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: P436898

Luminaire Tested: **TT-D6-735-U-RW-PM-HSS**

Issue Date: 12/2/2020

Report Generated By 670246001

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P436898
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-5)
Test Lab:	INNOVATION CENTER
Issue Date:	12/2/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TT-D6-735-U-RW-PM-HSS
Description:	TOPTIER LED SITE LUMINAIRE
	3500K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7477.1 lumens
Efficiency:	N/A
Efficacy:	71.1 lumens/watt
Luminous Opening:	Circular (Dia: 1.12' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - 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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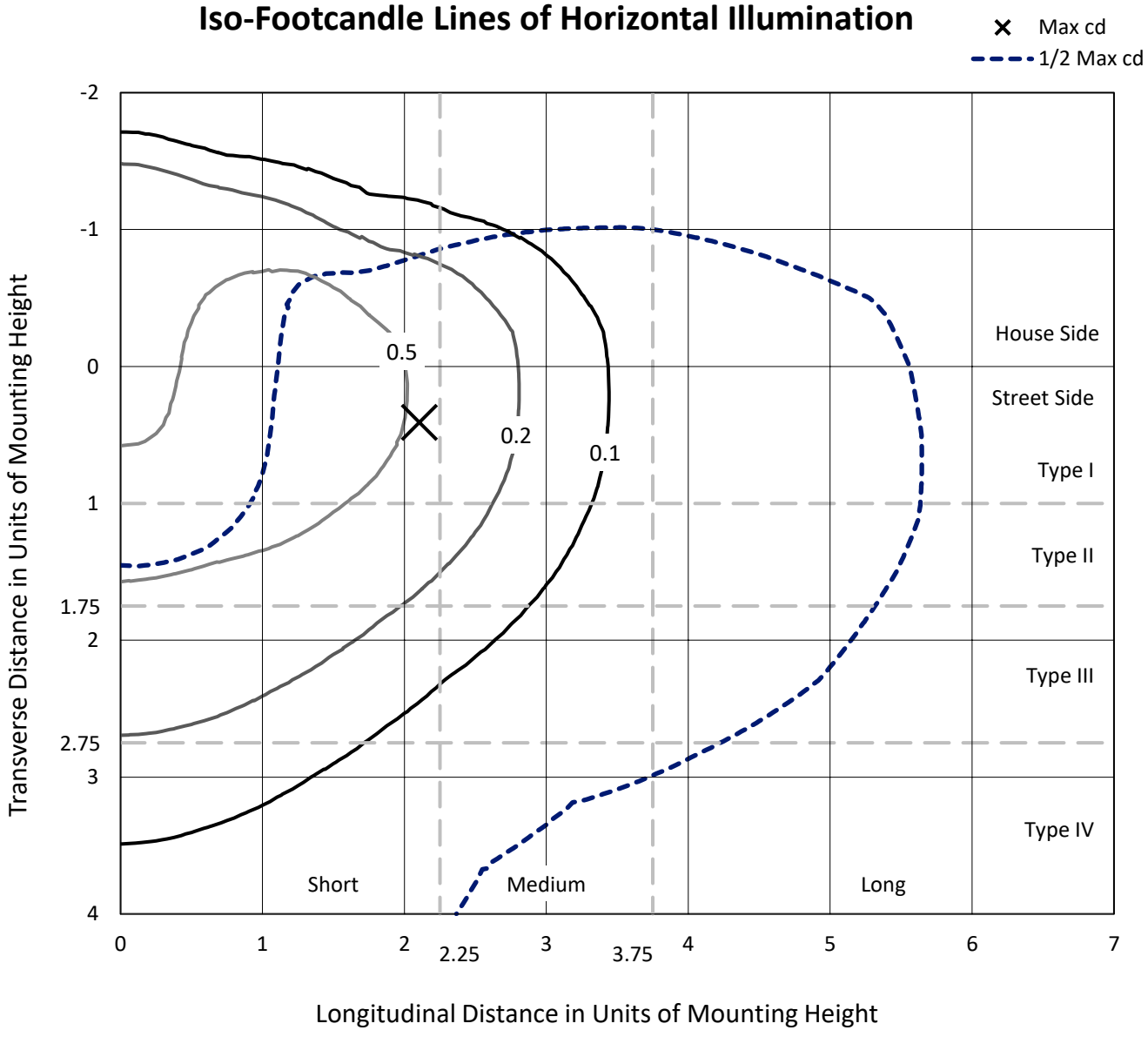
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - N/A

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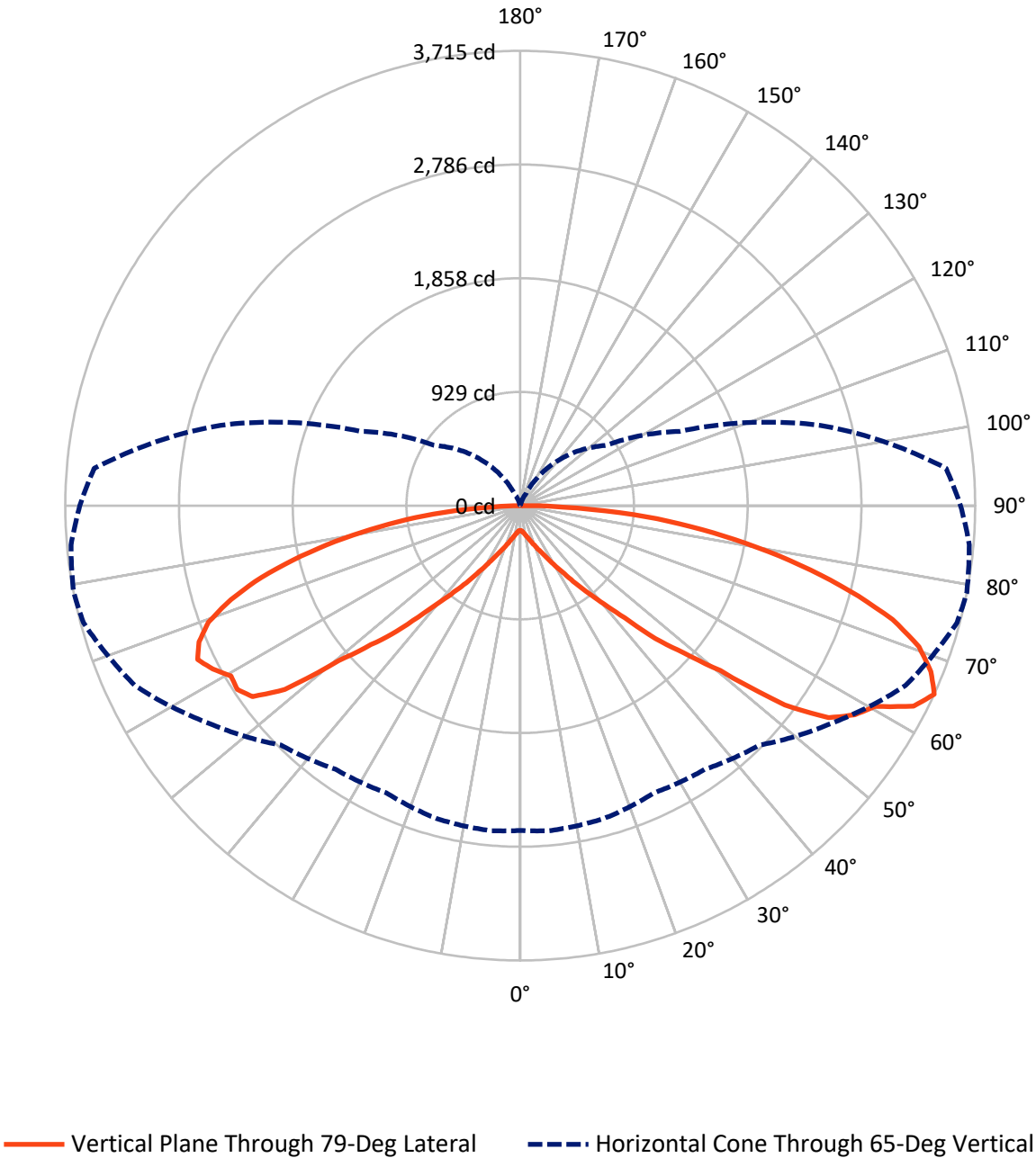
Luminous Intensity Polar Plot



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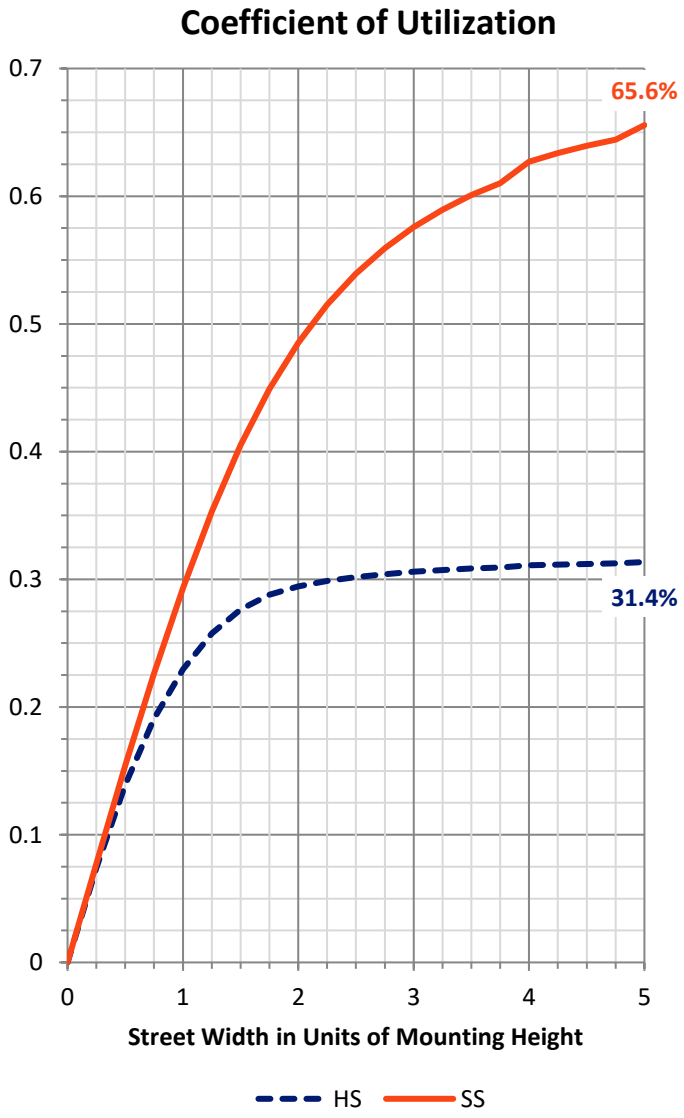
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2361.1	3.1	2364.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	5079.9	33.0	5112.9
	% Fixture	67.9	0.4	68.4
Total	Lumens	7441.0	36.1	7477.1
	% Fixture	99.5	0.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	0.3
10°-20°	80.5	1.1
20°-30°	185.8	2.5
30°-40°	398.0	5.3
40°-50°	852.5	11.4
50°-60°	1609.9	21.5
60°-70°	2000.8	26.8
70°-80°	1712.8	22.9
80°-90°	579.4	7.7
90°-100°	25.1	0.3
100°-110°	7.2	0.1
110°-120°	1.6	0.0
120°-130°	0.9	0.0
130°-140°	0.6	0.0
140°-150°	0.4	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	7441.0	99.5
0°-180°	7477.1	100.0



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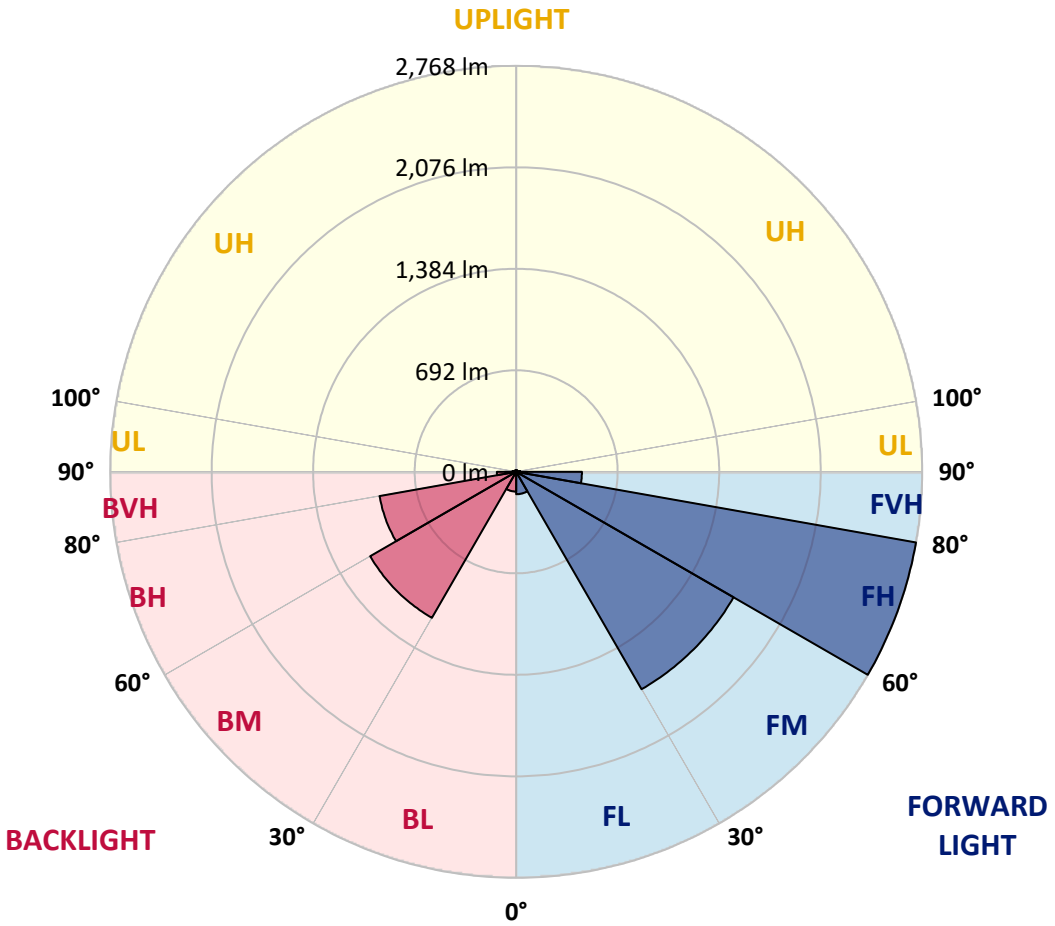
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	152.9	2.0			
FM	(30°-60°)	1711.1	22.9			
FH	(60°-80°)	2767.7	37.0			G2/5000
FVH	(80°-90°)	448.2	6.0			G3/500
BL	(0°-30°)	134.7	1.8	B1/500		
BM	(30°-60°)	1149.3	15.4	B2/2500		
BH	(60°-80°)	945.9	12.7	B2/1000		G2/1000
BVH	(80°-90°)	131.2	1.8			G2/225
UL	(90°-100°)	25.1	0.3		U2/50	
UH	(100°-180°)	11.0	0.1		U2/50	

BUG Rating: B2-U2-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	203.1	203.1	203.1	203.1	203.1	203.1	203.1	203.1	203.1	*203.1*	203.1
2.5°	214.3	214.3	214.3	212.4	212.4	212.4	210.5	208.7	206.8	*206.8*	206.8
5°	225.4	225.4	225.4	225.4	223.6	221.7	219.8	218.0	216.1	*216.1*	214.3
7.5°	240.3	238.5	240.3	238.5	238.5	236.6	234.8	232.9	229.2	*229.2*	227.3
10°	255.2	255.2	255.2	255.2	255.2	253.4	251.5	249.7	247.8	*245.9*	244.1
12.5°	273.9	273.9	273.9	272.0	273.9	272.0	270.2	270.2	268.3	*264.6*	264.6
15°	292.5	292.5	292.5	292.5	294.4	294.4	294.4	292.5	292.5	*290.6*	288.8
17.5°	314.9	313.0	314.9	314.9	316.7	318.6	320.5	322.3	322.3	*320.5*	320.5
20°	339.1	337.2	339.1	339.1	342.8	346.5	352.1	355.9	357.7	*354.0*	354.0
22.5°	365.2	363.3	367.0	367.0	372.6	378.2	387.5	391.3	396.8	*395.0*	395.0
25°	396.8	395.0	396.8	398.7	406.2	415.5	426.7	436.0	441.6	*441.6*	443.4
27.5°	432.2	432.2	434.1	436.0	443.4	458.3	475.1	491.9	504.9	*503.0*	504.9
30°	480.7	480.7	484.4	486.3	495.6	512.4	534.7	557.1	575.7	*575.7*	579.4
32.5°	534.7	532.9	538.4	540.3	549.6	572.0	603.7	639.1	663.3	*663.3*	667.0
35°	599.9	598.1	603.7	603.7	614.8	646.5	687.5	735.9	776.9	*778.8*	784.4
37.5°	681.9	678.2	678.2	683.8	696.8	737.8	793.7	860.8	903.6	*907.3*	916.7
40°	778.8	776.9	780.7	778.8	795.6	845.9	916.7	994.9	1045.2	*1054.5*	1065.7
42.5°	898.0	901.8	896.2	896.2	916.7	974.4	1058.3	1149.6	1240.8	*1252.0*	1257.6
45°	1043.4	1050.8	1043.4	1041.5	1060.1	1127.2	1242.7	1402.9	1509.1	*1546.4*	1557.6
47.5°	1218.5	1222.2	1212.9	1209.2	1229.7	1315.4	1464.4	1643.3	1768.1	*1796.1*	1825.9
50°	1414.1	1408.5	1401.1	1395.5	1434.6	1540.8	1714.1	1898.5	2112.8	*2116.5*	2127.7
52.5°	1615.3	1598.6	1600.4	1598.6	1652.6	1768.1	1999.1	2312.1	2638.2	*2705.3*	2712.7
55°	1816.6	1796.1	1794.2	1812.8	1889.2	2055.0	2345.7	2751.8	3016.4	*3057.4*	3051.8
57.5°	2017.8	2008.5	2004.7	2021.5	2133.3	2330.8	2658.7	3001.5	3226.9	*3223.2*	3184.1
60°	2226.4	2233.9	2220.9	2252.5	2368.0	2565.5	2804.0	3137.5	3346.2	*3329.4*	3290.3
62.5°	2440.7	2459.3	2446.3	2450.0	2524.5	2669.9	2904.6	3292.1	3580.9	*3605.2*	3560.4
65°	*2653.1*	*2666.1*	*2645.6*	*2587.9*	*2628.9*	*2764.9*	*3100.2*	*3472.9*	*3692.7*	*3715.1*	*3681.5*
67.5°	2832.0	2845.0	2774.2	2682.9	2688.5	2787.2	3081.6	3437.5	3633.1	*3618.2*	3564.2
70°	2984.7	2960.5	2845.0	2688.5	2623.3	2669.9	2947.5	3262.3	3461.7	*3454.2*	3390.9
72.5°	3035.0	3003.4	2807.7	2565.5	2437.0	2453.7	2723.9	3005.2	3167.3	*3180.4*	3104.0
75°	2954.9	2900.9	2632.6	2328.9	2163.1	2174.3	2405.3	2664.3	2794.7	*2779.8*	2720.2
77.5°	2666.1	2612.1	2321.5	1997.3	1835.2	1852.0	2034.5	2237.6	2345.7	*2340.1*	2299.1
80°	2213.4	2165.0	1909.7	1607.9	1460.7	1470.0	1609.7	1770.0	1853.8	*1872.4*	1850.1
82.5°	1635.8	1602.3	1421.6	1177.5	1058.3	1056.4	1162.6	1285.6	1367.5	*1406.7*	1391.8
85°	1011.7	994.9	894.3	735.9	652.1	650.2	713.6	804.9	879.4	*931.6*	898.0
87.5°	402.4	396.8	367.0	296.2	259.0	245.9	231.0	288.8	294.4	*348.4*	346.5
90°	98.7	96.9	95.0	89.4	80.1	68.9	55.9	41.0	26.1	*20.5*	11.2
92.5°	87.6	87.6	85.7	80.1	72.7	61.5	50.3	37.3	24.2	*18.6*	9.3
95°	70.8	70.8	68.9	65.2	57.8	50.3	39.1	29.8	18.6	*14.9*	7.5
97.5°	54.0	52.2	52.2	48.4	44.7	37.3	29.8	22.4	14.9	*11.2*	5.6
100°	39.1	39.1	37.3	35.4	31.7	27.9	22.4	16.8	9.3	*7.5*	3.7
102.5°	27.9	26.1	26.1	26.1	22.4	18.6	14.9	11.2	7.5	*5.6*	1.9
105°	18.6	16.8	16.8	16.8	14.9	13.0	9.3	7.5	3.7	*3.7*	1.9
107.5°	11.2	11.2	11.2	11.2	9.3	7.5	5.6	3.7	1.9	*1.9*	1.9
110°	5.6	5.6	5.6	7.5	5.6	5.6	3.7	1.9	1.9	*1.9*	1.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
112.5°	3.7	3.7	3.7	3.7	3.7	3.7	1.9	1.9	1.9	*1.9*	1.9
115°	1.9	1.9	1.9	3.7	3.7	1.9	1.9	0.0	0.0	*1.9*	1.9
117.5°	0.0	0.0	1.9	1.9	1.9	1.9	0.0	0.0	0.0	*0.0*	1.9
120°	0.0	0.0	1.9	1.9	1.9	1.9	0.0	0.0	0.0	*0.0*	1.9
122.5°	0.0	0.0	1.9	1.9	1.9	1.9	0.0	0.0	0.0	*0.0*	1.9
125°	0.0	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	*0.0*	1.9
127.5°	0.0	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	*0.0*	1.9
130°	0.0	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	*0.0*	1.9
132.5°	0.0	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	*0.0*	1.9
135°	0.0	0.0	0.0	1.9	1.9	0.0	0.0	0.0	0.0	*0.0*	0.0
137.5°	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	*0.0*	0.0
140°	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	*0.0*	0.0
142.5°	0.0	0.0	0.0	0.0	1.9	1.9	0.0	0.0	0.0	*0.0*	0.0
145°	0.0	0.0	0.0	1.9	1.9	1.9	1.9	0.0	0.0	*0.0*	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	*0.0*	0.0
150°	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	*0.0*	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0
157.5°	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	*0.0*	0.0
160°	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	*0.0*	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0
177.5°	0.0	0.0	0.0	1.9	0.0	1.9	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	203.1	203.1	203.1	203.1	203.1	203.1	203.1	203.1	203.1	203.1	203.1
2.5°	204.9	204.9	204.9	203.1	203.1	203.1	201.2	201.2	199.4	199.4	199.4
5°	212.4	212.4	210.5	210.5	208.7	206.8	206.8	204.9	204.9	203.1	203.1
7.5°	225.4	225.4	223.6	221.7	218.0	216.1	214.3	212.4	212.4	210.5	210.5
10°	242.2	242.2	238.5	234.8	231.0	227.3	225.4	221.7	219.8	219.8	219.8
12.5°	262.7	260.8	257.1	251.5	247.8	242.2	238.5	234.8	231.0	231.0	231.0
15°	286.9	286.9	279.5	273.9	266.4	259.0	253.4	247.8	244.1	242.2	242.2
17.5°	316.7	316.7	307.4	298.1	288.8	279.5	272.0	264.6	260.8	259.0	259.0
20°	350.3	350.3	341.0	329.8	316.7	303.7	292.5	283.2	277.6	275.7	275.7
22.5°	391.3	391.3	378.2	363.3	346.5	327.9	313.0	301.8	296.2	292.5	292.5
25°	437.8	434.1	421.1	402.4	378.2	355.9	335.4	324.2	316.7	311.1	313.0
27.5°	501.2	495.6	478.8	447.2	417.3	387.5	363.3	348.4	339.1	335.4	337.2
30°	573.8	568.3	544.0	508.6	463.9	424.8	395.0	378.2	368.9	363.3	365.2
32.5°	661.4	654.0	624.1	575.7	523.5	467.6	430.4	409.9	400.6	395.0	393.1
35°	776.9	767.6	730.3	663.3	590.6	523.5	471.4	445.3	436.0	430.4	432.2
37.5°	907.3	894.3	844.0	762.0	670.7	585.0	525.4	491.9	480.7	471.4	471.4
40°	1056.4	1041.5	976.3	868.2	758.3	652.1	575.7	538.4	525.4	525.4	525.4
42.5°	1242.7	1227.8	1153.3	994.9	849.6	724.8	633.5	590.6	577.6	581.3	581.3
45°	1531.5	1511.0	1391.8	1183.1	968.8	799.3	693.1	644.6	635.3	644.6	644.6
47.5°	1796.1	1770.0	1594.8	1358.2	1086.2	873.8	752.7	696.8	693.1	713.6	713.6
50°	2092.3	2058.8	1874.3	1499.8	1181.2	955.8	806.7	739.7	741.5	771.3	780.7
52.5°	2666.1	2630.7	2312.1	1756.9	1283.7	985.6	829.1	749.0	749.0	782.5	795.6
55°	3007.1	2934.4	2519.0	1924.6	1326.5	1021.0	819.8	711.7	708.0	745.3	756.4
57.5°	3118.9	3044.4	2561.8	1876.2	1298.6	976.3	765.7	611.1	603.7	652.1	648.4
60°	3210.2	3111.4	2492.9	1714.1	1140.2	881.3	661.4	454.6	422.9	465.8	463.9
62.5°	3467.3	3361.1	2496.6	1524.0	953.9	735.9	497.5	255.2	190.0	223.6	208.7
65°	*3595.8*	*3491.5*	*2535.7*	*1434.6*	*858.9*	*609.2*	*355.9*	*104.3*	*7.5*	*7.5*	*3.7*
67.5°	3485.9	3392.8	2485.4	1412.3	845.9	605.5	361.4	102.5	0.0	0.0	0.0
70°	3325.7	3236.3	2369.9	1334.0	803.0	583.2	354.0	102.5	0.0	0.0	0.0
72.5°	3044.4	2953.1	2170.5	1222.2	737.8	534.7	327.9	96.9	0.0	0.0	0.0
75°	2673.6	2604.7	1917.2	1076.9	650.2	471.4	290.6	85.7	0.0	0.0	0.0
77.5°	2263.7	2181.7	1607.9	896.2	544.0	391.3	245.9	70.8	0.0	0.0	0.0
80°	1816.6	1756.9	1266.9	702.4	421.1	305.6	191.9	54.0	0.0	0.0	0.0
82.5°	1350.8	1300.5	937.2	503.0	300.0	212.4	132.3	35.4	0.0	0.0	0.0
85°	886.8	873.8	601.8	305.6	178.9	117.4	70.8	16.8	0.0	0.0	0.0
87.5°	320.5	331.6	219.8	87.6	48.4	20.5	9.3	1.9	0.0	0.0	0.0
90°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
92.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
95°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
97.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
100°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
102.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
105°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
107.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
110°	1.9	1.9	1.9	1.9	1.9	1.9	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: P436898
CATALOG NUMBER: TT-D6-735-U-RW-PM-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
115°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
117.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
120°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
122.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
125°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
127.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
130°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
132.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
135°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
150°	0.0	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	1.9	1.9	1.9	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

MCGRAW EDISON

Report Number: SP1-2411-284-1

Test Date: 11/15/2024

Luminaire Tested: TTN-D0-735-U-WQ

Data in this report applies to families of products including TT-D* and TTN-D*

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

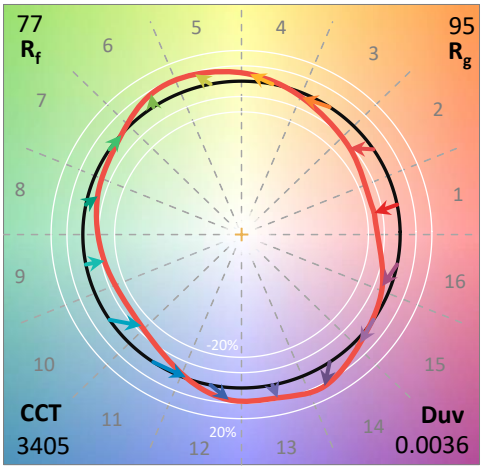
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2411-284-1
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	11/15/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**TTN-D0-735-U-WQ**
Description:	TOPTIER NANO LED PARKING GARAGE LUMINAIRE. 3500K, 70 CRI LEDS AND WIDE DISTRIBUTION

Spectral Parameters

CCT (K):	3405
CIE u':	0.2365
CIE v':	0.5180
Duv:	0.0036
CIE x:	0.4148
CIE y:	0.4038
CIE z:	0.1814
Peak Wavelength (nm):	596
Dominant Wavelength (nm):	579
Purity:	45.70672
Rf:	76.6
Rg:	95.4

CRI (Ra):	73.9
R1:	71.3
R2:	80.3
R3:	87.8
R4:	73.2
R5:	69.8
R6:	71.8
R7:	82.8
R8:	54.1
R9:	-18.0
R10:	53.1
R11:	68.6
R12:	42.6
R13:	72.5
R14:	92.7
R15:	64.3



Test Conditions

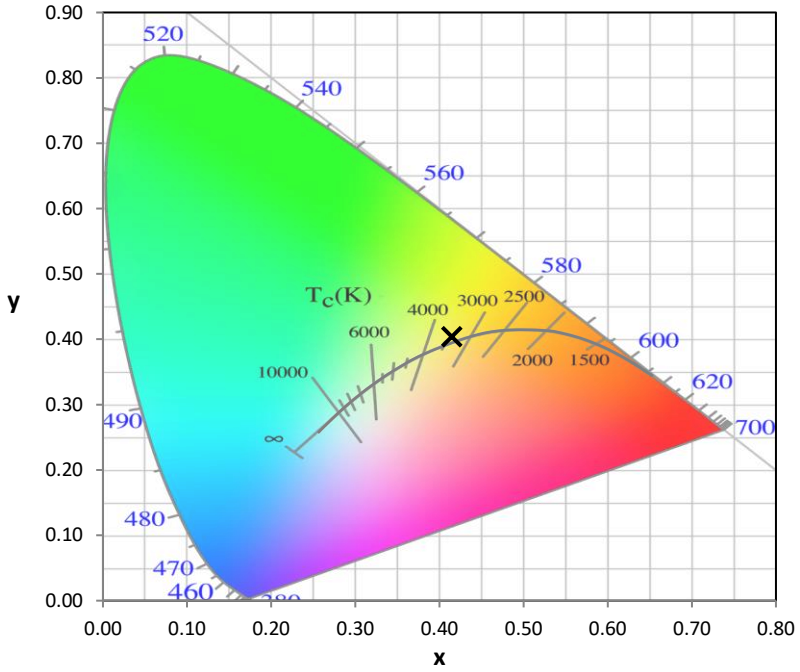
Stabilization Time:	38M
Operation Time:	1H 38M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2411-284-1

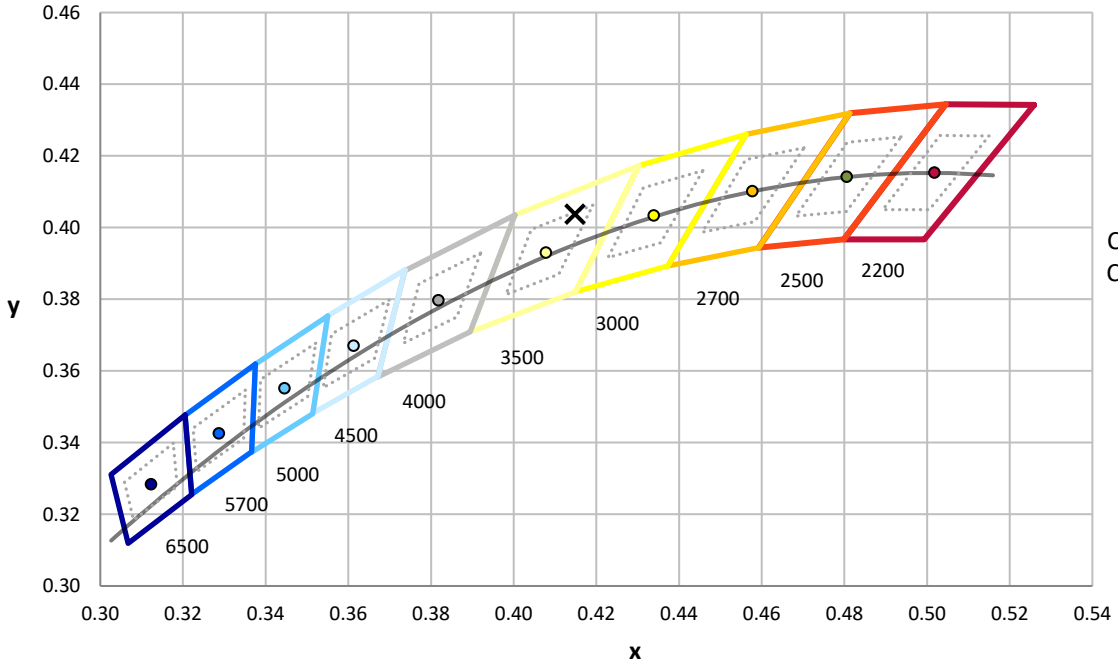
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2411-284-1

CIE 1931 Chromaticity Diagram



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

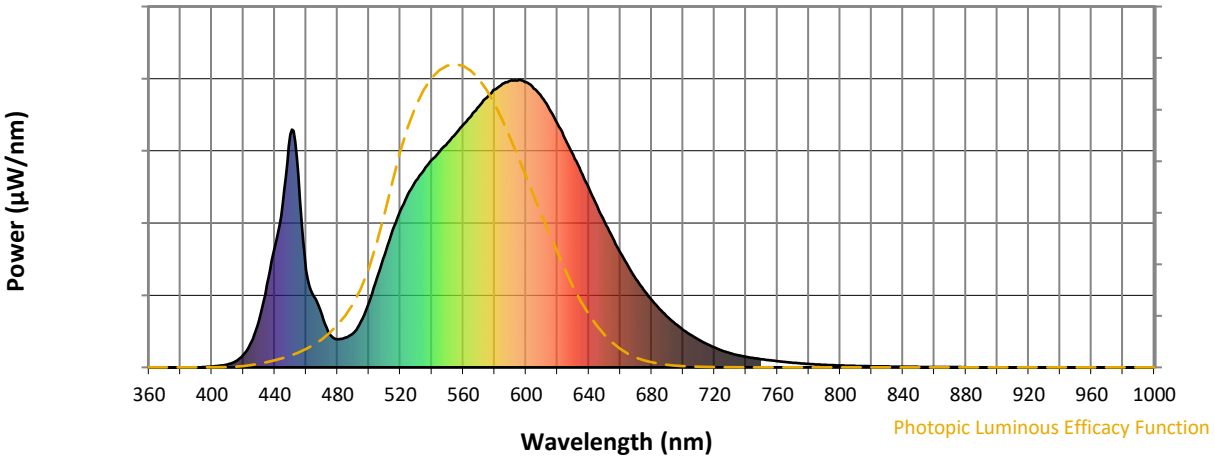


CCT = 3405K
CIE x = 0.4148
CIE y = 0.4038
Duv = 0.0036

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2411-284-1

Photopic Flux vs. Wavelength

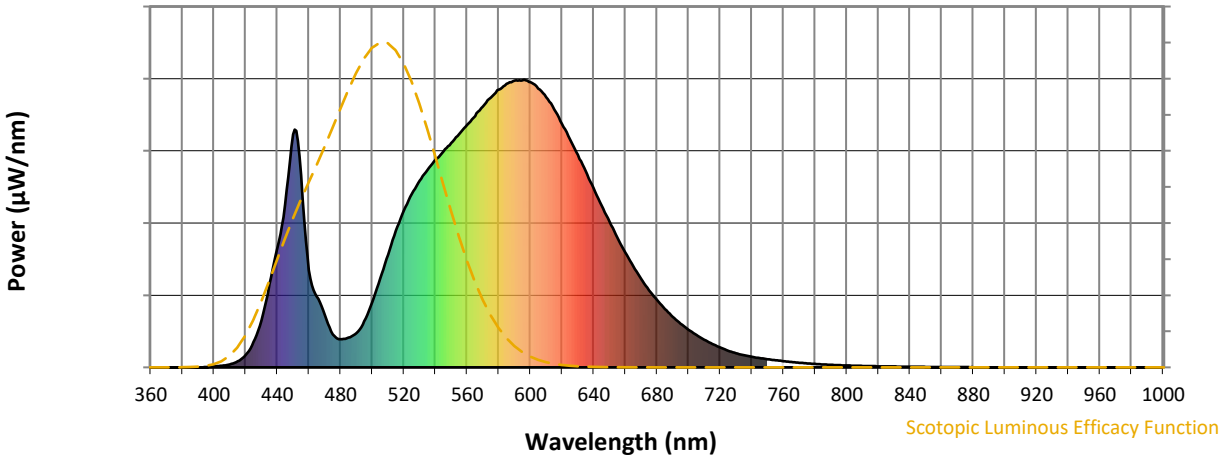


Photopic Lumens: NR

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	119	NR	620	846	NR	750	28	NR	880	1	NR
365	0	NR	495	160	NR	625	793	NR	755	25	NR	885	0	NR
370	0	NR	500	225	NR	630	739	NR	760	22	NR	890	0	NR
375	0	NR	505	308	NR	635	681	NR	765	19	NR	895	0	NR
380	0	NR	510	392	NR	640	623	NR	770	16	NR	900	0	NR
385	0	NR	515	474	NR	645	563	NR	775	14	NR	905	0	NR
390	0	NR	520	545	NR	650	506	NR	780	12	NR	910	0	NR
395	1	NR	525	603	NR	655	451	NR	785	10	NR	915	0	NR
400	3	NR	530	649	NR	660	399	NR	790	9	NR	920	0	NR
405	5	NR	535	687	NR	665	352	NR	795	8	NR	925	0	NR
410	11	NR	540	721	NR	670	307	NR	800	6	NR	930	0	NR
415	21	NR	545	751	NR	675	268	NR	805	6	NR	935	0	NR
420	43	NR	550	779	NR	680	234	NR	810	5	NR	940	0	NR
425	88	NR	555	811	NR	685	203	NR	815	4	NR	945	0	NR
430	163	NR	560	843	NR	690	176	NR	820	4	NR	950	0	NR
435	288	NR	565	873	NR	695	152	NR	825	3	NR	955	0	NR
440	416	NR	570	907	NR	700	131	NR	830	3	NR	960	0	NR
445	566	NR	575	938	NR	705	112	NR	835	3	NR	965	0	NR
450	810	NR	580	965	NR	710	96	NR	840	2	NR	970	0	NR
455	669	NR	585	986	NR	715	81	NR	845	2	NR	975	0	NR
460	338	NR	590	997	NR	720	69	NR	850	2	NR	980	0	NR
465	246	NR	595	997	NR	725	58	NR	855	1	NR	985	0	NR
470	182	NR	600	991	NR	730	49	NR	860	1	NR	990	0	NR
475	115	NR	605	968	NR	735	42	NR	865	1	NR	995	0	NR
480	97	NR	610	939	NR	740	37	NR	870	1	NR	1000	0	NR
485	103	NR	615	896	NR	745	32	NR	875	1	NR			

REPORT NUMBER: SP1-2411-284-1

Scotopic Flux vs. Wavelength

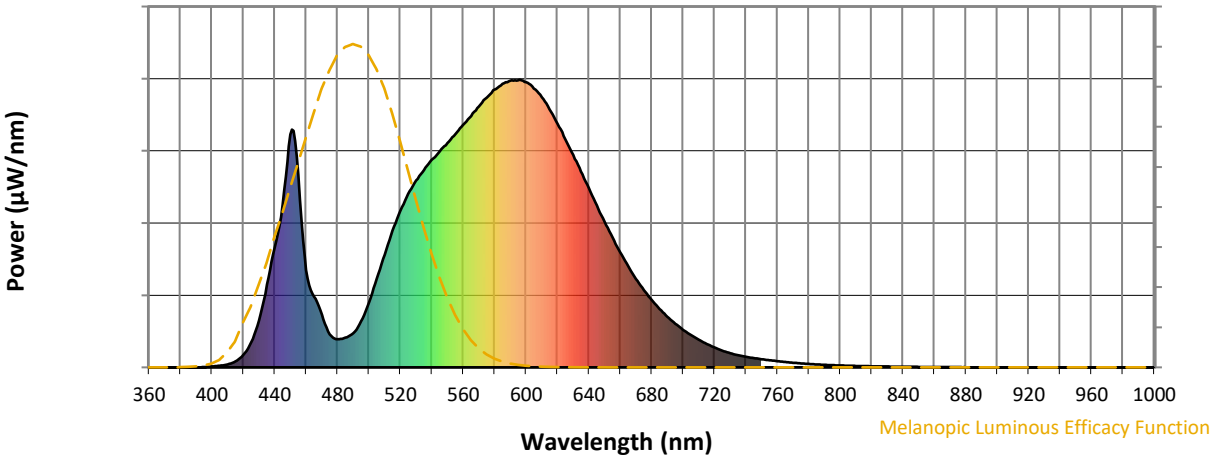


Scotopic Lumens: NR **S/P: 1.33**

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	119	NR	620	846	NR	750	28	NR	880	1	NR
365	0	NR	495	160	NR	625	793	NR	755	25	NR	885	0	NR
370	0	NR	500	225	NR	630	739	NR	760	22	NR	890	0	NR
375	0	NR	505	308	NR	635	681	NR	765	19	NR	895	0	NR
380	0	NR	510	392	NR	640	623	NR	770	16	NR	900	0	NR
385	0	NR	515	474	NR	645	563	NR	775	14	NR	905	0	NR
390	0	NR	520	545	NR	650	506	NR	780	12	NR	910	0	NR
395	1	NR	525	603	NR	655	451	NR	785	10	NR	915	0	NR
400	3	NR	530	649	NR	660	399	NR	790	9	NR	920	0	NR
405	5	NR	535	687	NR	665	352	NR	795	8	NR	925	0	NR
410	11	NR	540	721	NR	670	307	NR	800	6	NR	930	0	NR
415	21	NR	545	751	NR	675	268	NR	805	6	NR	935	0	NR
420	43	NR	550	779	NR	680	234	NR	810	5	NR	940	0	NR
425	88	NR	555	811	NR	685	203	NR	815	4	NR	945	0	NR
430	163	NR	560	843	NR	690	176	NR	820	4	NR	950	0	NR
435	288	NR	565	873	NR	695	152	NR	825	3	NR	955	0	NR
440	416	NR	570	907	NR	700	131	NR	830	3	NR	960	0	NR
445	566	NR	575	938	NR	705	112	NR	835	3	NR	965	0	NR
450	810	NR	580	965	NR	710	96	NR	840	2	NR	970	0	NR
455	669	NR	585	986	NR	715	81	NR	845	2	NR	975	0	NR
460	338	NR	590	997	NR	720	69	NR	850	2	NR	980	0	NR
465	246	NR	595	997	NR	725	58	NR	855	1	NR	985	0	NR
470	182	NR	600	991	NR	730	49	NR	860	1	NR	990	0	NR
475	115	NR	605	968	NR	735	42	NR	865	1	NR	995	0	NR
480	97	NR	610	939	NR	740	37	NR	870	1	NR	1000	0	NR
485	103	NR	615	896	NR	745	32	NR	875	1	NR			

REPORT NUMBER: SP1-2411-284-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.47**

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	119	NR	620	846	NR	750	28	NR	880	1	NR
365	0	NR	495	160	NR	625	793	NR	755	25	NR	885	0	NR
370	0	NR	500	225	NR	630	739	NR	760	22	NR	890	0	NR
375	0	NR	505	308	NR	635	681	NR	765	19	NR	895	0	NR
380	0	NR	510	392	NR	640	623	NR	770	16	NR	900	0	NR
385	0	NR	515	474	NR	645	563	NR	775	14	NR	905	0	NR
390	0	NR	520	545	NR	650	506	NR	780	12	NR	910	0	NR
395	1	NR	525	603	NR	655	451	NR	785	10	NR	915	0	NR
400	3	NR	530	649	NR	660	399	NR	790	9	NR	920	0	NR
405	5	NR	535	687	NR	665	352	NR	795	8	NR	925	0	NR
410	11	NR	540	721	NR	670	307	NR	800	6	NR	930	0	NR
415	21	NR	545	751	NR	675	268	NR	805	6	NR	935	0	NR
420	43	NR	550	779	NR	680	234	NR	810	5	NR	940	0	NR
425	88	NR	555	811	NR	685	203	NR	815	4	NR	945	0	NR
430	163	NR	560	843	NR	690	176	NR	820	4	NR	950	0	NR
435	288	NR	565	873	NR	695	152	NR	825	3	NR	955	0	NR
440	416	NR	570	907	NR	700	131	NR	830	3	NR	960	0	NR
445	566	NR	575	938	NR	705	112	NR	835	3	NR	965	0	NR
450	810	NR	580	965	NR	710	96	NR	840	2	NR	970	0	NR
455	669	NR	585	986	NR	715	81	NR	845	2	NR	975	0	NR
460	338	NR	590	997	NR	720	69	NR	850	2	NR	980	0	NR
465	246	NR	595	997	NR	725	58	NR	855	1	NR	985	0	NR
470	182	NR	600	991	NR	730	49	NR	860	1	NR	990	0	NR
475	115	NR	605	968	NR	735	42	NR	865	1	NR	995	0	NR
480	97	NR	610	939	NR	740	37	NR	870	1	NR	1000	0	NR
485	103	NR	615	896	NR	745	32	NR	875	1	NR			

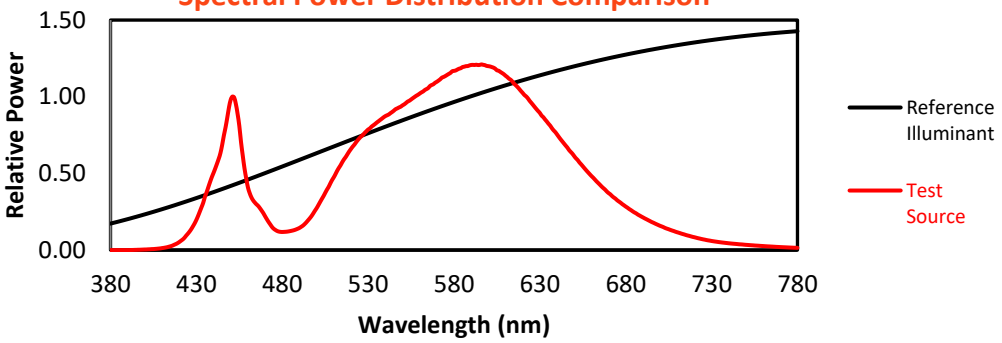
REPORT NUMBER: SP1-2411-284-1

TM-30-18

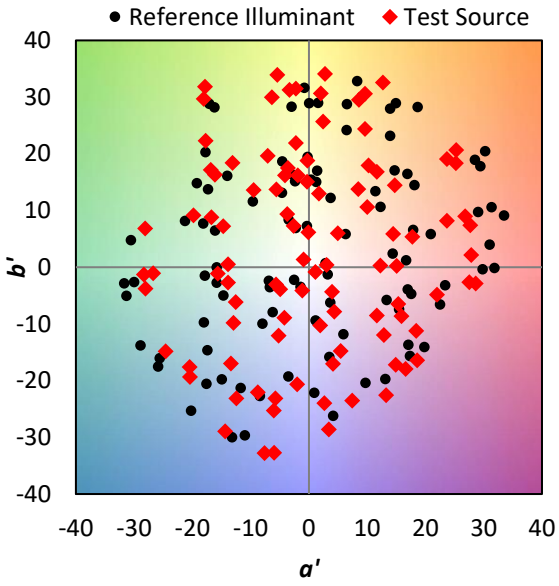
Summary

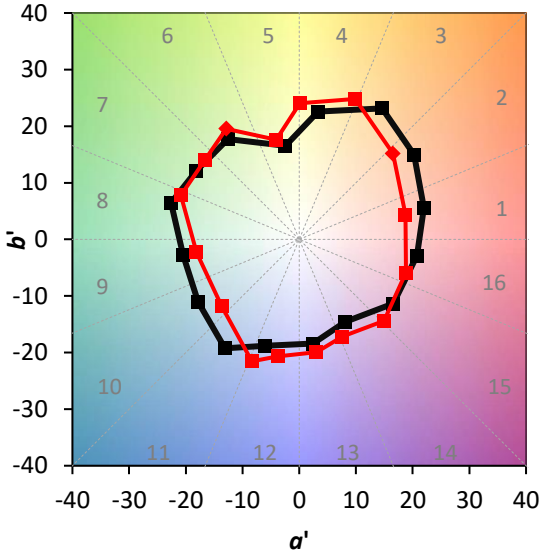
R_f = 76.6
R_g = 95.4
CIE R_a = 73.9
R_9 = -18.0

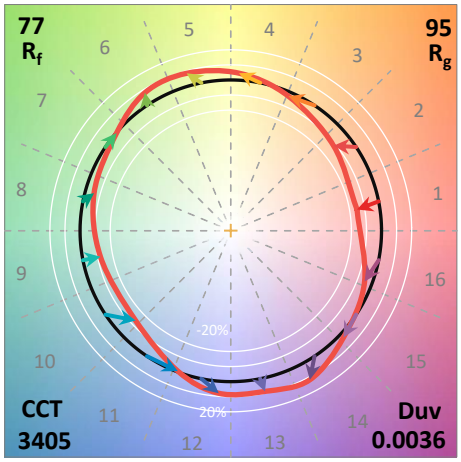
Spectral Power Distribution Comparison

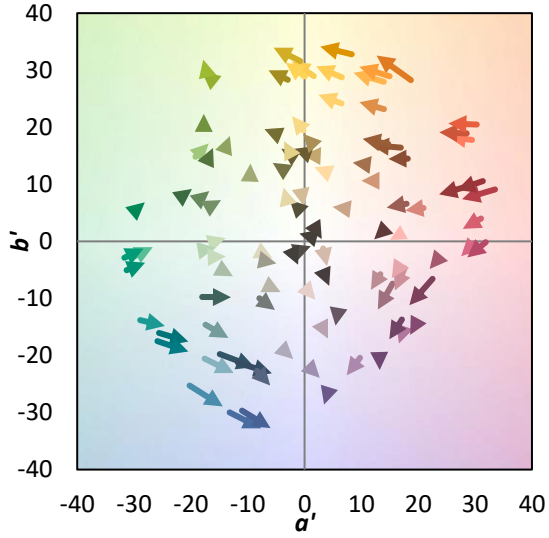


Color Vector Graphics







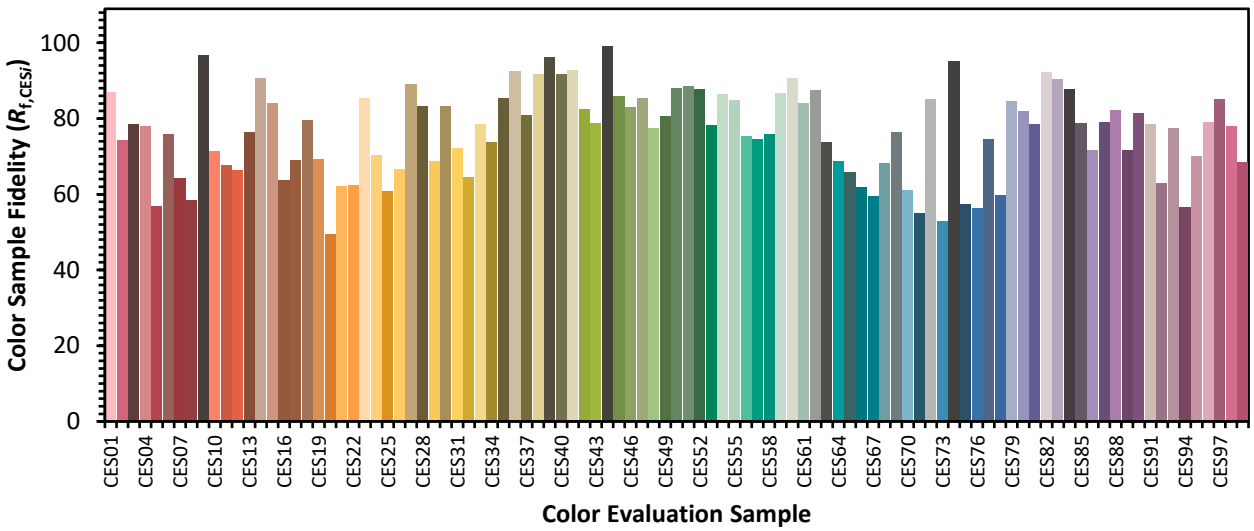


REPORT NUMBER: SP1-2411-284-1

TM-30-18

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

CES01 = 86	CES26 = 67	CES51 = 88	CES76 = 56
CES02 = 62	CES27 = 89	CES52 = 88	CES77 = 75
CES03 = 31	CES28 = 83	CES53 = 78	CES78 = 60
CES04 = 70	CES29 = 69	CES54 = 86	CES79 = 85
CES05 = 48	CES30 = 83	CES55 = 85	CES80 = 82
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 78
CES07 = 41	CES32 = 65	CES57 = 75	CES82 = 92
CES08 = 40	CES33 = 78	CES58 = 76	CES83 = 90
CES09 = 29	CES34 = 74	CES59 = 87	CES84 = 88
CES10 = 75	CES35 = 86	CES60 = 91	CES85 = 79
CES11 = 58	CES36 = 93	CES61 = 84	CES86 = 72
CES12 = 64	CES37 = 81	CES62 = 88	CES87 = 79
CES13 = 43	CES38 = 92	CES63 = 74	CES88 = 82
CES14 = 74	CES39 = 96	CES64 = 69	CES89 = 72
CES15 = 71	CES40 = 92	CES65 = 66	CES90 = 82
CES16 = 47	CES41 = 93	CES66 = 62	CES91 = 79
CES17 = 50	CES42 = 83	CES67 = 60	CES92 = 63
CES18 = 56	CES43 = 79	CES68 = 68	CES93 = 77
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 56
CES20 = 65	CES45 = 86	CES70 = 61	CES95 = 70
CES21 = 86	CES46 = 83	CES71 = 55	CES96 = 79
CES22 = 79	CES47 = 85	CES72 = 85	CES97 = 85
CES23 = 92	CES48 = 78	CES73 = 53	CES98 = 78
CES24 = 91	CES49 = 81	CES74 = 95	CES99 = 68
CES25 = 72	CES50 = 88	CES75 = 57	



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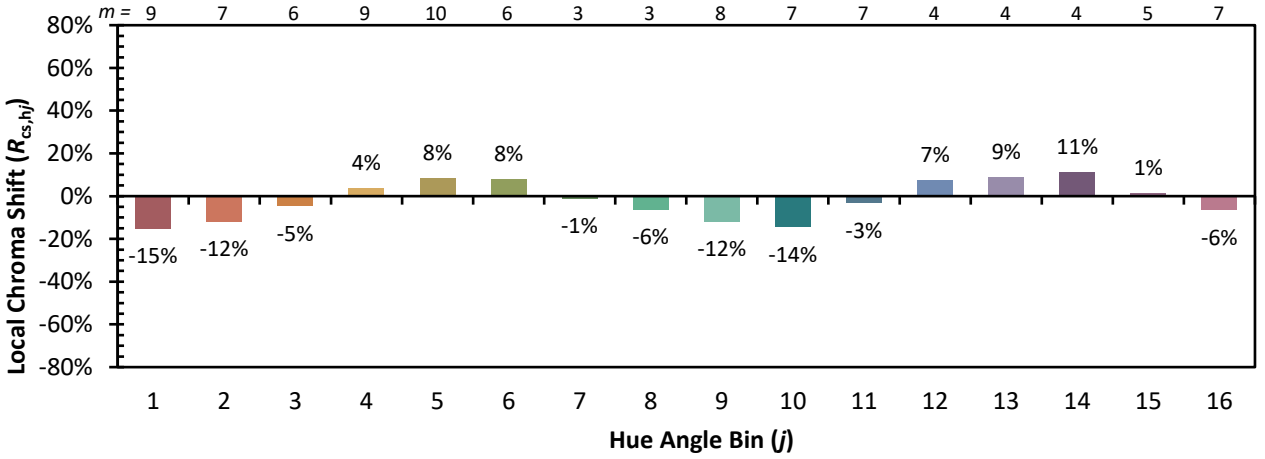
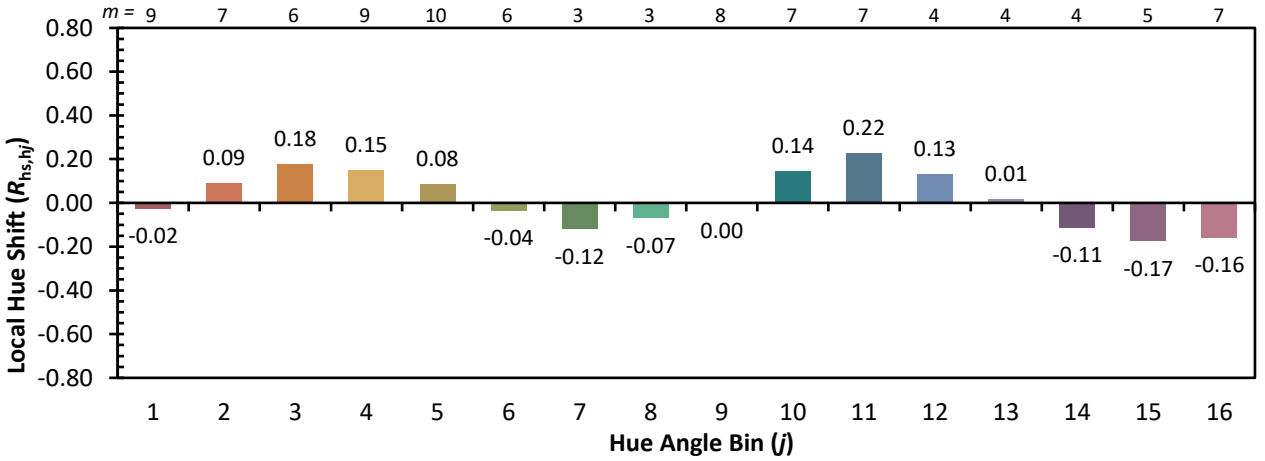
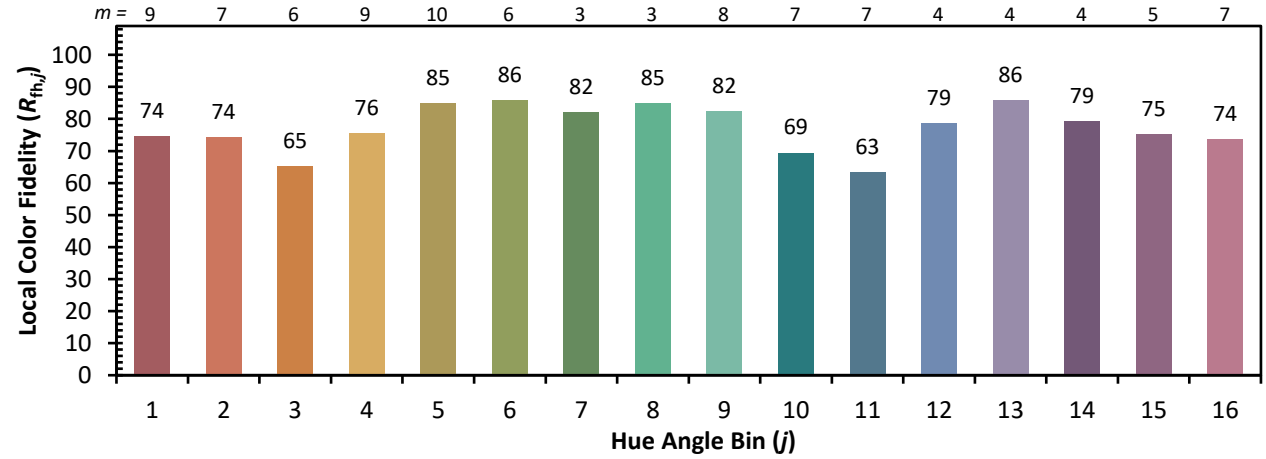
Color Rendition by Hue-Angle Bin







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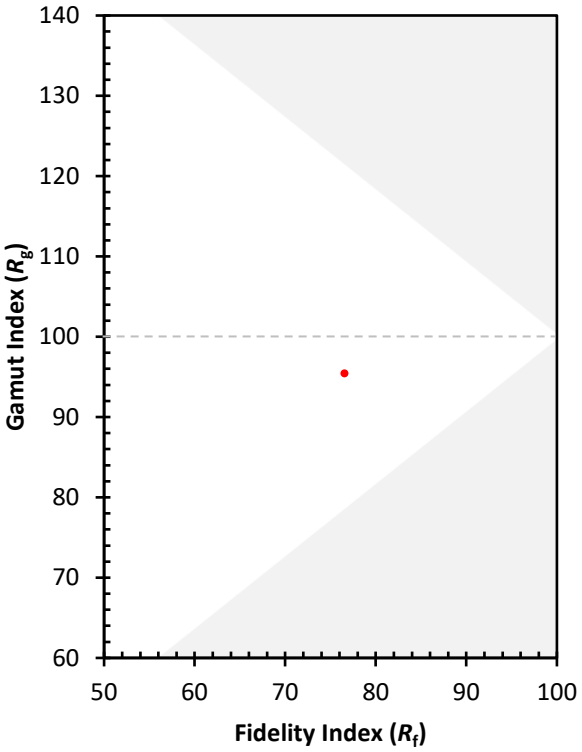
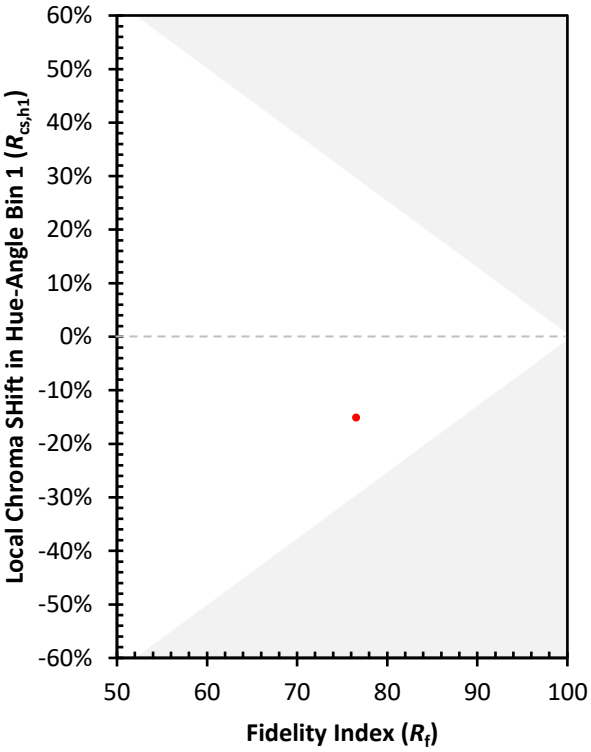
Measure Comparisons





(END OF REPORT)