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: P821576

Luminaire Tested: **TT-D2-750-12VDC-DL-HSS**

Issue Date: 12/2/2020

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P821576
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-4)
Test Lab:	INNOVATION CENTER
Issue Date:	12/2/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TT-D2-750-12VDC-DL-HSS
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE
	5000K, 70 CRI LEDS AND DRIVE LANE DISTRIBUTION WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3944.9 lumens
Efficiency:	N/A
Efficacy:	103.8 lumens/watt
Luminous Opening:	Circular (Dia: 1.12' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U1 - G3

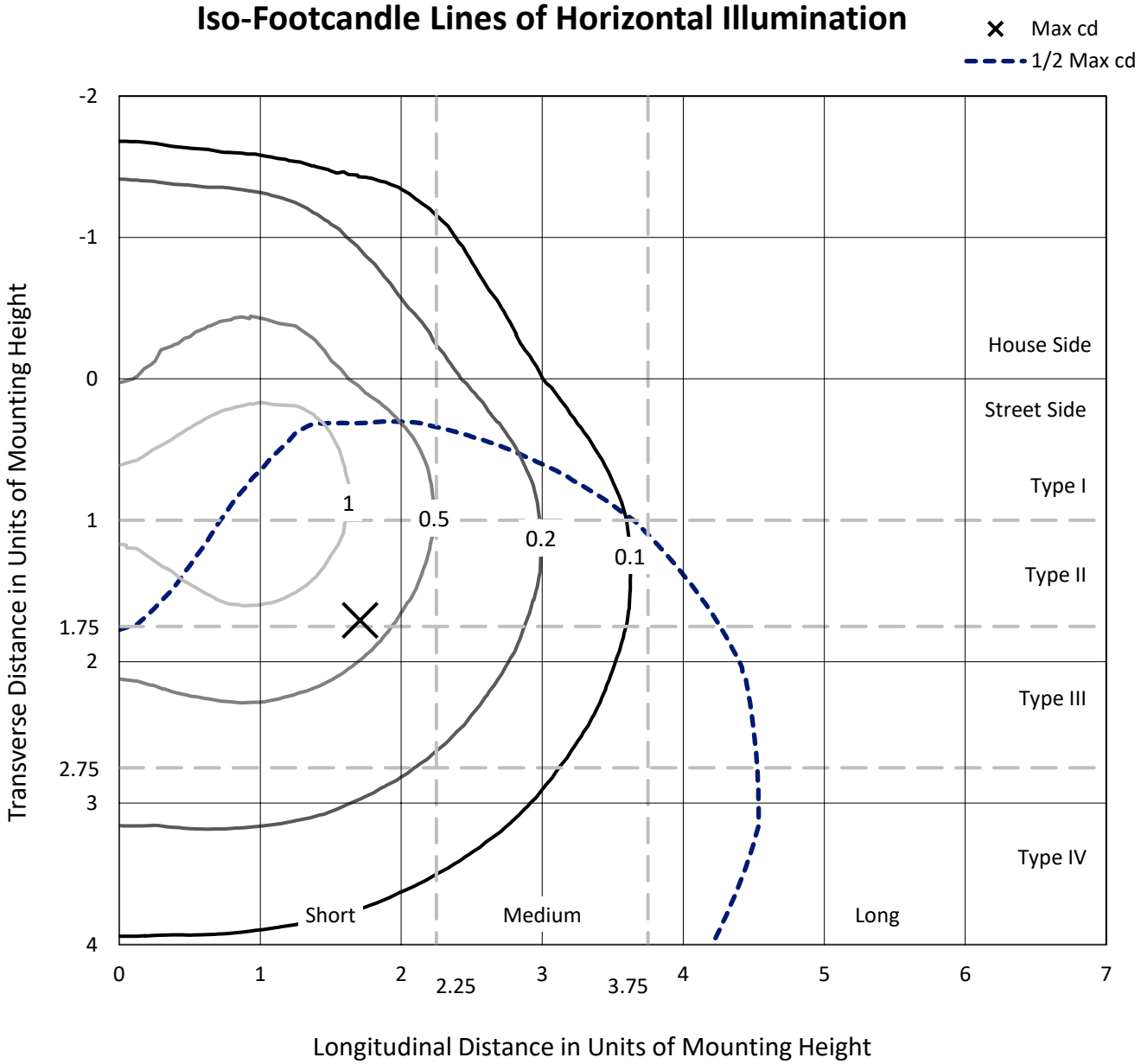
Input Watts (W):	38
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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Iso-Footcandle Lines of Horizontal Illumination



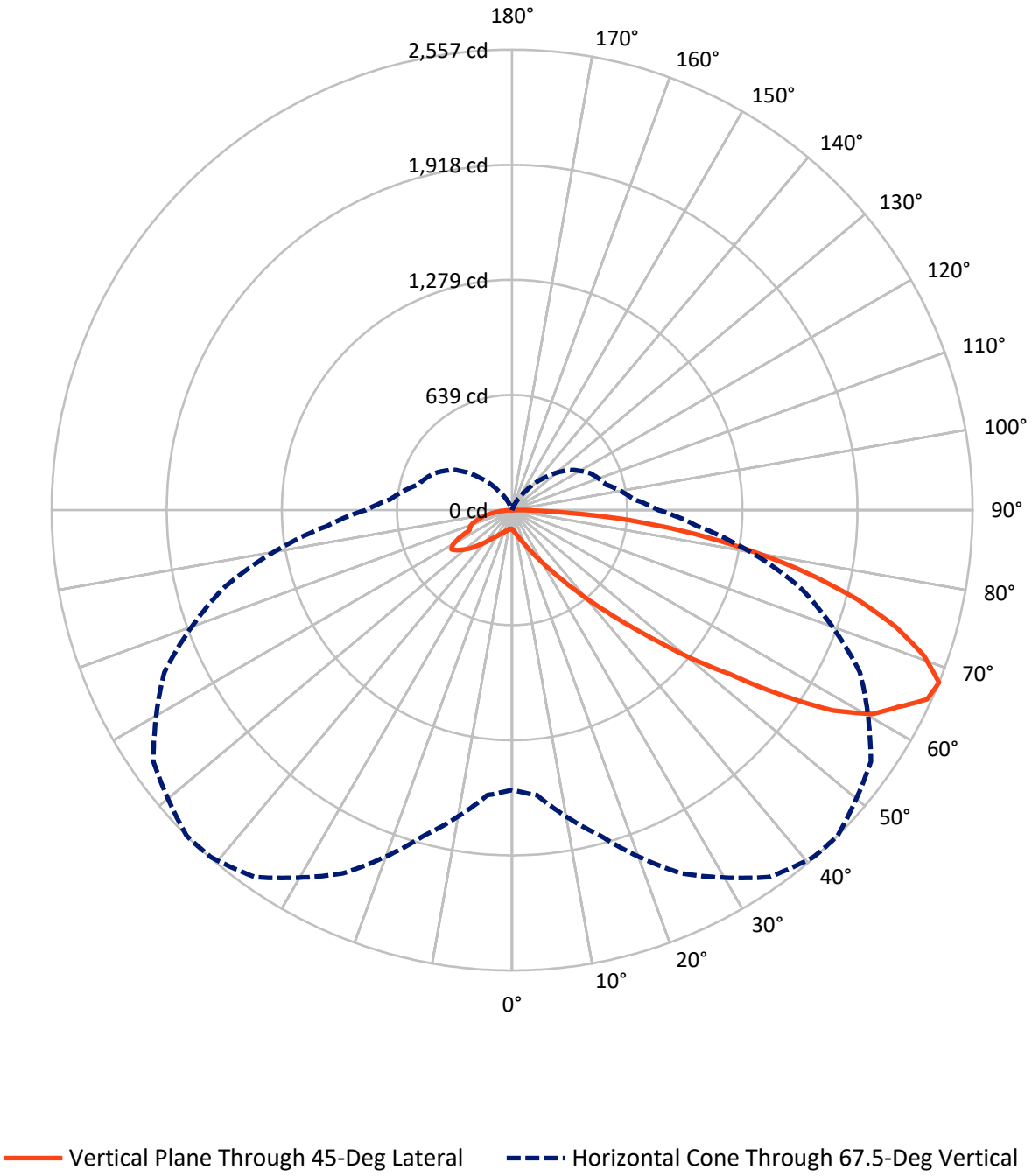
Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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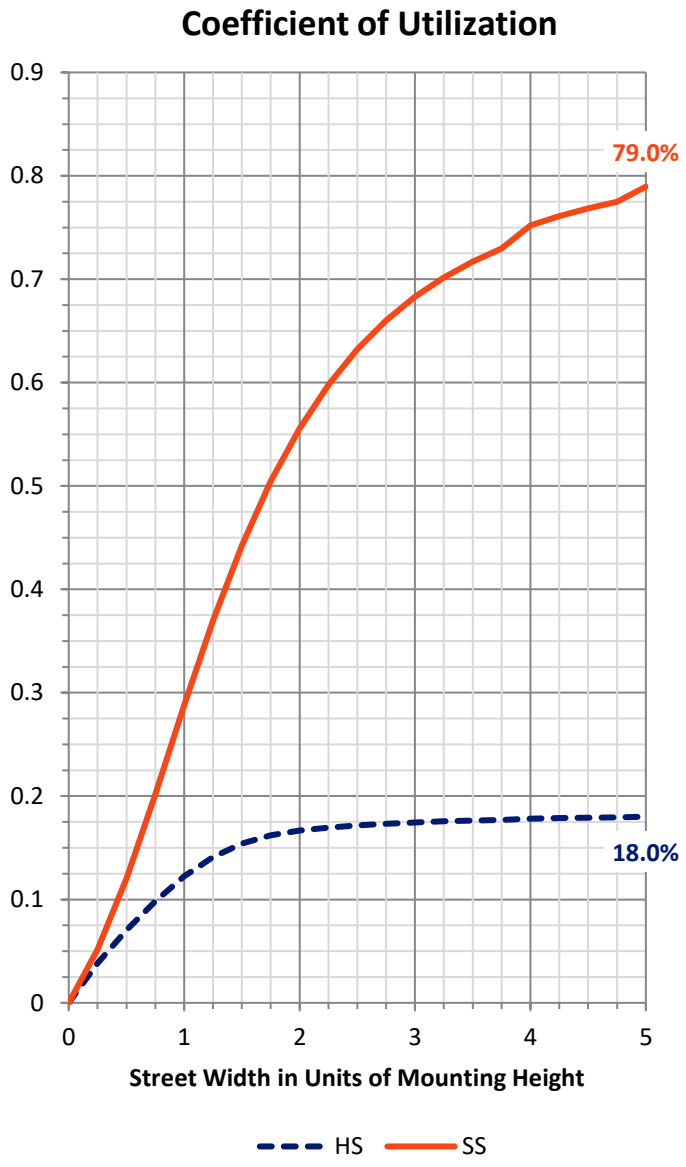
REPORT NUMBER: P821576
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	716.7	0.8	717.5
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	3218.6	8.7	3227.4
	% Fixture	81.6	0.2	81.8
Total	Lumens	3935.4	9.5	3944.9
	% Fixture	99.8	0.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	0.3
10°-20°	41.5	1.1
20°-30°	95.7	2.4
30°-40°	204.1	5.2
40°-50°	427.2	10.8
50°-60°	810.4	20.5
60°-70°	1103.0	28.0
70°-80°	948.3	24.0
80°-90°	294.0	7.5
90°-100°	6.2	0.2
100°-110°	1.8	0.0
110°-120°	0.5	0.0
120°-130°	0.3	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	3935.4	99.8
0°-180°	3944.9	100.0



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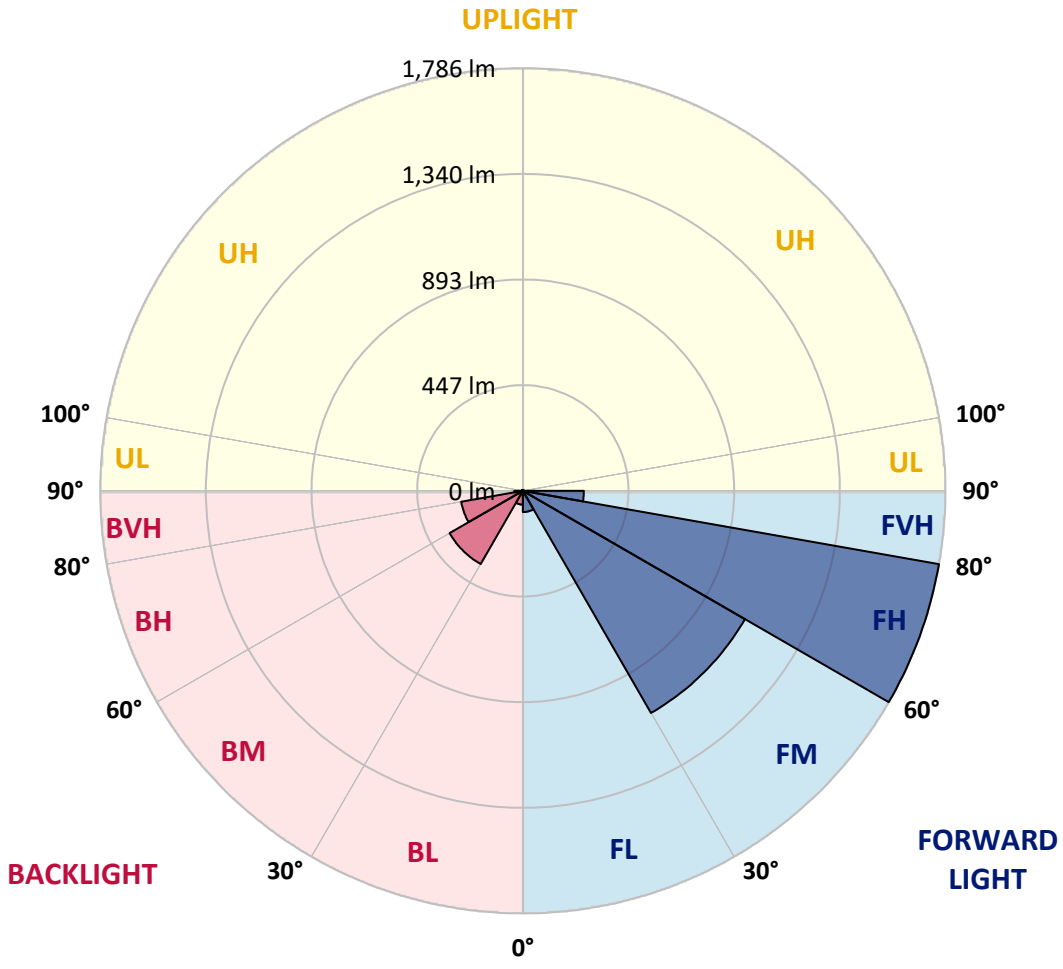
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	89.9	2.3			
FM	(30°-60°)	1084.2	27.5			
FH	(60°-80°)	1786.5	45.3			G1/1800
FVH	(80°-90°)	258.0	6.5			G3/500
BL	(0°-30°)	58.4	1.5	B0/110		
BM	(30°-60°)	357.5	9.1	B1/1000		
BH	(60°-80°)	264.7	6.7	B1/500		G1/500
BVH	(80°-90°)	36.0	0.9			G1/100
UL	(90°-100°)	6.2	0.2		U1/10	
UH	(100°-180°)	3.3	0.1		U1/10	

BUG Rating: B1-U1-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	107.9	107.9	107.9	107.9	107.9	107.9	107.9	107.9	107.9	107.9	107.9
2.5°	117.1	116.3	116.3	115.5	115.5	113.8	113.8	113.0	112.1	111.3	109.6
5°	125.5	124.7	124.7	123.8	123.0	121.3	120.5	118.8	117.1	115.5	113.8
7.5°	135.6	134.7	134.7	133.9	132.2	129.7	128.9	126.4	123.8	121.3	118.8
10°	148.1	147.3	147.3	145.6	143.9	141.4	139.7	136.4	133.9	129.7	125.5
12.5°	161.5	160.7	160.7	159.0	155.6	154.0	152.3	148.1	143.9	138.9	133.9
15°	176.6	176.6	176.6	175.7	172.4	169.0	167.4	162.3	157.3	149.8	143.1
17.5°	195.8	195.0	195.0	193.3	189.1	187.4	184.9	179.1	171.5	163.2	154.8
20°	219.2	218.4	216.7	215.9	211.7	210.0	206.7	200.0	189.9	179.1	167.4
22.5°	242.7	242.7	241.8	242.7	239.3	237.6	233.5	224.3	212.5	196.6	182.4
25°	269.4	270.3	272.0	274.5	270.3	268.6	265.3	253.5	239.3	219.2	199.2
27.5°	302.9	302.9	307.1	311.3	307.9	307.1	302.1	289.5	269.4	245.2	221.7
30°	338.9	339.7	346.4	354.0	352.3	352.3	348.1	333.9	309.6	281.2	248.5
32.5°	380.7	384.1	390.8	399.1	405.0	405.0	403.3	388.3	359.8	321.3	281.2
35°	436.0	430.1	442.7	455.2	467.8	470.3	471.1	456.9	424.2	375.7	321.3
37.5°	483.7	482.8	502.1	523.8	544.7	553.1	555.6	542.2	500.4	436.8	364.8
40°	538.9	543.9	569.8	602.5	637.6	651.8	658.5	643.5	591.6	509.6	415.0
42.5°	596.6	611.7	644.3	693.7	747.2	768.2	775.7	761.5	700.4	600.8	478.6
45°	664.4	685.3	728.8	799.1	869.4	900.4	917.1	912.1	849.3	725.5	560.6
47.5°	748.1	763.1	822.5	917.1	1016.7	1067.7	1091.2	1105.4	1015.8	854.3	632.6
50°	842.6	845.1	927.1	1046.8	1192.4	1260.2	1301.2	1294.5	1188.2	1002.5	723.8
52.5°	938.0	935.5	1042.6	1205.0	1395.7	1484.4	1512.1	1539.7	1435.1	1228.4	870.2
55°	1046.8	1041.8	1176.5	1382.4	1619.2	1736.3	1814.1	1852.6	1687.8	1377.3	933.8
57.5°	1137.2	1153.1	1322.1	1569.8	1900.3	2047.6	2098.6	2077.7	1826.7	1452.6	964.8
60°	1251.8	1275.2	1467.7	1815.0	2143.8	2253.4	2300.3	2204.9	1915.4	1509.5	986.6
62.5°	1359.8	1389.9	1627.5	2014.1	2296.1	2396.5	2408.2	2304.5	2040.1	1621.7	1050.2
65°	1461.0	1495.3	1786.5	2132.1	2429.2	2512.8	2532.9	2450.9	2172.3	1687.8	1075.3
67.5°	1553.9	1589.9	1868.5	2226.7	2488.6	2553.0	2557.2	2432.5	2131.3	1653.5	1035.1
70°	1625.0	1640.9	1907.8	2224.1	2418.3	2443.4	2426.6	2301.1	2035.0	1583.2	977.4
72.5°	1639.2	1651.0	1853.5	2100.3	2223.3	2246.7	2233.3	2122.9	1883.6	1457.7	883.6
75°	1567.3	1569.8	1707.0	1877.7	1967.3	1995.7	1978.1	1876.0	1656.0	1280.3	760.6
77.5°	1379.0	1384.0	1466.9	1581.5	1656.8	1681.1	1667.7	1574.0	1387.4	1075.3	629.3
80°	1092.8	1102.9	1162.3	1241.8	1310.4	1335.5	1319.6	1244.3	1092.0	845.1	491.2
82.5°	744.7	757.3	811.7	877.8	938.0	962.3	948.9	901.2	787.4	609.2	350.6
85°	376.5	389.9	446.0	507.9	560.6	586.6	582.4	562.3	484.5	375.7	211.7
87.5°	59.4	65.3	88.7	118.0	150.6	174.9	159.8	158.2	125.5	100.4	51.0
90°	24.3	24.3	23.4	22.6	20.1	18.4	17.6	14.2	10.9	6.7	2.5
92.5°	21.8	21.8	20.9	19.2	17.6	16.7	15.1	12.6	9.2	5.9	2.5
95°	17.6	17.6	16.7	15.9	14.2	13.4	11.7	10.0	7.5	5.0	2.5
97.5°	13.4	13.4	12.6	11.7	10.9	9.2	9.2	7.5	5.0	3.3	1.7
100°	10.0	10.0	9.2	8.4	7.5	6.7	6.7	5.0	3.3	2.5	1.7
102.5°	6.7	6.7	6.7	5.9	5.0	5.0	4.2	3.3	2.5	1.7	1.7
105°	4.2	4.2	4.2	4.2	3.3	2.5	2.5	1.7	1.7	1.7	1.7
107.5°	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7
110°	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	1.7	0.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
112.5°	0.8	0.8	0.8	0.8	0.8	0.8	*0.8*	0.8	0.8	0.8	0.8
115°	0.0	0.0	0.8	0.8	0.8	0.8	*0.8*	0.8	0.8	0.8	0.8
117.5°	0.0	0.0	0.0	0.0	0.0	0.8	*0.8*	0.8	0.8	0.8	0.8
120°	0.0	0.0	0.0	0.0	0.0	0.8	*0.8*	0.8	0.8	0.8	0.8
122.5°	0.0	0.0	0.0	0.0	0.0	0.8	*0.8*	0.8	0.8	0.8	0.8
125°	0.0	0.0	0.0	0.8	0.0	0.8	*0.8*	0.8	0.8	0.8	0.8
127.5°	0.0	0.0	0.0	0.8	0.0	0.0	*0.8*	0.8	0.8	0.8	0.8
130°	0.0	0.0	0.0	0.0	0.0	0.0	*0.8*	0.8	0.8	0.8	0.8
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	*0.8*	0.8	0.8	0.8	0.8
135°	0.0	0.0	0.0	0.0	0.0	0.0	*0.8*	0.8	0.8	0.8	0.8
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	*0.8*	0.8	0.8	0.8	0.8
140°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.8	0.8	0.8	0.8
142.5°	0.8	0.8	0.0	0.0	0.0	0.0	*0.8*	0.8	0.8	0.8	0.8
145°	0.8	0.8	0.0	0.0	0.0	0.0	*0.8*	0.8	0.8	0.8	0.8
147.5°	0.8	0.8	0.0	0.0	0.0	0.0	*0.8*	0.8	0.8	0.8	0.8
150°	0.0	0.0	0.0	0.0	0.0	0.0	*0.8*	0.8	0.8	0.8	0.8
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.8	0.8	0.8	0.8
155°	0.0	0.0	0.0	0.0	0.0	0.0	*0.8*	0.8	0.8	0.8	0.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	*0.8*	0.8	0.8	0.8	0.8
160°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.8	0.8	0.8	0.8
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	*0.8*	0.8	0.8	0.8	0.8
165°	0.0	0.0	0.0	0.0	0.0	0.0	*0.8*	0.8	0.8	0.8	0.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	*0.8*	0.8	0.8	0.8	0.8
170°	0.0	0.0	0.0	0.0	0.0	0.0	*0.8*	0.8	0.8	0.8	0.8
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	*0.8*	0.8	0.8	0.8	0.8
175°	0.0	0.0	0.0	0.0	0.0	0.8	*0.8*	0.8	0.8	0.8	0.8
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	*0.8*	0.8	0.8	0.8	0.8
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°	107.9	107.9	107.9	107.9	107.9	107.9	107.9	107.9	107.9	107.9	107.9
2.5°	109.6	108.8	107.1	106.3	104.6	104.6	103.8	102.9	102.9	102.9	102.9
5°	112.1	111.3	109.6	107.9	106.3	104.6	103.8	102.9	102.9	102.9	102.1
7.5°	117.1	115.5	113.0	110.5	107.9	106.3	105.4	104.6	103.8	103.8	103.8
10°	123.0	121.3	117.1	114.6	111.3	108.8	107.9	107.1	106.3	106.3	106.3
12.5°	130.5	128.0	123.0	118.8	115.5	113.0	111.3	110.5	110.5	109.6	110.5
15°	139.7	136.4	129.7	124.7	120.5	118.0	116.3	115.5	115.5	115.5	114.6
17.5°	149.8	145.6	137.2	131.4	126.4	123.8	122.2	121.3	121.3	121.3	121.3
20°	161.5	155.6	146.4	138.9	133.9	130.5	128.9	128.9	128.0	128.9	128.9
22.5°	174.0	167.4	155.6	147.3	140.6	137.2	135.6	135.6	135.6	136.4	137.2
25°	189.1	180.7	166.5	155.6	148.1	144.8	143.1	143.9	143.9	144.8	144.8
27.5°	209.2	196.6	179.1	165.7	157.3	153.1	151.5	152.3	153.1	153.1	153.1
30°	231.8	216.7	192.5	178.2	168.2	163.2	161.5	162.3	163.2	164.8	164.0
32.5°	259.4	241.0	212.5	192.5	181.6	175.7	174.0	173.2	174.9	176.6	176.6
35°	292.9	269.4	236.0	212.5	196.6	189.1	187.4	186.6	187.4	189.1	190.8
37.5°	328.9	300.4	259.4	235.1	217.6	209.2	205.0	201.7	202.5	203.3	205.8
40°	369.9	334.7	286.2	256.9	241.0	230.9	225.1	220.1	221.7	221.7	222.6
42.5°	421.7	377.4	319.6	282.8	266.1	255.2	246.0	240.2	236.8	237.6	234.3
45°	489.5	434.3	361.5	319.6	296.2	279.5	268.6	256.9	248.5	250.2	245.2
47.5°	545.6	479.5	400.8	354.8	329.7	308.8	286.2	269.4	257.7	256.1	252.7
50°	614.2	534.7	446.0	393.3	366.5	334.7	307.9	279.5	260.2	255.2	256.1
52.5°	729.7	631.8	510.4	445.2	398.3	360.6	319.6	280.3	254.4	246.8	249.4
55°	771.5	664.4	543.9	487.8	441.8	383.2	324.7	271.1	237.6	230.9	231.8
57.5°	780.7	664.4	546.4	501.2	462.7	401.7	322.2	250.2	205.8	200.0	199.2
60°	785.7	660.2	537.2	491.2	449.3	384.1	289.5	201.7	158.2	154.0	151.5
62.5°	832.6	695.4	546.4	483.7	424.2	337.2	220.1	128.9	87.9	87.0	85.4
65°	846.8	707.9	558.1	488.7	396.6	261.9	130.5	43.5	9.2	10.0	8.4
67.5°	*811.7*	*679.5*	*541.4*	*481.1*	*388.3*	*255.2*	*125.5*	*36.8*	*0.0*	*0.0*	*0.0*
70°	763.1	638.5	512.1	455.2	370.7	245.2	123.0	36.8	0.0	0.0	0.0
72.5°	686.2	579.9	465.2	420.1	340.6	225.1	114.6	35.1	0.0	0.0	0.0
75°	595.8	504.6	407.5	372.4	302.1	197.5	102.9	31.8	0.0	0.0	0.0
77.5°	498.7	420.9	340.6	313.8	255.2	168.2	87.0	26.8	0.0	0.0	0.0
80°	391.6	333.0	268.6	250.2	201.7	133.9	69.5	20.9	0.0	0.0	0.0
82.5°	282.0	241.8	198.3	183.3	148.1	97.1	50.2	14.2	0.0	0.0	0.0
85°	174.0	151.5	128.0	118.8	93.7	60.2	30.1	7.5	0.0	0.0	0.0
87.5°	51.9	50.2	45.2	44.3	31.8	18.4	6.7	0.8	0.0	0.0	0.0
90°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.8	0.8	0.8	0.8	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: P821576
CATALOG NUMBER: TT-D2-750-12VDC-DL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.8	0.8	0.8	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: SP1-2407-176-6

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

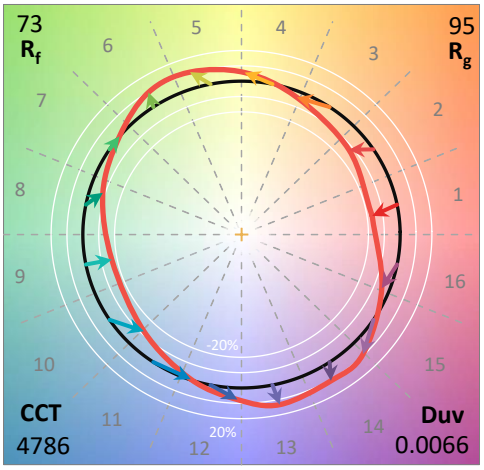
Test Information

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

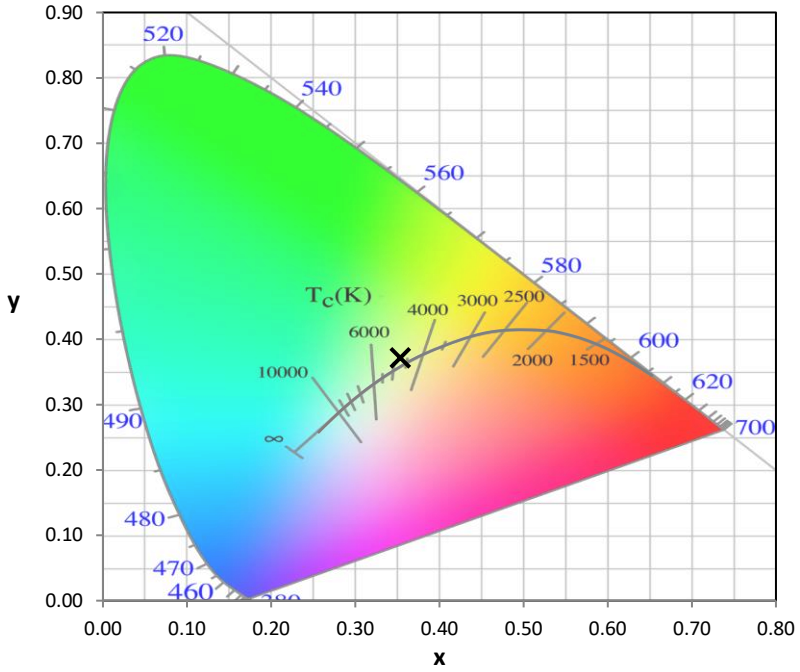
Stabilization Time:	45M
Operation Time:	1H 45M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-176-6

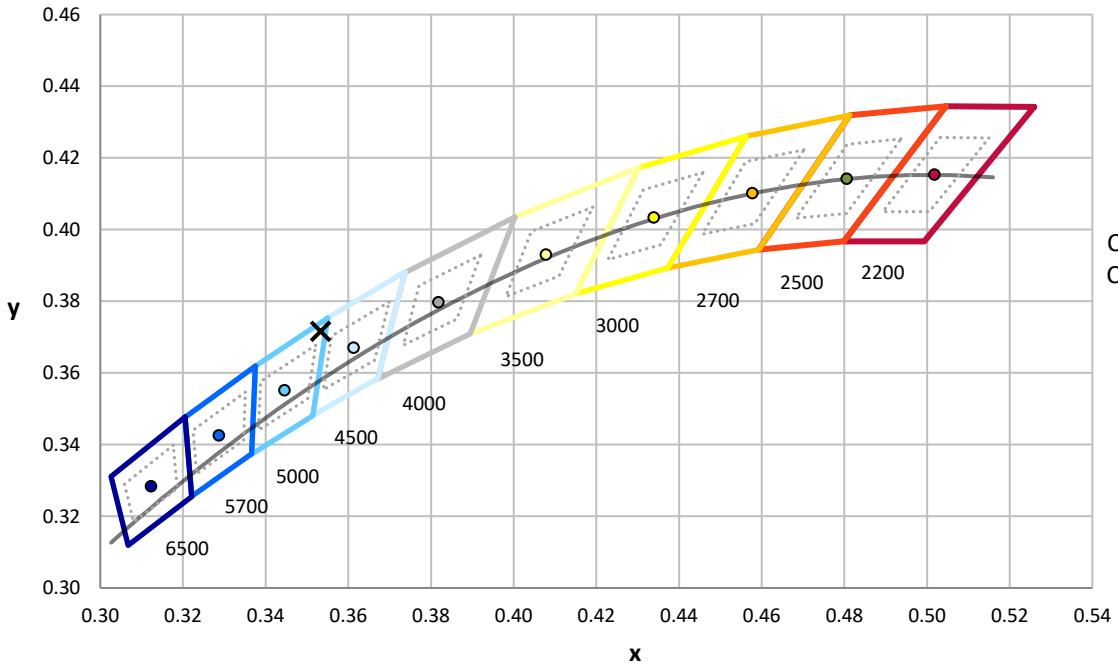
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

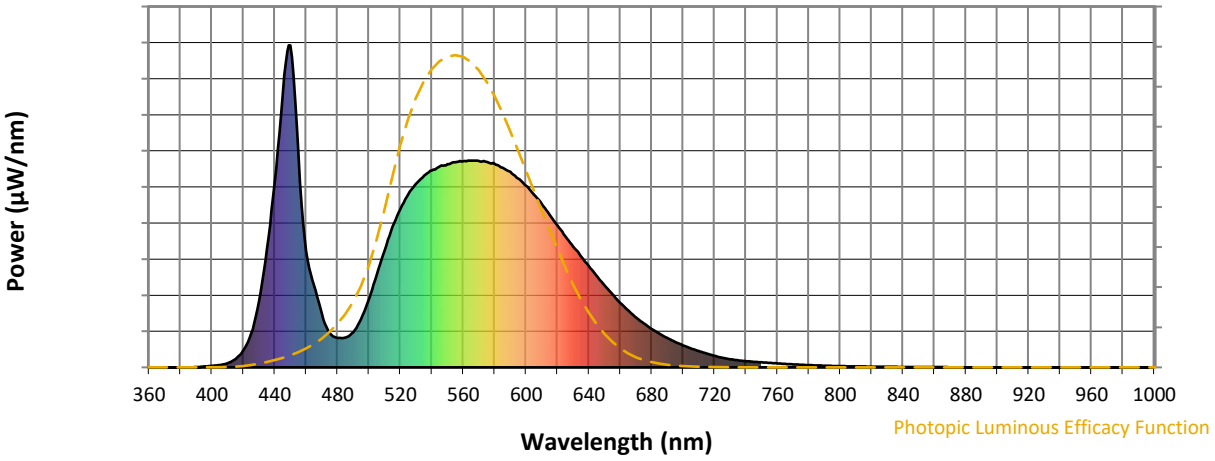


CCT = 4786K
CIE x = 0.3533
CIE y = 0.3716
Duv = 0.0066

Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-176-6

Photopic Flux vs. Wavelength

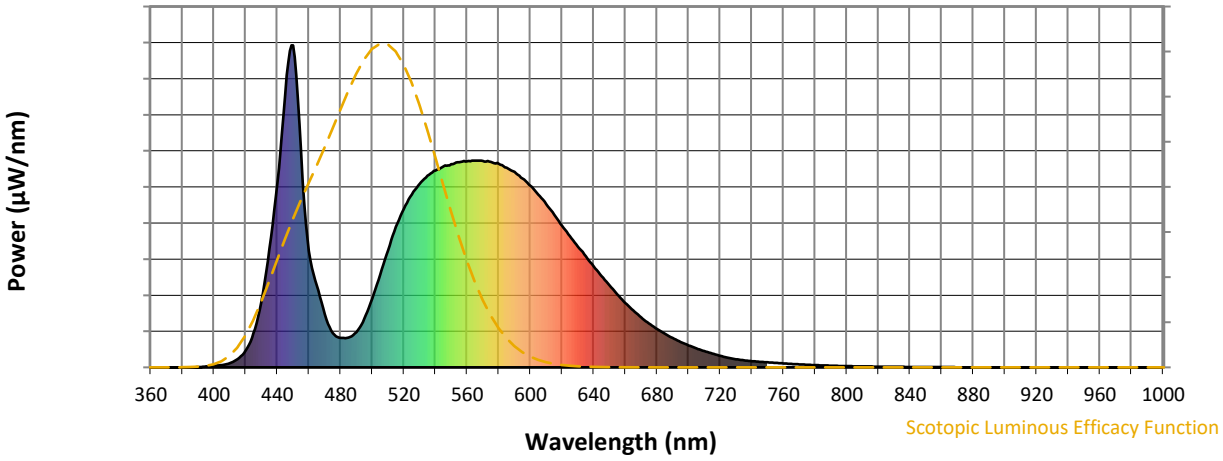


Photopic Lumens: NR

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

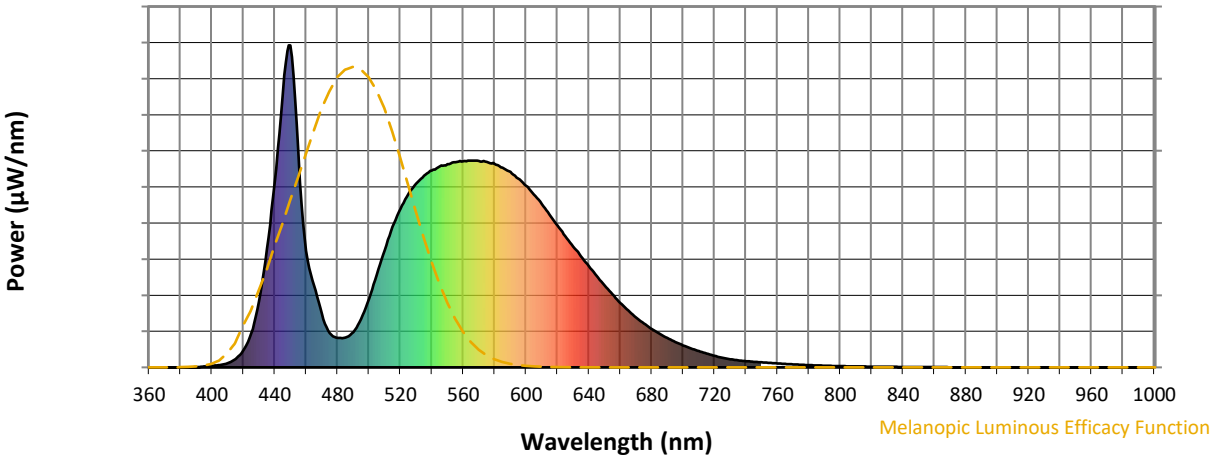


Scotopic Lumens: NR **S/P: 1.69**

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			

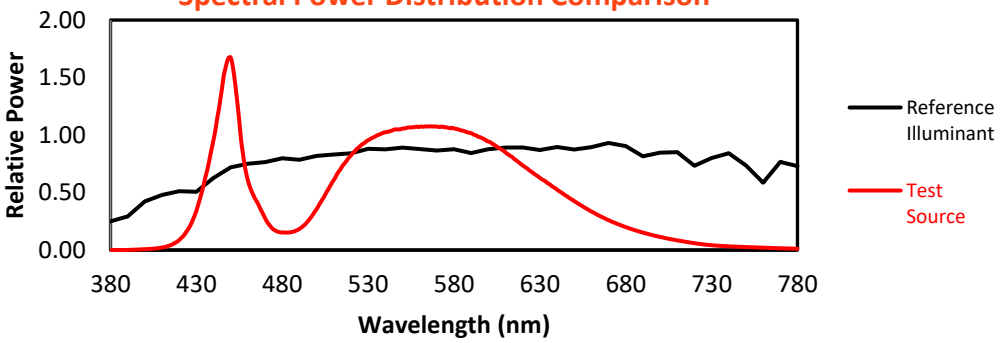
REPORT NUMBER: SP1-2407-176-6

TM-30-18

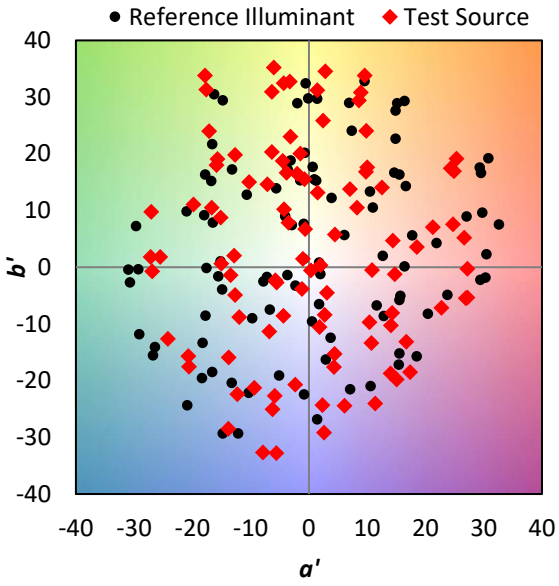
Summary

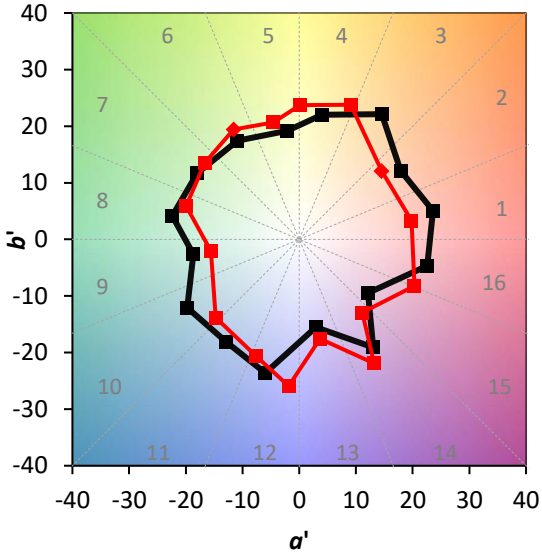
R_f = 73
R_g = 94.6
CIE R_a = 70.9
R_9 = -29.8

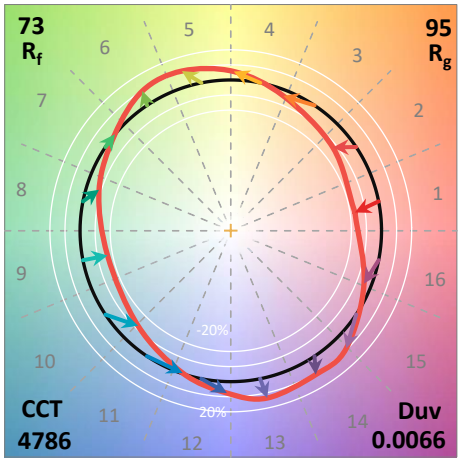
Spectral Power Distribution Comparison

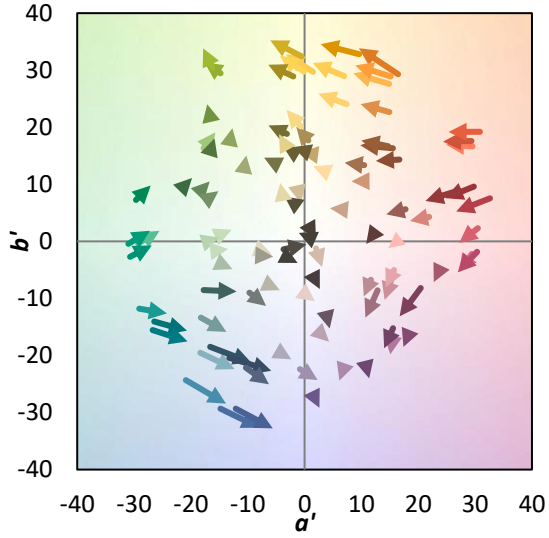


Color Vector Graphics







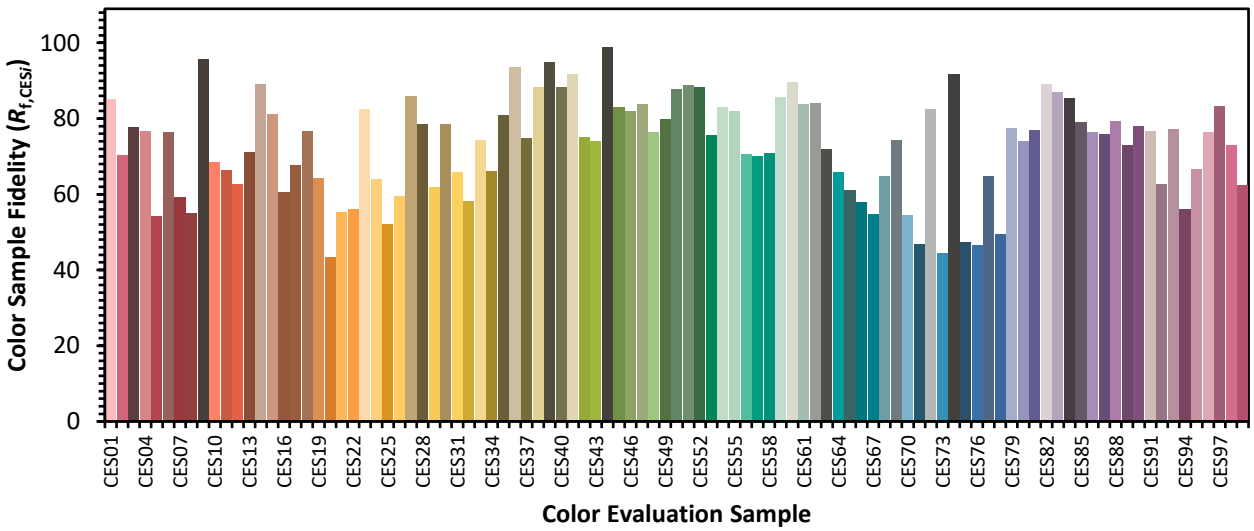


REPORT NUMBER: SP1-2407-176-6

TM-30-18

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

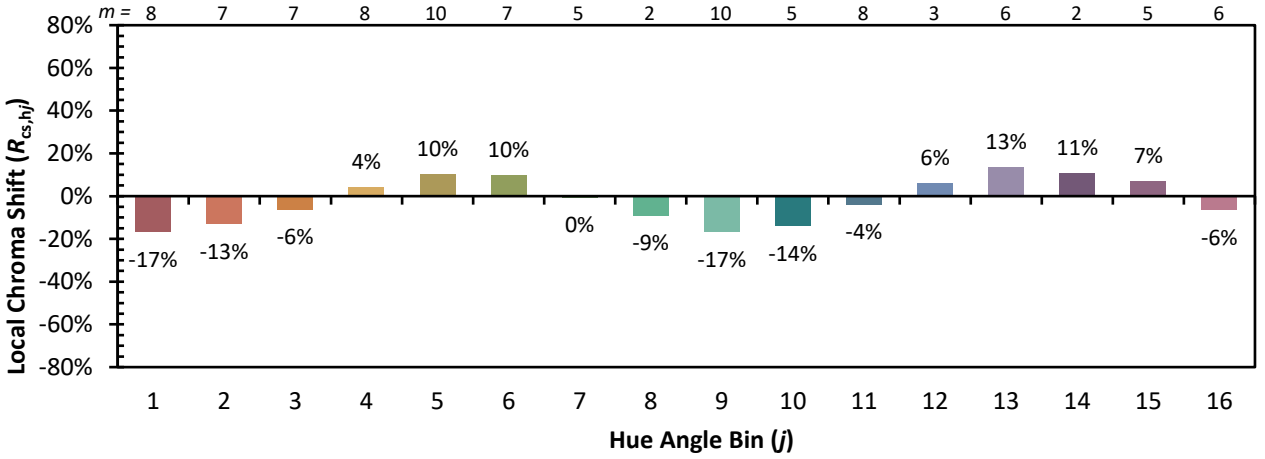
CES01 = 85	CES26 = 60	CES51 = 89	CES76 = 46
CES02 = 59	CES27 = 86	CES52 = 88	CES77 = 65
CES03 = 30	CES28 = 78	CES53 = 76	CES78 = 49
CES04 = 69	CES29 = 62	CES54 = 83	CES79 = 78
CES05 = 46	CES30 = 79	CES55 = 82	CES80 = 74
CES06 = 50	CES31 = 66	CES56 = 71	CES81 = 77
CES07 = 39	CES32 = 58	CES57 = 70	CES82 = 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	

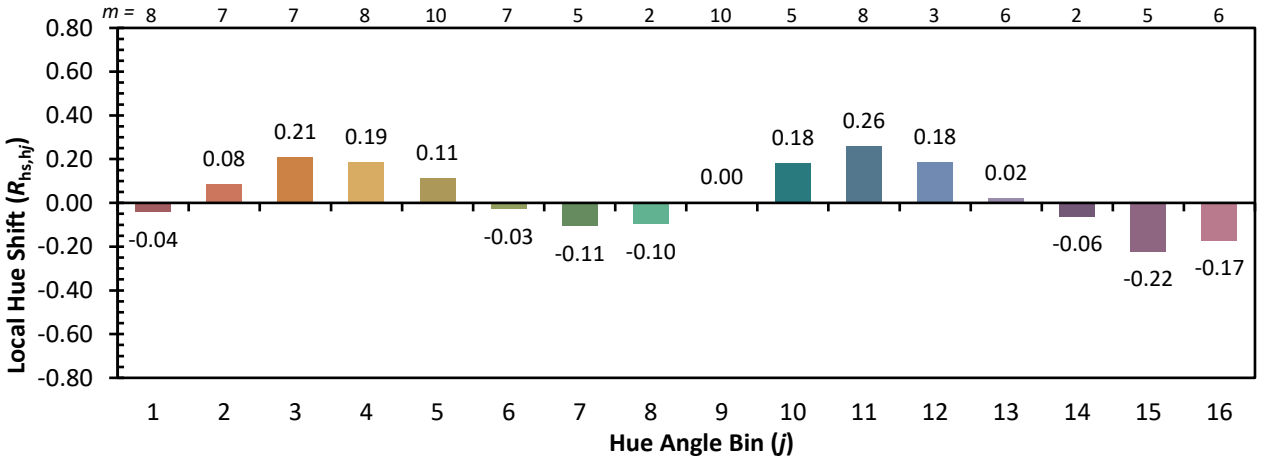


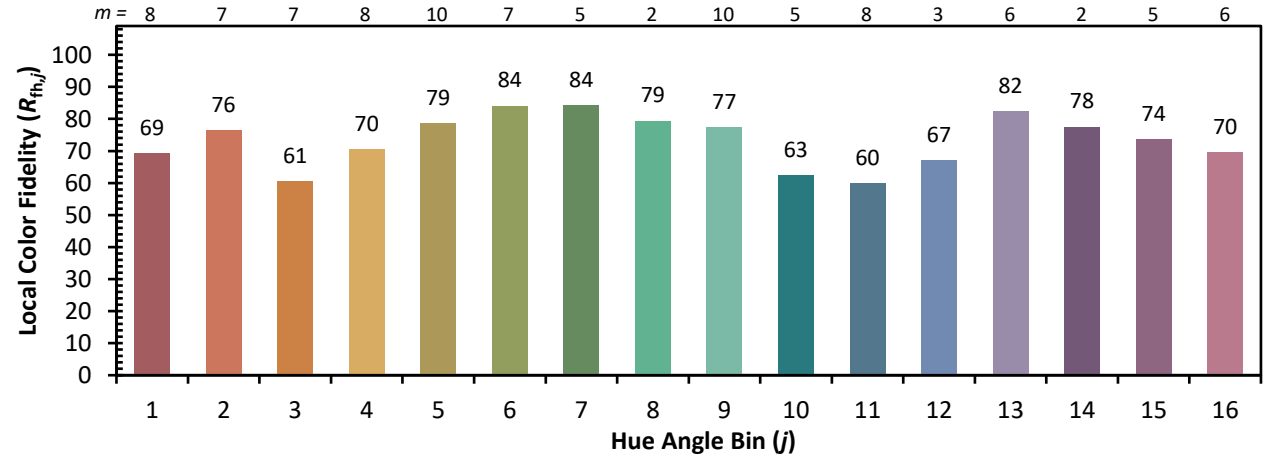
REPORT NUMBER: SP1-2407-176-6

TM-30-18

Color Rendition by Hue-Angle Bin



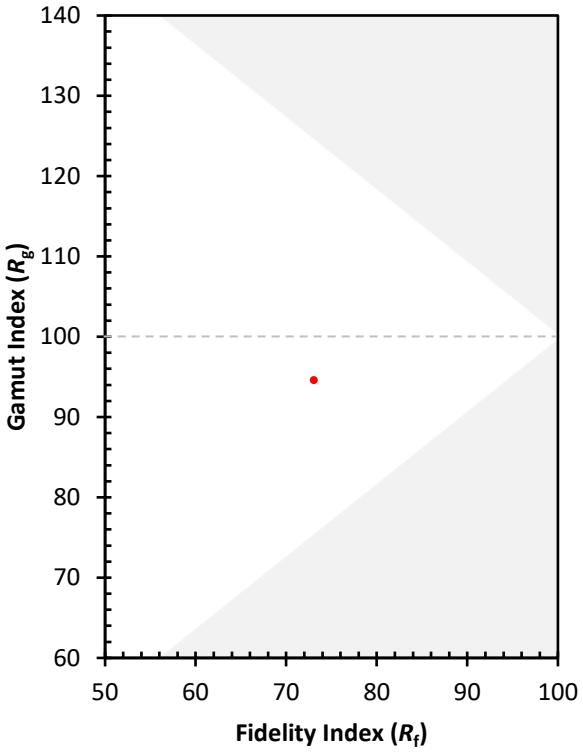


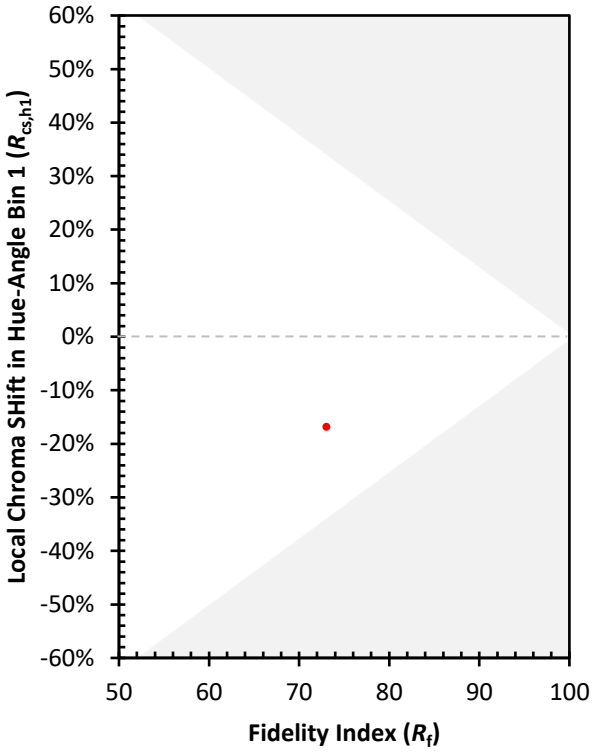


REPORT NUMBER: SP1-2407-176-6

TM-30-18

Measure Comparisons





(END OF REPORT)