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: McGRAW-EDISON

Report Number: P1501400

Luminaire Tested: GSS-SB1D-730-U-T2LG

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501400
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB1D-730-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 1SQUARE 76W 70CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(26) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9266.3 lumens
Efficiency:	N/A
Efficacy:	121.9 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

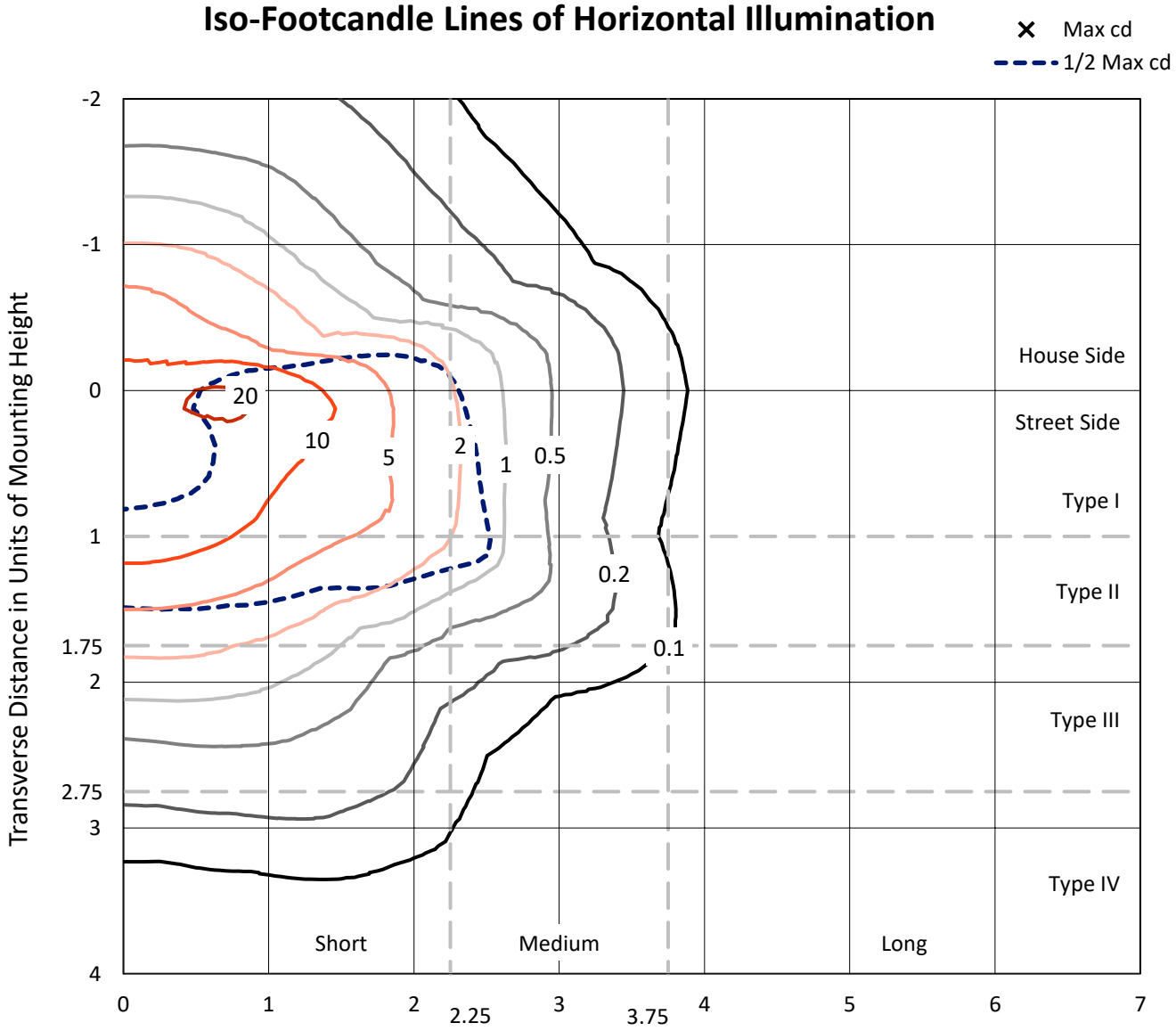
Input Watts (W):	76
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	6.7%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



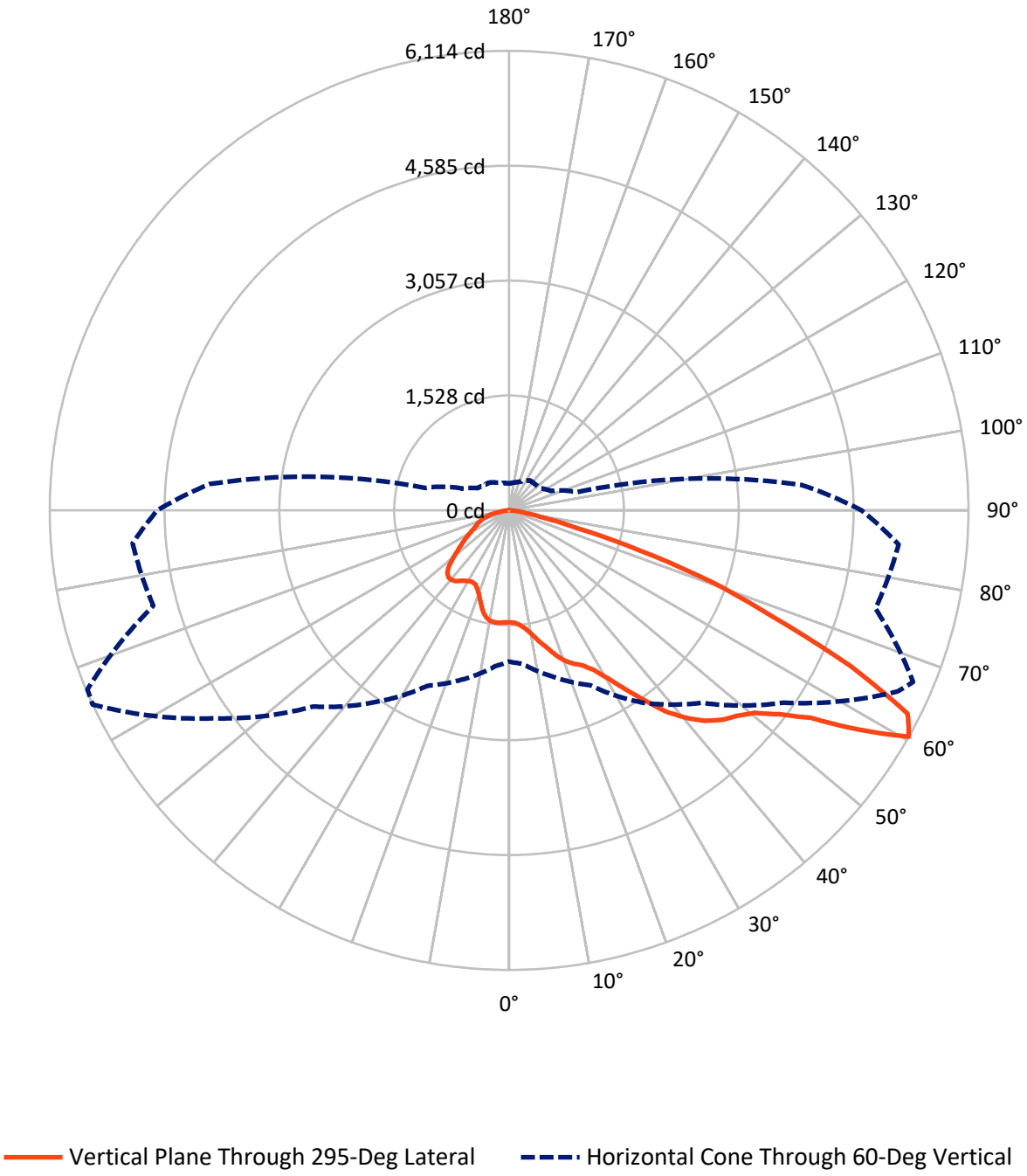
Based on 10 foot mounting height. Maximum calculated value = 22.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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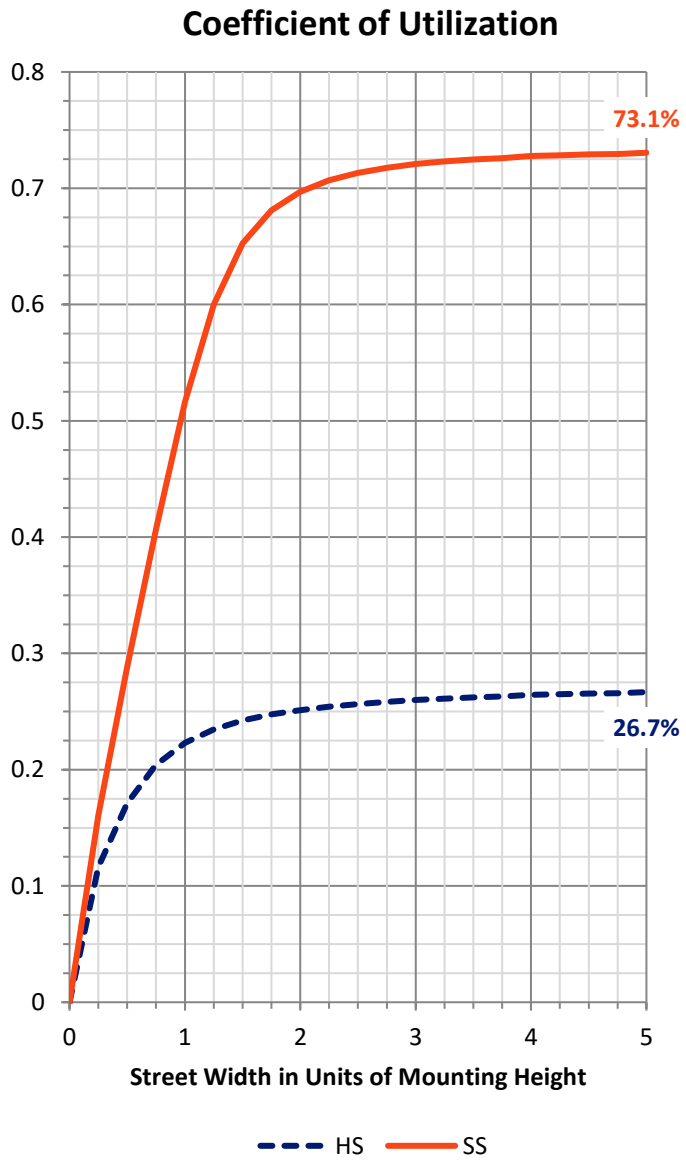
REPORT NUMBER: P1501400
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2491.8	0.0	2491.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	6774.5	0.0	6774.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	9266.3	0.0	9266.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	1.5
10°-20°	403.0	4.3
20°-30°	763.3	8.2
30°-40°	1345.7	14.5
40°-50°	1990.1	21.5
50°-60°	2336.9	25.2
60°-70°	1693.2	18.3
70°-80°	522.2	5.6
80°-90°	71.9	0.8
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°	9266.3	100.0
0°-180°	9266.3	100.0



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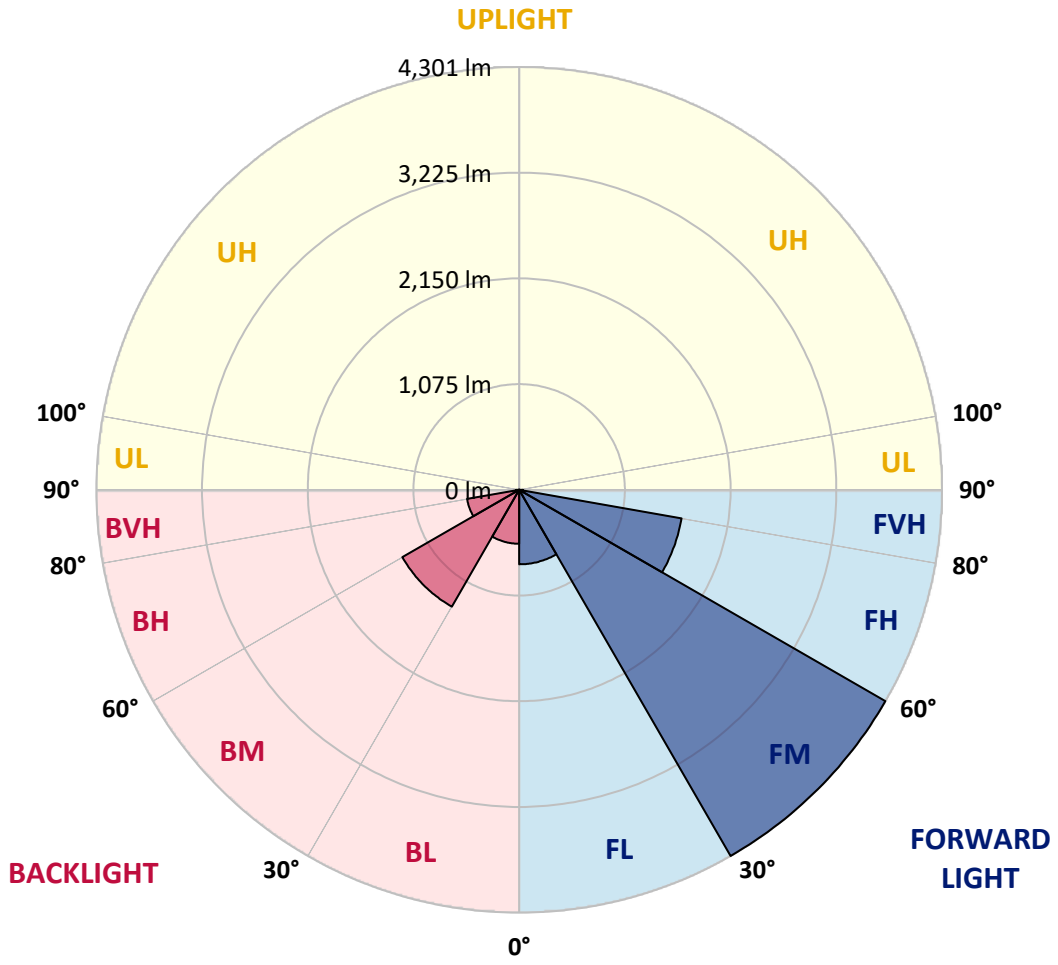
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	757.7	8.2			
FM	(30°-60°)	4300.6	46.4			
FH	(60°-80°)	1677.5	18.1			G1/1800
FVH	(80°-90°)	38.8	0.4			G1/100
BL	(0°-30°)	548.8	5.9	B2/1000		
BM	(30°-60°)	1372.1	14.8	B2/2500		
BH	(60°-80°)	537.9	5.8	B2/1000		G2/1000
BVH	(80°-90°)	33.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9
2.5°	1520.5	1524.7	1518.4	1522.6	1522.6	1516.3	1514.1	1505.7	1509.9	1507.8	1505.7
5°	1556.4	1558.5	1554.3	1560.6	1560.6	1562.7	1560.6	1550.0	1550.0	1550.0	1545.8
7.5°	1545.8	1545.8	1547.9	1569.0	1590.2	1617.6	1617.6	1613.4	1617.6	1615.5	1596.5
10°	1457.1	1465.6	1484.6	1537.4	1588.1	1647.2	1687.3	1700.0	1700.0	1702.1	1670.4
12.5°	1298.7	1305.1	1349.4	1429.7	1535.3	1643.0	1740.1	1803.5	1809.8	1820.3	1778.1
15°	1157.3	1161.5	1193.2	1275.5	1395.9	1585.9	1769.7	1900.6	1921.7	1966.1	1902.7
17.5°	1169.9	1167.8	1176.3	1207.9	1294.5	1493.0	1763.3	2014.6	2052.6	2130.8	2075.9
20°	1245.9	1245.9	1252.3	1258.6	1290.3	1425.4	1716.9	2107.6	2181.5	2333.5	2270.2
22.5°	1366.3	1366.3	1364.2	1374.8	1374.8	1455.0	1719.0	2177.2	2287.1	2559.5	2498.2
25°	1533.1	1524.7	1524.7	1528.9	1509.9	1566.9	1771.8	2249.0	2392.6	2827.7	2774.9
27.5°	1721.1	1727.4	1723.2	1708.4	1683.1	1727.4	1898.5	2361.0	2510.9	3110.6	3089.5
30°	1925.9	1928.1	1932.3	1923.8	1902.7	1934.4	2097.0	2529.9	2667.2	3406.3	3452.8
32.5°	2126.6	2156.1	2145.6	2124.4	2132.9	2189.9	2342.0	2758.0	2899.5	3680.8	3845.5
35°	2382.1	2392.6	2434.9	2356.7	2358.9	2456.0	2654.5	3057.8	3195.1	3965.9	4238.3
37.5°	2753.8	2772.8	2753.8	2631.3	2612.3	2747.4	2958.6	3353.5	3452.8	4181.3	4603.7
40°	3119.1	3142.3	3174.0	3030.4	2910.0	3021.9	3245.8	3579.5	3682.9	4299.6	4846.5
42.5°	3421.1	3459.1	3425.3	3383.1	3273.3	3294.4	3446.4	3754.7	3858.2	4449.5	5091.5
45°	3676.6	3682.9	3697.7	3668.2	3613.2	3594.2	3617.5	3908.9	4022.9	4517.1	5211.9
47.5°	3782.2	3809.6	3822.3	3873.0	3930.0	3892.0	3763.2	3980.7	4084.2	4512.9	5249.9
50°	3725.2	3752.6	3820.2	3940.6	4077.8	4145.4	3934.2	4079.9	4196.1	4588.9	5328.0
52.5°	3575.2	3604.8	3714.6	3851.9	4082.1	4236.2	4175.0	4286.9	4398.8	4724.0	5458.9
55°	3212.0	3256.4	3410.5	3638.6	3955.4	4187.6	4428.4	4591.0	4713.5	4886.6	5594.1
57.5°	2684.1	2730.5	2903.7	3245.8	3720.9	3987.0	4502.3	5161.2	5216.1	5080.9	5606.8
60°	*2010.4*	*2048.4*	*2293.4*	*2567.9*	*3125.4*	*3619.6*	*4460.1*	*5701.8*	*5841.2*	*5047.1*	*5203.4*
62.5°	1592.3	1638.7	1856.2	1983.0	2382.1	2990.3	4312.2	5851.7	5972.1	4768.4	4641.7
65°	1243.8	1275.5	1478.2	1659.9	1757.0	2042.1	3695.6	5118.9	5226.6	4314.4	3830.8
67.5°	821.5	870.1	1110.8	1360.0	1410.7	1298.7	2542.6	3938.5	3989.1	3429.5	2880.5
70°	589.2	612.4	791.9	1058.0	1134.0	870.1	1385.3	2981.8	2996.6	2301.8	1940.7
72.5°	401.2	405.5	538.5	810.9	903.8	631.4	762.4	1964.0	1913.3	1136.1	1110.8
75°	272.4	276.6	344.2	540.6	639.9	439.2	496.3	1070.7	1028.4	627.2	673.7
77.5°	183.7	187.9	236.5	363.2	426.6	304.1	363.2	566.0	555.4	416.0	361.1
80°	139.4	145.7	175.3	232.3	297.8	177.4	207.0	268.2	272.4	221.7	183.7
82.5°	78.1	86.6	105.6	118.3	192.2	99.3	99.3	160.5	154.2	137.3	99.3
85°	33.8	35.9	42.2	44.3	78.1	42.2	35.9	69.7	71.8	67.6	31.7
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	8.4	8.4	8.4	8.4
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9
2.5°	1495.1	1507.8	1495.1	1488.8	1488.8	1478.2	1474.0	1474.0	1459.2	1465.6	1461.3
5°	1528.9	1533.1	1518.4	1499.4	1474.0	1452.9	1423.3	1385.3	1362.1	1360.0	1362.1
7.5°	1581.7	1583.8	1543.7	1501.5	1438.1	1362.1	1271.3	1197.4	1131.9	1121.4	1134.0
10°	1655.6	1651.4	1592.3	1493.0	1360.0	1199.5	1060.1	992.5	954.5	952.4	950.3
12.5°	1754.9	1727.4	1636.6	1457.1	1224.8	1039.0	967.2	963.0	973.5	982.0	984.1
15°	1868.9	1833.0	1672.5	1387.4	1087.6	979.9	984.1	1020.0	1032.7	1041.1	1041.1
17.5°	2010.4	1964.0	1712.6	1288.2	1017.9	992.5	1022.1	1055.9	1077.0	1085.5	1083.3
20°	2198.4	2101.2	1744.3	1193.2	998.9	1013.7	1039.0	1072.8	1093.9	1104.5	1104.5
22.5°	2386.3	2265.9	1750.7	1127.7	998.9	1015.8	1039.0	1072.8	1096.0	1106.6	1104.5
25°	2641.8	2477.1	1752.8	1081.2	1001.0	1005.2	1026.3	1055.9	1089.7	1100.2	1104.5
27.5°	2914.2	2709.4	1763.3	1070.7	992.5	990.4	1005.2	1032.7	1066.4	1093.9	1096.0
30°	3252.1	2971.3	1767.6	1081.2	994.6	967.2	977.8	1005.2	1041.1	1068.6	1077.0
32.5°	3583.7	3214.1	1759.1	1104.5	998.9	952.4	954.5	971.4	1009.4	1028.4	1043.2
35°	3934.2	3471.8	1744.3	1136.1	1001.0	946.1	927.1	935.5	960.9	963.0	969.3
37.5°	4208.8	3663.9	1700.0	1178.4	1005.2	922.8	884.8	878.5	867.9	846.8	851.0
40°	4434.7	3792.7	1626.1	1199.5	994.6	895.4	832.0	802.5	762.4	730.7	737.0
42.5°	4597.3	3879.3	1537.4	1203.7	977.8	848.9	770.8	720.1	675.8	642.0	644.1
45°	4669.1	3870.9	1442.3	1172.0	937.6	791.9	713.8	665.2	616.6	580.7	576.5
47.5°	4671.2	3788.5	1311.4	1096.0	870.1	726.5	661.0	608.2	568.1	542.7	540.6
50°	4688.1	3742.1	1188.9	986.2	781.4	656.8	614.5	561.7	538.5	502.6	492.0
52.5°	4793.7	3818.1	1104.5	865.8	699.0	606.1	574.4	527.9	489.9	466.7	464.6
55°	4964.8	3949.0	1058.0	775.0	620.9	557.5	536.4	496.3	462.5	439.2	432.9
57.5°	4985.9	4016.6	1003.1	690.6	557.5	519.5	511.0	466.7	418.1	401.2	394.9
60°	*4690.3*	*3902.6*	*935.5*	*612.4*	*511.0*	*489.9*	*485.7*	*426.6*	*386.5*	*365.3*	*356.9*
62.5°	4286.9	3617.5	832.0	540.6	475.1	460.4	443.5	397.0	346.3	323.1	316.8
65°	3503.4	3041.0	707.4	492.0	439.2	422.4	418.1	354.8	321.0	308.3	306.2
67.5°	2654.5	2443.3	623.0	456.1	401.2	394.9	380.1	359.0	344.2	329.4	325.2
70°	1877.4	1763.3	530.1	409.7	363.2	352.7	413.9	390.7	337.9	318.9	316.8
72.5°	1138.2	1106.6	458.3	367.4	312.5	329.4	382.2	352.7	304.1	280.9	272.4
75°	718.0	656.8	384.3	312.5	249.2	268.2	333.7	314.7	261.9	238.6	232.3
77.5°	390.7	363.2	289.3	255.5	196.4	217.5	291.4	259.7	209.1	228.1	202.7
80°	171.1	190.1	192.2	147.8	130.9	160.5	209.1	202.7	160.5	162.6	135.2
82.5°	82.4	107.7	124.6	101.4	73.9	95.0	139.4	116.1	107.7	101.4	97.1
85°	25.3	40.1	54.9	48.6	33.8	40.1	65.5	63.4	76.0	65.5	61.2
87.5°	8.4	8.4	6.3	6.3	6.3	8.4	10.6	6.3	2.1	2.1	0.0
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9
2.5°	1459.2	1461.3	1461.3	1463.5	1463.5	1469.8	1478.2	1486.7	1480.4	1488.8	1490.9
5°	1357.9	1368.4	1376.9	1408.6	1433.9	1455.0	1478.2	1499.4	1505.7	1509.9	1520.5
7.5°	1119.2	1148.8	1203.7	1275.5	1355.8	1433.9	1486.7	1541.6	1550.0	1560.6	1575.4
10°	952.4	965.1	1003.1	1077.0	1220.6	1374.8	1503.6	1590.2	1626.1	1647.2	1662.0
12.5°	979.9	971.4	965.1	975.6	1068.6	1267.1	1493.0	1659.9	1727.4	1750.7	1769.7
15°	1045.3	1036.9	1013.7	984.1	994.6	1153.0	1457.1	1725.3	1833.0	1871.0	1911.2
17.5°	1083.3	1074.9	1055.9	1024.2	996.8	1058.0	1389.5	1784.4	1999.9	2046.3	2103.3
20°	1104.5	1096.0	1077.0	1045.3	1013.7	1022.1	1303.0	1858.4	2189.9	2263.8	2348.3
22.5°	1108.7	1098.1	1077.0	1045.3	1026.3	1020.0	1220.6	1902.7	2394.8	2508.8	2605.9
25°	1106.6	1087.6	1060.1	1036.9	1026.3	1024.2	1163.6	1928.1	2616.5	2798.1	2907.9
27.5°	1091.8	1068.6	1041.1	1024.2	1020.0	1032.7	1138.2	1957.6	2876.2	3108.5	3283.8
30°	1074.9	1041.1	1007.3	1001.0	1011.5	1051.7	1159.4	1968.2	3148.7	3446.4	3625.9
32.5°	1030.5	1005.2	971.4	969.3	994.6	1066.4	1207.9	1953.4	3389.4	3784.3	4010.3
35°	967.2	952.4	933.4	939.7	979.9	1079.1	1241.7	1906.9	3609.0	4099.0	4362.9
37.5°	855.3	865.8	876.4	891.2	941.9	1077.0	1256.5	1833.0	3790.6	4350.3	4688.1
40°	730.7	766.6	800.4	838.4	906.0	1060.1	1260.7	1742.2	3896.2	4540.3	4977.5
42.5°	652.5	686.3	728.6	783.5	857.4	1022.1	1256.5	1640.8	3930.0	4671.2	5161.2
45°	580.7	620.9	673.7	730.7	815.1	967.2	1218.5	1531.0	3946.9	4732.5	5239.3
47.5°	542.7	566.0	614.5	671.5	760.2	899.6	1144.6	1450.8	3921.6	4745.2	5334.3
50°	498.4	530.1	561.7	616.6	703.2	815.1	1055.9	1404.3	3963.8	4869.8	5484.3
52.5°	464.6	481.5	515.3	566.0	629.3	737.0	971.4	1366.3	4079.9	4996.5	5640.5
55°	439.2	458.3	479.4	521.6	570.2	658.9	884.8	1309.3	4215.1	5131.6	5796.8
57.5°	399.1	411.8	441.4	485.7	517.4	582.8	783.5	1241.7	4204.5	5026.0	5526.5
60°	*363.2*	*375.9*	*407.6*	*451.9*	*470.9*	*515.3*	*684.2*	*1155.1*	*4001.8*	*4681.8*	*5028.1*
62.5°	323.1	337.9	375.9	407.6	424.5	458.3	580.7	996.8	3579.5	4164.4	4445.3
65°	306.2	314.7	340.0	378.0	375.9	407.6	489.9	783.5	2880.5	3182.4	3438.0
67.5°	325.2	337.9	333.7	344.2	337.9	354.8	439.2	629.3	2263.8	2396.9	2544.7
70°	321.0	350.6	365.3	344.2	295.6	314.7	380.1	502.6	1619.7	1607.1	1600.7
72.5°	280.9	310.4	352.7	373.8	289.3	261.9	329.4	435.0	1039.0	1034.8	935.5
75°	238.6	259.7	310.4	337.9	249.2	211.2	283.0	369.6	620.9	629.3	561.7
77.5°	219.6	209.1	259.7	297.8	202.7	162.6	228.1	278.8	342.1	346.3	321.0
80°	158.4	152.0	194.3	217.5	154.2	116.1	128.8	173.2	183.7	164.7	171.1
82.5°	101.4	103.5	116.1	139.4	95.0	63.4	88.7	116.1	99.3	80.2	95.0
85°	65.5	73.9	61.2	71.8	29.6	29.6	38.0	50.7	33.8	23.2	25.3
87.5°	0.0	0.0	4.2	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	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: P1501400
CATALOG NUMBER: GSS-SB1D-730-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1490.9	1490.9	*1490.9*	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9	1490.9
2.5°	1497.2	1495.1	*1495.1*	1499.4	1509.9	1514.1	1520.5	1518.4	1524.7	1520.5
5°	1526.8	1528.9	*1535.3*	1537.4	1543.7	1552.2	1554.3	1552.2	1556.4	1556.4
7.5°	1585.9	1594.4	*1590.2*	1600.7	1592.3	1581.7	1564.8	1552.2	1541.6	1545.8
10°	1685.2	1681.0	*1678.9*	1659.9	1621.8	1566.9	1522.6	1474.0	1465.6	1457.1
12.5°	1795.0	1790.8	*1790.8*	1725.3	1617.6	1503.6	1402.2	1326.2	1300.9	1298.7
15°	1949.2	1921.7	*1896.4*	1759.1	1543.7	1349.4	1231.2	1172.0	1157.3	1157.3
17.5°	2141.3	2069.5	*2027.3*	1733.8	1423.3	1248.1	1178.4	1163.6	1159.4	1169.9
20°	2380.0	2198.4	*2137.1*	1676.7	1379.0	1260.7	1226.9	1229.1	1231.2	1245.9
22.5°	2641.8	2316.6	*2215.3*	1676.7	1423.3	1341.0	1324.1	1347.3	1353.6	1366.3
25°	2933.3	2422.2	*2284.9*	1765.4	1554.3	1493.0	1471.9	1495.1	1512.0	1533.1
27.5°	3260.6	2532.0	*2405.3*	1925.9	1723.2	1685.2	1662.0	1672.5	1695.8	1721.1
30°	3554.1	2715.7	*2589.0*	2170.9	1953.4	1906.9	1866.8	1883.7	1909.0	1925.9
32.5°	3813.9	2939.6	*2831.9*	2428.5	2217.4	2137.1	2092.8	2088.5	2139.2	2126.6
35°	4052.5	3203.6	*3100.1*	2722.1	2485.6	2386.3	2327.2	2403.2	2369.4	2382.1
37.5°	4240.4	3478.1	*3395.7*	3002.9	2764.3	2629.2	2593.3	2686.2	2739.0	2753.8
40°	4394.6	3716.7	*3630.1*	3281.7	3019.8	2920.6	2977.6	3131.8	3125.4	3119.1
42.5°	4512.9	3921.6	*3826.5*	3492.9	3264.8	3283.8	3328.2	3431.6	3457.0	3421.1
45°	4565.7	4050.4	*3974.4*	3659.7	3543.6	3653.4	3672.4	3716.7	3699.8	3676.6
47.5°	4626.9	4164.4	*4084.2*	3811.8	3845.5	3953.2	3915.2	3879.3	3818.1	3782.2
50°	4730.4	4299.6	*4232.0*	4033.5	4156.0	4120.1	3972.2	3892.0	3767.4	3725.2
52.5°	4926.8	4555.1	*4504.4*	4384.0	4301.7	4094.7	3915.2	3771.6	3632.3	3575.2
55°	5102.0	4901.4	*4871.9*	4711.4	4257.3	3961.7	3720.9	3499.2	3260.6	3212.0
57.5°	5203.4	5475.8	*5509.6*	4850.7	4054.6	3659.7	3304.9	2950.1	2724.2	2684.1
60°	*4901.4*	*6096.7*	*6113.6*	*4823.3*	*3689.3*	*3114.9*	*2574.3*	*2323.0*	*2080.1*	*2010.4*
62.5°	4485.4	5967.9	*5953.1*	4658.6	2937.5	2272.3	1955.5	1837.2	1649.3	1592.3
65°	3856.1	4971.1	*4988.0*	4025.0	1953.4	1643.0	1643.0	1493.0	1284.0	1243.8
67.5°	3142.3	3832.9	*3794.9*	2610.2	1199.5	1315.6	1379.0	1163.6	870.1	821.5
70°	2042.1	2926.9	*2874.1*	1505.7	753.9	1096.0	1085.5	874.3	623.0	589.2
72.5°	878.5	1691.5	*1799.2*	768.7	568.1	882.7	865.8	612.4	416.0	401.2
75°	530.1	851.0	*927.1*	489.9	413.9	665.2	599.7	388.6	283.0	272.4
77.5°	335.8	466.7	*462.5*	367.4	310.4	449.8	403.3	268.2	192.2	183.7
80°	194.3	230.2	*238.6*	230.2	209.1	321.0	257.6	194.3	149.9	139.4
82.5°	124.6	143.6	*145.7*	111.9	116.1	207.0	139.4	114.0	86.6	78.1
85°	54.9	61.2	*59.1*	38.0	38.0	84.5	48.6	46.5	33.8	33.8
87.5°	2.1	4.2	*2.1*	2.1	2.1	8.4	4.2	6.3	6.3	6.3
90°	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

McGraw-Edison

Report Number: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

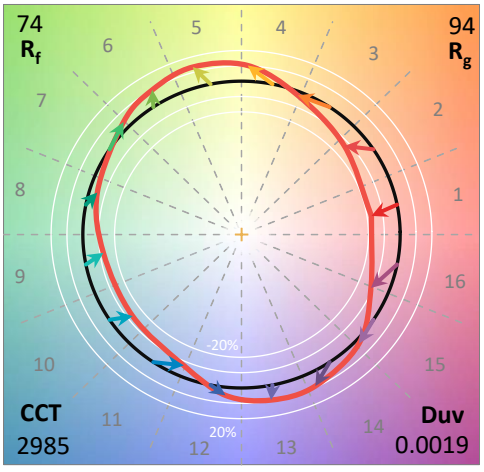
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-4
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	10/15/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGraw-Edison
Catalog Number:	**GSS-SB1A-730-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985
CIE u':	0.2504
CIE v':	0.5243
Duv:	0.0019
CIE x:	0.4408
CIE y:	0.4101
CIE z:	0.1491
Peak Wavelength (nm):	595
Dominant Wavelength (nm):	582
Purity:	55.41818
Rf:	73.8
Rg:	94.4

CRI (Ra):	70.8
R1:	66.3
R2:	80.6
R3:	94.5
R4:	68.2
R5:	66.5
R6:	74.7
R7:	76.2
R8:	39.6
R9:	-43.2
R10:	57.6
R11:	64.8
R12:	53.5
R13:	68.7
R14:	97.0
R15:	56.4



Test Conditions

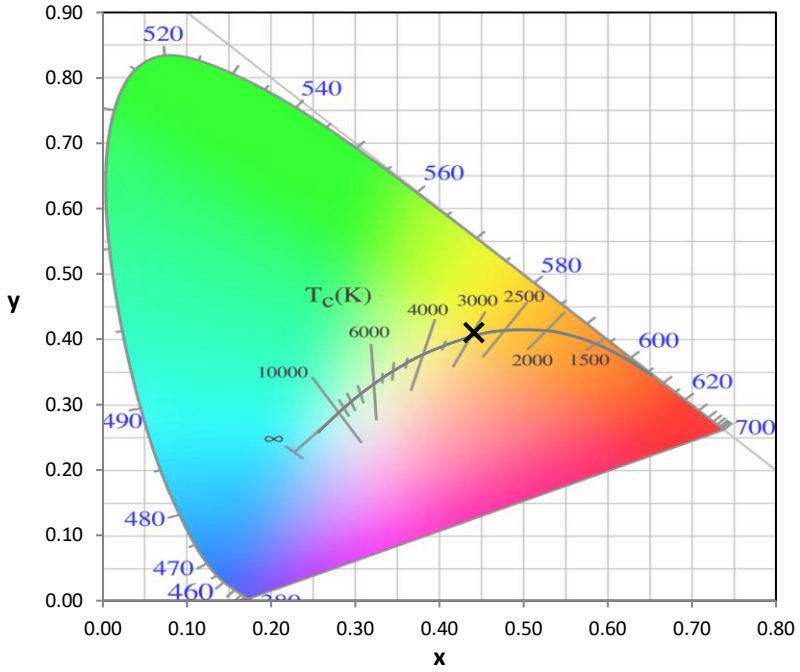
Stabilization Time:	36M
Operation Time:	1H 36M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-4

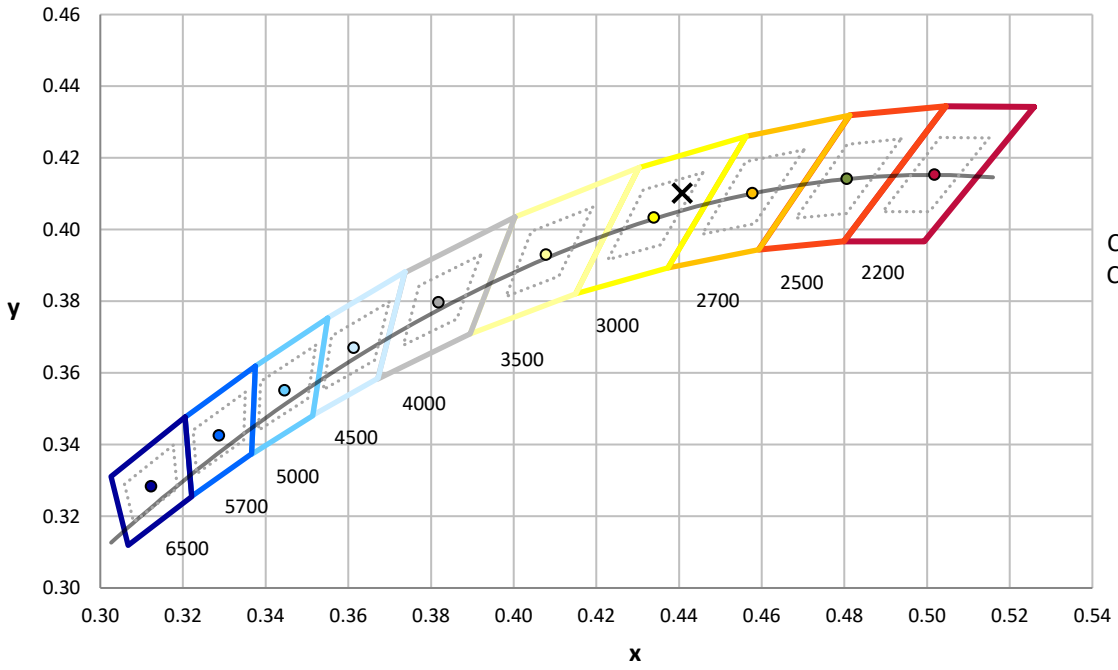
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



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

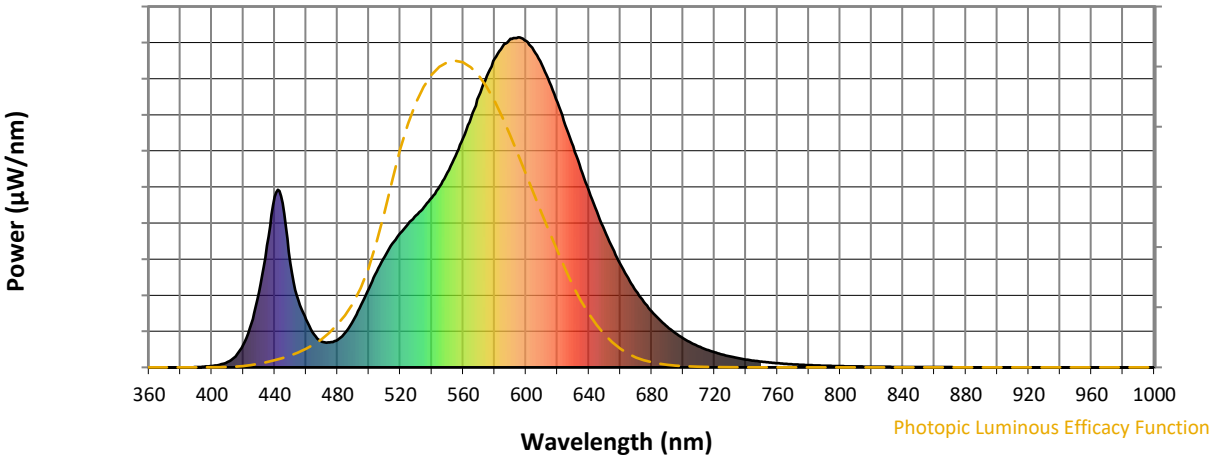


CCT = 2985K
CIE x = 0.4408
CIE y = 0.4101
Duv = 0.0019

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

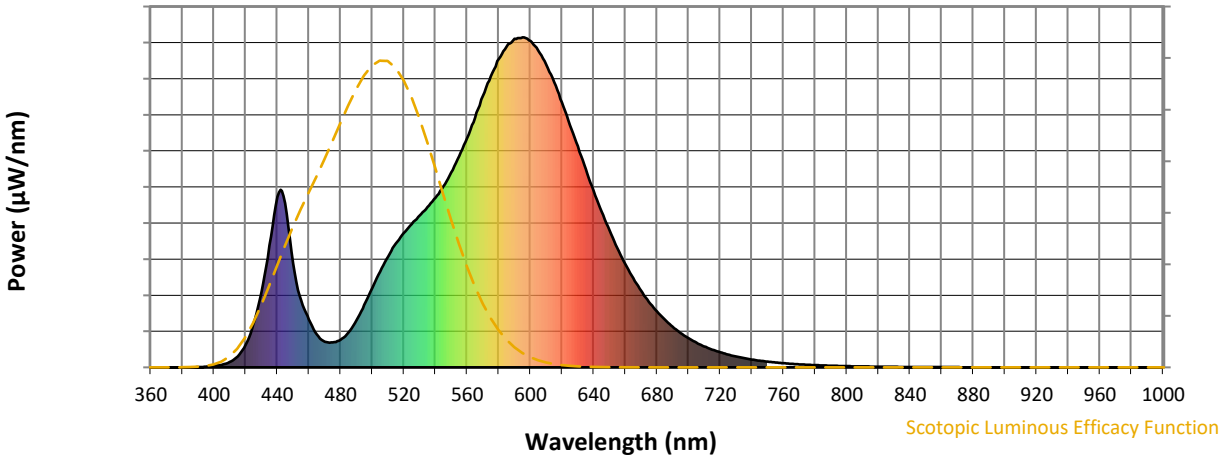


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength

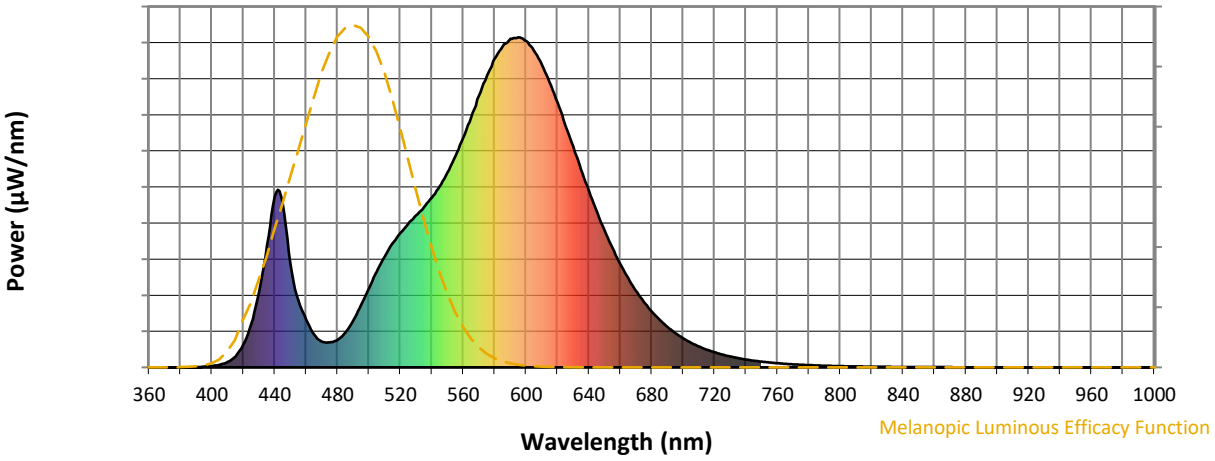


Scotopic Lumens: NR **S/P: 1.19**

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.13**

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

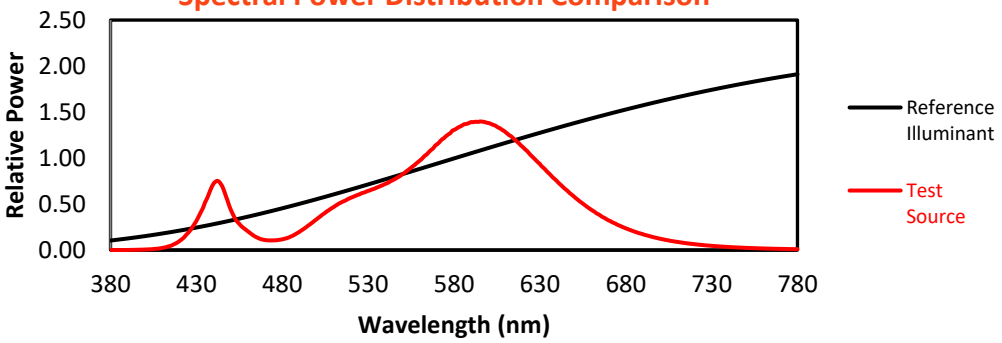
REPORT NUMBER: SP1-2407-184-4

TM-30-18

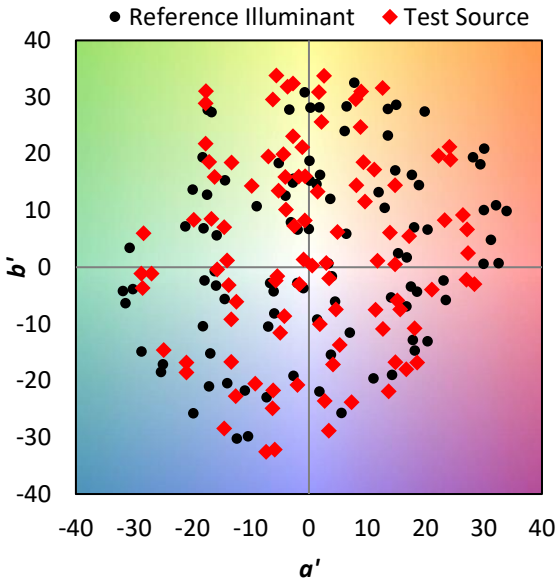
Summary

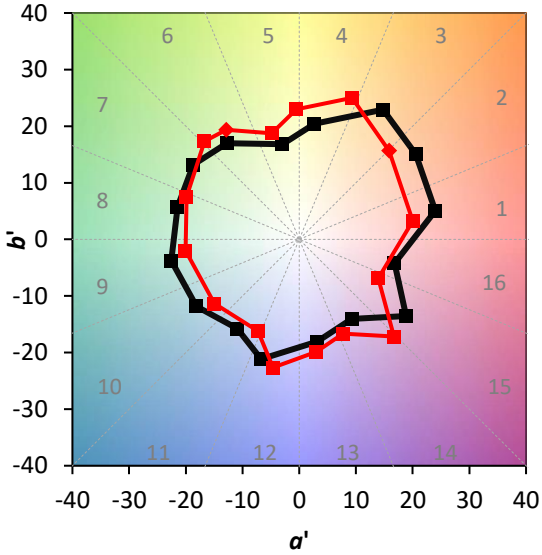
R_f = 73.8
R_g = 94.4
CIE R_a = 70.8
R_9 = -43.2

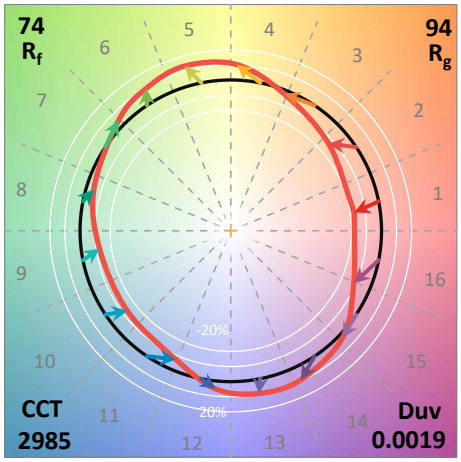
Spectral Power Distribution Comparison

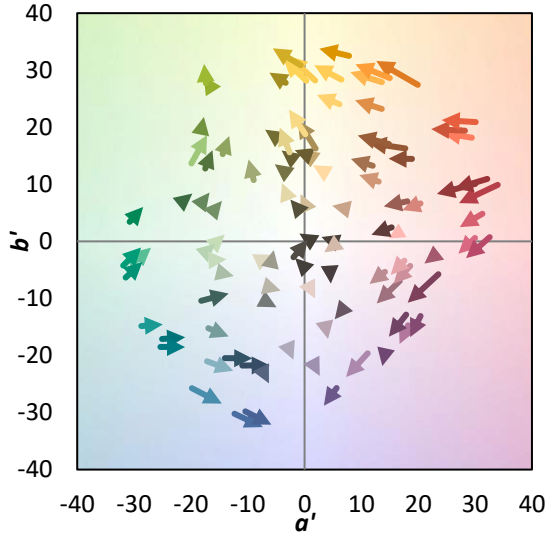


Color Vector Graphics







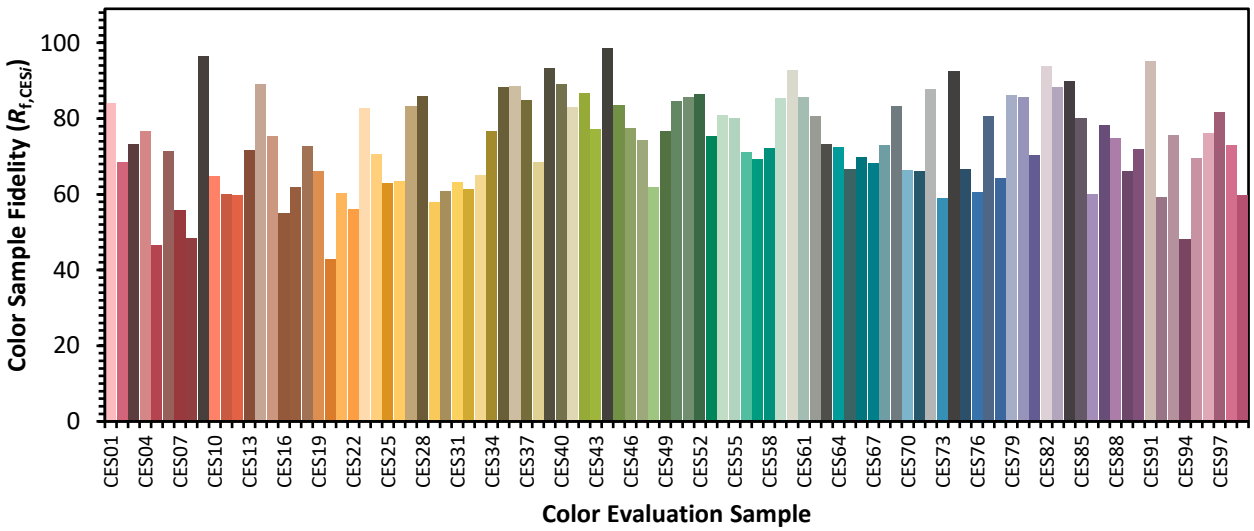


REPORT NUMBER: SP1-2407-184-4

TM-30-18

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

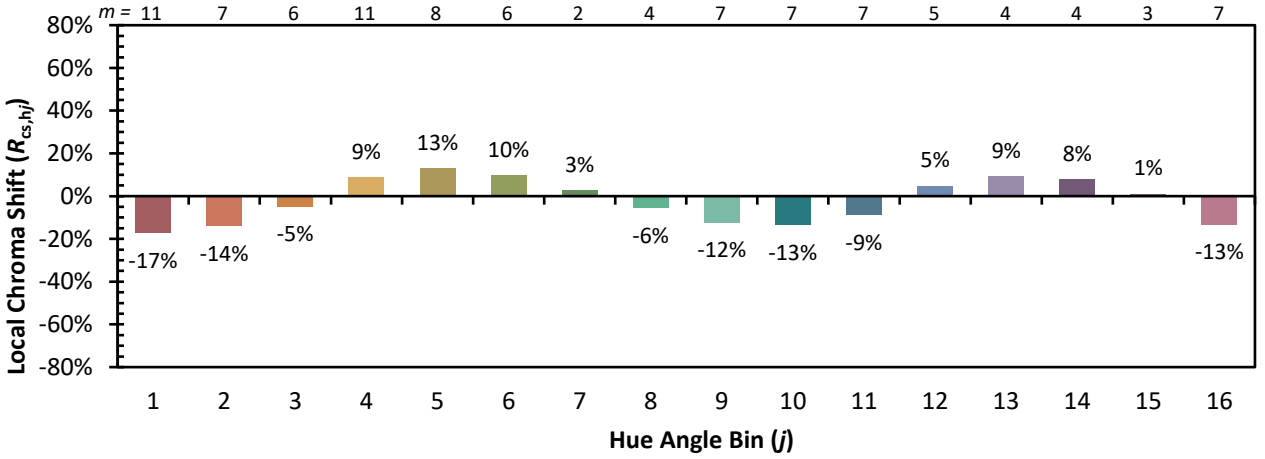
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CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
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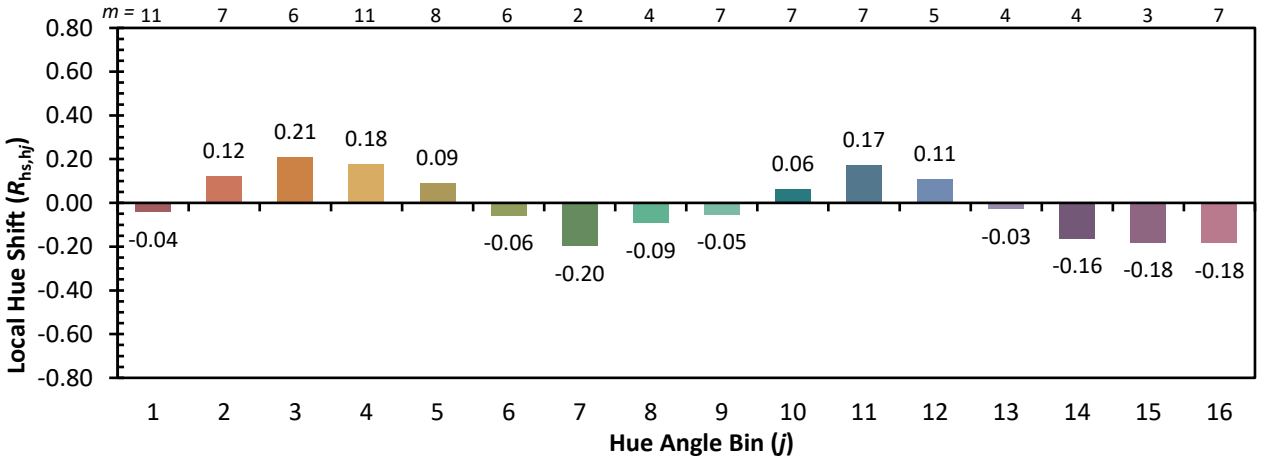


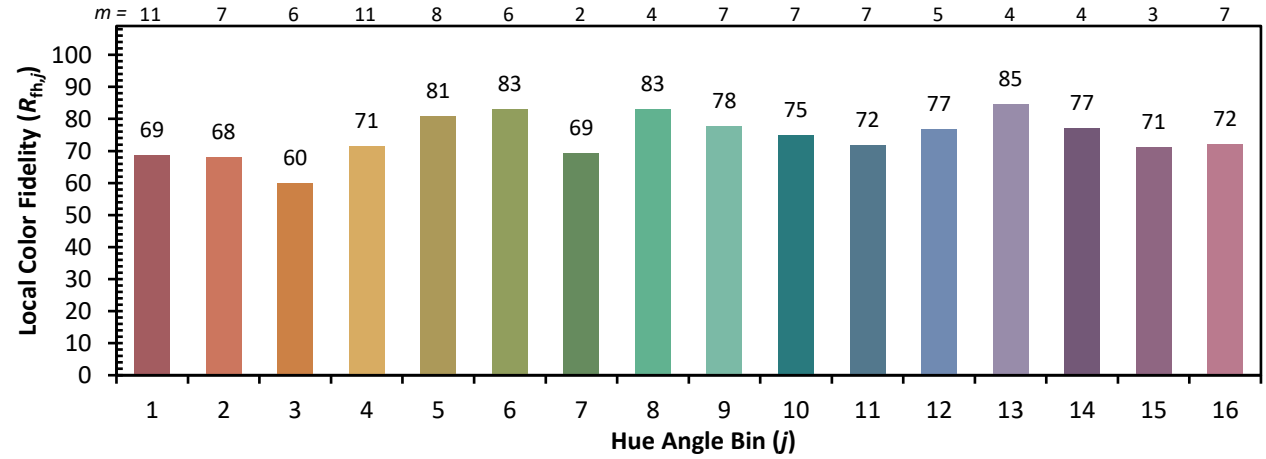
REPORT NUMBER: SP1-2407-184-4

TM-30-18

Color Rendition by Hue-Angle Bin



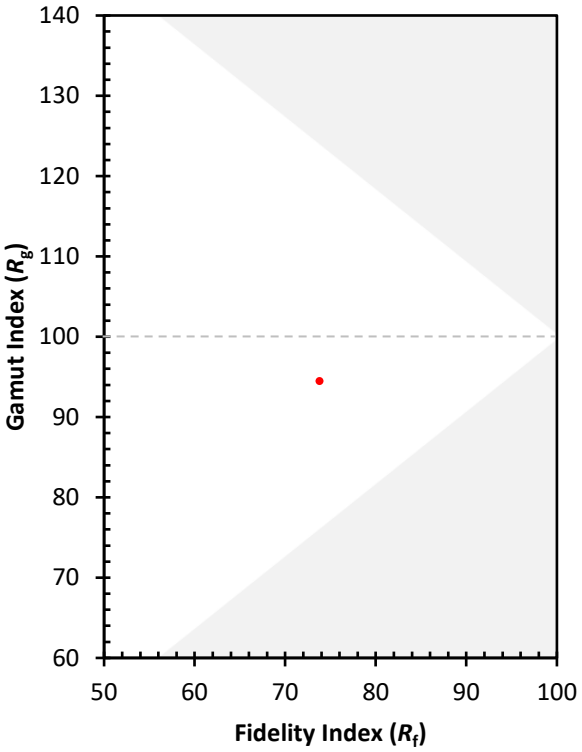


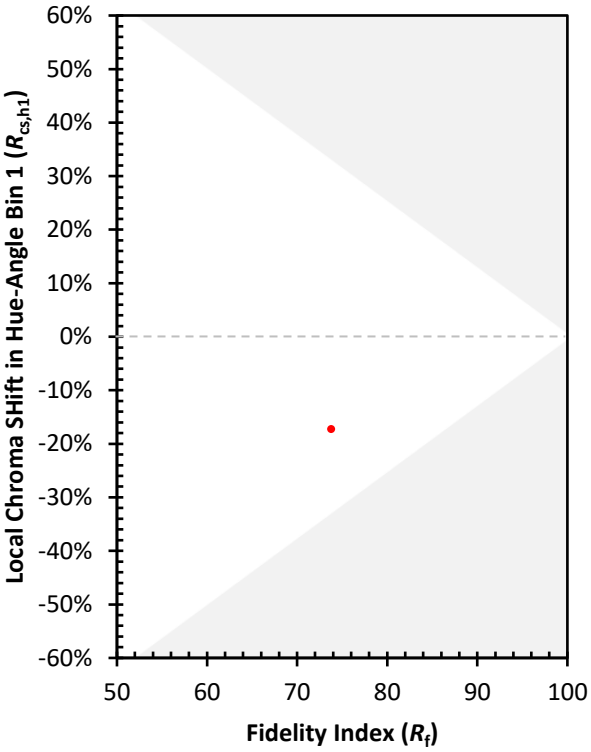


REPORT NUMBER: SP1-2407-184-4

TM-30-18

Measure Comparisons





(END OF REPORT)