

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: P436840

Luminaire Tested: **TT-D4-740-U-MQ-HSS**

Issue Date: 12/2/2020

Test Information

Test Method: LM-79-08
Report Number: P436840
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-D4-740-U-MQ-HSS
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
4000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6736 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U2 - G3

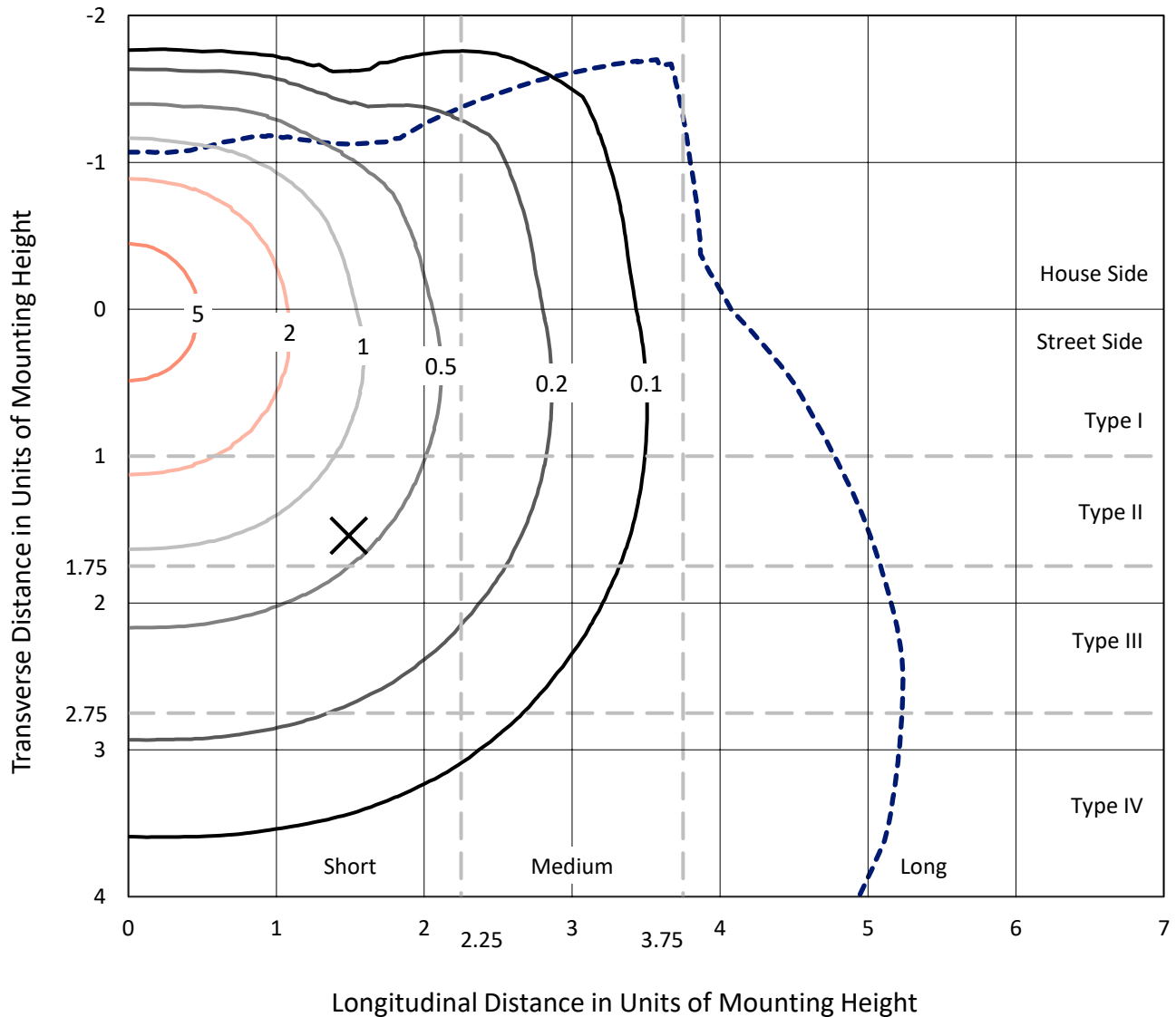
Input Watts (W): 57.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

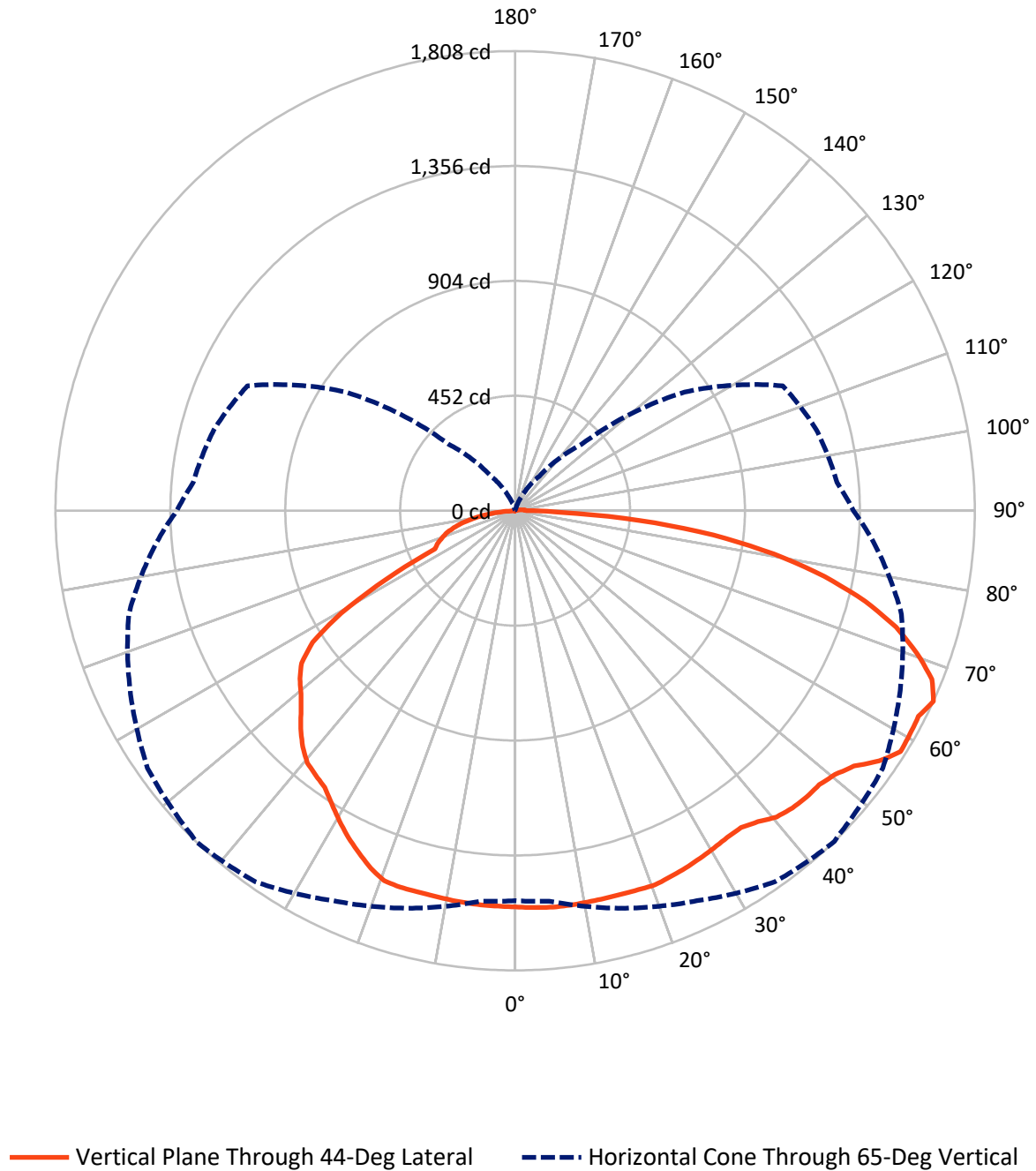


Based on 15 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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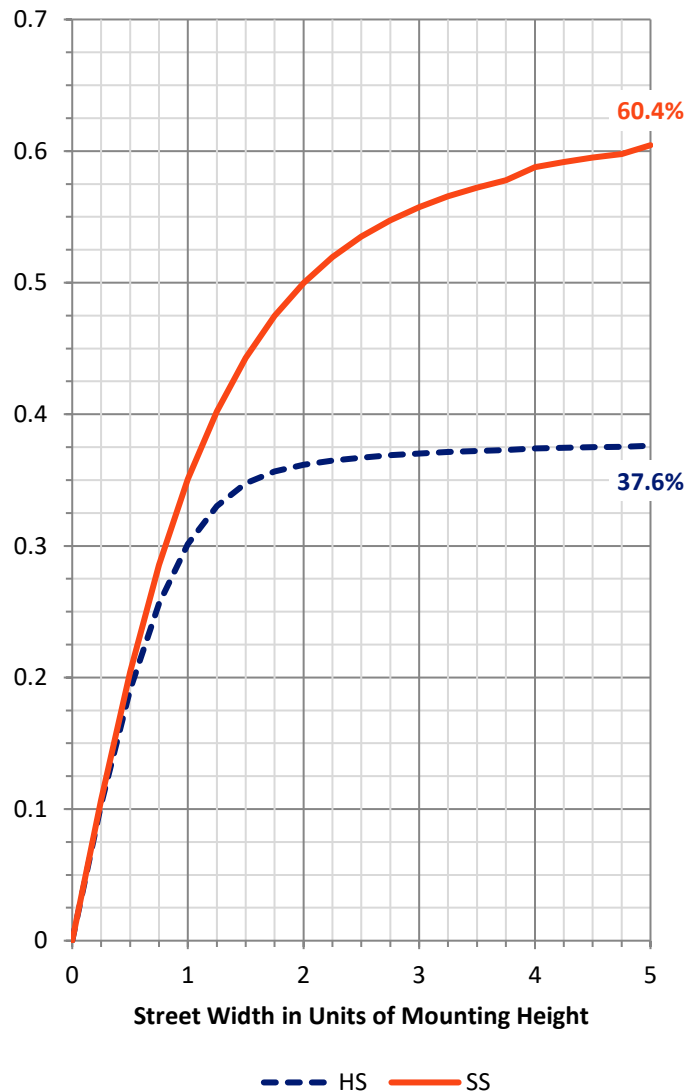
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2550.6	1.8	2552.3
	% Fixture	37.9	0.0	37.9
Street Side	Lumens	4160.8	22.9	4183.7
	% Fixture	61.8	0.3	62.1
Total	Lumens	6711.4	24.7	6736.0
	% Fixture	99.6	0.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	2.2
10°-20°	440.8	6.5
20°-30°	701.5	10.4
30°-40°	898.7	13.3
40°-50°	1064.7	15.8
50°-60°	1166.1	17.3
60°-70°	1108.4	16.5
70°-80°	882.5	13.1
80°-90°	299.8	4.5
90°-100°	15.8	0.2
100°-110°	5.2	0.1
110°-120°	1.1	0.0
120°-130°	0.7	0.0
130°-140°	0.6	0.0
140°-150°	0.5	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-90°	6711.4	99.6
0°-180°	6736.0	100.0



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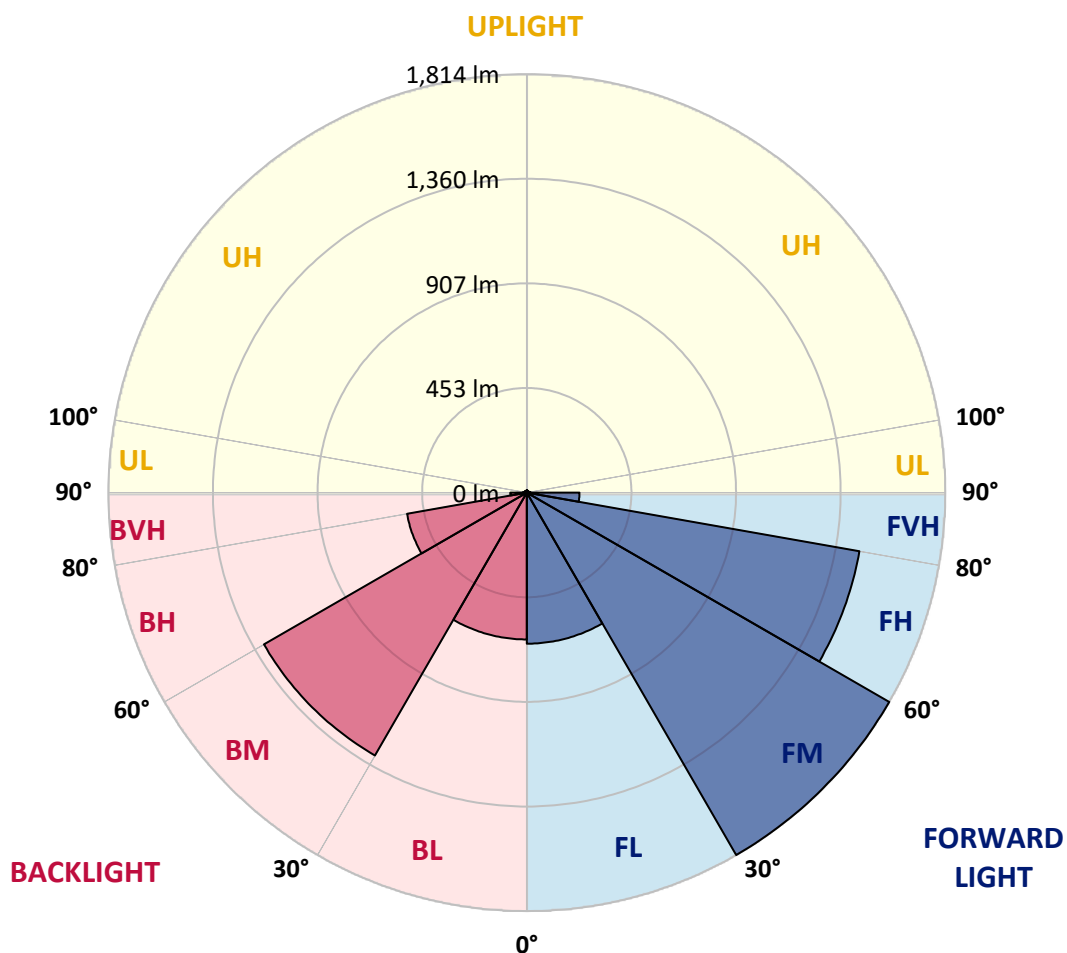
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	654.7	9.7			
FM	(30°-60°)	1813.9	26.9			
FH	(60°-80°)	1463.8	21.7			G1/1800
FVH	(80°-90°)	228.4	3.4			G3/500
BL	(0°-30°)	636.5	9.4	B2/1000		
BM	(30°-60°)	1315.6	19.5	B2/2500		
BH	(60°-80°)	527.1	7.8	B2/1000		G2/1000
BVH	(80°-90°)	71.4	1.1			G1/100
UL	(90°-100°)	15.8	0.2		U2/50	
UH	(100°-180°)	8.9	0.1		U1/10	

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°	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3
2.5°	1565.3	1564.1	1564.1	1564.1	1564.1	1562.9	1564.1	1561.7	1562.9	1559.3	1559.3
5°	1568.9	1566.5	1567.7	1567.7	1567.7	1566.5	1567.7	1564.1	1565.3	1560.5	1559.3
7.5°	1570.1	1568.9	1568.9	1568.9	1568.9	1566.5	1567.7	1565.3	1564.1	1560.5	1558.1
10°	1570.1	1568.9	1568.9	1568.9	1567.7	1565.3	1566.5	1562.9	1562.9	1558.1	1555.8
12.5°	1570.1	1568.9	1570.1	1567.7	1567.7	1565.3	1565.3	1561.7	1561.7	1555.8	1553.4
15°	1568.9	1567.7	1567.7	1568.9	1567.7	1565.3	1565.3	1561.7	1560.5	1553.4	1551.0
17.5°	1567.7	1566.5	1567.7	1568.9	1570.1	1567.7	1568.9	1562.9	1560.5	1553.4	1549.8
20°	1568.9	1567.7	1568.9	1571.2	1571.2	1571.2	1571.2	1565.3	1560.5	1553.4	1547.4
22.5°	1565.3	1565.3	1565.3	1565.3	1567.7	1564.1	1564.1	1560.5	1554.6	1548.6	1542.7
25°	1557.0	1557.0	1558.1	1559.3	1559.3	1557.0	1555.8	1552.2	1547.4	1540.3	1533.2
27.5°	1547.4	1547.4	1548.6	1548.6	1551.0	1548.6	1547.4	1542.7	1537.9	1529.6	1521.2
30°	1536.7	1536.7	1536.7	1539.1	1540.3	1540.3	1539.1	1533.2	1527.2	1517.7	1507.0
32.5°	1524.8	1524.8	1528.4	1530.8	1532.0	1532.0	1532.0	1524.8	1517.7	1505.8	1490.3
35°	1515.3	1515.3	1520.1	1528.4	1533.2	1530.8	1529.6	1524.8	1514.1	1501.0	1476.0
37.5°	1521.2	1521.2	1532.0	1543.9	1554.6	1552.2	1552.2	1543.9	1529.6	1508.2	1477.2
40°	1535.5	1536.7	1553.4	1568.9	1582.0	1584.3	1584.3	1574.8	1553.4	1526.0	1483.2
42.5°	1539.1	1541.5	1558.1	1580.8	1592.7	1598.6	1598.6	1585.5	1562.9	1530.8	1480.8
45°	1539.1	1540.3	1559.3	1583.1	1602.2	1607.0	1607.0	1592.7	1564.1	1533.2	1472.4
47.5°	1539.1	1537.9	1554.6	1587.9	1607.0	1610.5	1610.5	1595.0	1567.7	1528.4	1460.5
50°	1535.5	1541.5	1566.5	1592.7	1626.0	1630.8	1629.6	1612.9	1574.8	1534.3	1451.0
52.5°	1543.9	1542.7	1576.0	1628.4	1658.1	1668.8	1670.0	1648.6	1609.3	1551.0	1445.1
55°	1578.4	1579.6	1611.7	1672.4	1717.7	1737.9	1735.5	1708.1	1652.2	1584.3	1461.7
57.5°	1590.3	1602.2	1648.6	1701.0	1770.0	1787.9	1787.9	1754.6	1686.7	1610.5	1473.6
60°	1566.5	1571.2	1628.4	1717.7	1780.7	1784.3	1785.5	1761.7	1690.3	1596.2	1449.8
62.5°	1560.5	1570.1	1614.1	1714.1	1754.6	1780.7	1779.5	1747.4	1686.7	1585.5	1441.5
65°	1534.3	1541.5	1618.9	1692.7	1781.9	1808.1	1802.2	1765.3	1671.2	1573.6	1415.3
67.5°	1480.8	1487.9	1559.3	1662.9	1743.8	1768.8	1774.8	1731.9	1634.3	1517.7	1359.4
70°	1391.5	1402.2	1474.8	1576.0	1661.7	1676.0	1673.6	1647.4	1549.8	1424.8	1277.2
72.5°	1266.5	1283.2	1374.8	1471.3	1545.1	1566.5	1557.0	1527.2	1447.4	1312.9	1165.3
75°	1134.4	1149.9	1222.5	1330.8	1408.2	1422.4	1415.3	1379.6	1298.7	1166.5	1033.2
77.5°	990.4	1003.5	1065.3	1176.1	1233.2	1245.1	1248.7	1201.0	1124.9	1005.8	886.8
80°	796.3	802.3	885.6	958.2	1008.2	1032.0	1029.6	993.9	917.7	818.9	699.9
82.5°	588.0	592.8	657.1	719.0	764.2	785.6	773.7	738.0	677.3	592.8	502.3
85°	360.7	352.3	404.7	451.1	478.5	492.8	480.9	460.7	407.1	340.4	277.3
87.5°	129.7	122.6	146.4	153.6	184.5	179.7	190.5	153.6	123.8	88.1	61.9
90°	57.1	57.1	55.9	53.6	48.8	44.0	42.9	35.7	26.2	16.7	6.0
92.5°	52.4	52.4	51.2	48.8	44.0	39.3	39.3	32.1	23.8	15.5	6.0
95°	44.0	44.0	42.9	40.5	36.9	33.3	33.3	26.2	20.2	13.1	4.8
97.5°	34.5	34.5	33.3	32.1	28.6	26.2	26.2	21.4	15.5	9.5	3.6
100°	26.2	26.2	25.0	23.8	22.6	20.2	19.0	15.5	11.9	7.1	2.4
102.5°	19.0	19.0	19.0	17.9	15.5	14.3	14.3	11.9	8.3	6.0	2.4
105°	13.1	13.1	13.1	11.9	10.7	9.5	9.5	8.3	6.0	3.6	1.2
107.5°	8.3	8.3	8.3	8.3	7.1	6.0	6.0	4.8	3.6	2.4	1.2
110°	4.8	3.6	4.8	4.8	4.8	3.6	3.6	2.4	2.4	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
112.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2
115°	1.2	1.2	1.2	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2
117.5°	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
120°	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
122.5°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
125°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
127.5°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
130°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
132.5°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
135°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
137.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
140°	0.0	1.2	1.2	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2
142.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
145°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
147.5°	1.2	1.2	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
150°	1.2	1.2	1.2	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2
152.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
155°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
157.5°	1.2	1.2	1.2	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
160°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
165°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
167.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
170°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
172.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
175°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
177.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
180°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3	1559.3
2.5°	1559.3	1558.1	1557.0	1558.1	1557.0	1557.0	1555.8	1555.8	1554.6	1554.6	1553.4
5°	1559.3	1558.1	1557.0	1558.1	1555.8	1557.0	1557.0	1555.8	1554.6	1553.4	1552.2
7.5°	1558.1	1558.1	1555.8	1557.0	1554.6	1554.6	1553.4	1553.4	1552.2	1552.2	1551.0
10°	1555.8	1554.6	1554.6	1554.6	1552.2	1552.2	1551.0	1549.8	1549.8	1548.6	1547.4
12.5°	1553.4	1552.2	1551.0	1551.0	1549.8	1548.6	1547.4	1547.4	1546.2	1545.1	1543.9
15°	1549.8	1548.6	1548.6	1548.6	1547.4	1547.4	1546.2	1545.1	1542.7	1541.5	1540.3
17.5°	1548.6	1547.4	1548.6	1548.6	1547.4	1548.6	1546.2	1543.9	1541.5	1540.3	1539.1
20°	1547.4	1547.4	1547.4	1546.2	1545.1	1543.9	1542.7	1541.5	1540.3	1539.1	1537.9
22.5°	1541.5	1540.3	1537.9	1530.8	1522.4	1516.5	1515.3	1517.7	1517.7	1517.7	1514.1
25°	1530.8	1527.2	1517.7	1504.6	1490.3	1480.8	1474.8	1474.8	1473.6	1471.3	1470.1
27.5°	1517.7	1510.5	1493.9	1477.2	1457.0	1445.1	1430.8	1422.4	1418.9	1417.7	1415.3
30°	1499.8	1489.1	1467.7	1446.3	1421.3	1404.6	1382.0	1367.7	1359.4	1355.8	1353.4
32.5°	1478.4	1467.7	1442.7	1416.5	1386.7	1362.9	1334.4	1311.7	1296.3	1289.1	1285.6
35°	1464.1	1448.6	1420.1	1389.1	1359.4	1324.8	1290.3	1259.4	1235.6	1227.2	1222.5
37.5°	1458.2	1443.9	1412.9	1382.0	1348.6	1307.0	1266.5	1222.5	1190.3	1176.1	1171.3
40°	1461.7	1443.9	1409.4	1376.0	1336.7	1290.3	1236.8	1182.0	1140.3	1120.1	1115.3
42.5°	1453.4	1433.2	1392.7	1357.0	1308.2	1255.8	1190.3	1127.2	1071.3	1054.6	1047.5
45°	1439.1	1414.1	1370.1	1324.8	1273.7	1209.4	1141.5	1060.6	993.9	973.7	967.7
47.5°	1424.8	1390.3	1337.9	1296.3	1234.4	1159.4	1079.6	989.2	905.8	885.6	882.0
50°	1403.4	1371.3	1315.3	1266.5	1203.4	1116.5	1026.1	913.0	818.9	784.4	774.9
52.5°	1393.9	1352.2	1298.7	1260.6	1184.4	1085.6	971.3	849.9	714.2	671.3	661.8
55°	1403.4	1351.0	1293.9	1257.0	1168.9	1046.3	905.8	751.1	594.0	548.7	535.7
57.5°	1386.7	1341.5	1284.4	1242.7	1128.4	965.4	810.6	611.8	448.8	390.4	385.7
60°	1365.3	1301.0	1247.5	1209.4	1043.9	813.0	630.9	435.7	270.2	220.2	210.7
62.5°	1357.0	1290.3	1228.4	1182.0	930.8	597.5	384.5	220.2	111.9	78.6	71.4
65°	1330.8	1271.3	1227.2	1161.8	813.0	369.0	165.5	65.5	4.8	3.6	3.6
67.5°	1280.8	1220.1	1190.3	1152.2	801.1	352.3	150.0	59.5	2.4	0.0	0.0
70°	1195.1	1147.5	1127.2	1107.0	766.6	326.2	136.9	53.6	1.2	0.0	0.0
72.5°	1082.0	1049.9	1046.3	1043.9	716.6	301.2	122.6	47.6	1.2	0.0	0.0
75°	968.9	929.7	935.6	949.9	654.7	266.6	105.9	41.7	1.2	0.0	0.0
77.5°	826.1	797.5	811.8	835.6	573.7	226.2	86.9	33.3	1.2	0.0	0.0
80°	649.9	630.9	663.0	684.4	469.0	179.7	65.5	23.8	0.0	0.0	0.0
82.5°	461.8	451.1	480.9	508.3	348.8	127.4	45.2	15.5	0.0	0.0	0.0
85°	248.8	242.8	271.4	301.2	209.5	72.6	22.6	7.1	0.0	0.0	0.0
87.5°	61.9	57.1	58.3	70.2	51.2	15.5	3.6	1.2	0.0	0.0	0.0
90°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
102.5°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
110°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P436840

CATALOG NUMBER: TT-D4-740-U-MQ-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
115°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
117.5°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
120°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
122.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
125°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
127.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
130°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
135°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
140°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
147.5°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
150°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
155°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
160°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
165°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
167.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
170°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
172.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
175°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
177.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
180°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-176-5

Test Date: 09/24/2024

Luminaire Tested: MEM2-HTN-VA-30-740-U-WQ

Data in this report applies to families of products including MEM2-HTN-VA-30-740-U-WQ

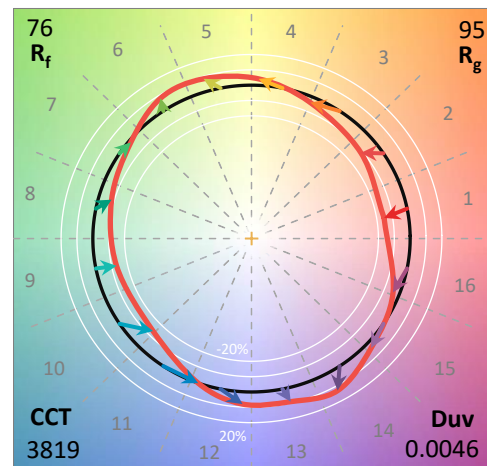
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-176-5
 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-30-740-U-WQ**
 Description: EPIC MODERN VISUAL COMFORT 30W WAVESTREAM WIDE

Spectral Parameters

CCT (K): 3819
 CIE u' : 0.2261
 CIE v' : 0.5108
 Duv: 0.0046
 CIE x: 0.3926
 CIE y: 0.3942
 CIE z: 0.2132
 Peak Wavelength (nm): 450
 Dominant Wavelength (nm): 577
 Purity: 36.15483
 R_f: 75.6
 R_g: 94.8

CRI (Ra): 72.9
 R1: 70.1
 R2: 78.4
 R3: 85.0
 R4: 72.9
 R5: 69.1
 R6: 69.2
 R7: 82.8
 R8: 55.4
 R9: -21.5
 R10: 48.5
 R11: 68.4
 R12: 39.0
 R13: 71.1
 R14: 91.3
 R15: 63.2



Test Conditions

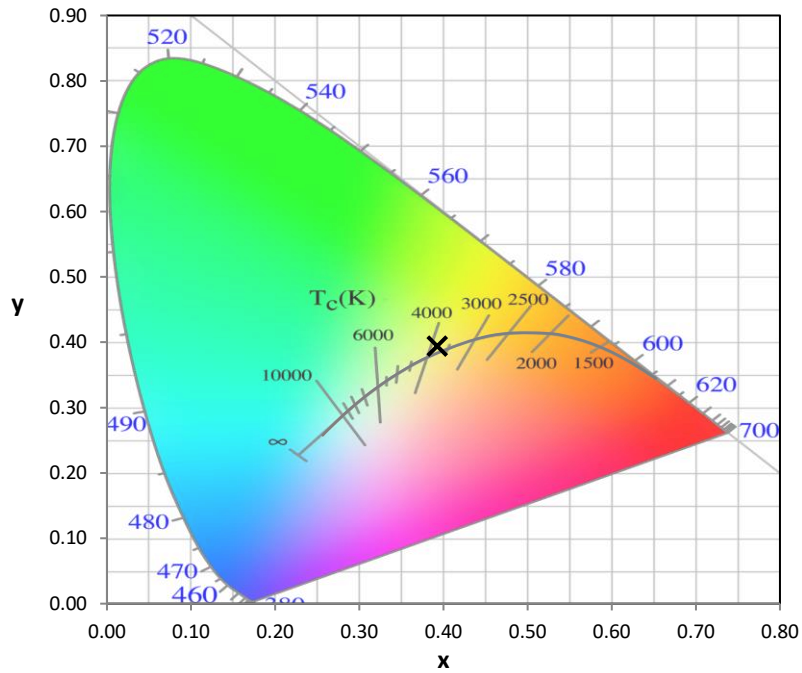
Stabilization Time: 30M
 Operation Time: 1H 30M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-176-5

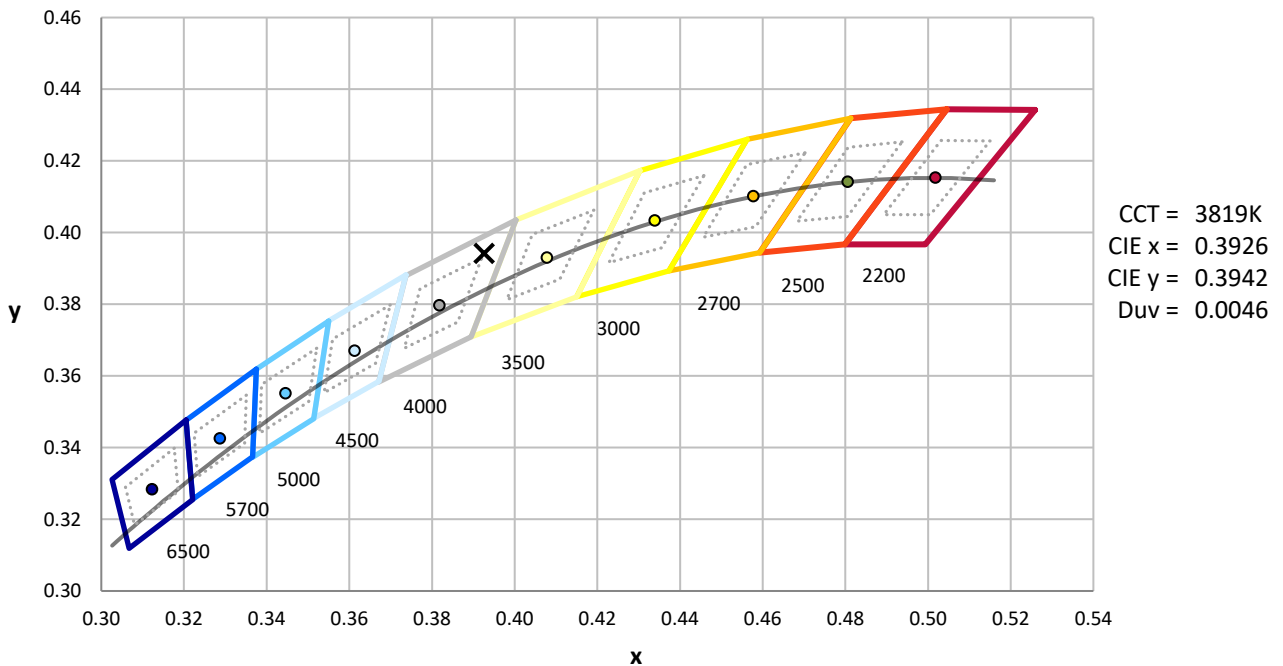
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-176-5

CIE 1931 Chromaticity Diagram

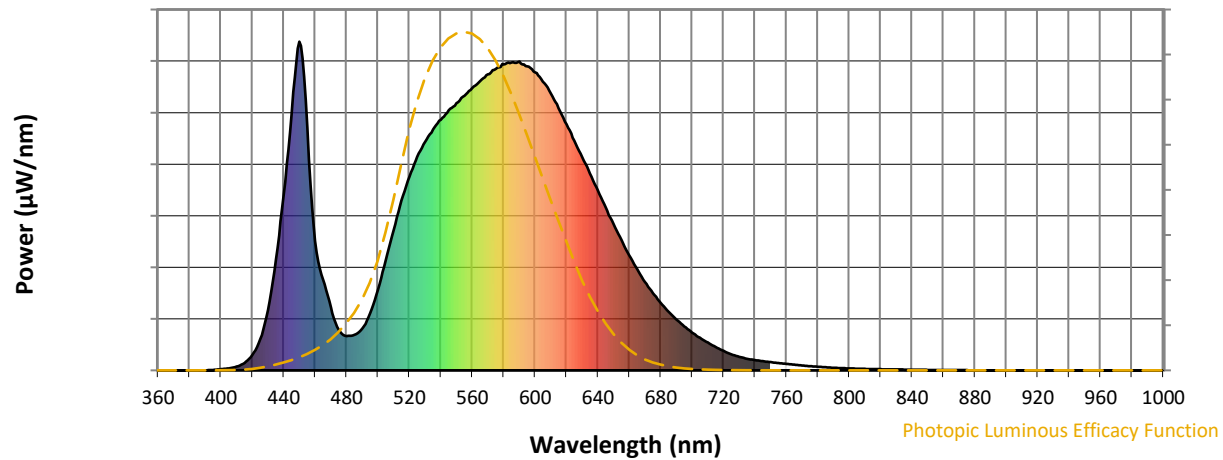


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-176-5

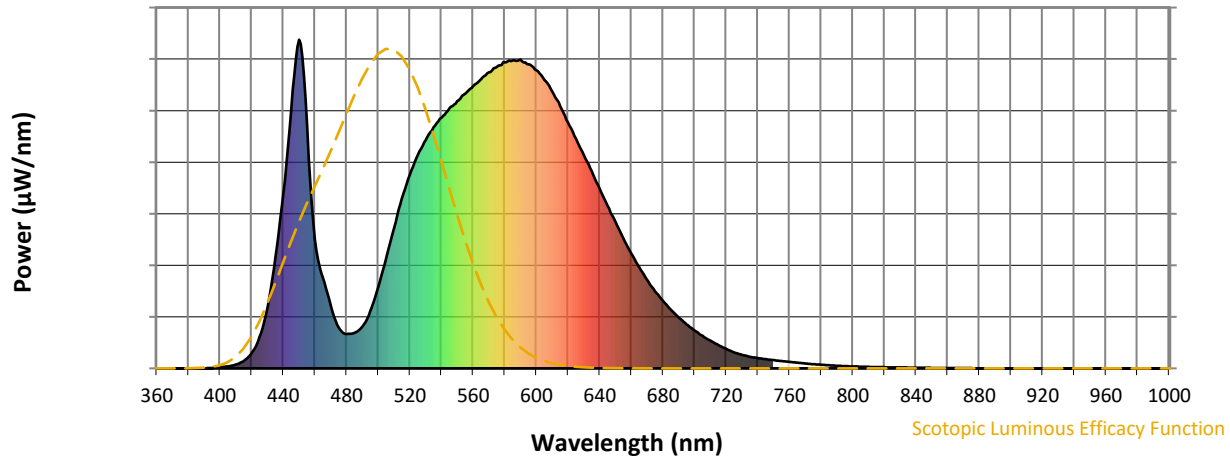
Photopic Flux vs. Wavelength



Photopic Lumens: NR

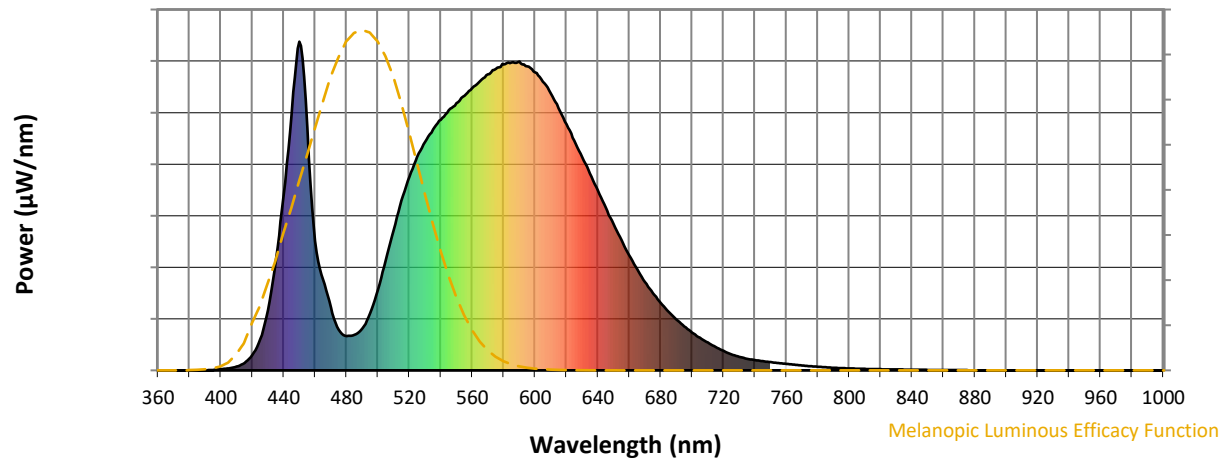
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	127	NR	620	748	NR	750	25	NR	880	0	NR
365	0	NR	495	173	NR	625	699	NR	755	22	NR	885	0	NR
370	0	NR	500	246	NR	630	648	NR	760	20	NR	890	0	NR
375	0	NR	505	335	NR	635	599	NR	765	17	NR	895	0	NR
380	0	NR	510	427	NR	640	547	NR	770	15	NR	900	0	NR
385	0	NR	515	517	NR	645	495	NR	775	13	NR	905	0	NR
390	0	NR	520	589	NR	650	445	NR	780	11	NR	910	0	NR
395	1	NR	525	649	NR	655	396	NR	785	9	NR	915	0	NR
400	4	NR	530	695	NR	660	349	NR	790	8	NR	920	0	NR
405	6	NR	535	733	NR	665	308	NR	795	7	NR	925	0	NR
410	11	NR	540	763	NR	670	269	NR	800	6	NR	930	0	NR
415	23	NR	545	792	NR	675	235	NR	805	5	NR	935	0	NR
420	46	NR	550	813	NR	680	205	NR	810	5	NR	940	0	NR
425	95	NR	555	835	NR	685	178	NR	815	4	NR	945	0	NR
430	183	NR	560	859	NR	690	155	NR	820	3	NR	950	0	NR
435	338	NR	565	880	NR	695	134	NR	825	3	NR	955	0	NR
440	534	NR	570	900	NR	700	115	NR	830	3	NR	960	0	NR
445	782	NR	575	918	NR	705	99	NR	835	2	NR	965	0	NR
450	1000	NR	580	931	NR	710	84	NR	840	2	NR	970	0	NR
455	739	NR	585	937	NR	715	71	NR	845	2	NR	975	0	NR
460	393	NR	590	939	NR	720	59	NR	850	1	NR	980	0	NR
465	276	NR	595	925	NR	725	49	NR	855	1	NR	985	0	NR
470	190	NR	600	907	NR	730	41	NR	860	1	NR	990	0	NR
475	123	NR	605	878	NR	735	35	NR	865	1	NR	995	0	NR
480	105	NR	610	842	NR	740	31	NR	870	1	NR	1000	0	NR
485	108	NR	615	797	NR	745	28	NR	875	1	NR			

REPORT NUMBER: SP1-2407-176-5

Scotopic Flux vs. Wavelength

Scotopic Lumens: NR
S/P: 1.45

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	127	NR	620	748	NR	750	25	NR	880	0	NR
365	0	NR	495	173	NR	625	699	NR	755	22	NR	885	0	NR
370	0	NR	500	246	NR	630	648	NR	760	20	NR	890	0	NR
375	0	NR	505	335	NR	635	599	NR	765	17	NR	895	0	NR
380	0	NR	510	427	NR	640	547	NR	770	15	NR	900	0	NR
385	0	NR	515	517	NR	645	495	NR	775	13	NR	905	0	NR
390	0	NR	520	589	NR	650	445	NR	780	11	NR	910	0	NR
395	1	NR	525	649	NR	655	396	NR	785	9	NR	915	0	NR
400	4	NR	530	695	NR	660	349	NR	790	8	NR	920	0	NR
405	6	NR	535	733	NR	665	308	NR	795	7	NR	925	0	NR
410	11	NR	540	763	NR	670	269	NR	800	6	NR	930	0	NR
415	23	NR	545	792	NR	675	235	NR	805	5	NR	935	0	NR
420	46	NR	550	813	NR	680	205	NR	810	5	NR	940	0	NR
425	95	NR	555	835	NR	685	178	NR	815	4	NR	945	0	NR
430	183	NR	560	859	NR	690	155	NR	820	3	NR	950	0	NR
435	338	NR	565	880	NR	695	134	NR	825	3	NR	955	0	NR
440	534	NR	570	900	NR	700	115	NR	830	3	NR	960	0	NR
445	782	NR	575	918	NR	705	99	NR	835	2	NR	965	0	NR
450	1000	NR	580	931	NR	710	84	NR	840	2	NR	970	0	NR
455	739	NR	585	937	NR	715	71	NR	845	2	NR	975	0	NR
460	393	NR	590	939	NR	720	59	NR	850	1	NR	980	0	NR
465	276	NR	595	925	NR	725	49	NR	855	1	NR	985	0	NR
470	190	NR	600	907	NR	730	41	NR	860	1	NR	990	0	NR
475	123	NR	605	878	NR	735	35	NR	865	1	NR	995	0	NR
480	105	NR	610	842	NR	740	31	NR	870	1	NR	1000	0	NR
485	108	NR	615	797	NR	745	28	NR	875	1	NR			

REPORT NUMBER: SP1-2407-176-5

Melanopic Flux vs. Wavelength

Melanopic Lumens: NR
M/P: 2.76

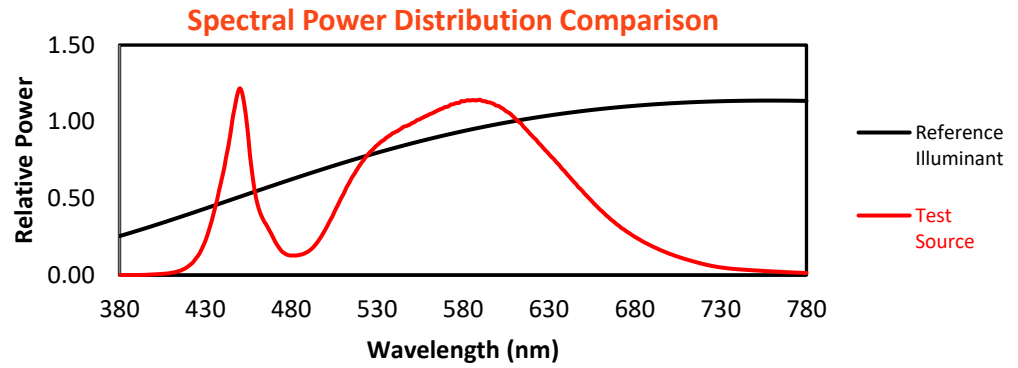
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	127	NR	620	748	NR	750	25	NR	880	0	NR
365	0	NR	495	173	NR	625	699	NR	755	22	NR	885	0	NR
370	0	NR	500	246	NR	630	648	NR	760	20	NR	890	0	NR
375	0	NR	505	335	NR	635	599	NR	765	17	NR	895	0	NR
380	0	NR	510	427	NR	640	547	NR	770	15	NR	900	0	NR
385	0	NR	515	517	NR	645	495	NR	775	13	NR	905	0	NR
390	0	NR	520	589	NR	650	445	NR	780	11	NR	910	0	NR
395	1	NR	525	649	NR	655	396	NR	785	9	NR	915	0	NR
400	4	NR	530	695	NR	660	349	NR	790	8	NR	920	0	NR
405	6	NR	535	733	NR	665	308	NR	795	7	NR	925	0	NR
410	11	NR	540	763	NR	670	269	NR	800	6	NR	930	0	NR
415	23	NR	545	792	NR	675	235	NR	805	5	NR	935	0	NR
420	46	NR	550	813	NR	680	205	NR	810	5	NR	940	0	NR
425	95	NR	555	835	NR	685	178	NR	815	4	NR	945	0	NR
430	183	NR	560	859	NR	690	155	NR	820	3	NR	950	0	NR
435	338	NR	565	880	NR	695	134	NR	825	3	NR	955	0	NR
440	534	NR	570	900	NR	700	115	NR	830	3	NR	960	0	NR
445	782	NR	575	918	NR	705	99	NR	835	2	NR	965	0	NR
450	1000	NR	580	931	NR	710	84	NR	840	2	NR	970	0	NR
455	739	NR	585	937	NR	715	71	NR	845	2	NR	975	0	NR
460	393	NR	590	939	NR	720	59	NR	850	1	NR	980	0	NR
465	276	NR	595	925	NR	725	49	NR	855	1	NR	985	0	NR
470	190	NR	600	907	NR	730	41	NR	860	1	NR	990	0	NR
475	123	NR	605	878	NR	735	35	NR	865	1	NR	995	0	NR
480	105	NR	610	842	NR	740	31	NR	870	1	NR	1000	0	NR
485	108	NR	615	797	NR	745	28	NR	875	1	NR			

REPORT NUMBER: SP1-2407-176-5

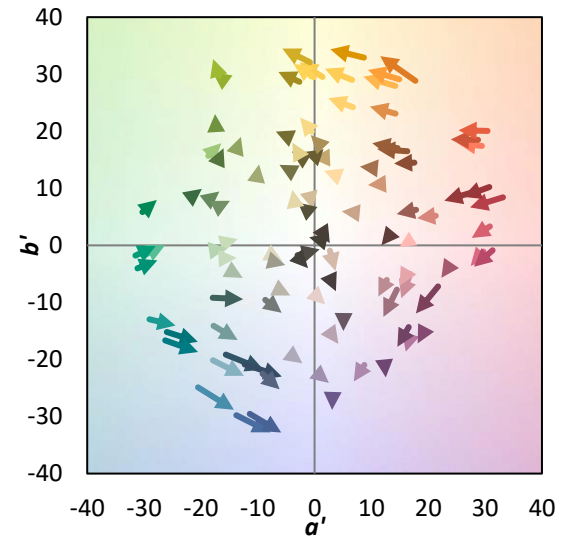
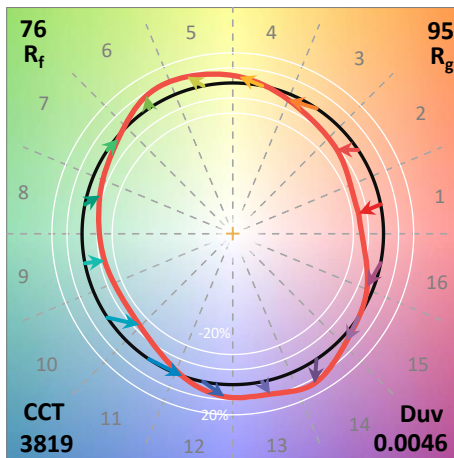
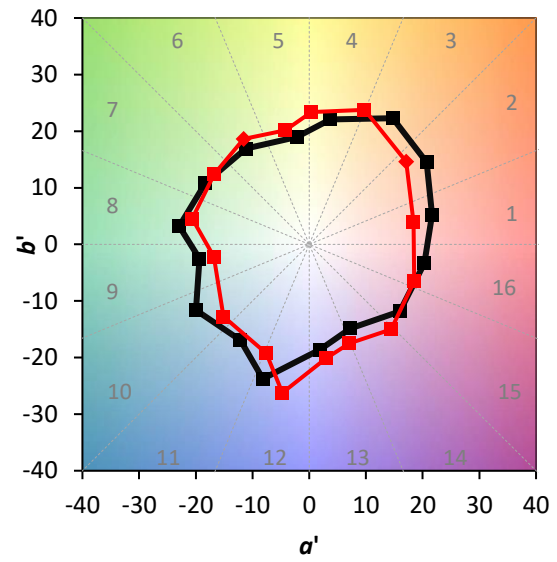
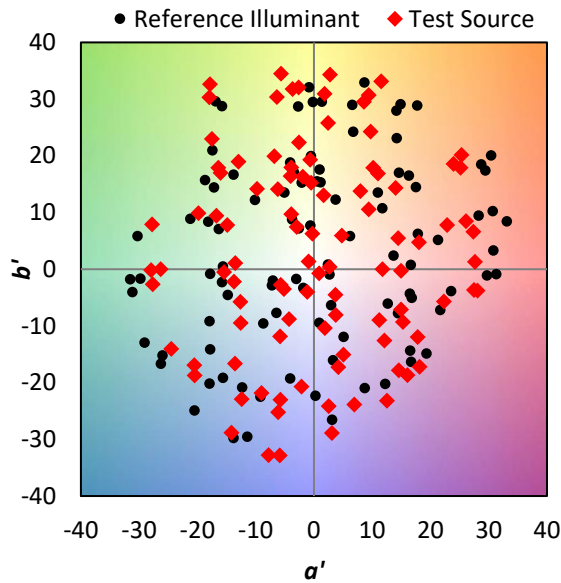
TM-30-18

Summary

$R_f = 75.6$
 $R_g = 94.8$
 $CIE R_a = 72.9$
 $R_g = -21.5$

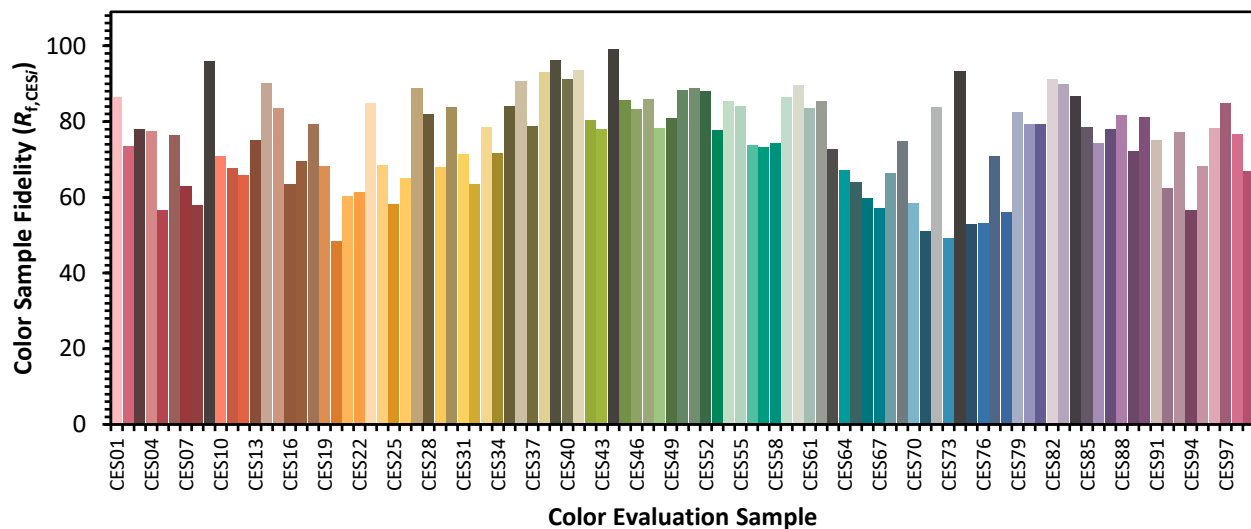


Color Vector Graphics

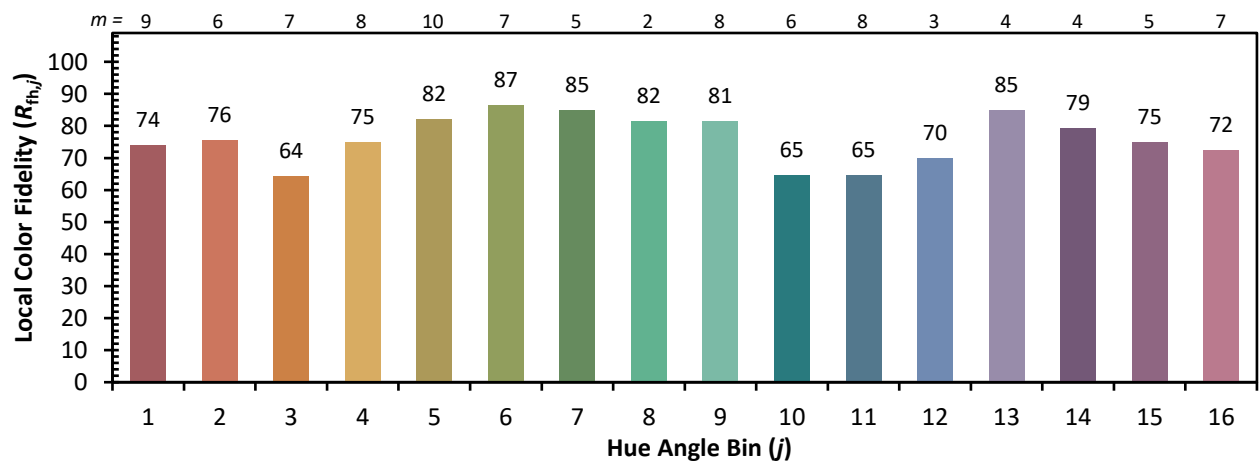
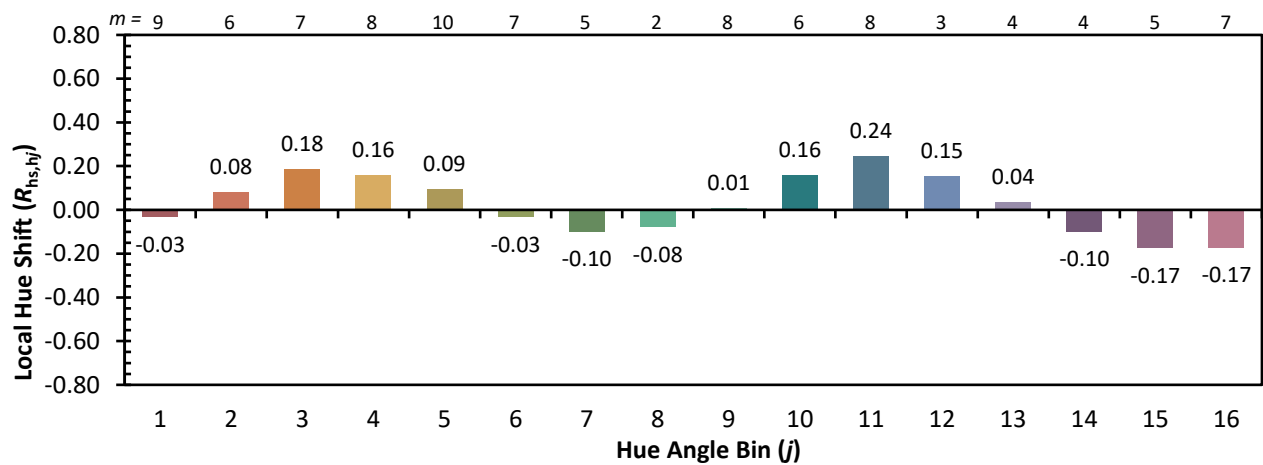
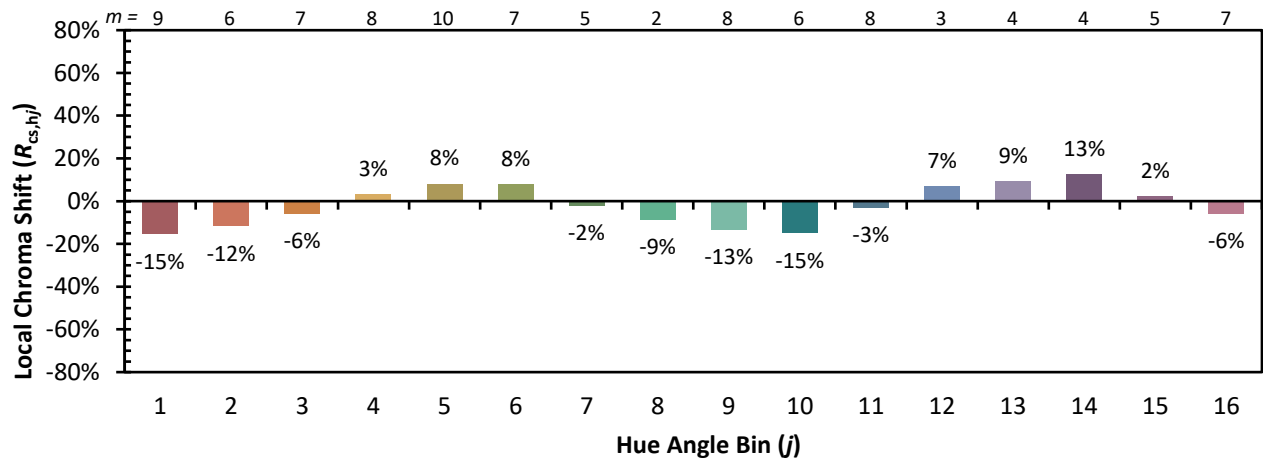


Individual Sample Fidelity Index ($R_{f,i}$)

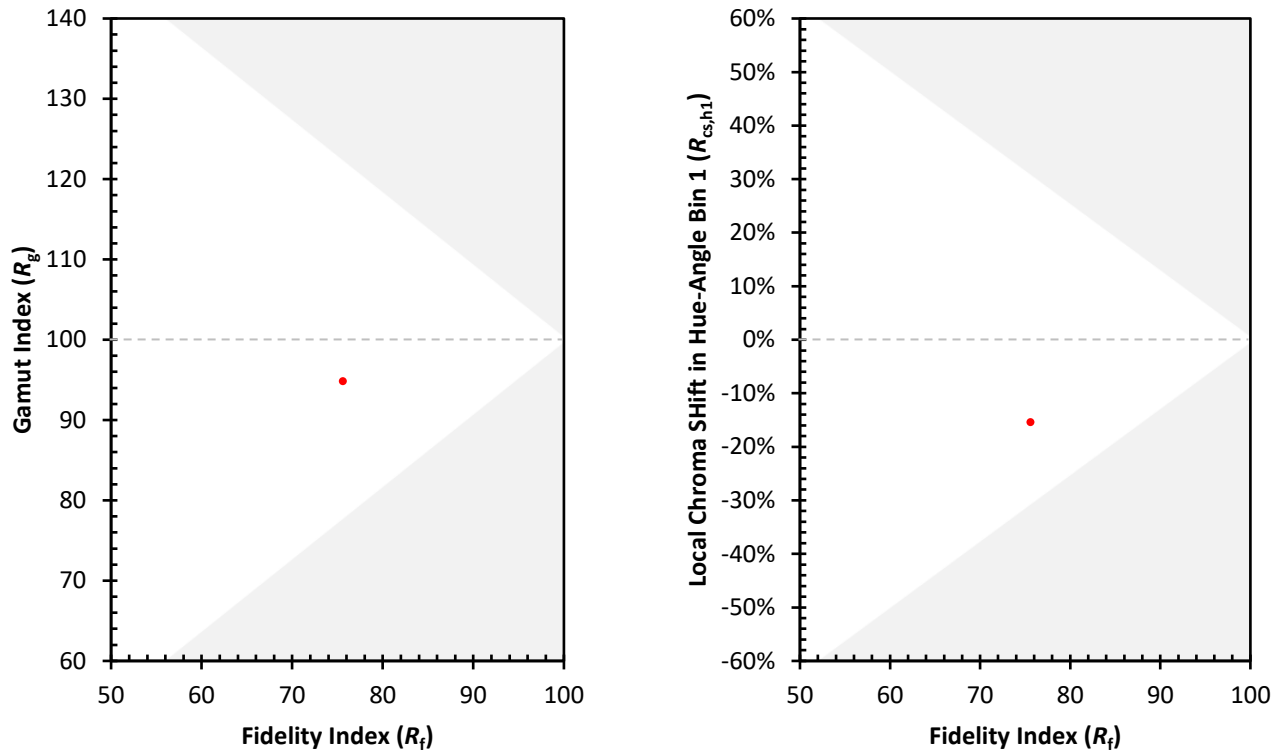
CES01 = 85	CES26 = 65	CES51 = 89	CES76 = 53
CES02 = 61	CES27 = 89	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 82	CES53 = 78	CES78 = 56
CES04 = 70	CES29 = 68	CES54 = 85	CES79 = 83
CES05 = 48	CES30 = 84	CES55 = 84	CES80 = 79
CES06 = 50	CES31 = 71	CES56 = 74	CES81 = 79
CES07 = 40	CES32 = 63	CES57 = 73	CES82 = 91
CES08 = 39	CES33 = 79	CES58 = 74	CES83 = 90
CES09 = 29	CES34 = 72	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 84	CES60 = 90	CES85 = 78
CES11 = 57	CES36 = 91	CES61 = 84	CES86 = 74
CES12 = 63	CES37 = 79	CES62 = 85	CES87 = 78
CES13 = 42	CES38 = 93	CES63 = 73	CES88 = 82
CES14 = 74	CES39 = 96	CES64 = 67	CES89 = 72
CES15 = 71	CES40 = 91	CES65 = 64	CES90 = 81
CES16 = 47	CES41 = 93	CES66 = 60	CES91 = 75
CES17 = 49	CES42 = 80	CES67 = 57	CES92 = 62
CES18 = 56	CES43 = 78	CES68 = 66	CES93 = 77
CES19 = 72	CES44 = 99	CES69 = 75	CES94 = 57
CES20 = 65	CES45 = 86	CES70 = 58	CES95 = 68
CES21 = 86	CES46 = 83	CES71 = 51	CES96 = 78
CES22 = 78	CES47 = 86	CES72 = 84	CES97 = 85
CES23 = 92	CES48 = 78	CES73 = 49	CES98 = 77
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 67
CES25 = 72	CES50 = 88	CES75 = 53	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)