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: P436906

Luminaire Tested: **TT-D6-750-U-RW-HSS**

Issue Date: 12/2/2020

Report Generated By 670347003

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P436906
	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-D6-750-U-RW-HSS
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE
	5000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7911.1 lumens
Efficiency:	N/A
Efficacy:	75.2 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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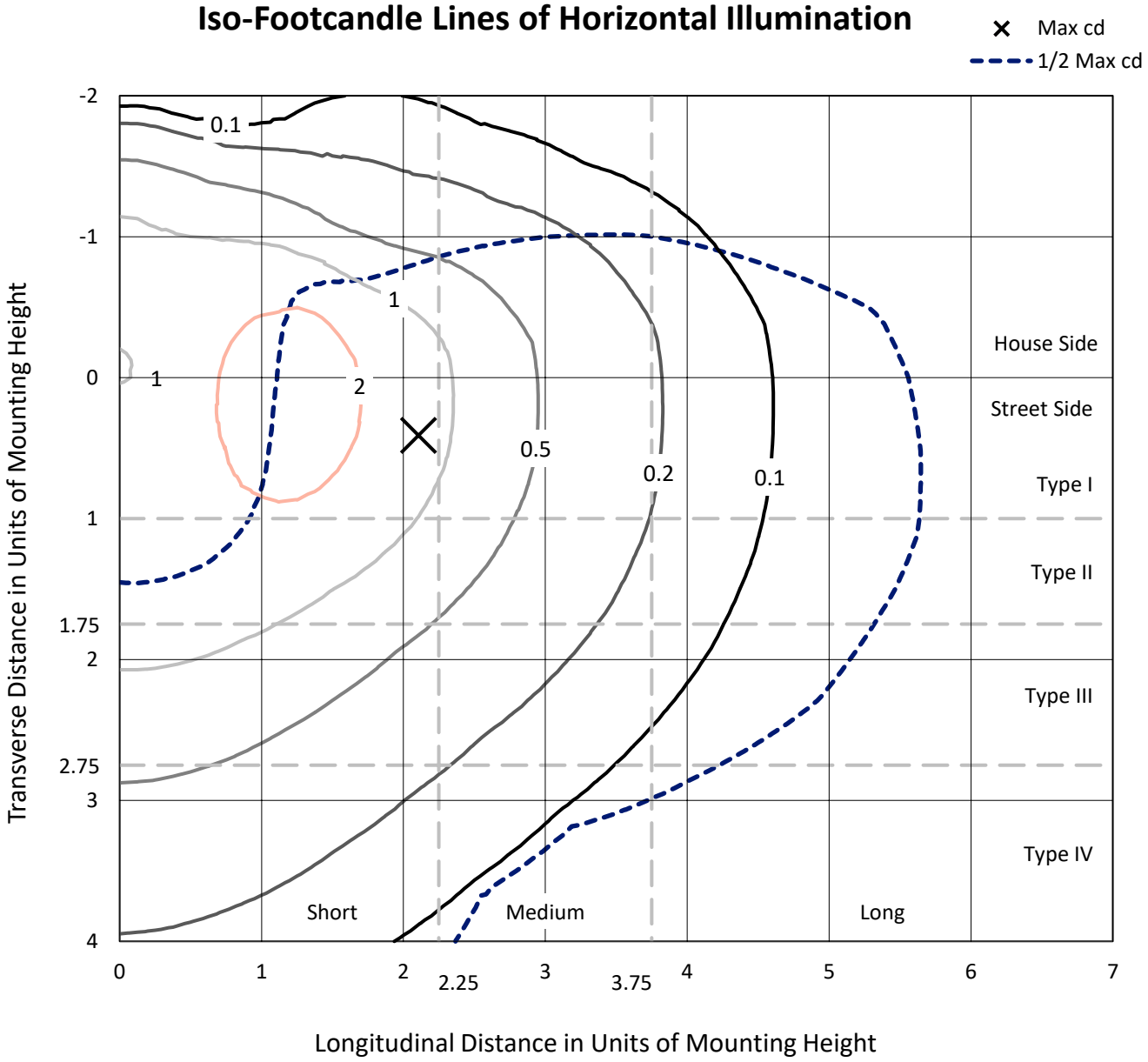
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
Type IV - Short - N/A

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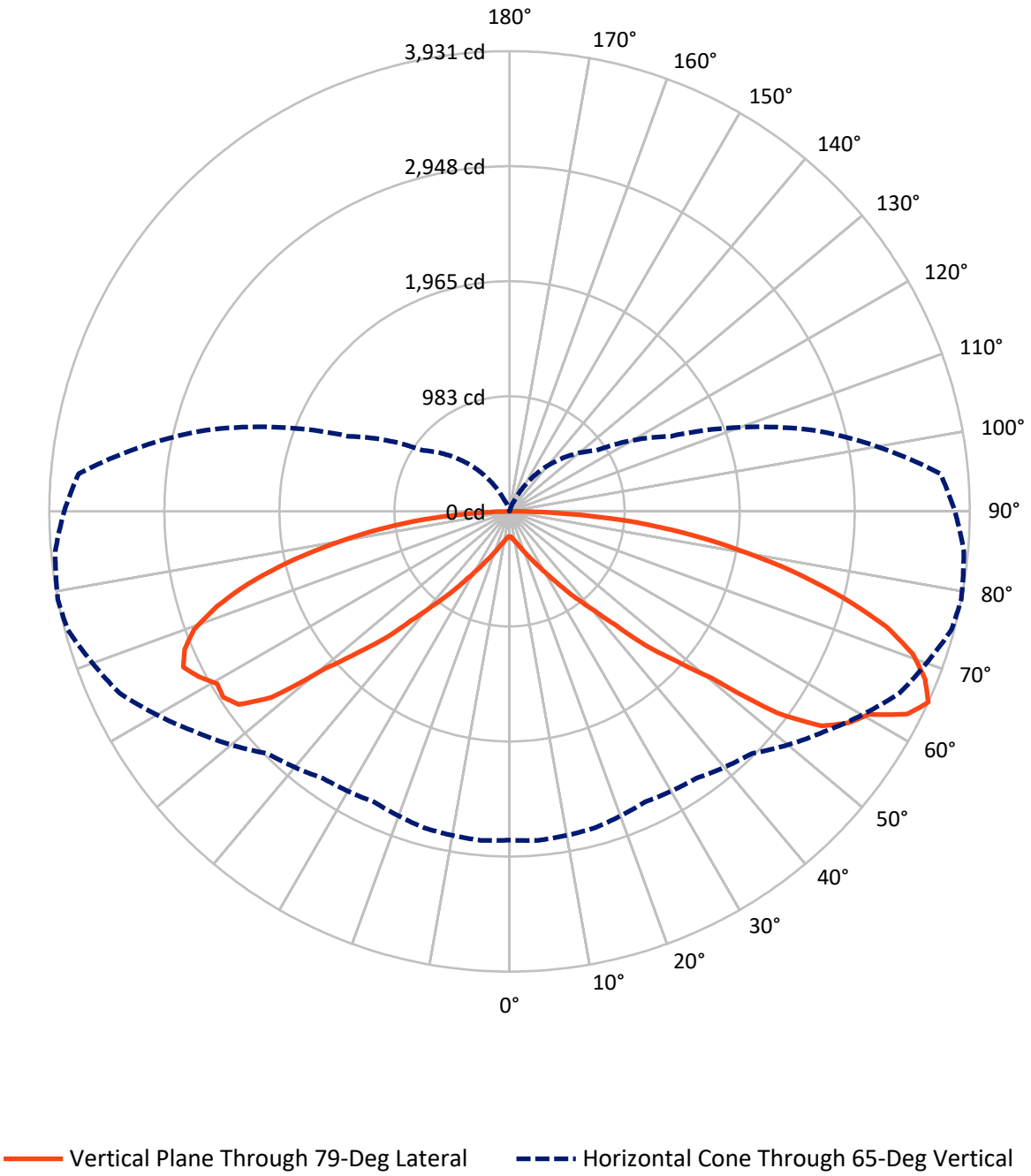
Luminous Intensity Polar Plot



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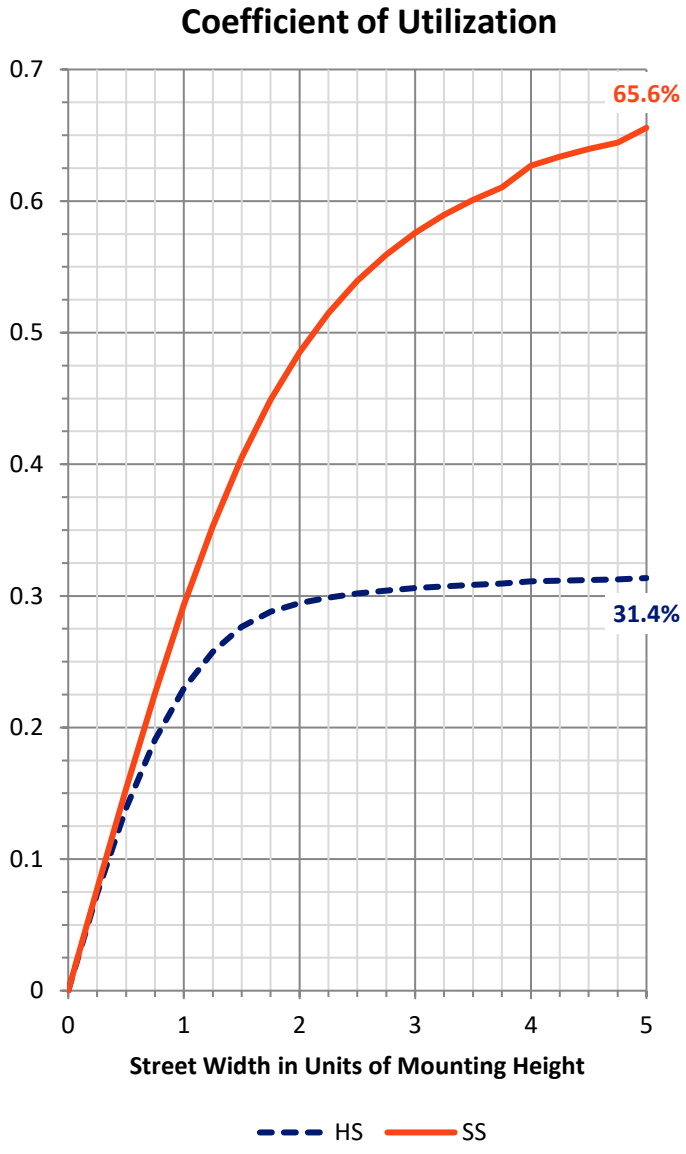
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2498.2	3.2	2501.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	5374.8	34.9	5409.7
	% Fixture	67.9	0.4	68.4
Total	Lumens	7872.9	38.1	7911.1
	% Fixture	99.5	0.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.5	0.3
10°-20°	85.2	1.1
20°-30°	196.5	2.5
30°-40°	421.1	5.3
40°-50°	902.0	11.4
50°-60°	1703.4	21.5
60°-70°	2116.9	26.8
70°-80°	1812.3	22.9
80°-90°	613.0	7.7
90°-100°	26.5	0.3
100°-110°	7.6	0.1
110°-120°	1.7	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°	7872.9	99.5
0°-180°	7911.1	100.0



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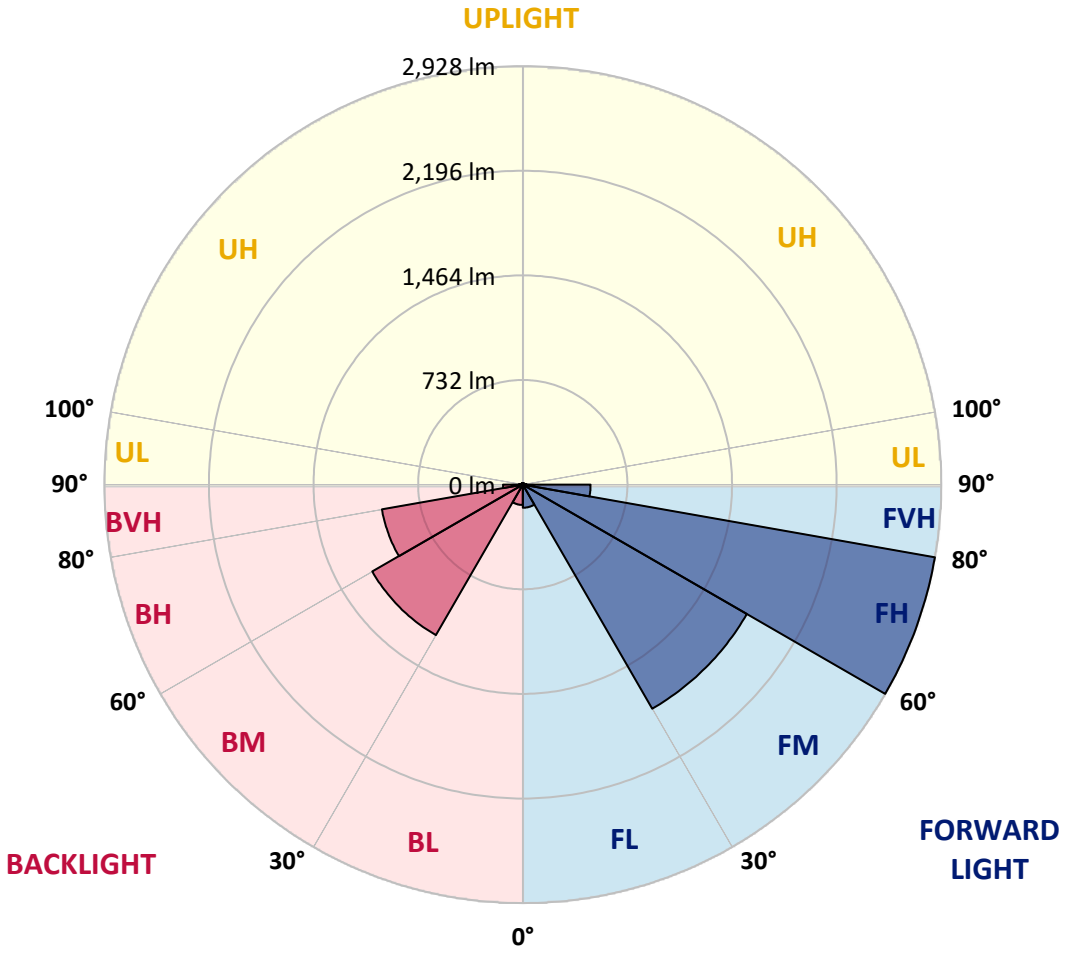
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	161.8	2.0			
FM	(30°-60°)	1810.4	22.9			
FH	(60°-80°)	2928.3	37.0			G2/5000
FVH	(80°-90°)	474.3	6.0			G3/500
BL	(0°-30°)	142.5	1.8	B1/500		
BM	(30°-60°)	1216.0	15.4	B2/2500		
BH	(60°-80°)	1000.9	12.7	B3/2500		G3/2500
BVH	(80°-90°)	138.8	1.8			G2/225
UL	(90°-100°)	26.5	0.3		U2/50	
UH	(100°-180°)	11.6	0.1		U2/50	

BUG Rating: B3-U2-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	214.9	214.9	214.9	214.9	214.9	214.9	214.9	214.9	214.9	214.9	214.9
2.5°	226.7	226.7	226.7	224.7	224.7	224.7	222.8	220.8	218.8	218.8	218.8
5°	238.5	238.5	238.5	238.5	236.6	234.6	232.6	230.6	228.7	228.7	226.7
7.5°	254.3	252.3	254.3	252.3	252.3	250.4	248.4	246.4	242.5	242.5	240.5
10°	270.1	270.1	270.1	270.1	270.1	268.1	266.1	264.2	262.2	260.2	258.2
12.5°	289.8	289.8	289.8	287.8	289.8	287.8	285.8	285.8	283.9	279.9	279.9
15°	309.5	309.5	309.5	309.5	311.5	311.5	311.5	309.5	309.5	307.5	305.5
17.5°	333.1	331.2	333.1	333.1	335.1	337.1	339.1	341.0	341.0	339.1	339.1
20°	358.8	356.8	358.8	358.8	362.7	366.7	372.6	376.5	378.5	374.5	374.5
22.5°	386.4	384.4	388.3	388.3	394.3	400.2	410.0	414.0	419.9	417.9	417.9
25°	419.9	417.9	419.9	421.9	429.7	439.6	451.4	461.3	467.2	467.2	469.2
27.5°	457.3	457.3	459.3	461.3	469.2	484.9	502.7	520.4	534.2	532.2	534.2
30°	508.6	508.6	512.5	514.5	524.4	542.1	565.8	589.4	609.1	609.1	613.1
32.5°	565.8	563.8	569.7	571.7	581.5	605.2	638.7	676.1	701.8	701.8	705.7
35°	634.8	632.8	638.7	638.7	650.5	684.0	727.4	778.7	822.0	824.0	829.9
37.5°	721.5	717.5	717.5	723.5	737.3	780.6	839.8	910.7	956.1	960.0	969.9
40°	824.0	822.0	826.0	824.0	841.7	895.0	969.9	1052.7	1105.9	1115.7	1127.6
42.5°	950.2	954.1	948.2	948.2	969.9	1031.0	1119.7	1216.3	1312.9	1324.7	1330.6
45°	1103.9	1111.8	1103.9	1101.9	1121.7	1192.6	1314.8	1484.4	1596.7	1636.2	1648.0
47.5°	1289.2	1293.2	1283.3	1279.4	1301.0	1391.7	1549.4	1738.7	1870.7	1900.3	1931.8
50°	1496.2	1490.3	1482.4	1476.5	1517.9	1630.2	1813.6	2008.7	2235.4	2239.4	2251.2
52.5°	1709.1	1691.4	1693.3	1691.4	1748.5	1870.7	2115.2	2446.4	2791.3	2862.3	2870.2
55°	1922.0	1900.3	1898.3	1918.0	1998.9	2174.3	2481.8	2911.6	3191.5	3234.9	3228.9
57.5°	2134.9	2125.0	2121.1	2138.8	2257.1	2466.1	2813.0	3175.7	3414.2	3410.3	3368.9
60°	2355.7	2363.6	2349.8	2383.3	2505.5	2714.4	2966.8	3319.6	3540.4	3522.7	3481.3
62.5°	2582.4	2602.1	2588.3	2592.2	2671.1	2824.8	3073.2	3483.2	3788.8	3814.4	3767.1
65°	2807.1	2820.9	2799.2	2738.1	2781.5	2925.4	3280.2	3674.5	3907.1	3930.7	3895.2
67.5°	2996.3	3010.1	2935.2	2838.6	2844.5	2949.0	3260.5	3637.0	3844.0	3828.2	3771.0
70°	3158.0	3132.4	3010.1	2844.5	2775.6	2824.8	3118.6	3451.7	3662.6	3654.7	3587.7
72.5°	3211.2	3177.7	2970.7	2714.4	2578.4	2596.2	2882.0	3179.7	3351.2	3365.0	3284.1
75°	3126.4	3069.3	2785.4	2464.1	2288.6	2300.5	2544.9	2818.9	2956.9	2941.1	2878.1
77.5°	2820.9	2763.7	2456.2	2113.2	1941.7	1959.4	2152.6	2367.5	2481.8	2475.9	2432.6
80°	2341.9	2290.6	2020.6	1701.2	1545.5	1555.3	1703.2	1872.7	1961.4	1981.1	1957.5
82.5°	1730.8	1695.3	1504.1	1245.8	1119.7	1117.7	1230.1	1360.2	1446.9	1488.3	1472.5
85°	1070.4	1052.7	946.2	778.7	689.9	688.0	755.0	851.6	930.4	985.6	950.2
87.5°	425.8	419.9	388.3	313.4	274.0	260.2	244.4	305.5	311.5	368.6	366.7
90°	104.5	102.5	100.5	94.6	84.8	72.9	59.1	43.4	27.6	21.7	11.8
92.5°	92.6	92.6	90.7	84.8	76.9	65.1	53.2	39.4	25.6	19.7	9.9
95°	74.9	74.9	72.9	69.0	61.1	53.2	41.4	31.5	19.7	15.8	7.9
97.5°	57.2	55.2	55.2	51.3	47.3	39.4	31.5	23.7	15.8	11.8	5.9
100°	41.4	41.4	39.4	37.5	33.5	29.6	23.7	17.7	9.9	7.9	3.9
102.5°	29.6	27.6	27.6	27.6	23.7	19.7	15.8	11.8	7.9	5.9	2.0
105°	19.7	17.7	17.7	17.7	15.8	13.8	9.9	7.9	3.9	3.9	2.0
107.5°	11.8	11.8	11.8	11.8	9.9	7.9	5.9	3.9	2.0	2.0	2.0
110°	5.9	5.9	5.9	7.9	5.9	5.9	3.9	2.0	2.0	2.0	2.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
112.5°	3.9	3.9	3.9	3.9	3.9	3.9	2.0	2.0	2.0	*2.0*	2.0
115°	2.0	2.0	2.0	3.9	3.9	2.0	2.0	0.0	0.0	*2.0*	2.0
117.5°	0.0	0.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	*0.0*	2.0
120°	0.0	0.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	*0.0*	2.0
122.5°	0.0	0.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	*0.0*	2.0
125°	0.0	0.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	*0.0*	2.0
127.5°	0.0	0.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	*0.0*	2.0
130°	0.0	0.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	*0.0*	2.0
132.5°	0.0	0.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	*0.0*	2.0
135°	0.0	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	*0.0*	0.0
137.5°	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	*0.0*	0.0
140°	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	*0.0*	0.0
142.5°	0.0	0.0	0.0	0.0	2.0	2.0	0.0	0.0	0.0	*0.0*	0.0
145°	0.0	0.0	0.0	2.0	2.0	2.0	2.0	0.0	0.0	*0.0*	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	*0.0*	0.0
150°	0.0	0.0	0.0	0.0	2.0	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	2.0	0.0	0.0	0.0	0.0	*0.0*	0.0
160°	0.0	0.0	0.0	0.0	2.0	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	2.0	0.0	2.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	214.9	214.9	214.9	214.9	214.9	214.9	214.9	214.9	214.9	214.9	214.9
2.5°	216.8	216.8	216.8	214.9	214.9	214.9	212.9	212.9	210.9	210.9	210.9
5°	224.7	224.7	222.8	222.8	220.8	218.8	218.8	216.8	216.8	214.9	214.9
7.5°	238.5	238.5	236.6	234.6	230.6	228.7	226.7	224.7	224.7	222.8	222.8
10°	256.3	256.3	252.3	248.4	244.4	240.5	238.5	234.6	232.6	232.6	232.6
12.5°	277.9	276.0	272.0	266.1	262.2	256.3	252.3	248.4	244.4	244.4	244.4
15°	303.6	303.6	295.7	289.8	281.9	274.0	268.1	262.2	258.2	256.3	256.3
17.5°	335.1	335.1	325.3	315.4	305.5	295.7	287.8	279.9	276.0	274.0	274.0
20°	370.6	370.6	360.7	348.9	335.1	321.3	309.5	299.6	293.7	291.7	291.7
22.5°	414.0	414.0	400.2	384.4	366.7	346.9	331.2	319.3	313.4	309.5	309.5
25°	463.2	459.3	445.5	425.8	400.2	376.5	354.8	343.0	335.1	329.2	331.2
27.5°	530.3	524.4	506.6	473.1	441.6	410.0	384.4	368.6	358.8	354.8	356.8
30°	607.2	601.2	575.6	538.2	490.8	449.5	417.9	400.2	390.3	384.4	386.4
32.5°	699.8	691.9	660.4	609.1	553.9	494.8	455.4	433.7	423.8	417.9	415.9
35°	822.0	812.2	772.7	701.8	624.9	553.9	498.7	471.1	461.3	455.4	457.3
37.5°	960.0	946.2	893.0	806.3	709.7	619.0	555.9	520.4	508.6	498.7	498.7
40°	1117.7	1101.9	1032.9	918.6	802.3	689.9	609.1	569.7	555.9	555.9	555.9
42.5°	1314.8	1299.1	1220.2	1052.7	898.9	766.8	670.2	624.9	611.1	615.0	615.0
45°	1620.4	1598.7	1472.5	1251.8	1025.1	845.7	733.3	682.1	672.2	682.1	682.1
47.5°	1900.3	1872.7	1687.4	1437.1	1149.3	924.5	796.4	737.3	733.3	755.0	755.0
50°	2213.7	2178.3	1983.1	1586.9	1249.8	1011.3	853.6	782.6	784.6	816.1	826.0
52.5°	2820.9	2783.4	2446.4	1858.9	1358.2	1042.8	877.2	792.5	792.5	827.9	841.7
55°	3181.6	3104.8	2665.2	2036.3	1403.5	1080.3	867.4	753.0	749.1	788.5	800.3
57.5°	3299.9	3221.1	2710.5	1985.1	1374.0	1032.9	810.2	646.6	638.7	689.9	686.0
60°	3396.5	3292.0	2637.6	1813.6	1206.4	932.4	699.8	481.0	447.5	492.8	490.8
62.5°	3668.5	3556.2	2641.5	1612.5	1009.3	778.7	526.3	270.1	201.1	236.6	220.8
65°	*3804.6*	*3694.2*	*2682.9*	*1517.9*	*908.8*	*644.6*	*376.5*	*110.4*	*7.9*	*7.9*	*3.9*
67.5°	3688.3	3589.7	2629.7	1494.2	895.0	640.7	382.4	108.4	0.0	0.0	0.0
70°	3518.7	3424.1	2507.5	1411.4	849.6	617.0	374.5	108.4	0.0	0.0	0.0
72.5°	3221.1	3124.5	2296.5	1293.2	780.6	565.8	346.9	102.5	0.0	0.0	0.0
75°	2828.8	2755.8	2028.4	1139.4	688.0	498.7	307.5	90.7	0.0	0.0	0.0
77.5°	2395.1	2308.4	1701.2	948.2	575.6	414.0	260.2	74.9	0.0	0.0	0.0
80°	1922.0	1858.9	1340.5	743.2	445.5	323.3	203.0	57.2	0.0	0.0	0.0
82.5°	1429.2	1375.9	991.6	532.2	317.4	224.7	140.0	37.5	0.0	0.0	0.0
85°	938.3	924.5	636.7	323.3	189.2	124.2	74.9	17.7	0.0	0.0	0.0
87.5°	339.1	350.9	232.6	92.6	51.3	21.7	9.9	2.0	0.0	0.0	0.0
90°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
95°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
97.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
100°	2.0	2.0	2.0	2.0	2.0	2.0	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	2.0	0.0	0.0	0.0	0.0	0.0
107.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
110°	2.0	2.0	2.0	2.0	2.0	2.0	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: P436906
CATALOG NUMBER: TT-D6-750-U-RW-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	2.0	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	2.0	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	2.0	0.0	0.0	0.0	0.0	0.0
127.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
130°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
132.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
135°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	2.0	2.0	2.0	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: SP1-2407-176-6

Test Date: 09/26/2024

Luminaire Tested: MEM2-HTN-VA-30-750-U-WQ

Data in this report applies to families of products including MEM2-HTN-VA-30-750-U-WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

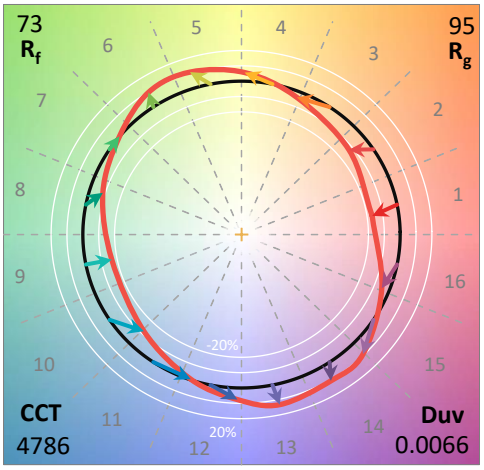
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-176-6
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-30-750-U-WQ**
Description:	EPIC MODERN VISUAL COMFORT 30W WAVESTREAM WIDE

Spectral Parameters

CCT (K):	4786
CIE u':	0.2093
CIE v':	0.4953
Duv:	0.0066
CIE x:	0.3533
CIE y:	0.3716
CIE z:	0.2751
Peak Wavelength (nm):	449
Dominant Wavelength (nm):	570
Purity:	17.53512
Rf:	73
Rg:	94.6

CRI (Ra):	70.9				
R1:	67.8	R9:	-29.8		
R2:	75.1	R10:	40.9		
R3:	80.6	R11:	67.4		
R4:	71.6	R12:	35.3		
R5:	67.8	R13:	68.5		
R6:	65.4	R14:	89.0		
R7:	82.0	R15:	60.9		
R8:	57.0				



Test Conditions

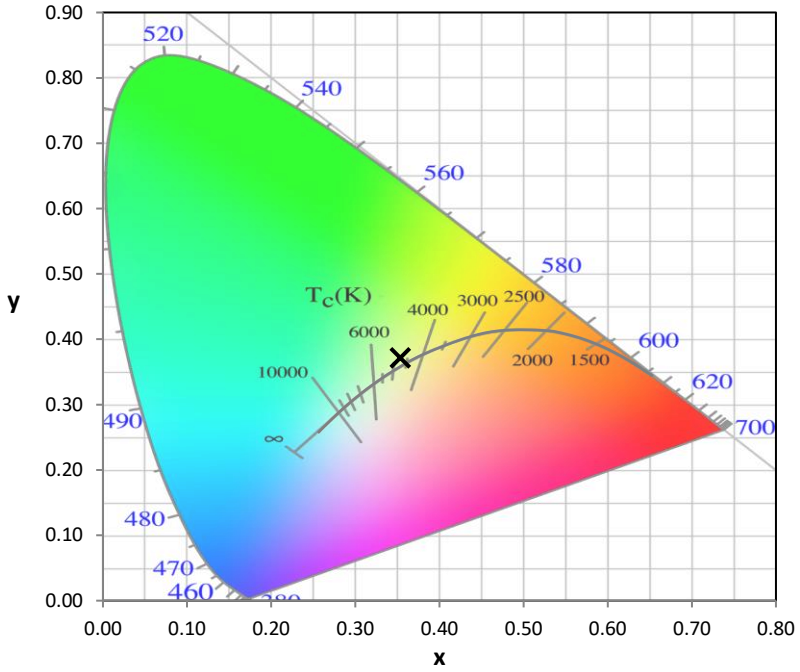
Stabilization Time:	45M
Operation Time:	1H 45M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-6

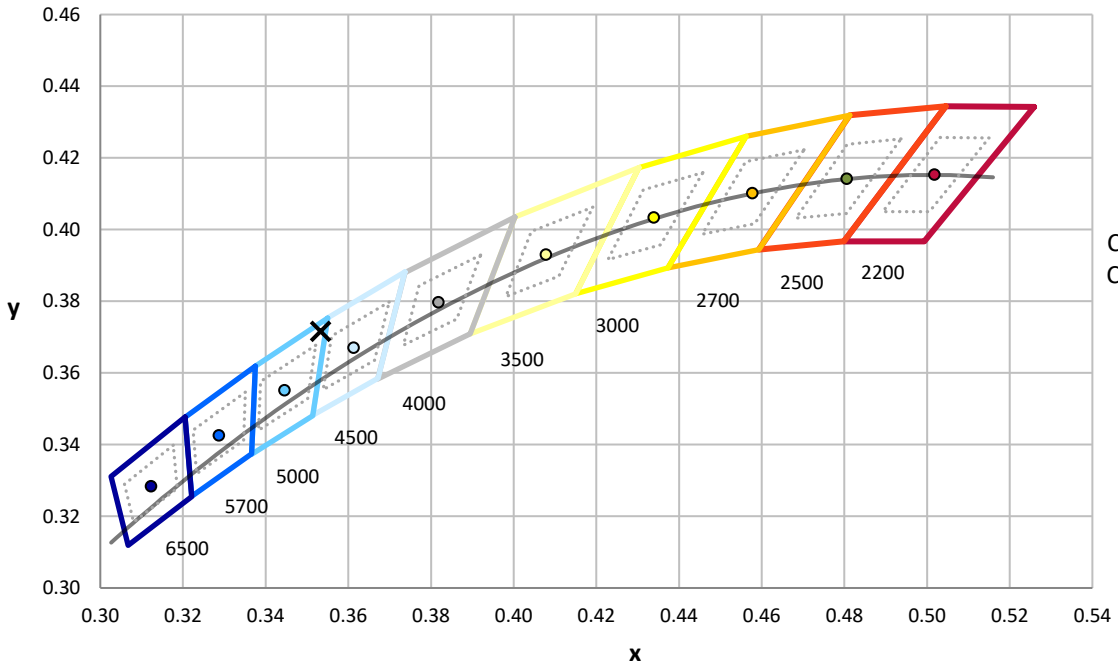
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-176-6

CIE 1931 Chromaticity Diagram



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

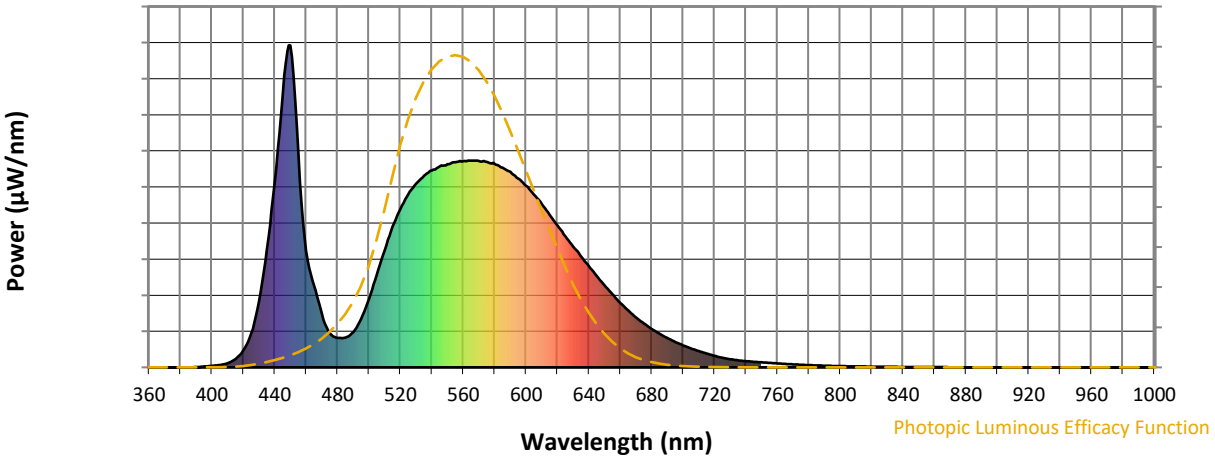


CCT = 4786K
CIE x = 0.3533
CIE y = 0.3716
Duv = 0.0066

Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-176-6

Photopic Flux vs. Wavelength

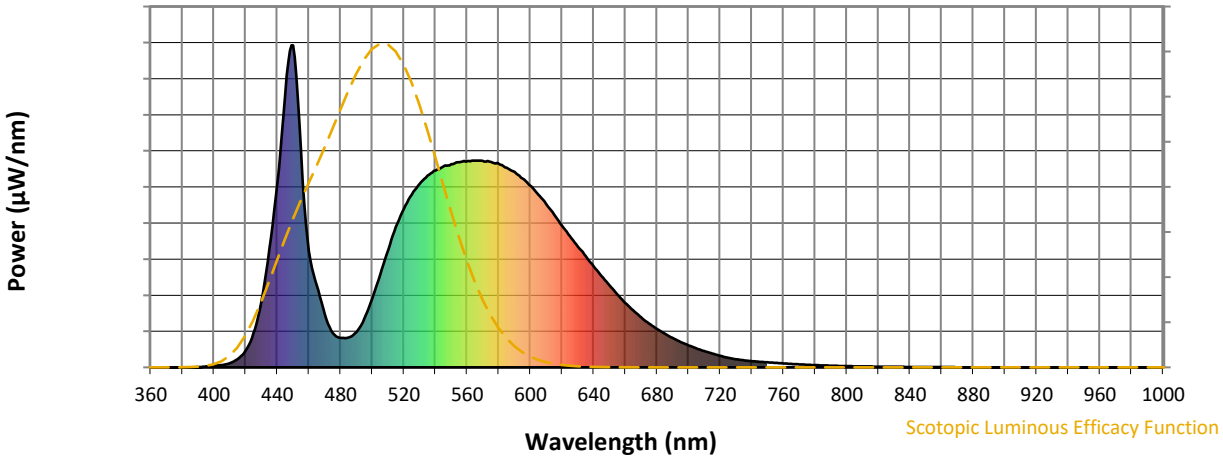


Photopic Lumens: NR

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	110	NR	620	440	NR	750	16	NR	880	0	NR
365	0	NR	495	150	NR	625	407	NR	755	14	NR	885	0	NR
370	0	NR	500	213	NR	630	375	NR	760	12	NR	890	0	NR
375	0	NR	505	288	NR	635	345	NR	765	11	NR	895	0	NR
380	0	NR	510	364	NR	640	314	NR	770	9	NR	900	0	NR
385	0	NR	515	436	NR	645	283	NR	775	8	NR	905	0	NR
390	1	NR	520	492	NR	650	254	NR	780	7	NR	910	0	NR
395	3	NR	525	537	NR	655	227	NR	785	6	NR	915	0	NR
400	5	NR	530	570	NR	660	200	NR	790	5	NR	920	0	NR
405	7	NR	535	595	NR	665	177	NR	795	4	NR	925	0	NR
410	13	NR	540	611	NR	670	155	NR	800	4	NR	930	0	NR
415	25	NR	545	624	NR	675	136	NR	805	3	NR	935	0	NR
420	52	NR	550	631	NR	680	119	NR	810	3	NR	940	0	NR
425	106	NR	555	637	NR	685	104	NR	815	3	NR	945	0	NR
430	204	NR	560	640	NR	690	91	NR	820	2	NR	950	0	NR
435	369	NR	565	642	NR	695	79	NR	825	2	NR	955	0	NR
440	573	NR	570	641	NR	700	68	NR	830	2	NR	960	0	NR
445	844	NR	575	638	NR	705	59	NR	835	2	NR	965	0	NR
450	999	NR	580	632	NR	710	50	NR	840	1	NR	970	0	NR
455	668	NR	585	620	NR	715	43	NR	845	1	NR	975	0	NR
460	361	NR	590	607	NR	720	36	NR	850	1	NR	980	0	NR
465	255	NR	595	586	NR	725	30	NR	855	1	NR	985	0	NR
470	165	NR	600	564	NR	730	25	NR	860	1	NR	990	0	NR
475	106	NR	605	537	NR	735	22	NR	865	1	NR	995	0	NR
480	91	NR	610	507	NR	740	19	NR	870	0	NR	1000	0	NR
485	93	NR	615	474	NR	745	17	NR	875	0	NR			

REPORT NUMBER: SP1-2407-176-6

Scotopic Flux vs. Wavelength

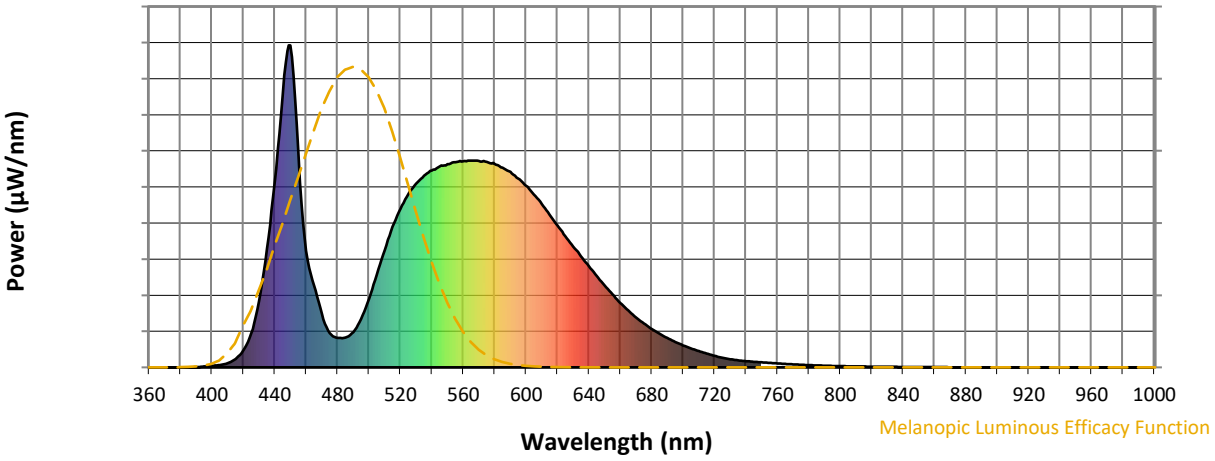


Scotopic Lumens: NR **S/P: 1.69**

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	110	NR	620	440	NR	750	16	NR	880	0	NR
365	0	NR	495	150	NR	625	407	NR	755	14	NR	885	0	NR
370	0	NR	500	213	NR	630	375	NR	760	12	NR	890	0	NR
375	0	NR	505	288	NR	635	345	NR	765	11	NR	895	0	NR
380	0	NR	510	364	NR	640	314	NR	770	9	NR	900	0	NR
385	0	NR	515	436	NR	645	283	NR	775	8	NR	905	0	NR
390	1	NR	520	492	NR	650	254	NR	780	7	NR	910	0	NR
395	3	NR	525	537	NR	655	227	NR	785	6	NR	915	0	NR
400	5	NR	530	570	NR	660	200	NR	790	5	NR	920	0	NR
405	7	NR	535	595	NR	665	177	NR	795	4	NR	925	0	NR
410	13	NR	540	611	NR	670	155	NR	800	4	NR	930	0	NR
415	25	NR	545	624	NR	675	136	NR	805	3	NR	935	0	NR
420	52	NR	550	631	NR	680	119	NR	810	3	NR	940	0	NR
425	106	NR	555	637	NR	685	104	NR	815	3	NR	945	0	NR
430	204	NR	560	640	NR	690	91	NR	820	2	NR	950	0	NR
435	369	NR	565	642	NR	695	79	NR	825	2	NR	955	0	NR
440	573	NR	570	641	NR	700	68	NR	830	2	NR	960	0	NR
445	844	NR	575	638	NR	705	59	NR	835	2	NR	965	0	NR
450	999	NR	580	632	NR	710	50	NR	840	1	NR	970	0	NR
455	668	NR	585	620	NR	715	43	NR	845	1	NR	975	0	NR
460	361	NR	590	607	NR	720	36	NR	850	1	NR	980	0	NR
465	255	NR	595	586	NR	725	30	NR	855	1	NR	985	0	NR
470	165	NR	600	564	NR	730	25	NR	860	1	NR	990	0	NR
475	106	NR	605	537	NR	735	22	NR	865	1	NR	995	0	NR
480	91	NR	610	507	NR	740	19	NR	870	0	NR	1000	0	NR
485	93	NR	615	474	NR	745	17	NR	875	0	NR			

REPORT NUMBER: SP1-2407-176-6

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.36**

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	110	NR	620	440	NR	750	16	NR	880	0	NR
365	0	NR	495	150	NR	625	407	NR	755	14	NR	885	0	NR
370	0	NR	500	213	NR	630	375	NR	760	12	NR	890	0	NR
375	0	NR	505	288	NR	635	345	NR	765	11	NR	895	0	NR
380	0	NR	510	364	NR	640	314	NR	770	9	NR	900	0	NR
385	0	NR	515	436	NR	645	283	NR	775	8	NR	905	0	NR
390	1	NR	520	492	NR	650	254	NR	780	7	NR	910	0	NR
395	3	NR	525	537	NR	655	227	NR	785	6	NR	915	0	NR
400	5	NR	530	570	NR	660	200	NR	790	5	NR	920	0	NR
405	7	NR	535	595	NR	665	177	NR	795	4	NR	925	0	NR
410	13	NR	540	611	NR	670	155	NR	800	4	NR	930	0	NR
415	25	NR	545	624	NR	675	136	NR	805	3	NR	935	0	NR
420	52	NR	550	631	NR	680	119	NR	810	3	NR	940	0	NR
425	106	NR	555	637	NR	685	104	NR	815	3	NR	945	0	NR
430	204	NR	560	640	NR	690	91	NR	820	2	NR	950	0	NR
435	369	NR	565	642	NR	695	79	NR	825	2	NR	955	0	NR
440	573	NR	570	641	NR	700	68	NR	830	2	NR	960	0	NR
445	844	NR	575	638	NR	705	59	NR	835	2	NR	965	0	NR
450	999	NR	580	632	NR	710	50	NR	840	1	NR	970	0	NR
455	668	NR	585	620	NR	715	43	NR	845	1	NR	975	0	NR
460	361	NR	590	607	NR	720	36	NR	850	1	NR	980	0	NR
465	255	NR	595	586	NR	725	30	NR	855	1	NR	985	0	NR
470	165	NR	600	564	NR	730	25	NR	860	1	NR	990	0	NR
475	106	NR	605	537	NR	735	22	NR	865	1	NR	995	0	NR
480	91	NR	610	507	NR	740	19	NR	870	0	NR	1000	0	NR
485	93	NR	615	474	NR	745	17	NR	875	0	NR			

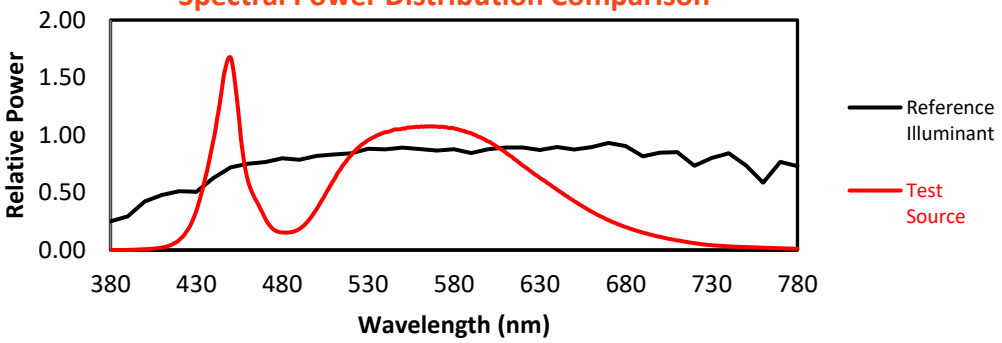
REPORT NUMBER: SP1-2407-176-6

TM-30-18

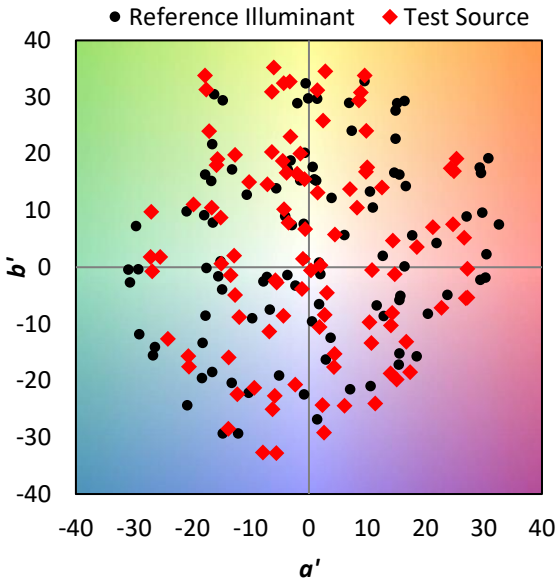
Summary

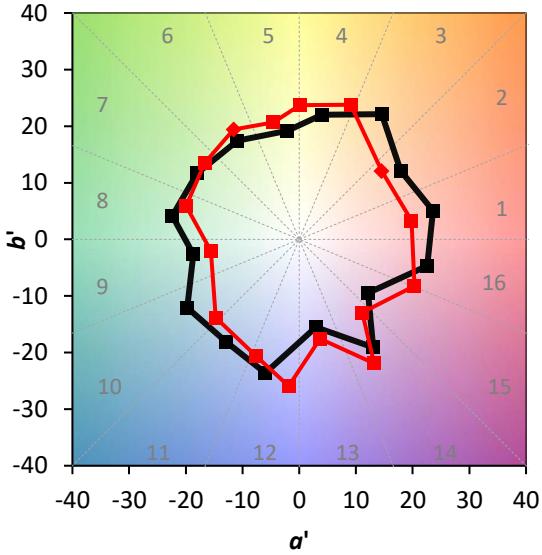
R_f = 73
R_g = 94.6
CIE R_a = 70.9
R_9 = -29.8

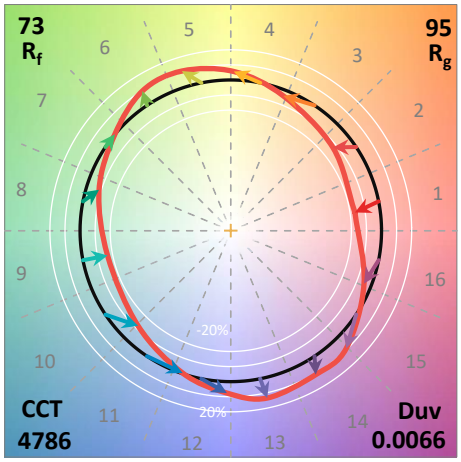
Spectral Power Distribution Comparison

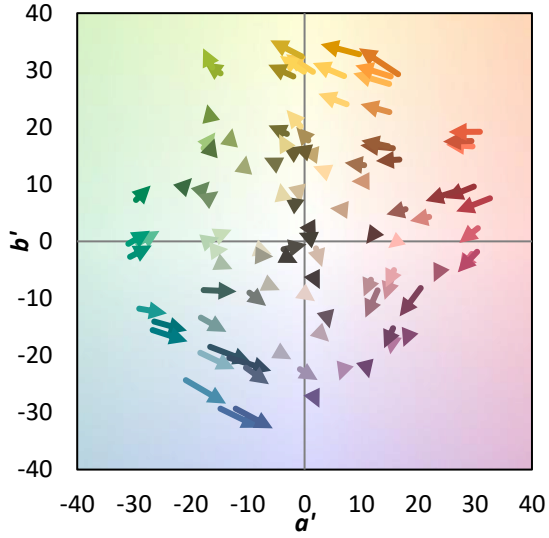


Color Vector Graphics







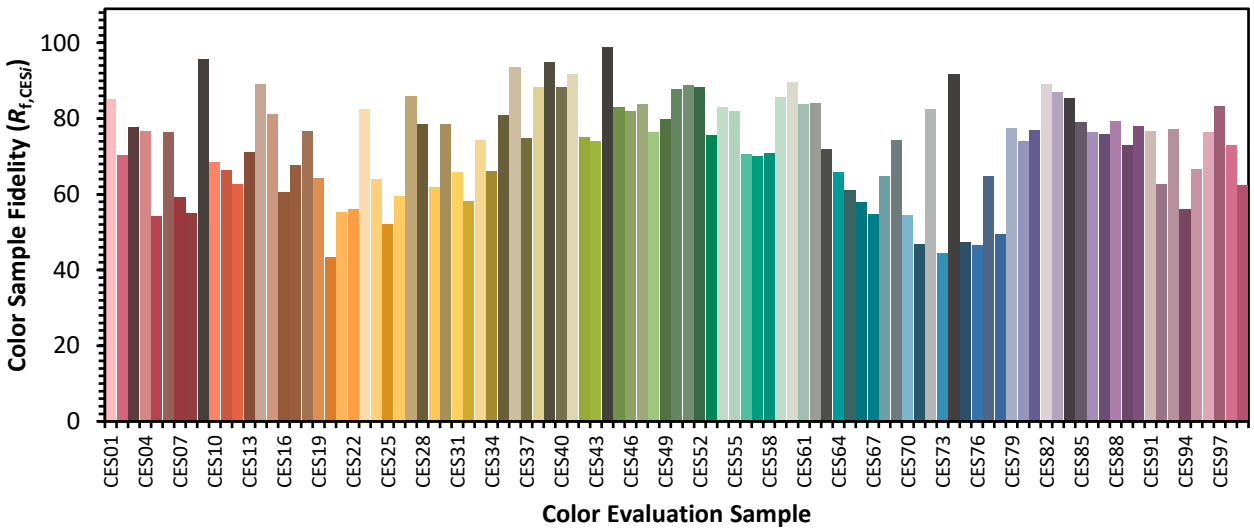


REPORT NUMBER: SP1-2407-176-6

TM-30-18

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

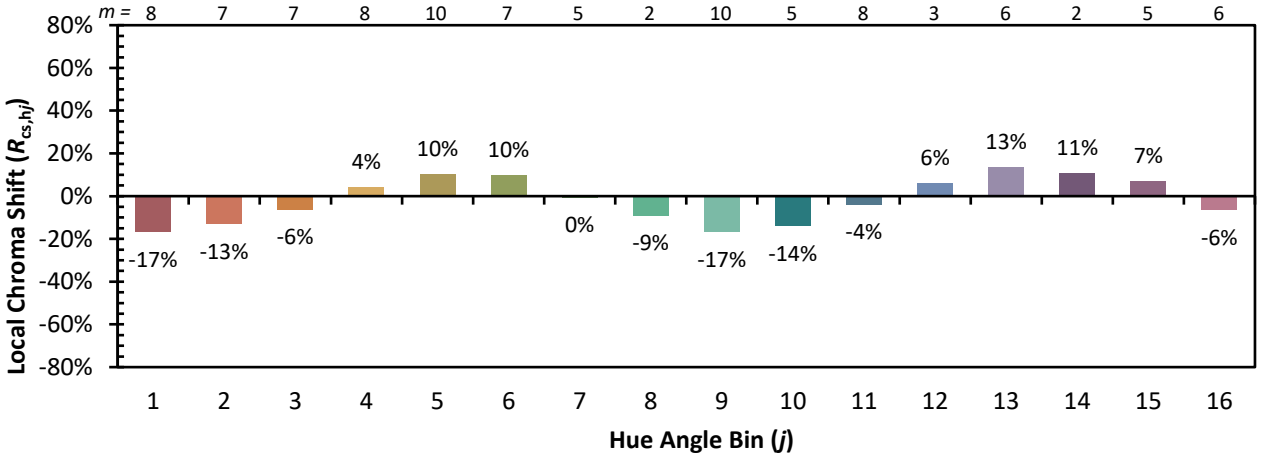
CES01 = 85	CES26 = 60	CES51 = 89	CES76 = 46
CES02 = 59	CES27 = 86	CES52 = 88	CES77 = 65
CES03 = 30	CES28 = 78	CES53 = 76	CES78 = 49
CES04 = 69	CES29 = 62	CES54 = 83	CES79 = 78
CES05 = 46	CES30 = 79	CES55 = 82	CES80 = 74
CES06 = 50	CES31 = 66	CES56 = 71	CES81 = 77
CES07 = 39	CES32 = 58	CES57 = 70	CES82 = 89
CES08 = 38	CES33 = 74	CES58 = 71	CES83 = 87
CES09 = 29	CES34 = 66	CES59 = 86	CES84 = 86
CES10 = 72	CES35 = 81	CES60 = 90	CES85 = 79
CES11 = 56	CES36 = 94	CES61 = 84	CES86 = 76
CES12 = 61	CES37 = 75	CES62 = 84	CES87 = 76
CES13 = 41	CES38 = 88	CES63 = 72	CES88 = 79
CES14 = 74	CES39 = 95	CES64 = 66	CES89 = 73
CES15 = 70	CES40 = 88	CES65 = 61	CES90 = 78
CES16 = 46	CES41 = 92	CES66 = 58	CES91 = 77
CES17 = 49	CES42 = 75	CES67 = 55	CES92 = 63
CES18 = 55	CES43 = 74	CES68 = 65	CES93 = 77
CES19 = 71	CES44 = 99	CES69 = 74	CES94 = 56
CES20 = 64	CES45 = 83	CES70 = 55	CES95 = 67
CES21 = 85	CES46 = 82	CES71 = 47	CES96 = 76
CES22 = 77	CES47 = 84	CES72 = 82	CES97 = 83
CES23 = 91	CES48 = 76	CES73 = 44	CES98 = 73
CES24 = 90	CES49 = 80	CES74 = 92	CES99 = 62
CES25 = 71	CES50 = 88	CES75 = 47	

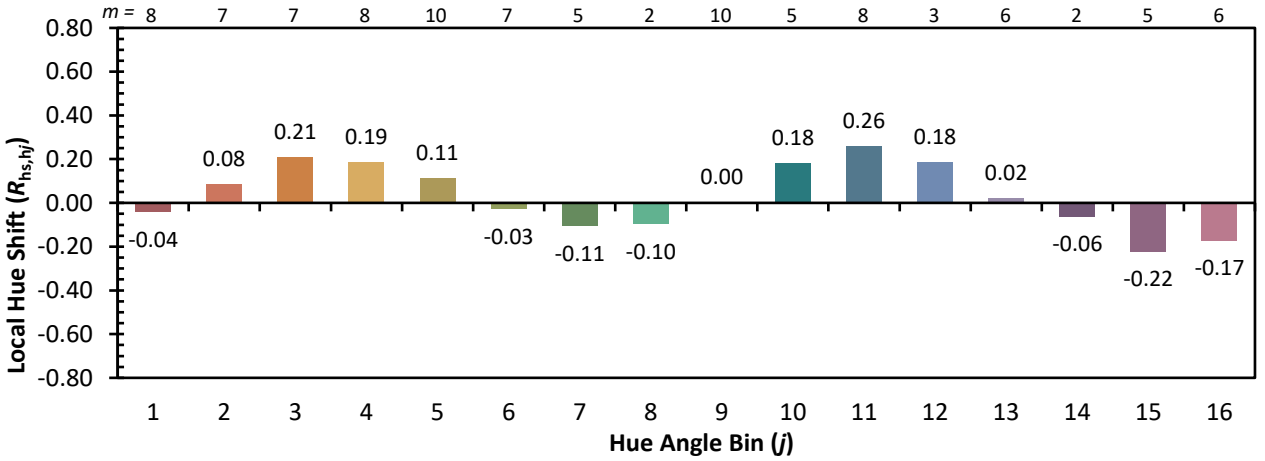


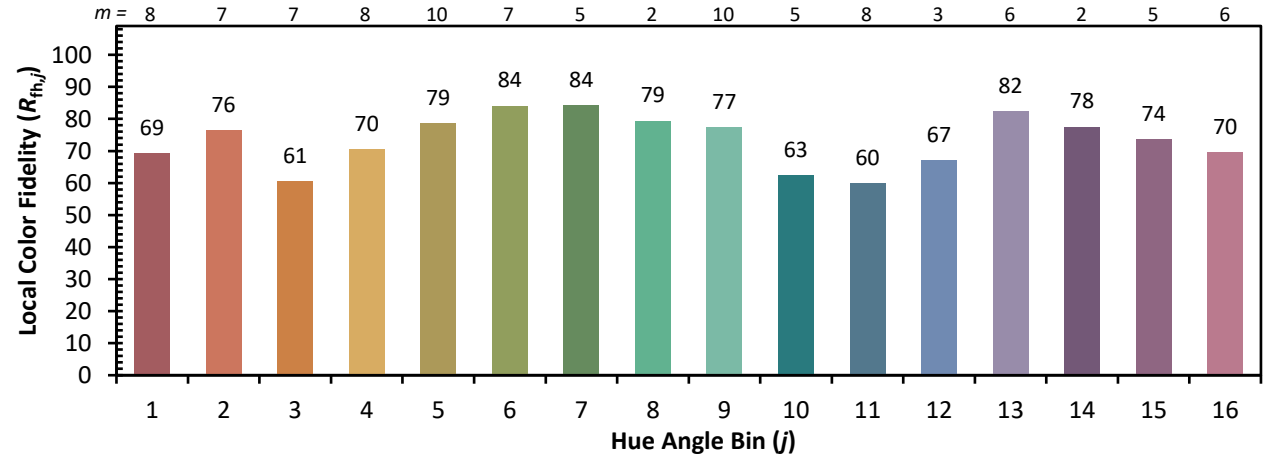
REPORT NUMBER: SP1-2407-176-6

TM-30-18

Color Rendition by Hue-Angle Bin







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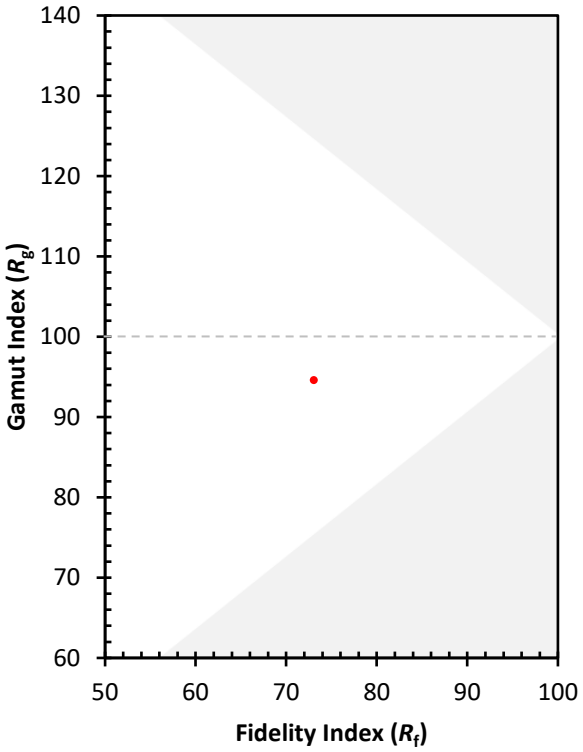
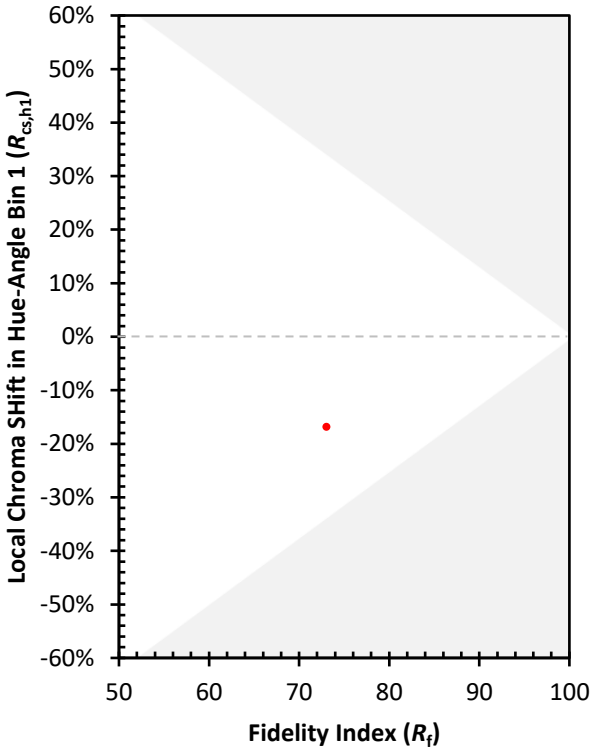
Measure Comparisons





(END OF REPORT)