540	704	NR	670	308	NR	800	7	NR	930	0	NR
415	21	NR	545	737	NR	675	269	NR	805	6	NR	935	0	NR
420	44	NR	550	766	NR	680	235	NR	810	5	NR	940	0	NR
425	90	NR	555	797	NR	685	204	NR	815	4	NR	945	0	NR
430	171	NR	560	832	NR	690	177	NR	820	4	NR	950	0	NR
435	305	NR	565	866	NR	695	152	NR	825	3	NR	955	0	NR
440	455	NR	570	901	NR	700	131	NR	830	3	NR	960	0	NR
445	615	NR	575	933	NR	705	112	NR	835	3	NR	965	0	NR
450	771	NR	580	963	NR	710	96	NR	840	2	NR	970	0	NR
455	579	NR	585	984	NR	715	80	NR	845	2	NR	975	0	NR
460	313	NR	590	1000	NR	720	67	NR	850	2	NR	980	0	NR
465	221	NR	595	999	NR	725	55	NR	855	1	NR	985	0	NR
470	156	NR	600	990	NR	730	46	NR	860	1	NR	990	0	NR
475	103	NR	605	968	NR	735	40	NR	865	1	NR	995	0	NR
480	89	NR	610	937	NR	740	35	NR	870	1	NR	1000	0	NR
485	93	NR	615	893	NR	745	31	NR	875	1	NR			

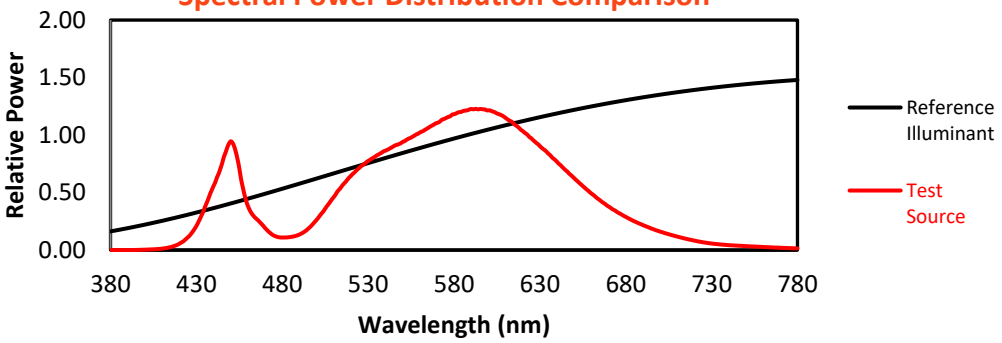
REPORT NUMBER: SP1-2407-176-4

TM-30-18

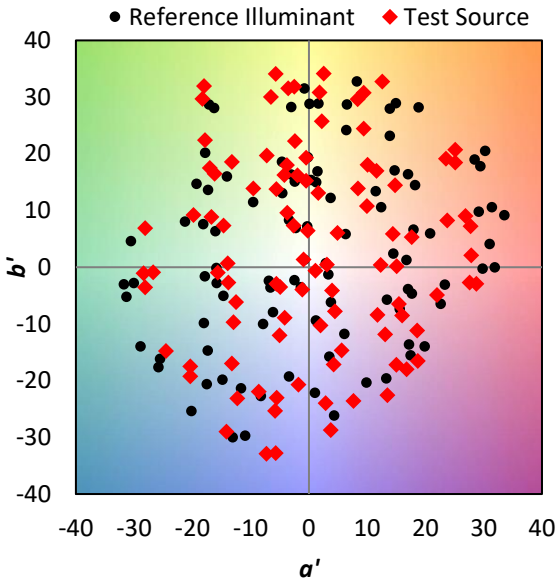
Summary

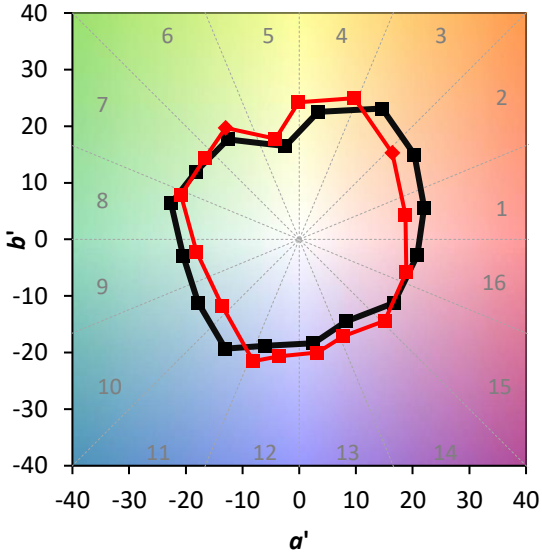
R_f = 75.8
R_g = 95.8
CIE R_a = 73.4
R_9 = -19.2

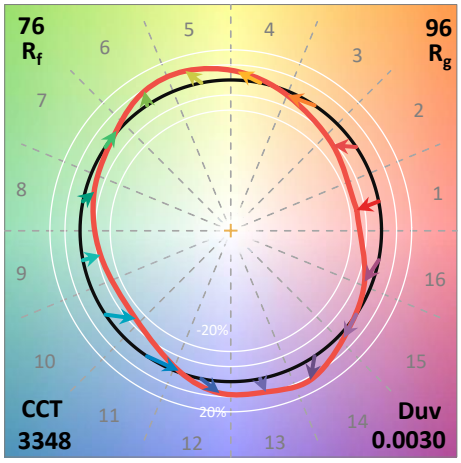
Spectral Power Distribution Comparison

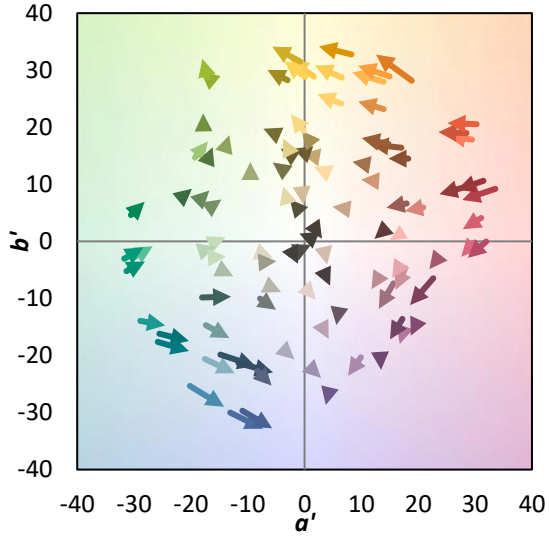


Color Vector Graphics







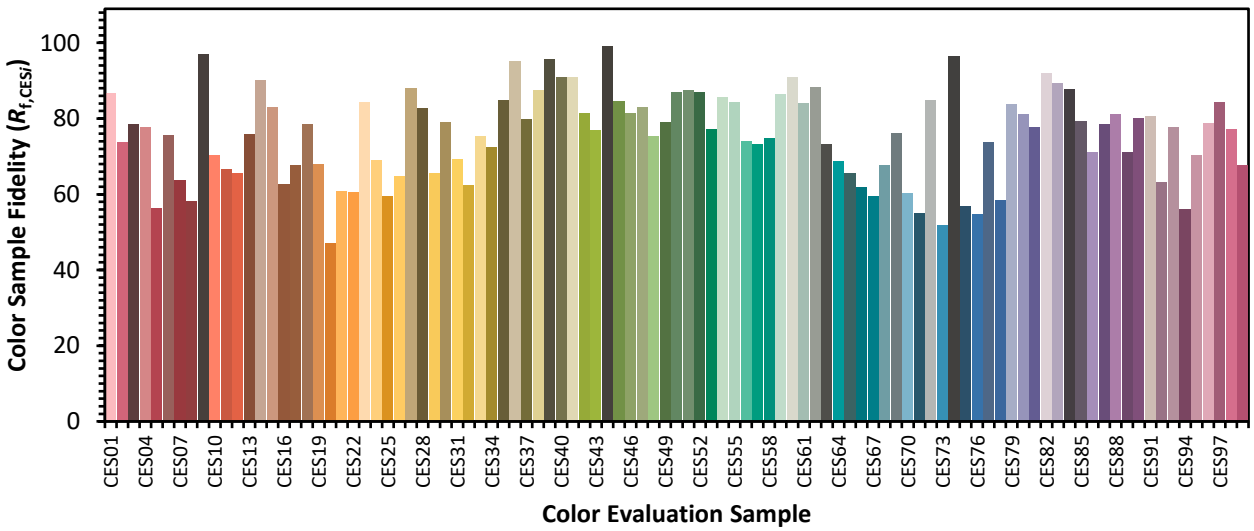


REPORT NUMBER: SP1-2407-176-4

TM-30-18

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

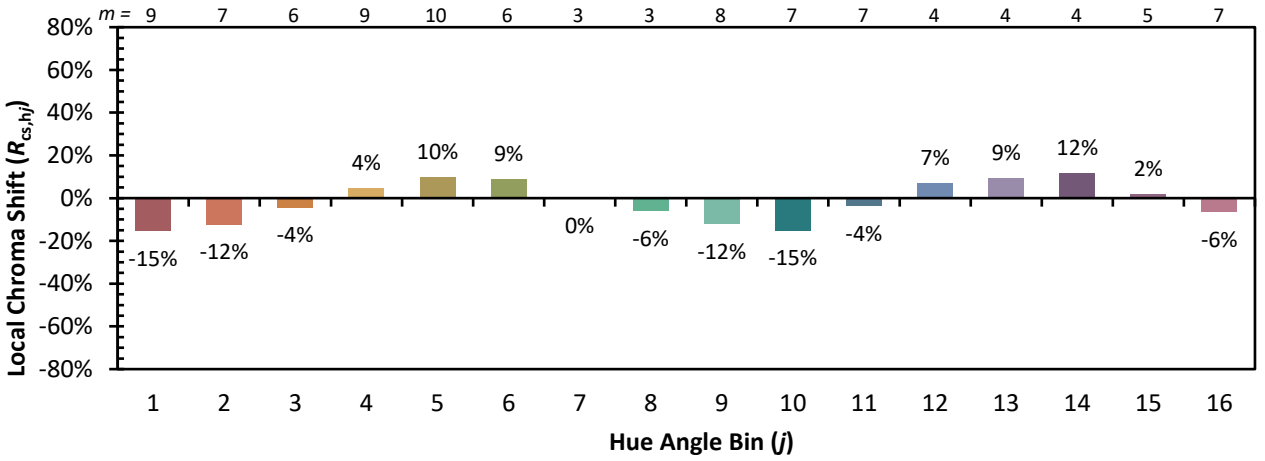
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CES04 = 70	CES29 = 66	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 79	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 69	CES56 = 74	CES81 = 78
CES07 = 41	CES32 = 62	CES57 = 73	CES82 = 92
CES08 = 40	CES33 = 75	CES58 = 75	CES83 = 89
CES09 = 29	CES34 = 73	CES59 = 87	CES84 = 88
CES10 = 75	CES35 = 85	CES60 = 91	CES85 = 79
CES11 = 58	CES36 = 95	CES61 = 84	CES86 = 71
CES12 = 64	CES37 = 80	CES62 = 88	CES87 = 79
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CES15 = 71	CES40 = 91	CES65 = 66	CES90 = 80
CES16 = 47	CES41 = 91	CES66 = 62	CES91 = 81
CES17 = 50	CES42 = 81	CES67 = 60	CES92 = 63
CES18 = 56	CES43 = 77	CES68 = 68	CES93 = 78
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 56
CES20 = 65	CES45 = 85	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 82	CES71 = 55	CES96 = 79
CES22 = 79	CES47 = 83	CES72 = 85	CES97 = 84
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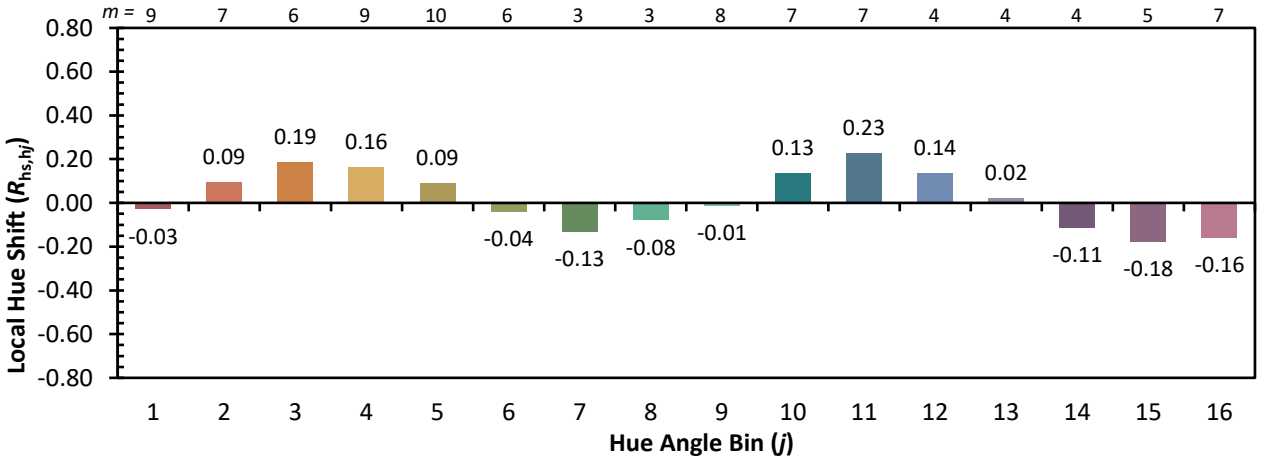


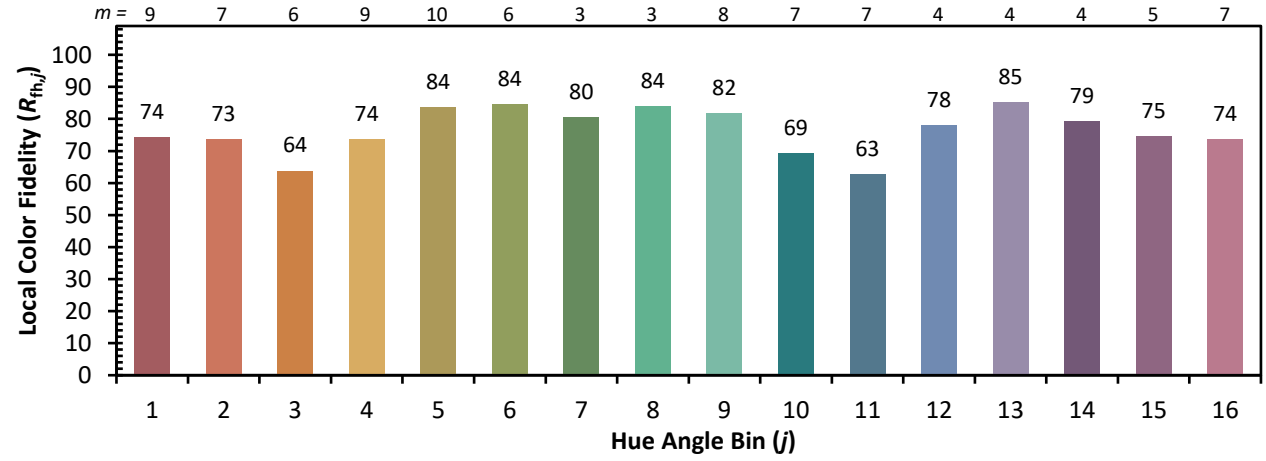
REPORT NUMBER: SP1-2407-176-4

TM-30-18

Color Rendition by Hue-Angle Bin



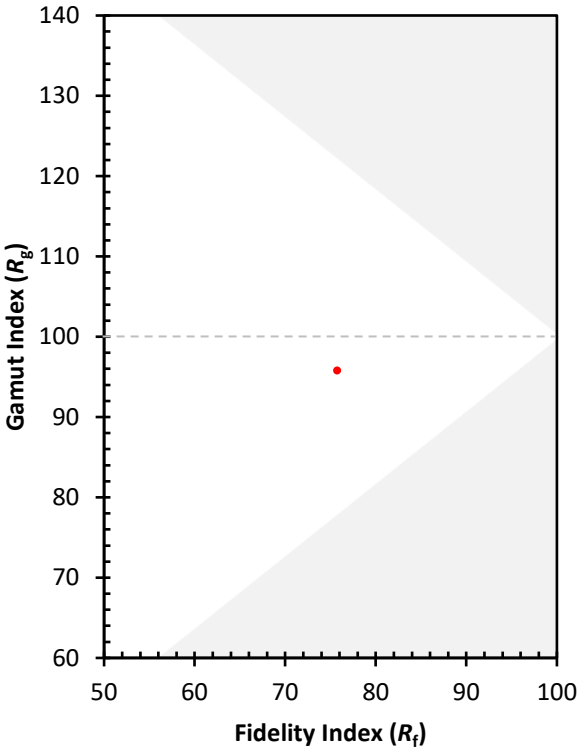


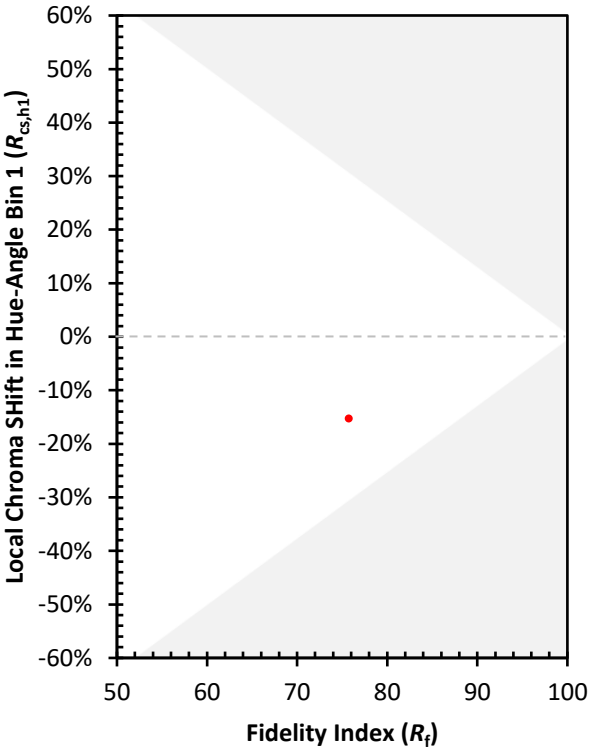


REPORT NUMBER: SP1-2407-176-4

TM-30-18

Measure Comparisons





(END OF REPORT)