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: P436903

Luminaire Tested: **TT-D6-740-U-WQ-HSS**

Issue Date: 12/2/2020

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P436903
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-2)
Test Lab:	INNOVATION CENTER
Issue Date:	12/2/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TT-D6-740-U-WQ-HSS
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE
	4000K, 70 CRI LEDS AND WIDE DISTRIBUTION WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10097.1 lumens
Efficiency:	N/A
Efficacy:	96.0 lumens/watt
Luminous Opening:	Circular (Dia: 1.12' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U2 - G3

Input Watts (W):	105.2
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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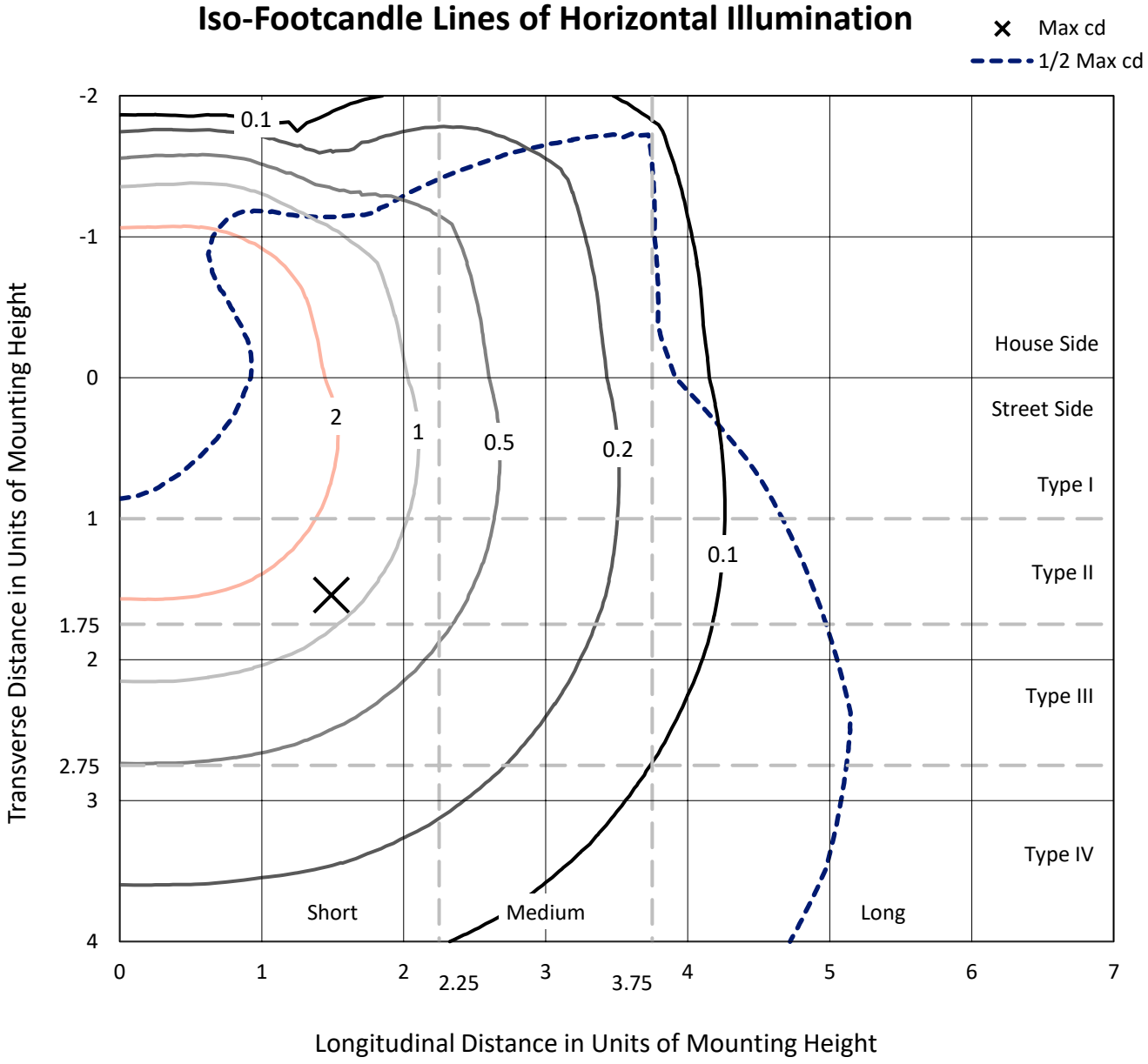
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 3.9 fc
Type IV - Short - N/A

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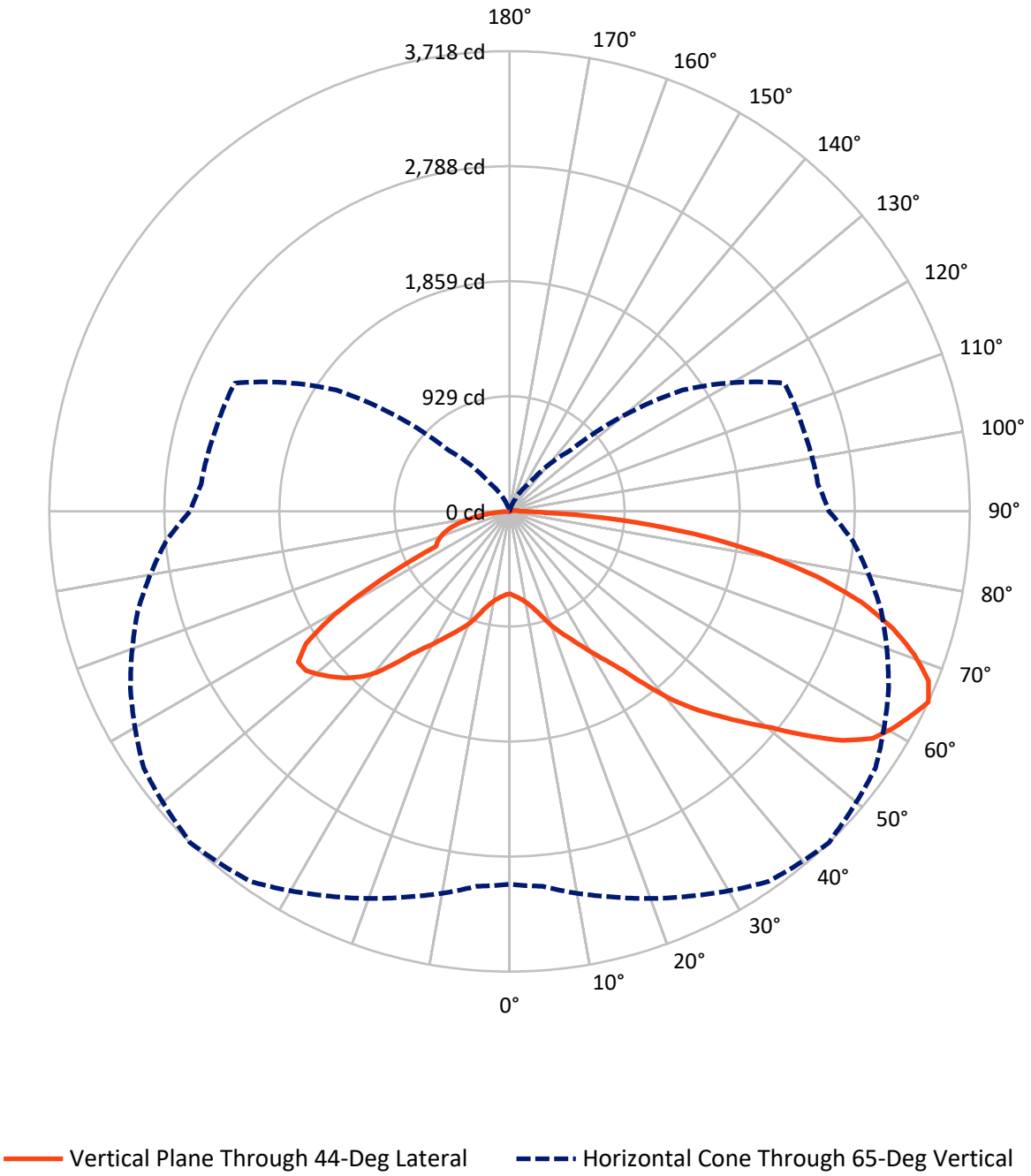
Luminous Intensity Polar Plot



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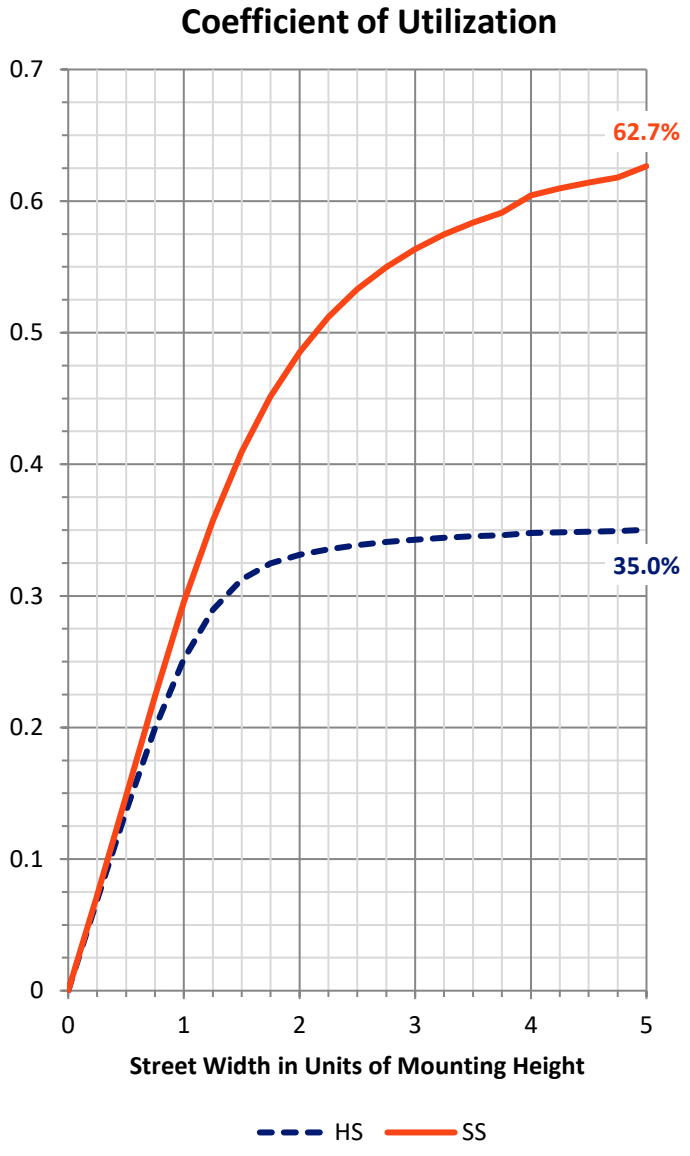
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3556.4	2.4	3558.8
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	6497.4	40.9	6538.3
	% Fixture	64.3	0.4	64.8
Total	Lumens	10053.8	43.3	10097.1
	% Fixture	99.6	0.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	0.7
10°-20°	239.9	2.4
20°-30°	513.9	5.1
30°-40°	930.8	9.2
40°-50°	1553.1	15.4
50°-60°	2151.2	21.3
60°-70°	2229.3	22.1
70°-80°	1794.2	17.8
80°-90°	573.9	5.7
90°-100°	29.1	0.3
100°-110°	9.3	0.1
110°-120°	1.8	0.0
120°-130°	1.2	0.0
130°-140°	0.8	0.0
140°-150°	0.6	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-90°	10053.8	99.6
0°-180°	10097.1	100.0



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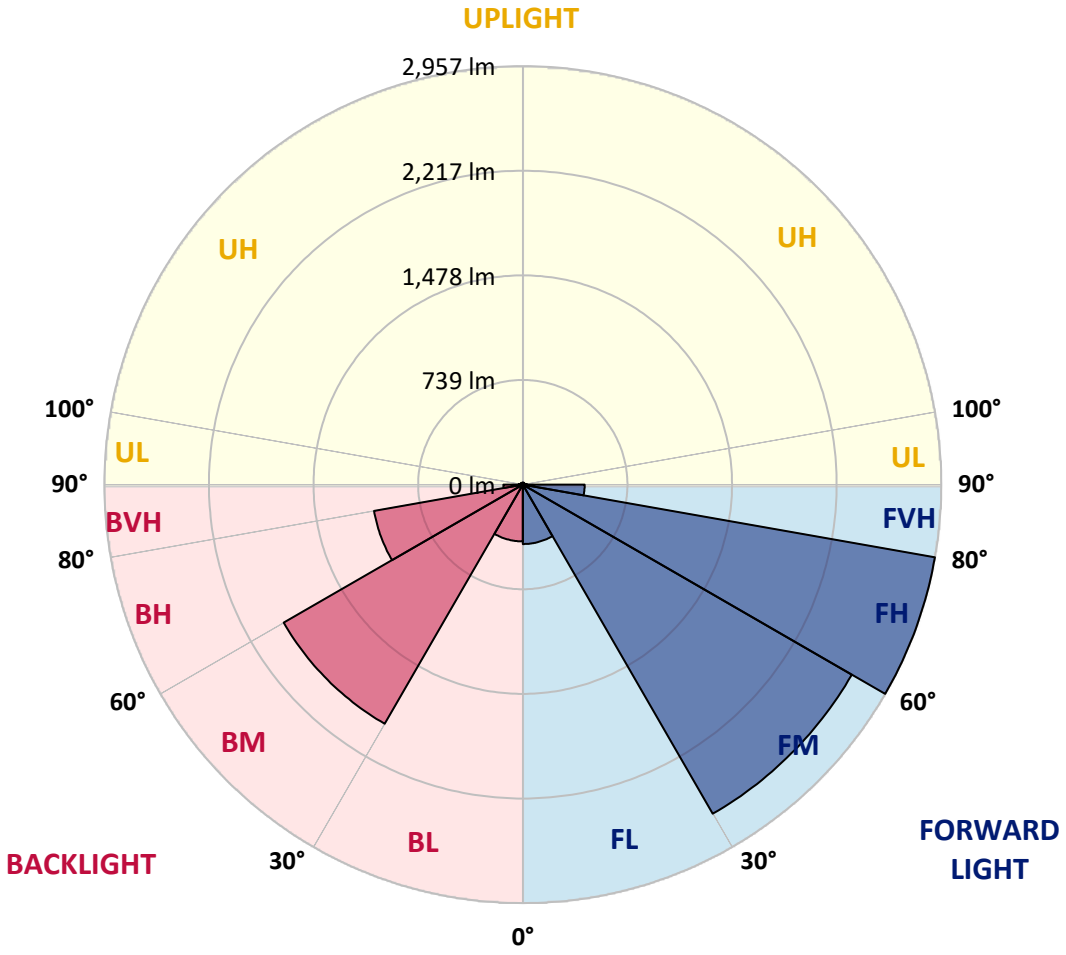
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	419.8	4.2			
FM	(30°-60°)	2684.3	26.6			
FH	(60°-80°)	2956.6	29.3			G2/5000
FVH	(80°-90°)	436.6	4.3			G3/500
BL	(0°-30°)	401.5	4.0	B1/500		
BM	(30°-60°)	1950.7	19.3	B2/2500		
BH	(60°-80°)	1067.0	10.6	B3/2500		G3/2500
BVH	(80°-90°)	137.3	1.4			G2/225
UL	(90°-100°)	29.1	0.3		U2/50	
UH	(100°-180°)	14.2	0.1		U2/50	

BUG Rating: B3-U2-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	666.3	666.3	666.3	666.3	666.3	*666.3*	666.3	666.3	666.3	666.3	666.3
2.5°	686.0	684.0	684.0	682.0	682.0	*682.0*	682.0	682.0	680.1	678.1	676.1
5°	703.7	703.7	701.7	701.7	699.8	*697.8*	699.8	697.8	695.8	693.9	691.9
7.5°	727.4	725.4	725.4	721.5	721.5	*719.5*	719.5	719.5	717.5	713.6	711.6
10°	760.9	756.9	756.9	753.0	751.0	*749.1*	749.1	745.1	745.1	743.1	741.2
12.5°	798.3	794.4	798.3	796.4	792.4	*788.5*	788.5	784.5	782.6	780.6	772.7
15°	847.6	841.7	845.6	845.6	843.7	*841.7*	841.7	833.8	829.9	825.9	818.0
17.5°	906.8	902.8	904.8	906.8	912.7	*912.7*	914.6	904.8	896.9	883.1	877.2
20°	981.7	979.7	985.6	985.6	991.5	*991.5*	993.5	983.6	969.8	960.0	948.1
22.5°	1054.6	1054.6	1062.5	1062.5	1068.4	*1064.4*	1064.4	1060.5	1044.7	1032.9	1021.1
25°	1129.5	1127.5	1135.4	1141.3	1149.2	*1139.4*	1143.3	1137.4	1121.6	1105.8	1090.1
27.5°	1212.3	1208.3	1212.3	1220.2	1234.0	*1226.1*	1230.0	1220.2	1204.4	1182.7	1168.9
30°	1303.0	1297.0	1303.0	1314.8	1324.6	*1328.6*	1326.6	1312.8	1299.0	1267.5	1257.6
32.5°	1391.7	1391.7	1405.5	1427.1	1439.0	*1437.0*	1439.0	1427.1	1407.4	1368.0	1344.4
35°	1500.1	1508.0	1525.7	1557.2	1582.9	*1573.0*	1573.0	1569.1	1535.6	1488.3	1456.7
37.5°	1644.0	1651.9	1687.3	1724.8	1772.1	*1768.2*	1770.1	1758.3	1693.3	1644.0	1598.6
40°	1811.5	1819.4	1872.6	1925.9	1971.2	*1985.0*	1987.0	1961.3	1890.4	1819.4	1748.5
42.5°	1965.3	1975.1	2030.3	2105.2	2154.5	*2176.2*	2180.1	2138.8	2063.8	1983.0	1894.3
45°	2119.0	2130.9	2193.9	2272.8	2343.8	*2353.6*	2355.6	2320.1	2237.3	2144.7	2030.3
47.5°	2276.7	2286.6	2351.6	2446.3	2523.1	*2542.8*	2544.8	2511.3	2410.8	2298.4	2164.4
50°	2420.6	2440.3	2529.0	2629.6	2732.1	*2747.9*	2749.8	2712.4	2594.1	2467.9	2290.5
52.5°	2590.2	2600.0	2694.6	2862.2	2948.9	*3010.0*	3012.0	2939.1	2812.9	2643.4	2414.7
55°	2787.3	2805.0	2901.6	3069.2	3224.9	*3266.3*	3278.1	3191.4	3023.8	2840.5	2572.4
57.5°	2901.6	2935.1	3077.0	3236.7	3431.9	*3459.5*	3465.4	3374.7	3189.4	2988.3	2690.7
60°	2962.7	2982.4	3132.2	3380.6	3532.4	*3558.0*	3556.0	3487.1	3301.8	3057.3	2745.9
62.5°	3031.7	3065.2	3191.4	3443.7	3575.8	*3638.8*	3629.0	3558.0	3368.8	3100.7	2799.1
65°	*3012.0*	*3039.6*	*3224.9*	*3429.9*	*3648.7*	*3717.7*	*3703.9*	*3609.3*	*3378.6*	*3108.6*	*2785.3*
67.5°	2933.1	2954.8	3138.1	3392.4	3601.4	*3650.7*	3674.3	3581.7	3323.4	3023.8	2698.6
70°	2771.5	2805.0	2982.4	3242.6	3433.8	*3469.3*	3473.3	3416.1	3183.5	2868.1	2554.7
72.5°	2548.8	2576.4	2769.5	3033.7	3199.3	*3240.7*	3244.6	3157.9	2982.4	2655.2	2347.7
75°	2282.6	2308.3	2458.1	2734.1	2897.7	*2939.1*	2935.1	2854.3	2669.0	2359.5	2073.7
77.5°	1953.5	2000.8	2132.8	2359.5	2519.2	*2540.9*	2544.8	2456.1	2306.3	2038.2	1760.3
80°	1541.5	1586.8	1736.6	1906.1	2040.2	*2057.9*	2063.8	1988.9	1852.9	1616.4	1379.8
82.5°	1096.0	1135.4	1253.7	1391.7	1504.0	*1504.0*	1508.0	1446.9	1342.4	1139.4	954.1
85°	624.9	654.4	733.3	831.8	912.7	*902.8*	904.8	849.6	780.6	622.9	504.6
87.5°	205.0	218.8	236.5	274.0	311.4	*287.8*	299.6	248.4	224.7	167.6	130.1
90°	108.4	108.4	104.5	100.5	92.6	*80.8*	80.8	65.0	49.3	31.5	11.8
92.5°	98.6	98.6	94.6	90.7	82.8	*72.9*	72.9	59.1	43.4	27.6	9.9
95°	80.8	80.8	78.8	74.9	69.0	*61.1*	59.1	49.3	37.5	21.7	7.9
97.5°	63.1	63.1	61.1	59.1	53.2	*47.3*	47.3	37.5	27.6	17.7	5.9
100°	47.3	47.3	47.3	43.4	41.4	*35.5*	35.5	29.6	21.7	13.8	3.9
102.5°	33.5	35.5	33.5	31.5	29.6	*25.6*	25.6	21.7	15.8	9.9	3.9
105°	23.7	23.7	21.7	21.7	19.7	*17.7*	17.7	13.8	9.9	5.9	2.0
107.5°	13.8	13.8	13.8	13.8	11.8	*11.8*	11.8	9.9	5.9	3.9	2.0
110°	7.9	7.9	7.9	7.9	5.9	*5.9*	5.9	3.9	3.9	2.0	2.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
112.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	2.0	2.0	2.0	2.0
115°	2.0	2.0	2.0	3.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0
117.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
120°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
122.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
125°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
127.5°	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
130°	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
132.5°	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
135°	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0
140°	2.0	2.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0
142.5°	2.0	2.0	2.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
145°	2.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
147.5°	2.0	2.0	2.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
150°	2.0	2.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
160°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
162.5°	2.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
165°	2.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0
167.5°	2.0	2.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0
170°	2.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0	2.0	2.0	2.0
172.5°	2.0	2.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0
175°	2.0	2.0	2.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0
177.5°	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
180°	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°	666.3	666.3	666.3	666.3	666.3	666.3	666.3	666.3	666.3	666.3	666.3
2.5°	676.1	676.1	674.2	672.2	672.2	672.2	670.2	670.2	670.2	668.2	668.2
5°	691.9	689.9	689.9	687.9	687.9	686.0	686.0	684.0	682.0	682.0	680.1
7.5°	713.6	711.6	707.7	709.6	705.7	703.7	701.7	701.7	701.7	699.8	699.8
10°	739.2	739.2	735.3	735.3	731.3	729.3	727.4	727.4	729.3	729.3	727.4
12.5°	772.7	770.7	770.7	768.8	766.8	764.8	766.8	766.8	764.8	762.9	760.9
15°	814.1	814.1	814.1	816.1	814.1	814.1	814.1	812.1	808.2	804.2	804.2
17.5°	877.2	875.2	871.3	873.2	877.2	883.1	877.2	871.3	865.4	865.4	863.4
20°	942.2	944.2	944.2	946.2	952.1	958.0	950.1	946.2	942.2	938.3	934.3
22.5°	1013.2	1015.2	1015.2	1013.2	1017.1	1015.2	1011.2	1007.3	1003.3	997.4	993.5
25°	1082.2	1084.2	1082.2	1080.2	1082.2	1076.3	1070.4	1064.4	1054.6	1044.7	1044.7
27.5°	1159.1	1157.1	1149.2	1151.2	1147.2	1143.3	1131.5	1117.7	1103.9	1094.0	1094.0
30°	1239.9	1239.9	1224.1	1232.0	1224.1	1222.1	1196.5	1178.8	1159.1	1145.3	1143.3
32.5°	1328.6	1324.6	1312.8	1320.7	1312.8	1304.9	1273.4	1249.7	1216.2	1196.5	1194.5
35°	1435.0	1425.2	1415.3	1423.2	1423.2	1401.5	1370.0	1326.6	1279.3	1255.7	1253.7
37.5°	1565.1	1559.2	1547.4	1557.2	1565.1	1543.4	1496.1	1433.1	1366.0	1330.6	1328.6
40°	1709.0	1701.1	1695.2	1709.0	1714.9	1693.3	1630.2	1541.5	1450.8	1399.6	1391.7
42.5°	1845.0	1827.3	1817.4	1837.2	1831.2	1807.6	1720.9	1618.4	1494.2	1435.0	1425.2
45°	1967.3	1947.5	1933.7	1951.5	1943.6	1896.3	1799.7	1661.7	1511.9	1439.0	1427.1
47.5°	2087.5	2057.9	2036.2	2059.9	2044.1	1971.2	1852.9	1683.4	1492.2	1405.5	1385.8
50°	2190.0	2154.5	2140.7	2168.3	2144.7	2042.2	1890.4	1673.5	1442.9	1316.8	1285.2
52.5°	2312.2	2259.0	2245.2	2298.4	2245.2	2109.2	1898.3	1649.9	1330.6	1178.8	1149.2
55°	2436.4	2377.3	2355.6	2404.9	2324.0	2123.0	1858.8	1513.9	1161.0	999.4	956.0
57.5°	2501.5	2446.3	2426.5	2462.0	2312.2	1988.9	1683.4	1261.6	906.8	725.4	678.1
60°	2560.6	2464.0	2438.4	2485.7	2190.0	1677.5	1303.0	904.8	548.0	412.0	376.5
62.5°	2602.0	2509.3	2456.1	2477.8	1965.3	1220.2	749.1	435.6	207.0	143.9	141.9
65°	*2580.3*	*2501.5*	*2466.0*	*2450.2*	*1707.1*	*701.7*	*276.0*	*110.4*	*5.9*	*5.9*	*3.9*
67.5°	2513.3	2426.5	2416.7	2430.5	1689.3	674.2	256.3	100.5	0.0	0.0	0.0
70°	2365.4	2304.3	2304.3	2351.6	1612.4	638.7	238.5	92.6	0.0	0.0	0.0
72.5°	2166.3	2119.0	2146.6	2217.6	1498.1	589.4	214.9	82.8	0.0	0.0	0.0
75°	1927.8	1878.6	1914.0	1992.9	1356.2	526.3	187.3	71.0	0.0	0.0	0.0
77.5°	1624.3	1590.8	1646.0	1718.9	1167.0	443.5	153.8	57.2	0.0	0.0	0.0
80°	1265.5	1247.8	1320.7	1385.8	942.2	348.9	116.3	41.4	0.0	0.0	0.0
82.5°	873.2	865.4	936.3	1003.3	674.2	244.4	78.8	27.6	0.0	0.0	0.0
85°	457.3	457.3	512.5	573.6	376.5	132.1	39.4	11.8	0.0	0.0	0.0
87.5°	100.5	96.6	104.5	134.0	74.9	25.6	5.9	2.0	0.0	0.0	0.0
90°	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
105°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	2.0	2.0	2.0	2.0	2.0	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: P436903
CATALOG NUMBER: TT-D6-740-U-WQ-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
117.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
122.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
125°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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: SP1-2407-176-5

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

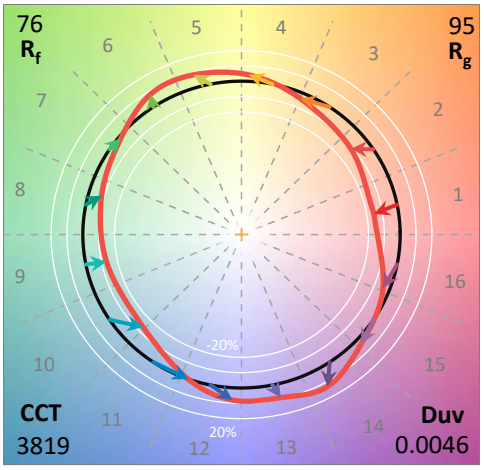
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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	CRI (Ra):	72.9		
CIE u':	0.2261	R1:	70.1	R9:	-21.5
CIE v':	0.5108	R2:	78.4	R10:	48.5
Duv:	0.0046	R3:	85.0	R11:	68.4
CIE x:	0.3926	R4:	72.9	R12:	39.0
CIE y:	0.3942	R5:	69.1	R13:	71.1
CIE z:	0.2132	R6:	69.2	R14:	91.3
Peak Wavelength (nm):	450	R7:	82.8	R15:	63.2
Dominant Wavelength (nm):	577	R8:	55.4		
Purity:	36.15483				
Rf:	75.6				
Rg:	94.8				



Test Conditions

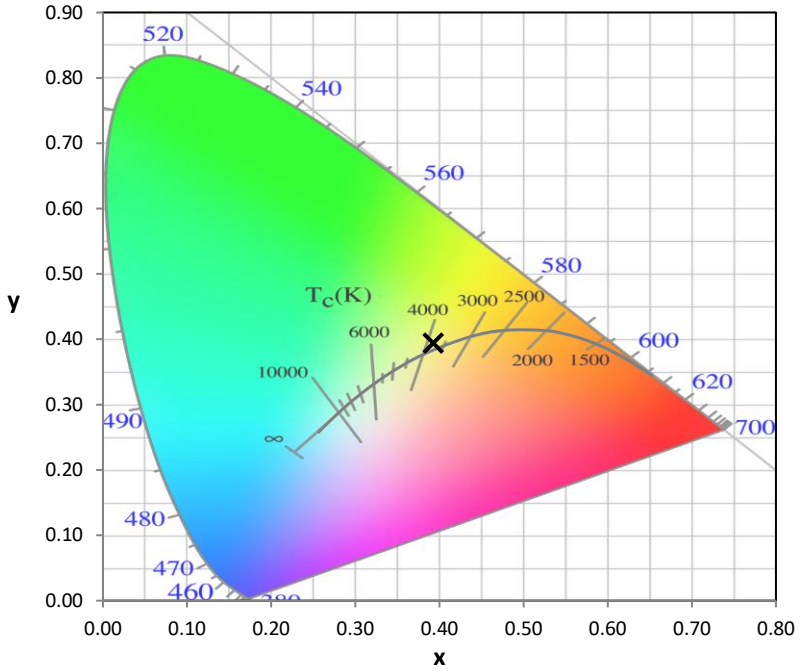
Stabilization Time:	30M
Operation Time:	1H 30M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-5

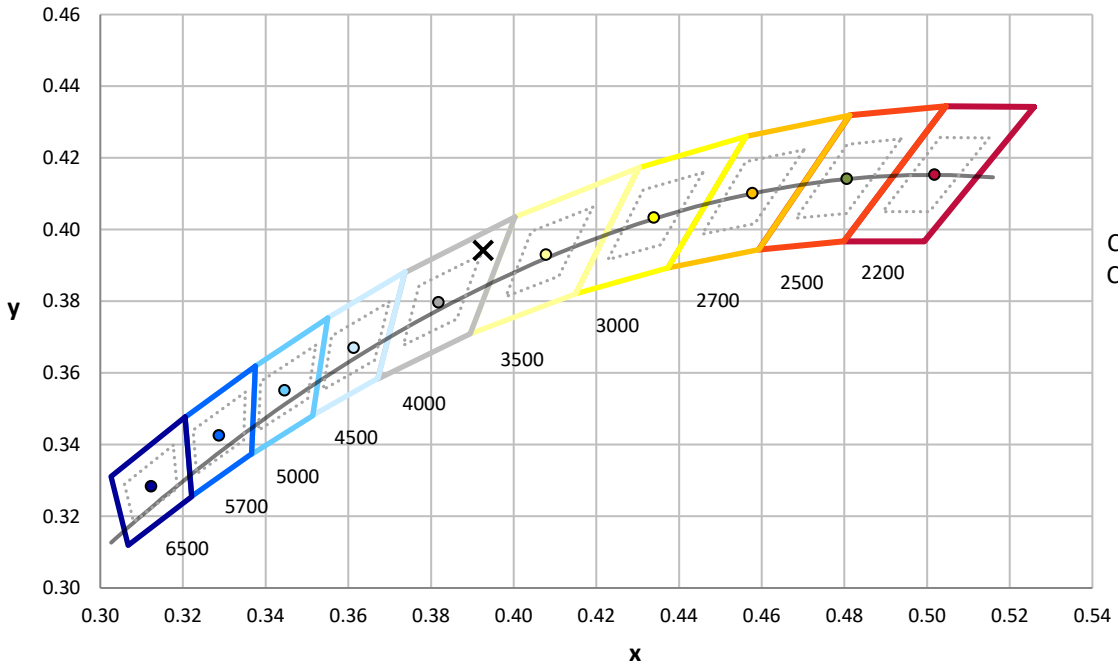
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

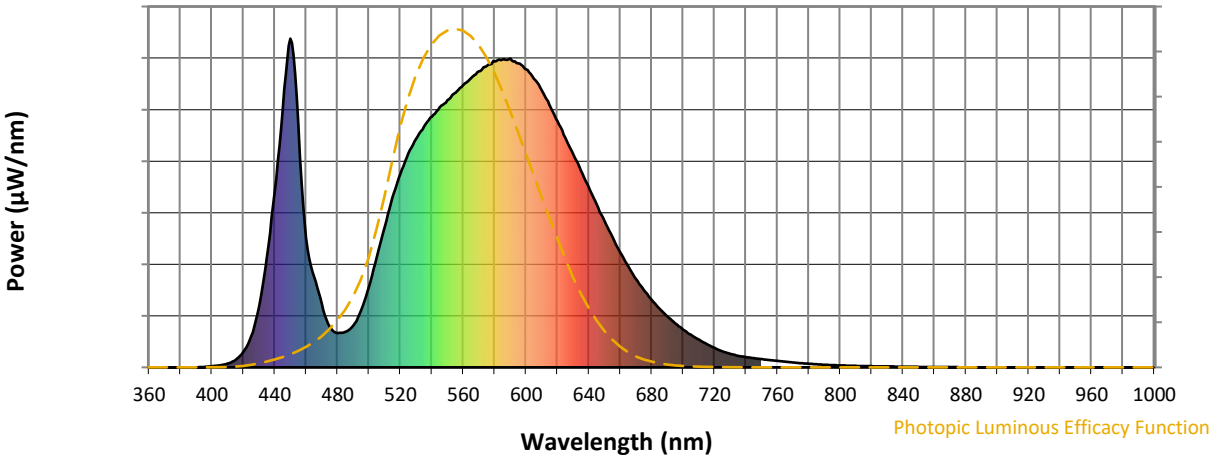


CCT = 3819K
CIE x = 0.3926
CIE y = 0.3942
Duv = 0.0046

Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2407-176-5

Photopic Flux vs. Wavelength

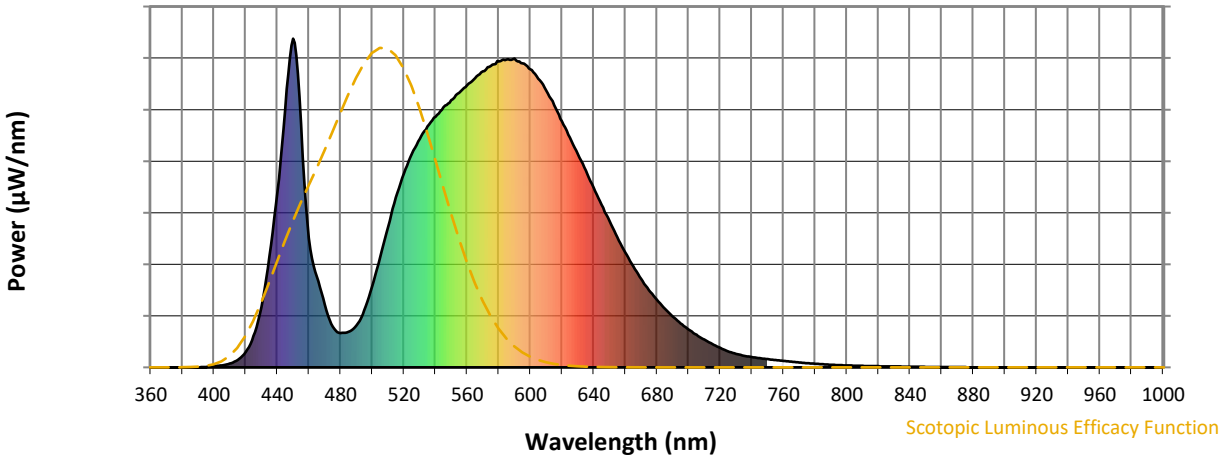


Photopic Lumens: NR

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

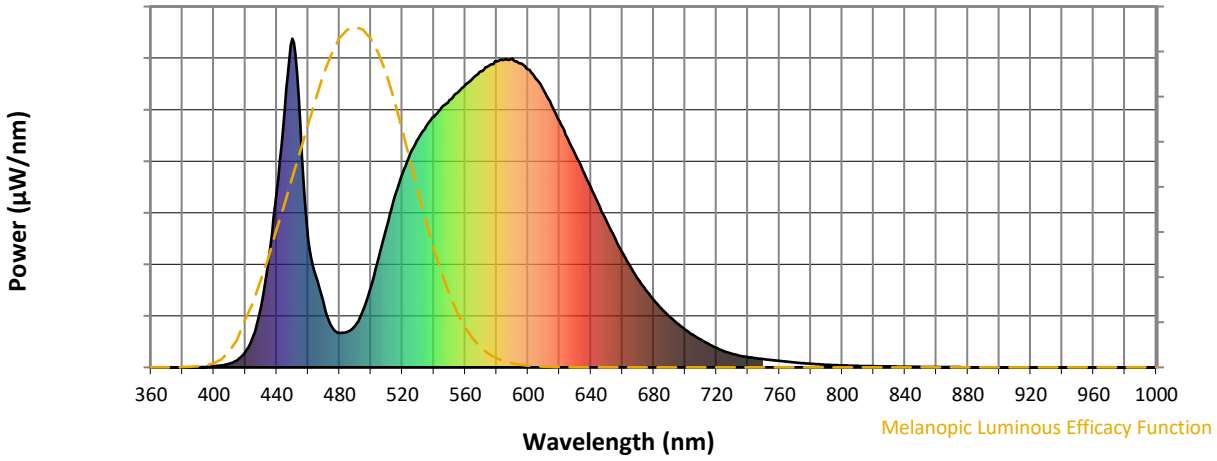


Scotopic Lumens: NR **S/P: 1.45**

λ (nm)	Power 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

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.76**

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			

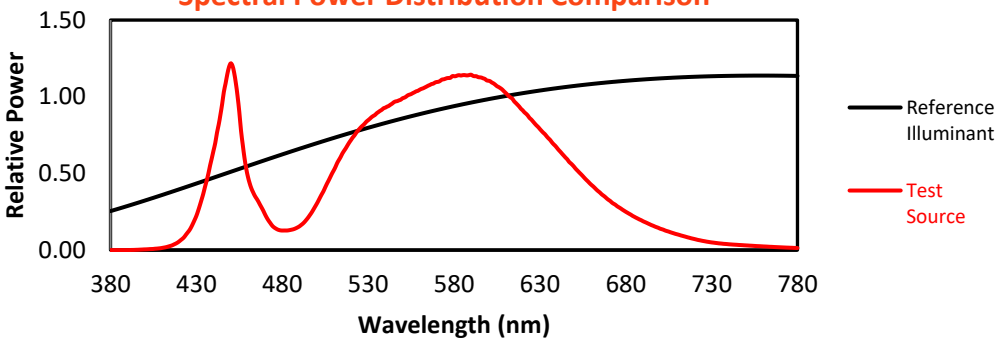
REPORT NUMBER: SP1-2407-176-5

TM-30-18

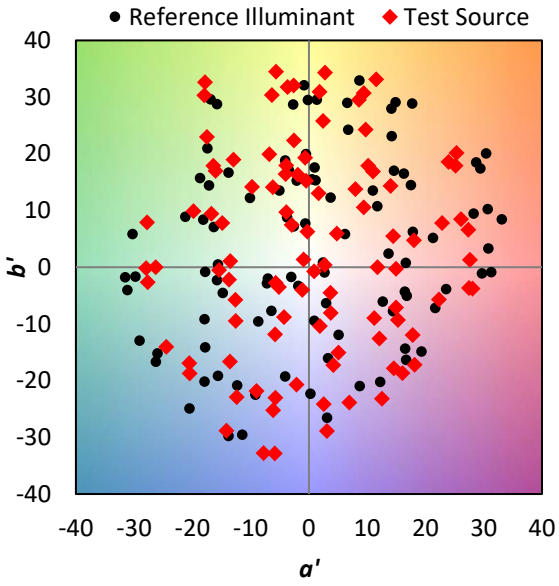
Summary

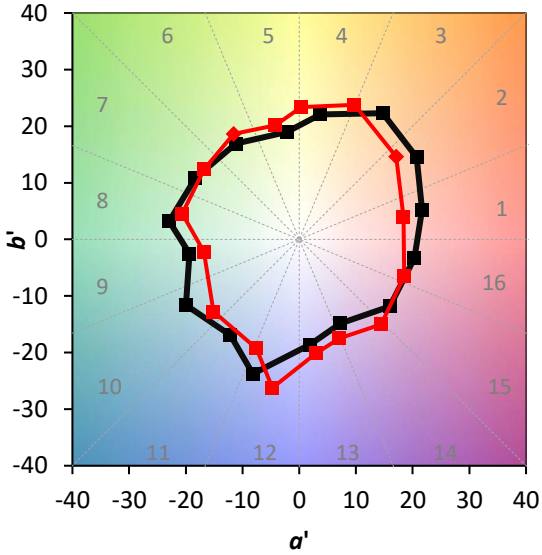
R_f = 75.6
R_g = 94.8
CIE R_a = 72.9
R_9 = -21.5

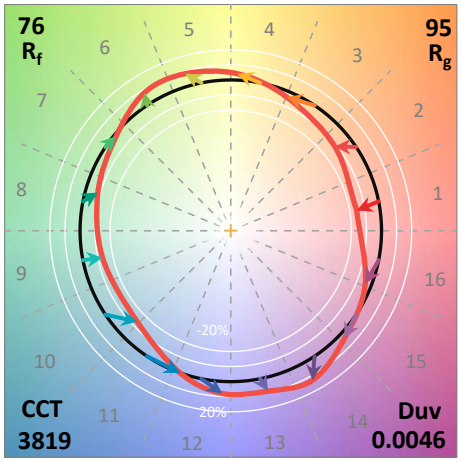
Spectral Power Distribution Comparison

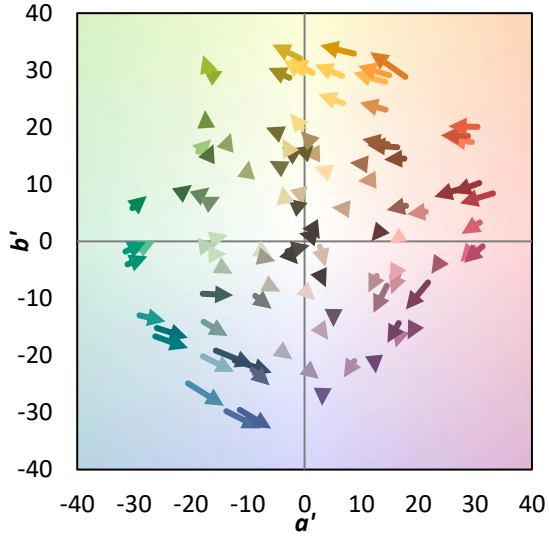


Color Vector Graphics







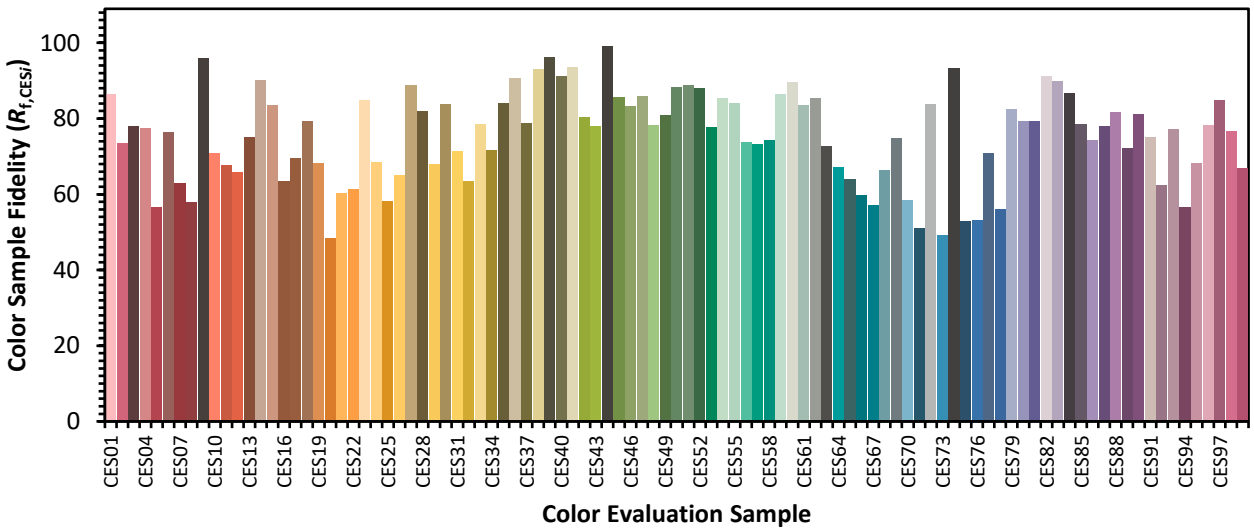


REPORT NUMBER: SP1-2407-176-5

TM-30-18

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

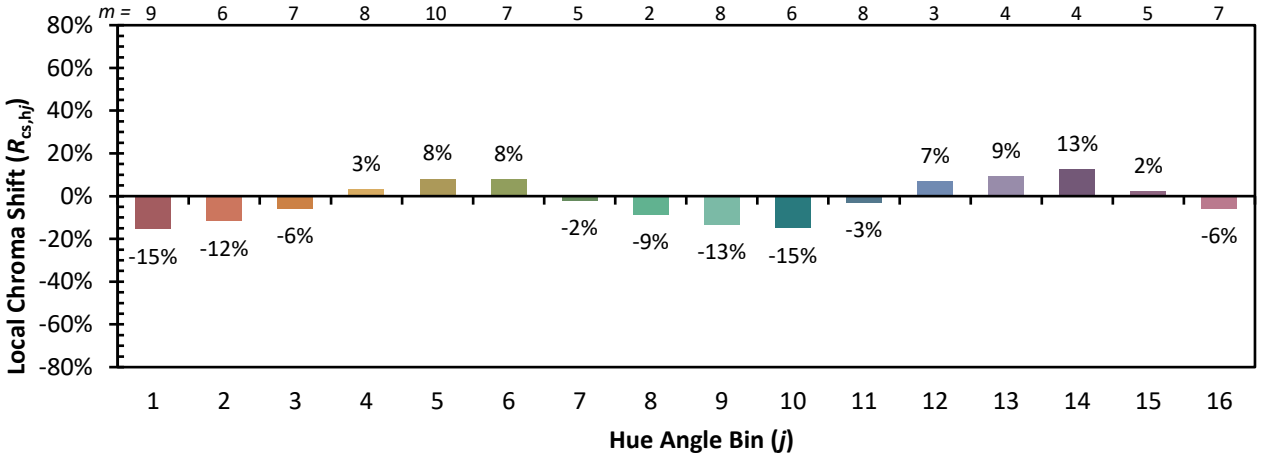
CES01 = 85	CES26 = 65	CES51 = 89	CES76 = 53
CES02 = 61	CES27 = 89	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 82	CES53 = 78	CES78 = 56
CES04 = 70	CES29 = 68	CES54 = 85	CES79 = 83
CES05 = 48	CES30 = 84	CES55 = 84	CES80 = 79
CES06 = 50	CES31 = 71	CES56 = 74	CES81 = 79
CES07 = 40	CES32 = 63	CES57 = 73	CES82 = 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	

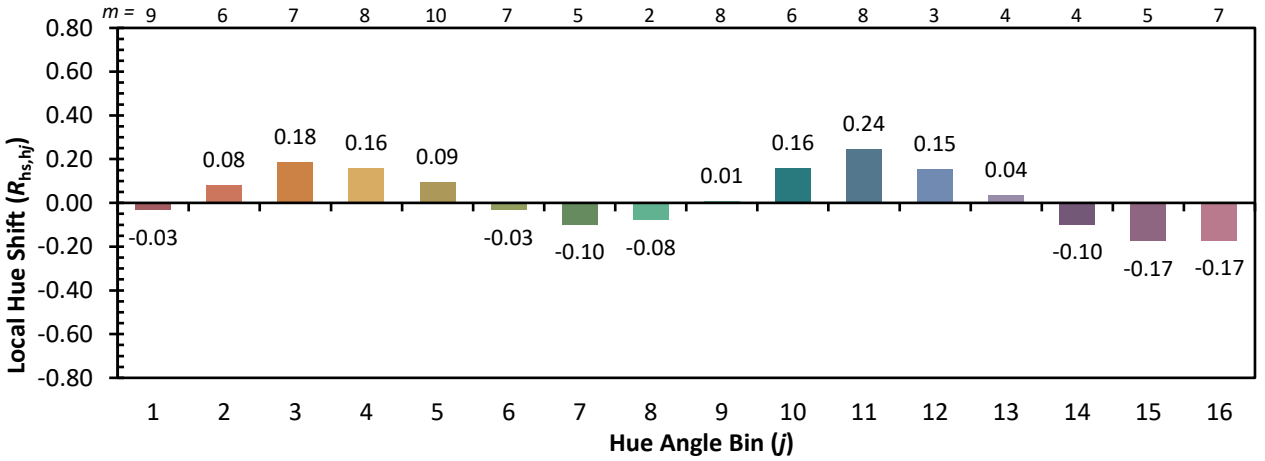


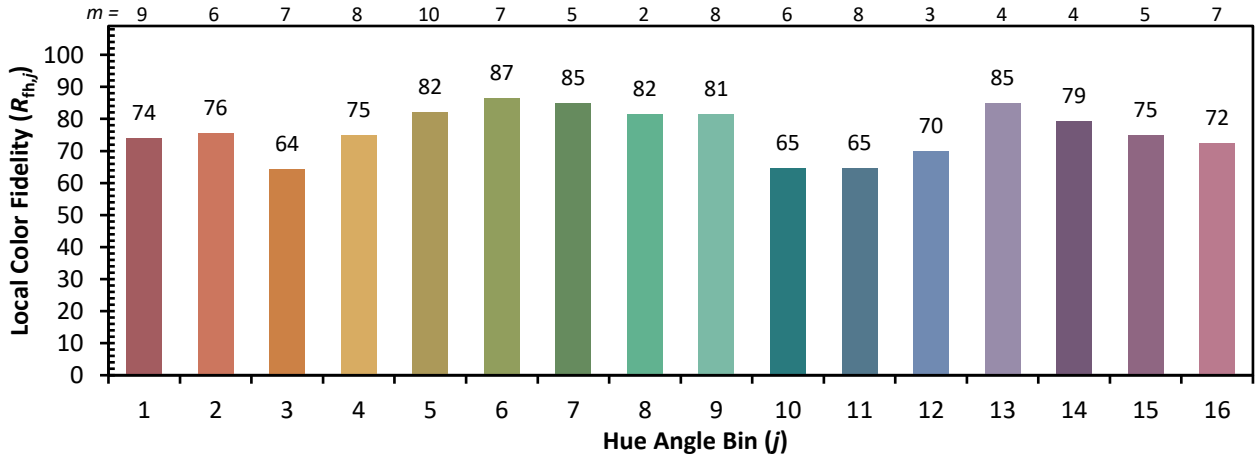
REPORT NUMBER: SP1-2407-176-5

TM-30-18

Color Rendition by Hue-Angle Bin



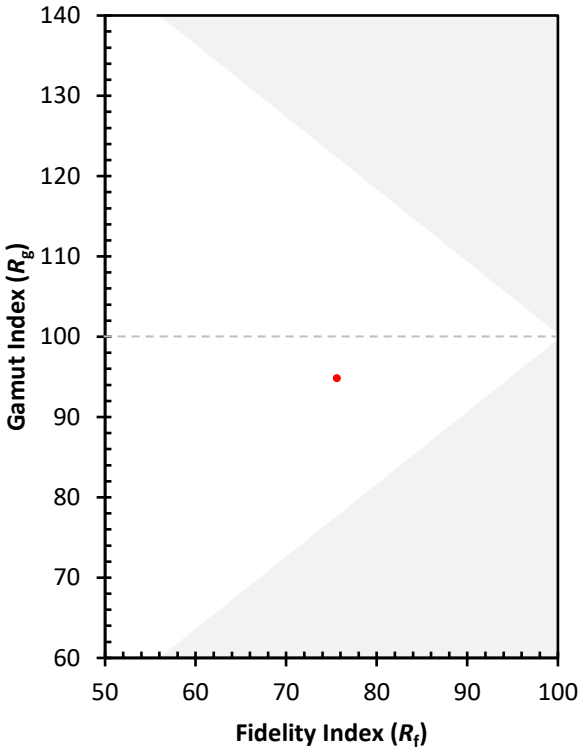


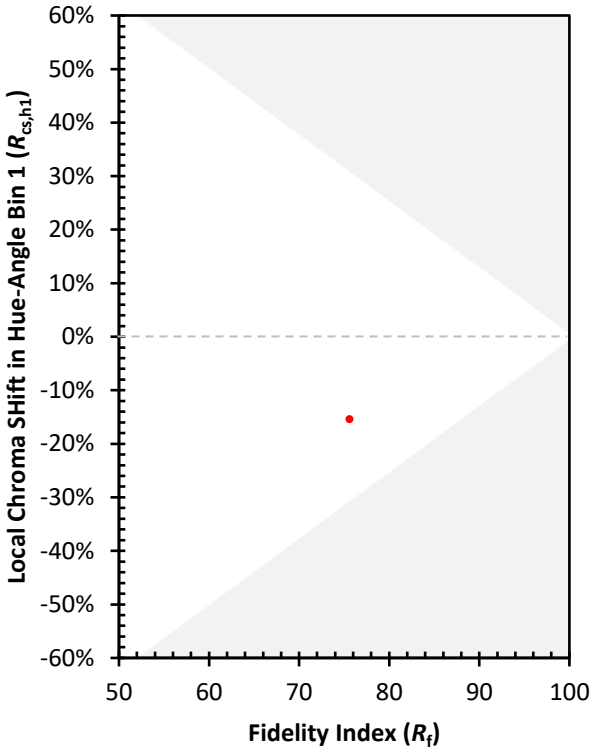


REPORT NUMBER: SP1-2407-176-5

TM-30-18

Measure Comparisons





(END OF REPORT)