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: P1501572

Luminaire Tested: GSS-SB2D-840-U-T2LG

Issue Date: 07/20/2026

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501572
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2D-840-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 147W 80CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(52) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	18099.3 lumens
Efficiency:	N/A
Efficacy:	123.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

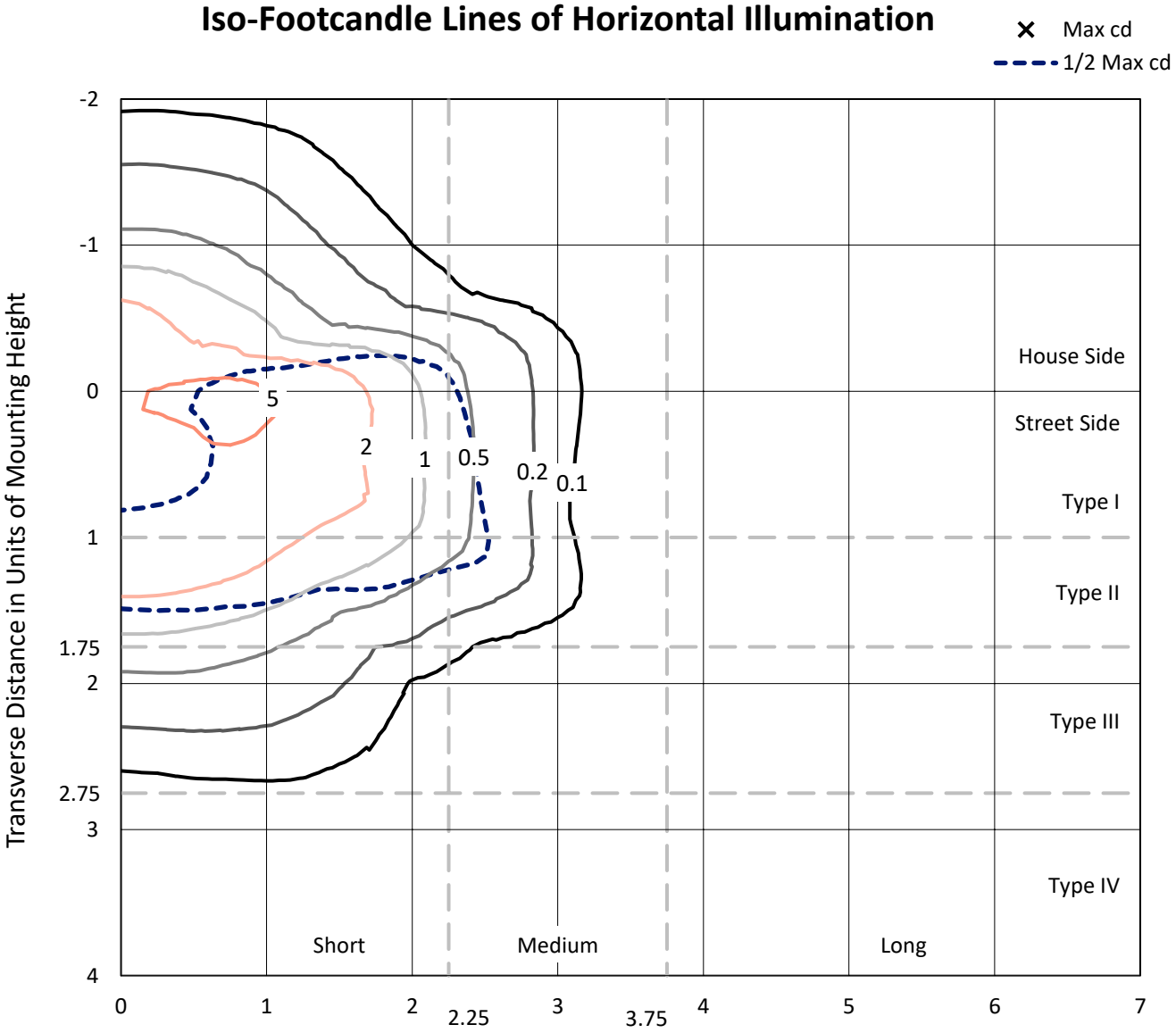
Input Watts (W):	147
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	3.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



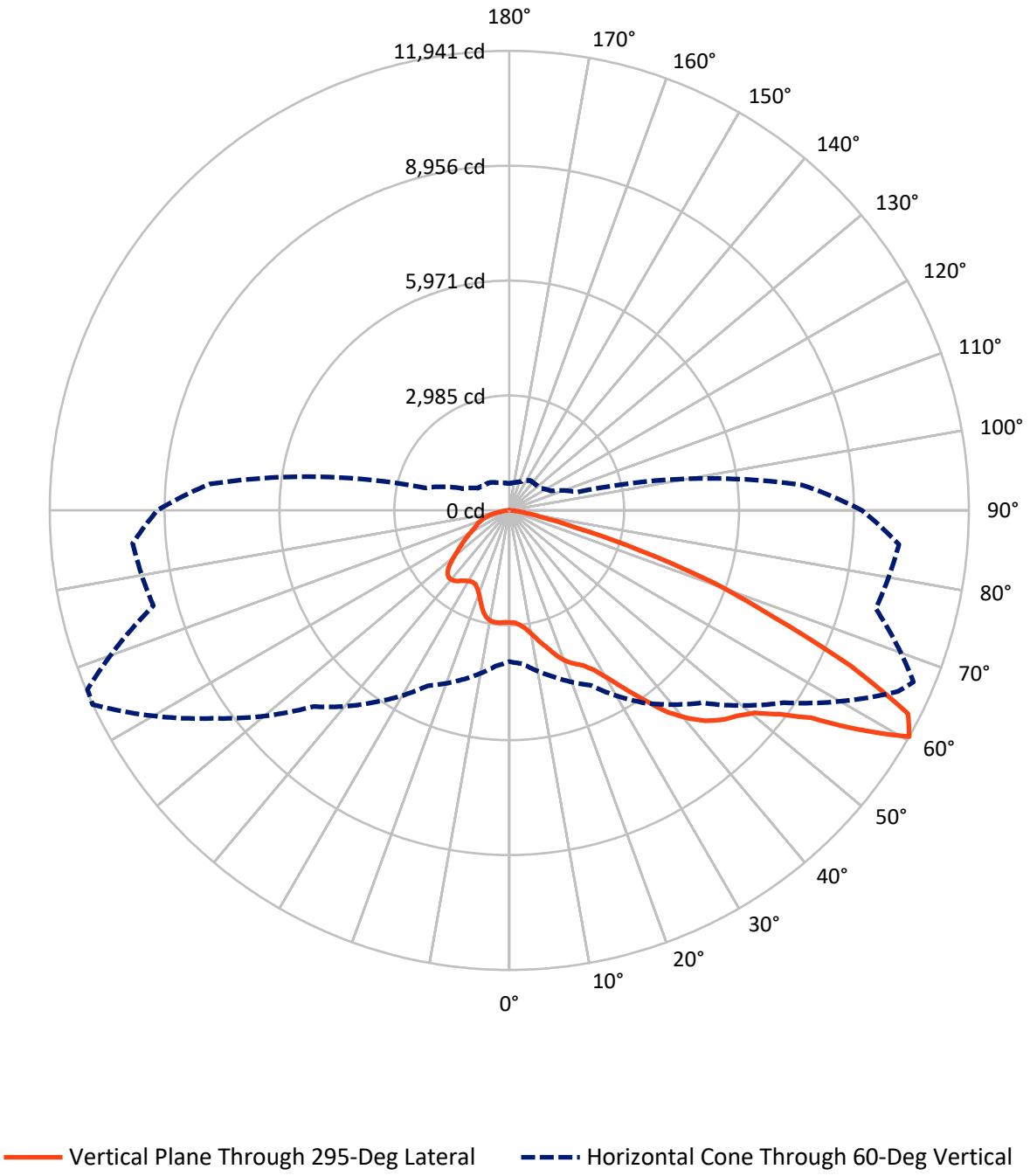
Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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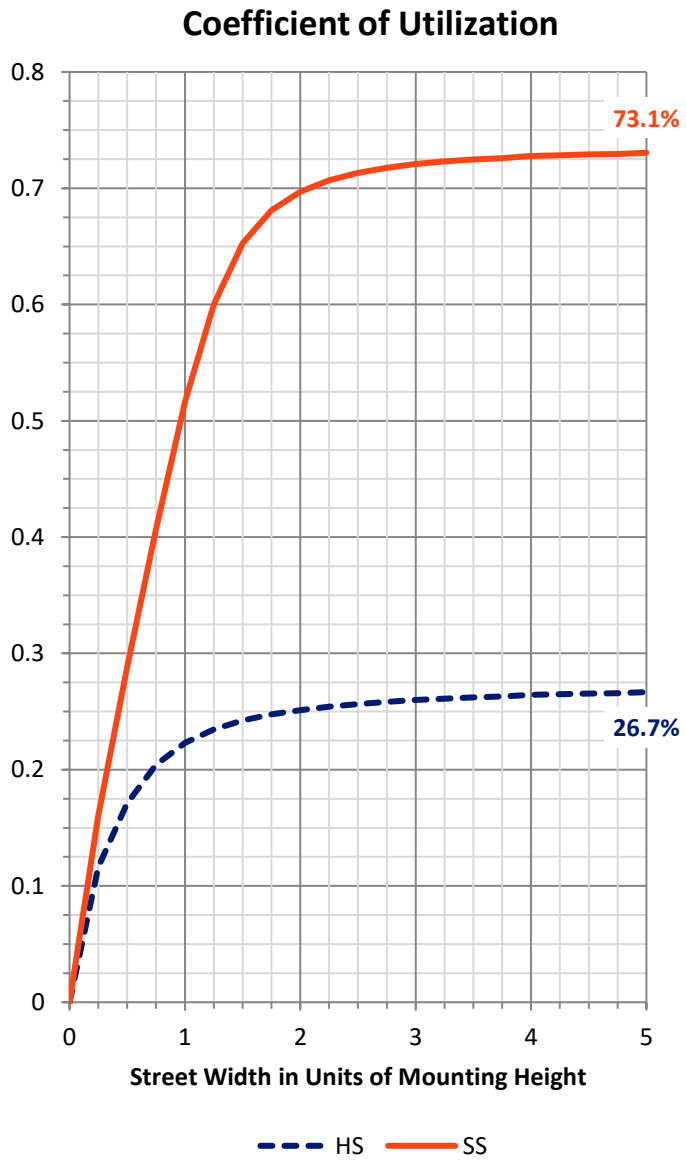
REPORT NUMBER: P1501572
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4867.1	0.0	4867.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	13232.2	0.0	13232.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	18099.3	0.0	18099.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.8	1.5
10°-20°	787.1	4.3
20°-30°	1490.9	8.2
30°-40°	2628.4	14.5
40°-50°	3887.1	21.5
50°-60°	4564.5	25.2
60°-70°	3307.2	18.3
70°-80°	1019.9	5.6
80°-90°	140.4	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°	18099.3	100.0
0°-180°	18099.3	100.0



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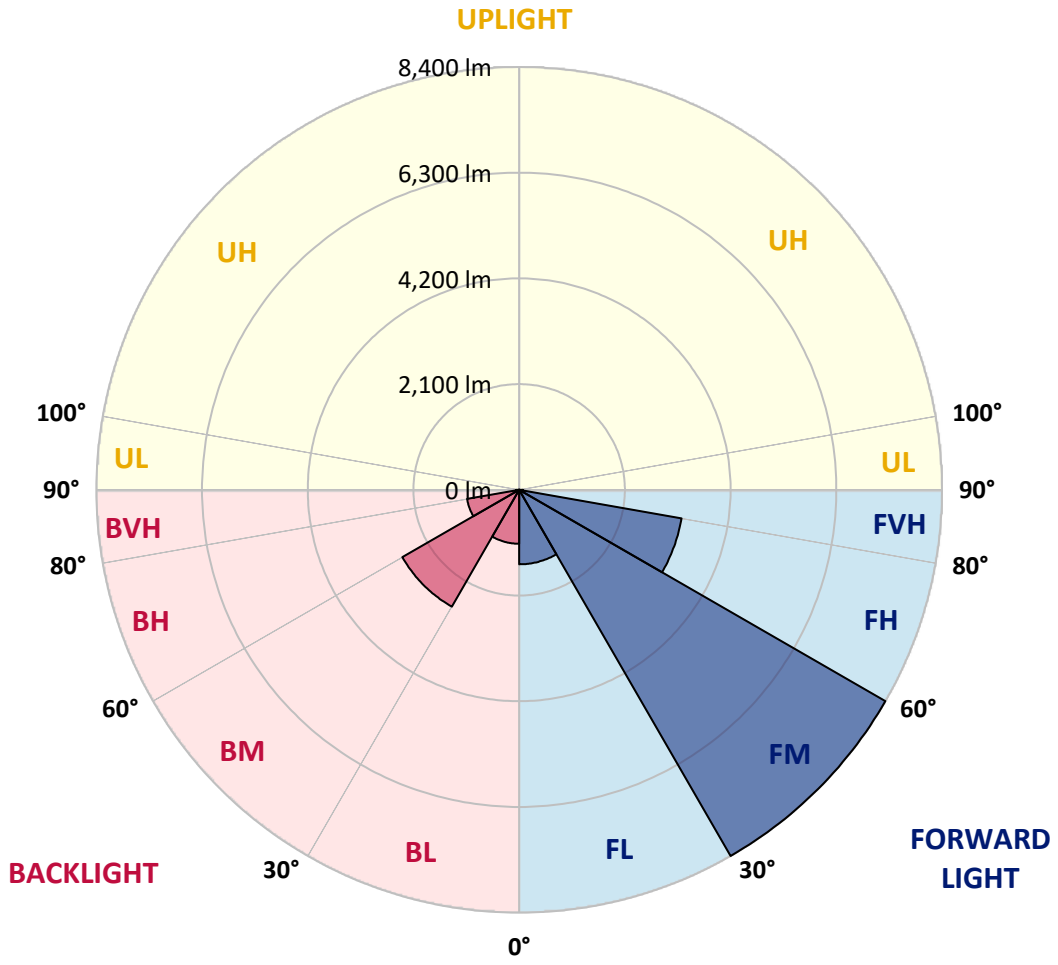
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1479.9	8.2			
FM	(30°-60°)	8400.0	46.4			
FH	(60°-80°)	3276.5	18.1			G2/5000
FVH	(80°-90°)	75.7	0.4			G1/100
BL	(0°-30°)	1071.9	5.9	B3/2500		
BM	(30°-60°)	2680.0	14.8	B3/5000		
BH	(60°-80°)	1050.6	5.8	B3/2500		G3/2500
BVH	(80°-90°)	64.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1
2.5°	2969.8	2978.1	2965.7	2974.0	2974.0	2961.6	2957.5	2941.0	2949.2	2945.1	2941.0
5°	3040.0	3044.1	3035.8	3048.2	3048.2	3052.3	3048.2	3027.6	3027.6	3027.6	3019.3
7.5°	3019.3	3019.3	3023.5	3064.7	3106.0	3159.6	3159.6	3151.3	3159.6	3155.5	3118.3
10°	2846.1	2862.6	2899.7	3002.8	3101.8	3217.3	3295.7	3320.4	3320.4	3324.6	3262.7
12.5°	2536.7	2549.1	2635.7	2792.5	2998.7	3209.1	3398.8	3522.6	3534.9	3555.6	3473.1
15°	2260.4	2268.6	2330.5	2491.4	2726.5	3097.7	3456.6	3712.3	3753.5	3840.2	3716.4
17.5°	2285.1	2281.0	2297.5	2359.4	2528.5	2916.2	3444.2	3935.0	4009.3	4161.9	4054.7
20°	2433.6	2433.6	2446.0	2458.4	2520.2	2784.2	3353.4	4116.5	4260.9	4557.9	4434.1
22.5°	2668.7	2668.7	2664.6	2685.2	2685.2	2842.0	3357.6	4252.6	4467.1	4999.2	4879.6
25°	2994.6	2978.1	2978.1	2986.3	2949.2	3060.6	3460.7	4392.9	4673.4	5523.1	5420.0
27.5°	3361.7	3374.1	3365.8	3336.9	3287.4	3374.1	3708.2	4611.5	4904.4	6075.8	6034.6
30°	3761.8	3765.9	3774.2	3757.7	3716.4	3778.3	4095.9	4941.5	5209.6	6653.3	6744.0
32.5°	4153.7	4211.4	4190.8	4149.5	4166.0	4277.4	4574.4	5387.0	5663.3	7189.5	7511.2
35°	4652.8	4673.4	4755.9	4603.3	4607.4	4797.1	5184.8	5972.7	6240.8	7746.3	8278.4
37.5°	5378.7	5415.8	5378.7	5139.5	5102.4	5366.3	5778.8	6550.2	6744.0	8167.1	8992.0
40°	6092.3	6137.7	6199.5	5919.1	5683.9	5902.6	6339.8	6991.5	7193.6	8398.1	9466.4
42.5°	6682.1	6756.4	6690.4	6607.9	6393.4	6434.7	6731.6	7333.9	7536.0	8690.9	9944.8
45°	7181.2	7193.6	7222.5	7164.7	7057.5	7020.4	7065.7	7635.0	7857.7	8822.9	10180.0
47.5°	7387.5	7441.1	7465.9	7564.8	7676.2	7602.0	7350.4	7775.2	7977.3	8814.7	10254.2
50°	7276.1	7329.7	7461.7	7696.8	7965.0	8096.9	7684.5	7969.1	8195.9	8963.1	10406.8
52.5°	6983.3	7041.0	7255.5	7523.6	7973.2	8274.3	8154.7	8373.3	8591.9	9227.1	10662.6
55°	6273.8	6360.4	6661.5	7107.0	7725.7	8179.4	8649.7	8967.3	9206.5	9544.7	10926.5
57.5°	5242.6	5333.3	5671.6	6339.8	7267.9	7787.6	8794.0	10081.0	10188.2	9924.2	10951.3
60°	*3926.8*	*4001.0*	*4479.5*	*5015.7*	*6104.7*	*7069.9*	*8711.5*	*11136.9*	*11409.1*	*9858.2*	*10163.5*
62.5°	3110.1	3200.8	3625.7	3873.2	4652.8	5840.7	8422.8	11429.8	11664.9	9313.8	9066.3
65°	2429.5	2491.4	2887.3	3242.1	3431.8	3988.7	7218.4	9998.5	10208.8	8426.9	7482.4
67.5°	1604.5	1699.4	2169.6	2656.4	2755.4	2536.7	4966.2	7692.7	7791.7	6698.6	5626.2
70°	1150.8	1196.2	1546.8	2066.5	2215.0	1699.4	2705.9	5824.2	5853.1	4496.0	3790.7
72.5°	783.7	792.0	1051.8	1583.9	1765.4	1233.3	1489.0	3836.0	3737.1	2219.1	2169.6
75°	532.1	540.3	672.3	1055.9	1249.8	858.0	969.3	2091.3	2008.8	1225.1	1315.8
77.5°	358.9	367.1	462.0	709.5	833.2	594.0	709.5	1105.4	1084.8	812.6	705.3
80°	272.2	284.6	342.4	453.7	581.6	346.5	404.2	523.8	532.1	433.1	358.9
82.5°	152.6	169.1	206.2	231.0	375.4	193.9	193.9	313.5	301.1	268.1	193.9
85°	66.0	70.1	82.5	86.6	152.6	82.5	70.1	136.1	140.2	132.0	61.9
87.5°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	16.5	16.5	16.5	16.5
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°	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1
2.5°	2920.3	2945.1	2920.3	2908.0	2908.0	2887.3	2879.1	2879.1	2850.2	2862.6	2854.3
5°	2986.3	2994.6	2965.7	2928.6	2879.1	2837.8	2780.1	2705.9	2660.5	2656.4	2660.5
7.5°	3089.5	3093.6	3015.2	2932.7	2809.0	2660.5	2483.1	2338.8	2210.9	2190.3	2215.0
10°	3233.8	3225.6	3110.1	2916.2	2656.4	2342.9	2070.6	1938.6	1864.4	1860.3	1856.2
12.5°	3427.7	3374.1	3196.7	2846.1	2392.4	2029.4	1889.1	1880.9	1901.5	1918.0	1922.1
15°	3650.4	3580.3	3266.8	2710.0	2124.3	1913.9	1922.1	1992.3	2017.0	2033.5	2033.5
17.5°	3926.8	3836.0	3345.2	2516.1	1988.1	1938.6	1996.4	2062.4	2103.6	2120.1	2116.0
20°	4293.9	4104.2	3407.1	2330.5	1951.0	1979.9	2029.4	2095.4	2136.6	2157.3	2157.3
22.5°	4661.0	4425.9	3419.4	2202.6	1951.0	1984.0	2029.4	2095.4	2140.8	2161.4	2157.3
25°	5160.1	4838.4	3423.6	2111.9	1955.1	1963.4	2004.6	2062.4	2128.4	2149.0	2157.3
27.5°	5692.2	5292.1	3444.2	2091.3	1938.6	1934.5	1963.4	2017.0	2083.0	2136.6	2140.8
30°	6352.2	5803.6	3452.4	2111.9	1942.8	1889.1	1909.8	1963.4	2033.5	2087.1	2103.6
32.5°	6999.8	6277.9	3435.9	2157.3	1951.0	1860.3	1864.4	1897.4	1971.6	2008.8	2037.6
35°	7684.5	6781.1	3407.1	2219.1	1955.1	1847.9	1810.8	1827.3	1876.8	1880.9	1893.3
37.5°	8220.7	7156.5	3320.4	2301.6	1963.4	1802.5	1728.3	1715.9	1695.3	1654.0	1662.3
40°	8662.0	7408.1	3176.1	2342.9	1942.8	1748.9	1625.2	1567.4	1489.0	1427.2	1439.5
42.5°	8979.6	7577.2	3002.8	2351.1	1909.8	1658.2	1505.5	1406.6	1319.9	1253.9	1258.1
45°	9119.9	7560.7	2817.2	2289.3	1831.4	1546.8	1394.2	1299.3	1204.4	1134.3	1126.1
47.5°	9124.0	7399.9	2561.5	2140.8	1699.4	1418.9	1291.1	1187.9	1109.6	1060.1	1055.9
50°	9157.0	7309.1	2322.3	1926.3	1526.2	1282.8	1200.3	1097.2	1051.8	981.7	961.1
52.5°	9363.3	7457.6	2157.3	1691.2	1365.3	1183.8	1121.9	1031.2	956.9	911.6	907.5
55°	9697.4	7713.3	2066.5	1513.8	1212.7	1088.9	1047.7	969.3	903.3	858.0	845.6
57.5°	9738.6	7845.3	1959.3	1348.8	1088.9	1014.7	998.2	911.6	816.7	783.7	771.3
60°	*9161.1*	*7622.6*	*1827.3*	*1196.2*	*998.2*	*956.9*	*948.7*	*833.2*	*754.8*	*713.6*	*697.1*
62.5°	8373.3	7065.7	1625.2	1055.9	928.1	899.2	866.2	775.5	676.5	631.1	618.7
65°	6843.0	5939.7	1381.8	961.1	858.0	825.0	816.7	693.0	627.0	602.2	598.1
67.5°	5184.8	4772.4	1216.8	891.0	783.7	771.3	742.5	701.2	672.3	643.5	635.2
70°	3666.9	3444.2	1035.3	800.2	709.5	688.8	808.5	763.1	660.0	622.8	618.7
72.5°	2223.3	2161.4	895.1	717.7	610.5	643.5	746.6	688.8	594.0	548.6	532.1
75°	1402.4	1282.8	750.7	610.5	486.7	523.8	651.7	614.6	511.5	466.1	453.7
77.5°	763.1	709.5	565.1	499.1	383.6	424.9	569.2	507.3	408.4	445.5	396.0
80°	334.1	371.2	375.4	288.7	255.7	313.5	408.4	396.0	313.5	317.6	264.0
82.5°	160.9	210.4	243.4	198.0	144.4	185.6	272.2	226.9	210.4	198.0	189.7
85°	49.5	78.4	107.2	94.9	66.0	78.4	127.9	123.7	148.5	127.9	119.6
87.5°	16.5	16.5	12.4	12.4	12.4	16.5	20.6	12.4	4.1	4.1	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°	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1
2.5°	2850.2	2854.3	2854.3	2858.5	2858.5	2870.8	2887.3	2903.8	2891.5	2908.0	2912.1
5°	2652.2	2672.9	2689.4	2751.2	2800.7	2842.0	2887.3	2928.6	2941.0	2949.2	2969.8
7.5°	2186.1	2243.9	2351.1	2491.4	2648.1	2800.7	2903.8	3011.1	3027.6	3048.2	3077.1
10°	1860.3	1885.0	1959.3	2103.6	2384.1	2685.2	2936.8	3106.0	3176.1	3217.3	3246.2
12.5°	1913.9	1897.4	1885.0	1905.6	2087.1	2474.9	2916.2	3242.1	3374.1	3419.4	3456.6
15°	2041.8	2025.3	1979.9	1922.1	1942.8	2252.1	2846.1	3369.9	3580.3	3654.6	3732.9
17.5°	2116.0	2099.5	2062.4	2000.5	1946.9	2066.5	2714.1	3485.4	3906.2	3996.9	4108.3
20°	2157.3	2140.8	2103.6	2041.8	1979.9	1996.4	2545.0	3629.8	4277.4	4421.8	4586.8
22.5°	2165.5	2144.9	2103.6	2041.8	2004.6	1992.3	2384.1	3716.4	4677.5	4900.2	5090.0
25°	2161.4	2124.3	2070.6	2025.3	2004.6	2000.5	2272.8	3765.9	5110.6	5465.3	5679.8
27.5°	2132.5	2087.1	2033.5	2000.5	1992.3	2017.0	2223.3	3823.7	5618.0	6071.7	6414.0
30°	2099.5	2033.5	1967.5	1955.1	1975.8	2054.1	2264.5	3844.3	6150.0	6731.6	7082.2
32.5°	2012.9	1963.4	1897.4	1893.3	1942.8	2083.0	2359.4	3815.4	6620.3	7391.6	7833.0
35°	1889.1	1860.3	1823.2	1835.5	1913.9	2107.8	2425.4	3724.7	7049.2	8006.2	8521.8
37.5°	1670.5	1691.2	1711.8	1740.7	1839.7	2103.6	2454.2	3580.3	7404.0	8497.0	9157.0
40°	1427.2	1497.3	1563.3	1637.5	1769.5	2070.6	2462.5	3402.9	7610.2	8868.3	9722.1
42.5°	1274.6	1340.6	1423.0	1530.3	1674.7	1996.4	2454.2	3205.0	7676.2	9124.0	10081.0
45°	1134.3	1212.7	1315.8	1427.2	1592.2	1889.1	2380.0	2990.5	7709.2	9243.6	10233.6
47.5°	1060.1	1105.4	1200.3	1311.7	1484.9	1757.2	2235.6	2833.7	7659.7	9268.4	10419.2
50°	973.4	1035.3	1097.2	1204.4	1373.6	1592.2	2062.4	2743.0	7742.2	9511.7	10712.1
52.5°	907.5	940.4	1006.4	1105.4	1229.2	1439.5	1897.4	2668.7	7969.1	9759.2	11017.3
55°	858.0	895.1	936.3	1018.8	1113.7	1286.9	1728.3	2557.4	8233.1	10023.2	11322.5
57.5°	779.6	804.3	862.1	948.7	1010.6	1138.4	1530.3	2425.4	8212.4	9817.0	10794.5
60°	*709.5*	*734.2*	*796.1*	*882.7*	*919.8*	*1006.4*	*1336.4*	*2256.3*	*7816.5*	*9144.6*	*9821.1*
62.5°	631.1	660.0	734.2	796.1	829.1	895.1	1134.3	1946.9	6991.5	8134.1	8682.7
65°	598.1	614.6	664.1	738.3	734.2	796.1	956.9	1530.3	5626.2	6216.0	6715.1
67.5°	635.2	660.0	651.7	672.3	660.0	693.0	858.0	1229.2	4421.8	4681.6	4970.4
70°	627.0	684.7	713.6	672.3	577.5	614.6	742.5	981.7	3163.7	3139.0	3126.6
72.5°	548.6	606.3	688.8	730.1	565.1	511.5	643.5	849.7	2029.4	2021.1	1827.3
75°	466.1	507.3	606.3	660.0	486.7	412.5	552.7	721.8	1212.7	1229.2	1097.2
77.5°	429.0	408.4	507.3	581.6	396.0	317.6	445.5	544.5	668.2	676.5	627.0
80°	309.4	297.0	379.5	424.9	301.1	226.9	251.6	338.2	358.9	321.7	334.1
82.5°	198.0	202.1	226.9	272.2	185.6	123.7	173.2	226.9	193.9	156.7	185.6
85°	127.9	144.4	119.6	140.2	57.7	57.7	74.2	99.0	66.0	45.4	49.5
87.5°	0.0	0.0	8.2	16.5	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: P1501572
CATALOG NUMBER: GSS-SB2D-840-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2912.1	2912.1	*2912.1*	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1
2.5°	2924.5	2920.3	*2920.3*	2928.6	2949.2	2957.5	2969.8	2965.7	2978.1	2969.8
5°	2982.2	2986.3	*2998.7*	3002.8	3015.2	3031.7	3035.8	3031.7	3040.0	3040.0
7.5°	3097.7	3114.2	*3106.0*	3126.6	3110.1	3089.5	3056.5	3031.7	3011.1	3019.3
10°	3291.6	3283.3	*3279.2*	3242.1	3167.8	3060.6	2974.0	2879.1	2862.6	2846.1
12.5°	3506.1	3497.8	*3497.8*	3369.9	3159.6	2936.8	2738.9	2590.4	2540.9	2536.7
15°	3807.2	3753.5	*3704.1*	3435.9	3015.2	2635.7	2404.7	2289.3	2260.4	2260.4
17.5°	4182.5	4042.3	*3959.8*	3386.4	2780.1	2437.7	2301.6	2272.8	2264.5	2285.1
20°	4648.6	4293.9	*4174.3*	3275.1	2693.5	2462.5	2396.5	2400.6	2404.7	2433.6
22.5°	5160.1	4524.9	*4326.9*	3275.1	2780.1	2619.2	2586.2	2631.6	2644.0	2668.7
25°	5729.3	4731.1	*4463.0*	3448.3	3035.8	2916.2	2875.0	2920.3	2953.3	2994.6
27.5°	6368.7	4945.6	*4698.1*	3761.8	3365.8	3291.6	3246.2	3266.8	3312.2	3361.7
30°	6942.0	5304.5	*5057.0*	4240.3	3815.4	3724.7	3646.3	3679.3	3728.8	3761.8
32.5°	7449.4	5741.7	*5531.3*	4743.5	4331.0	4174.3	4087.7	4079.4	4178.4	4153.7
35°	7915.5	6257.3	*6055.2*	5316.8	4854.9	4661.0	4545.5	4694.0	4628.0	4652.8
37.5°	8282.6	6793.5	*6632.6*	5865.4	5399.3	5135.4	5065.2	5246.7	5349.8	5378.7
40°	8583.7	7259.6	*7090.5*	6409.9	5898.4	5704.6	5815.9	6117.0	6104.7	6092.3
42.5°	8814.7	7659.7	*7474.1*	6822.4	6376.9	6414.0	6500.7	6702.8	6752.3	6682.1
45°	8917.8	7911.3	*7762.8*	7148.2	6921.4	7135.9	7173.0	7259.6	7226.6	7181.2
47.5°	9037.4	8134.1	*7977.3*	7445.2	7511.2	7721.6	7647.3	7577.2	7457.6	7387.5
50°	9239.5	8398.1	*8266.1*	7878.3	8117.6	8047.4	7758.7	7602.0	7358.6	7276.1
52.5°	9623.1	8897.2	*8798.2*	8563.0	8402.2	7997.9	7647.3	7366.9	7094.6	6983.3
55°	9965.5	9573.6	*9515.9*	9202.4	8315.6	7738.1	7267.9	6834.8	6368.7	6273.8
57.5°	10163.5	10695.6	*10761.6*	9474.6	7919.6	7148.2	6455.3	5762.3	5321.0	5242.6
60°	*9573.6*	*11908.2*	*11941.2*	*9421.0*	*7206.0*	*6084.1*	*5028.1*	*4537.3*	*4062.9*	*3926.8*
62.5°	8761.0	11656.6	*11627.8*	9099.3	5737.6	4438.3	3819.5	3588.6	3221.5	3110.1
65°	7531.8	9709.7	*9742.7*	7861.8	3815.4	3209.1	3209.1	2916.2	2507.9	2429.5
67.5°	6137.7	7486.5	*7412.2*	5098.2	2342.9	2569.7	2693.5	2272.8	1699.4	1604.5
70°	3988.7	5716.9	*5613.8*	2941.0	1472.5	2140.8	2120.1	1707.7	1216.8	1150.8
72.5°	1715.9	3303.9	*3514.3*	1501.4	1109.6	1724.2	1691.2	1196.2	812.6	783.7
75°	1035.3	1662.3	*1810.8*	956.9	808.5	1299.3	1171.4	759.0	552.7	532.1
77.5°	655.8	911.6	*903.3*	717.7	606.3	878.6	787.8	523.8	375.4	358.9
80°	379.5	449.6	*466.1*	449.6	408.4	627.0	503.2	379.5	292.9	272.2
82.5°	243.4	280.5	*284.6*	218.6	226.9	404.2	272.2	222.7	169.1	152.6
85°	107.2	119.6	*115.5*	74.2	74.2	165.0	94.9	90.7	66.0	66.0
87.5°	4.1	8.2	*4.1*	4.1	4.1	16.5	8.2	12.4	12.4	12.4
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: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

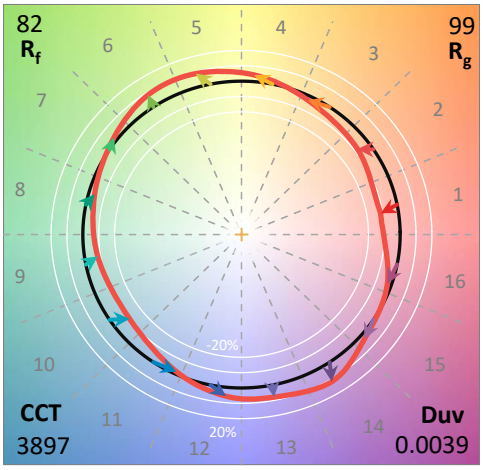
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-11
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-840-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3897
CIE u':	0.2249
CIE v':	0.5084
Duv:	0.0039
CIE x:	0.3882
CIE y:	0.3900
CIE z:	0.2218
Peak Wavelength (nm):	445
Dominant Wavelength (nm):	577
Purity:	33.54925
Rf:	81.8
Rg:	98.6

CRI (Ra):	80.2
R1:	78.9
R2:	83.5
R3:	88.3
R4:	82.1
R5:	78.8
R6:	78.4
R7:	85.8
R8:	65.8
R9:	6.7
R10:	61.9
R11:	81.9
R12:	58.9
R13:	79.2
R14:	93.2
R15:	71.9



Test Conditions

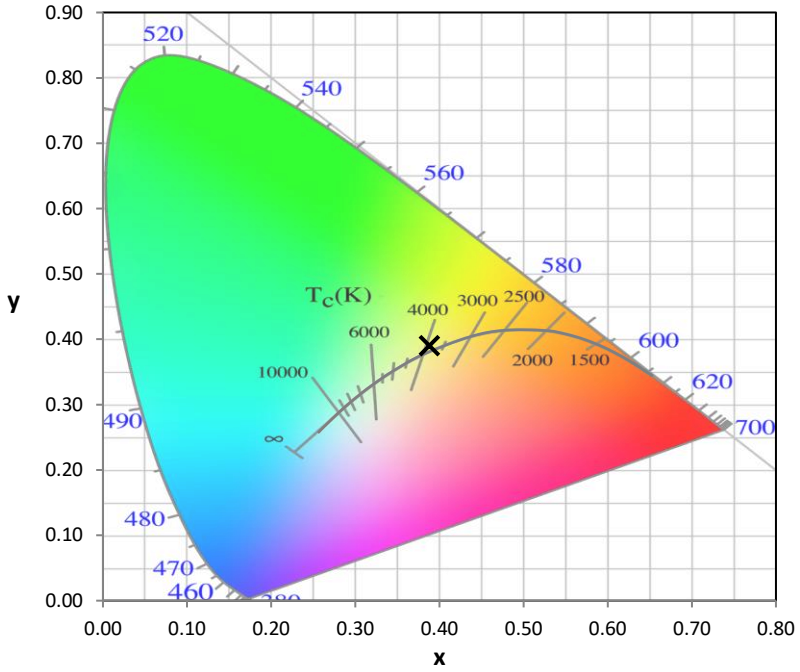
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-11

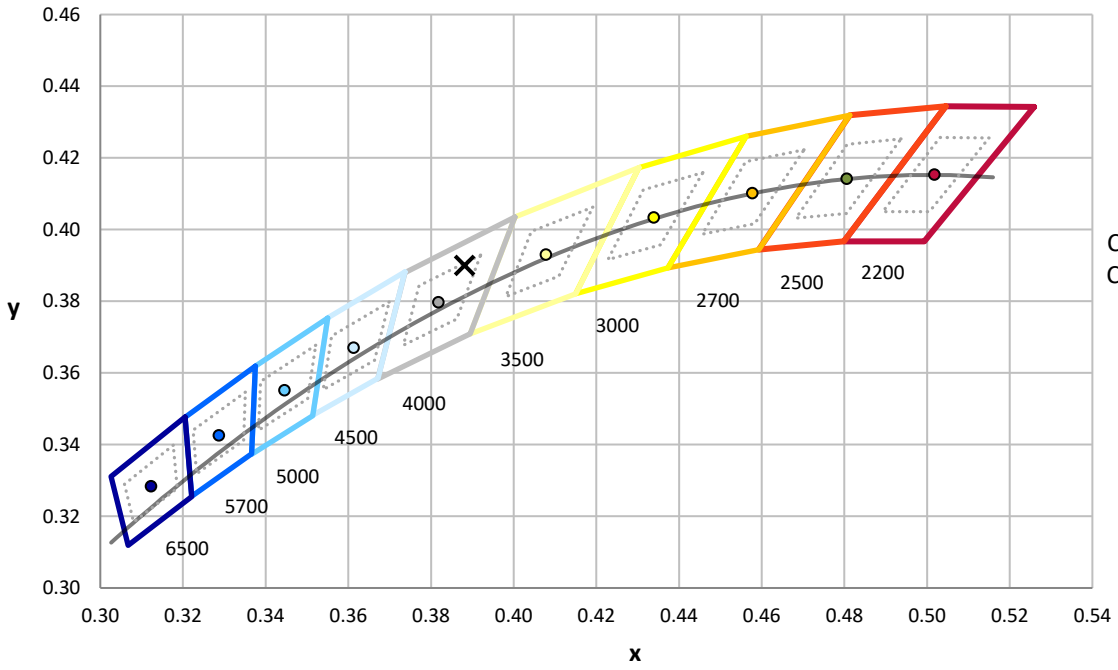
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-11

CIE 1931 Chromaticity Diagram



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

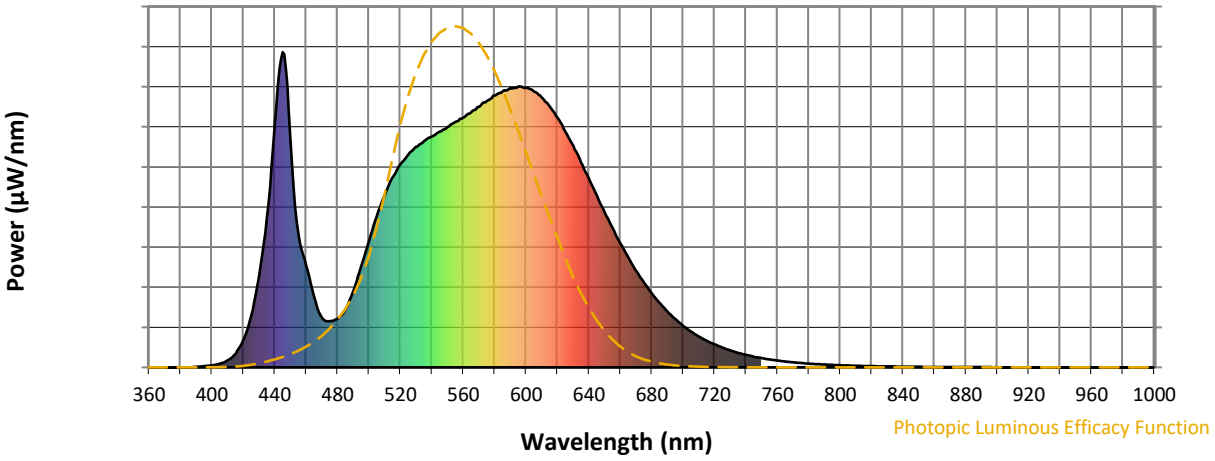


CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

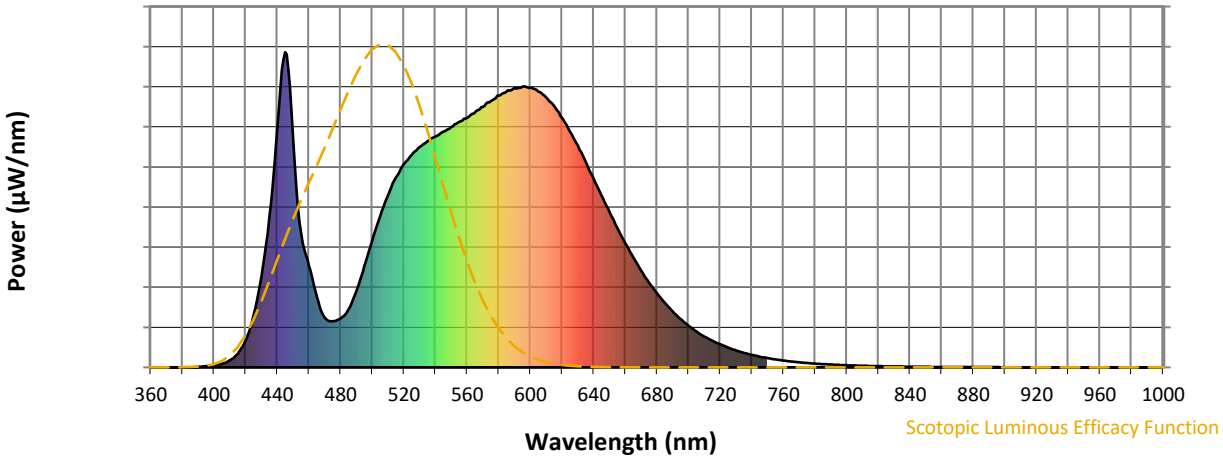


Photopic Lumens: NR

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength

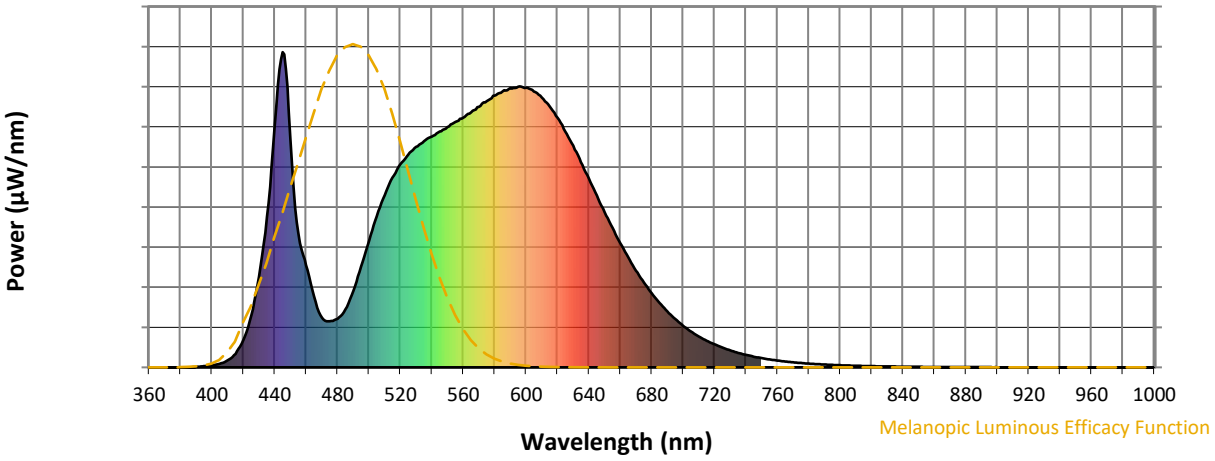


Scotopic Lumens: NR **S/P: 1.57**

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.06**

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

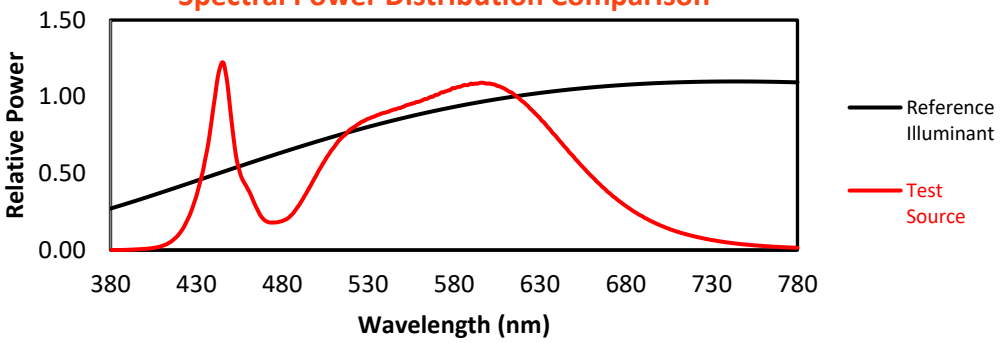
REPORT NUMBER: SP1-2407-184-11

TM-30-18

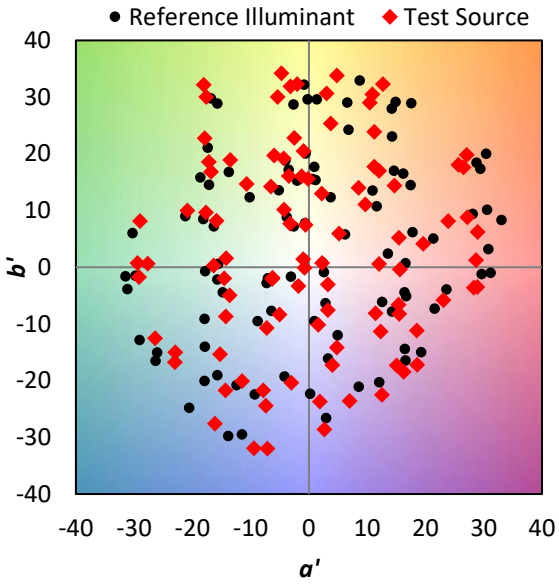
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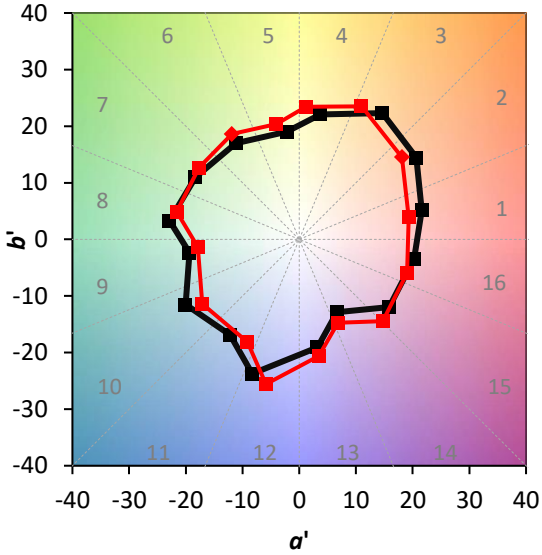
R_f = 81.8
R_g = 98.6
CIE R_a = 80.2
R_9 = 6.7

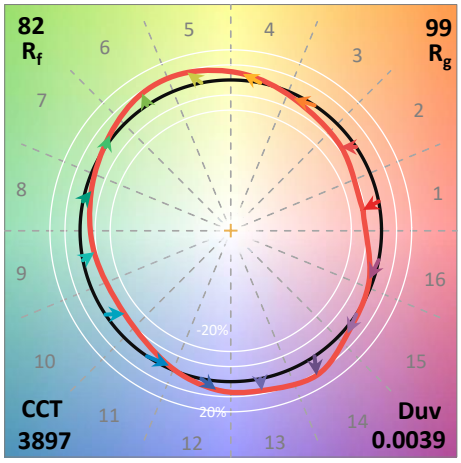
Spectral Power Distribution Comparison

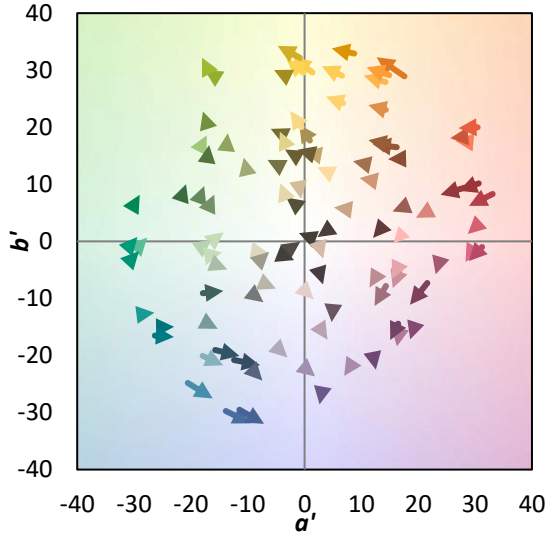


Color Vector Graphics







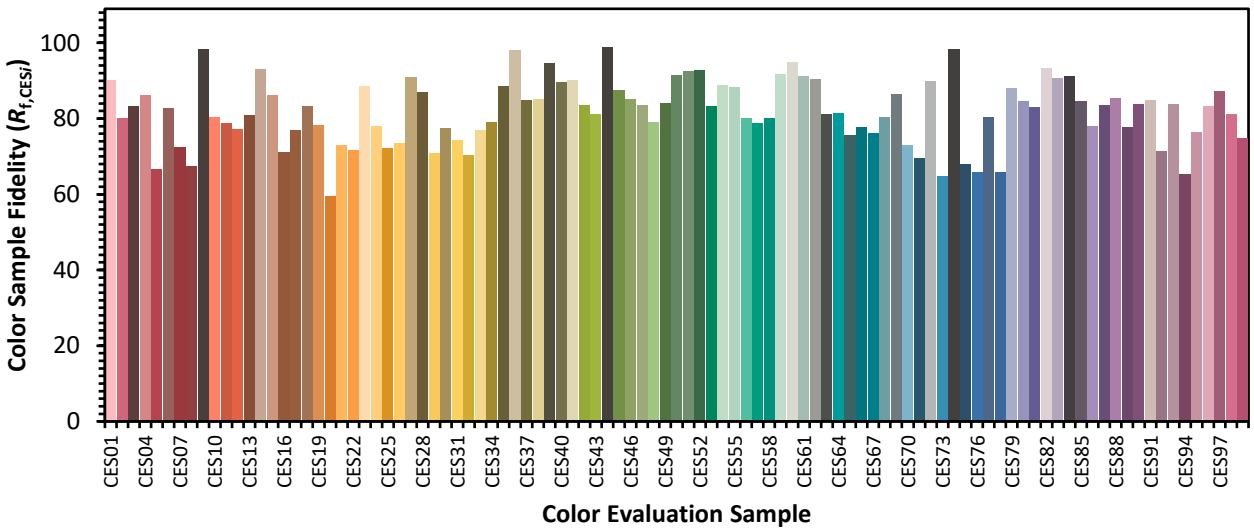


REPORT NUMBER: SP1-2407-184-11

TM-30-18

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

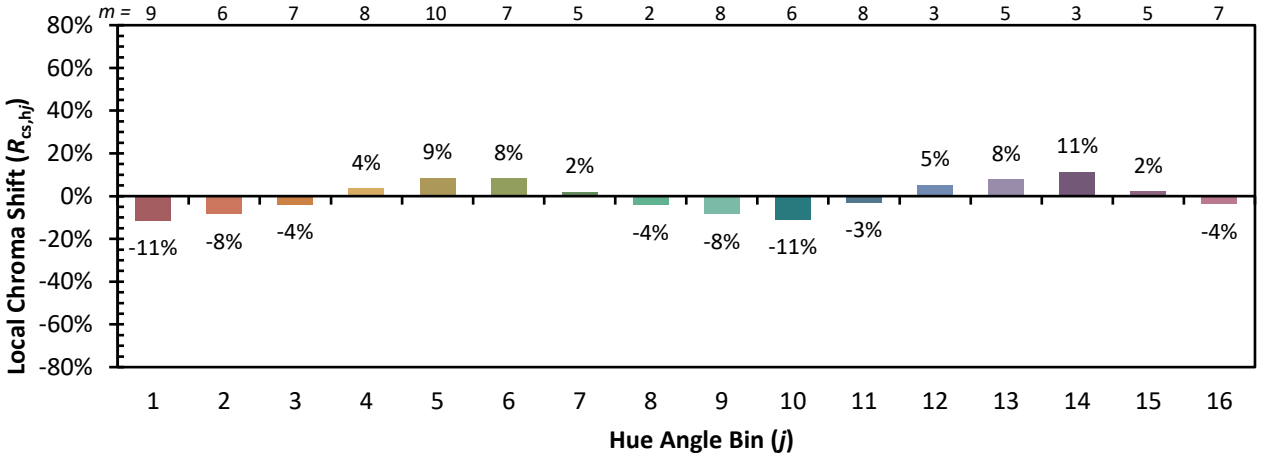
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
CES25 = 71	CES50 = 91	CES75 = 68	

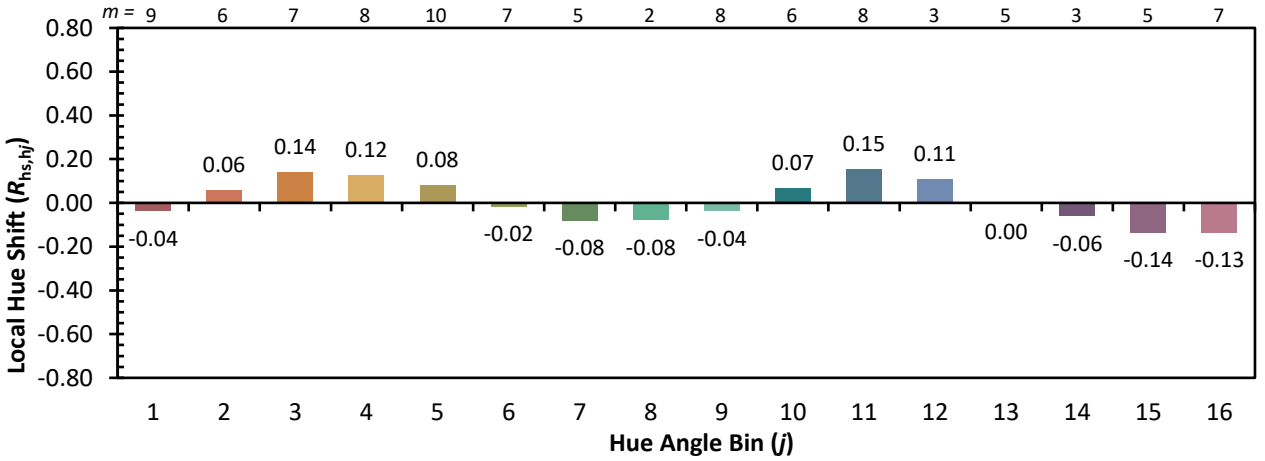


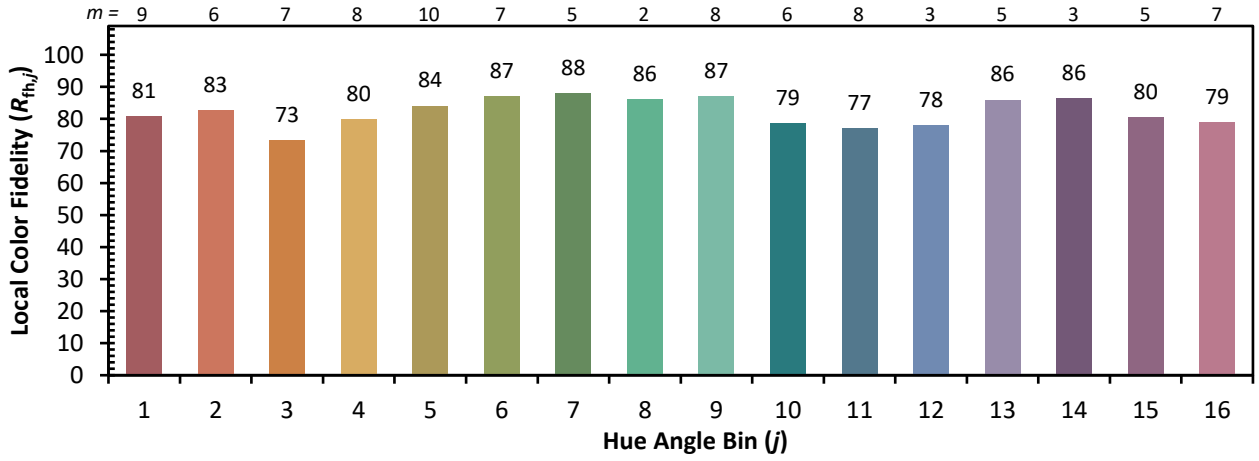
REPORT NUMBER: SP1-2407-184-11

TM-30-18

Color Rendition by Hue-Angle Bin



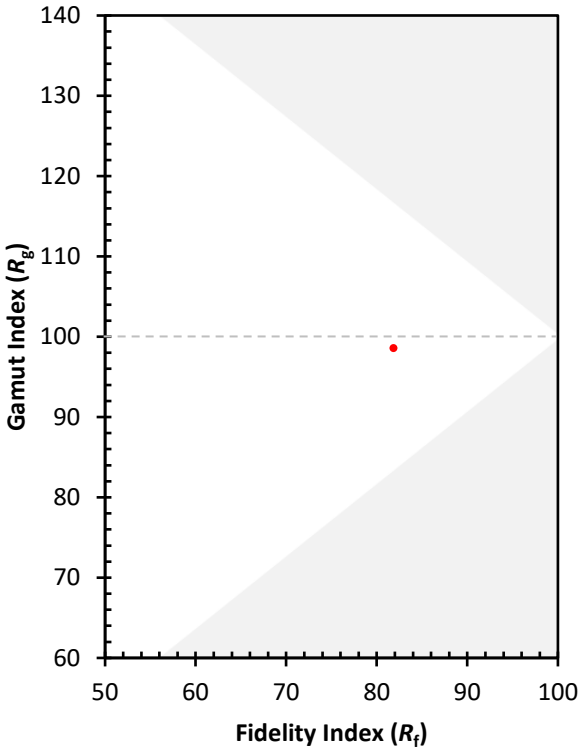


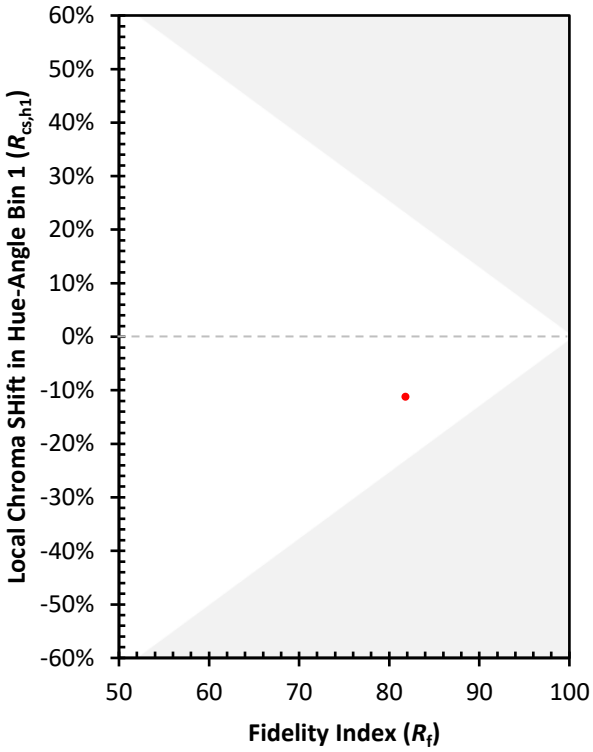


REPORT NUMBER: SP1-2407-184-11

TM-30-18

Measure Comparisons





(END OF REPORT)