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: P1364504

Luminaire Tested: **GSS-SB1B-740-U-SLR-HSS**

Issue Date: 02/18/2026

Report Generated By 670245763

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:	P1364504
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	02/18/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB1B-740-U-SLR-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 1SQUARE 40W 70CRI 4000K FIXTURE w/ 90° Spill Light Eliminator RIGHT OPTIC AND HOUSE SIDE SHIELD
Light Source:	(26) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4102.6 lumens
Efficiency:	N/A
Efficacy:	102.6 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G1

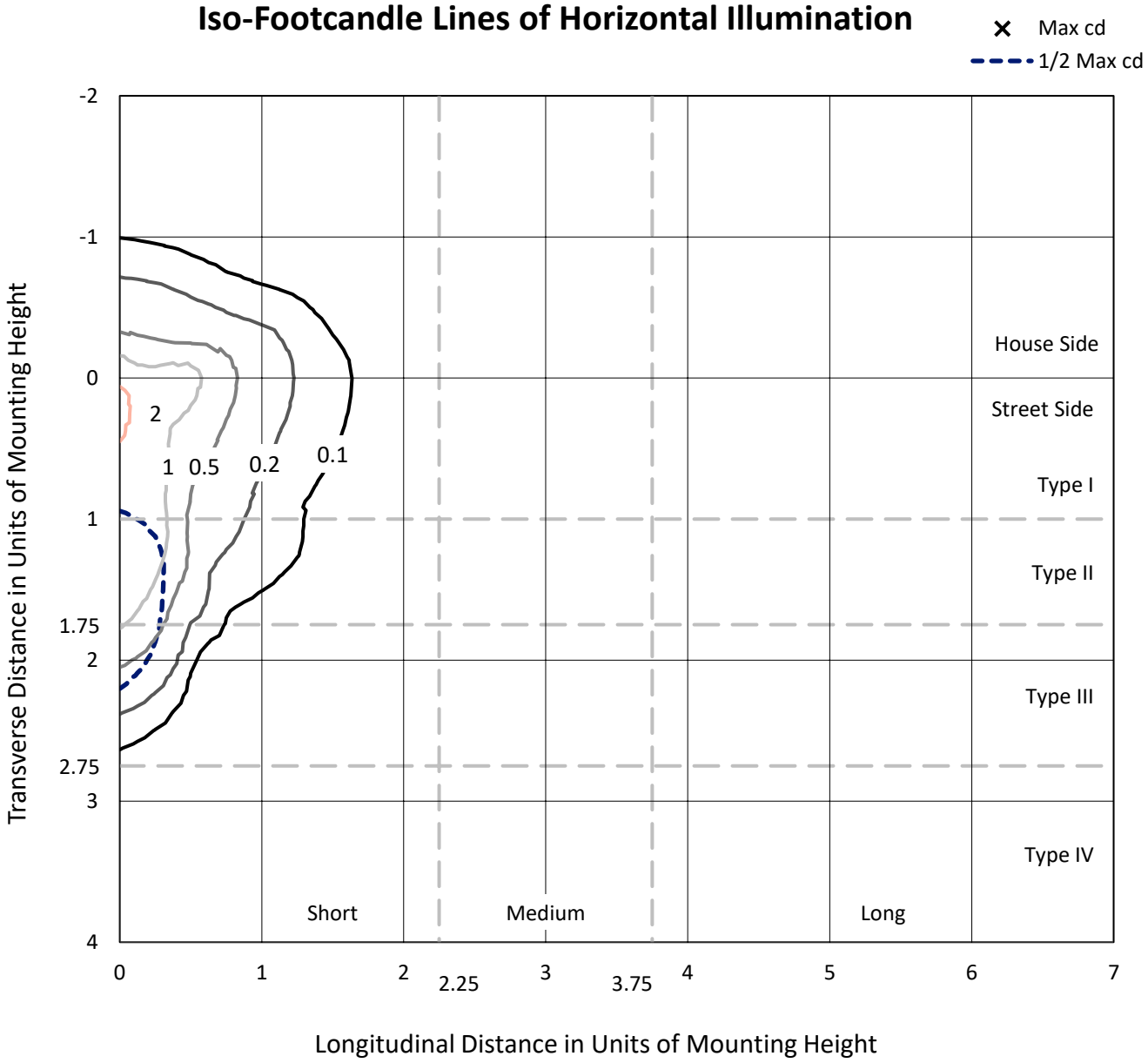
Input Watts (W):	40
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	5.3%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P1364504
CATALOG NUMBER: GSS-SB1B-740-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination



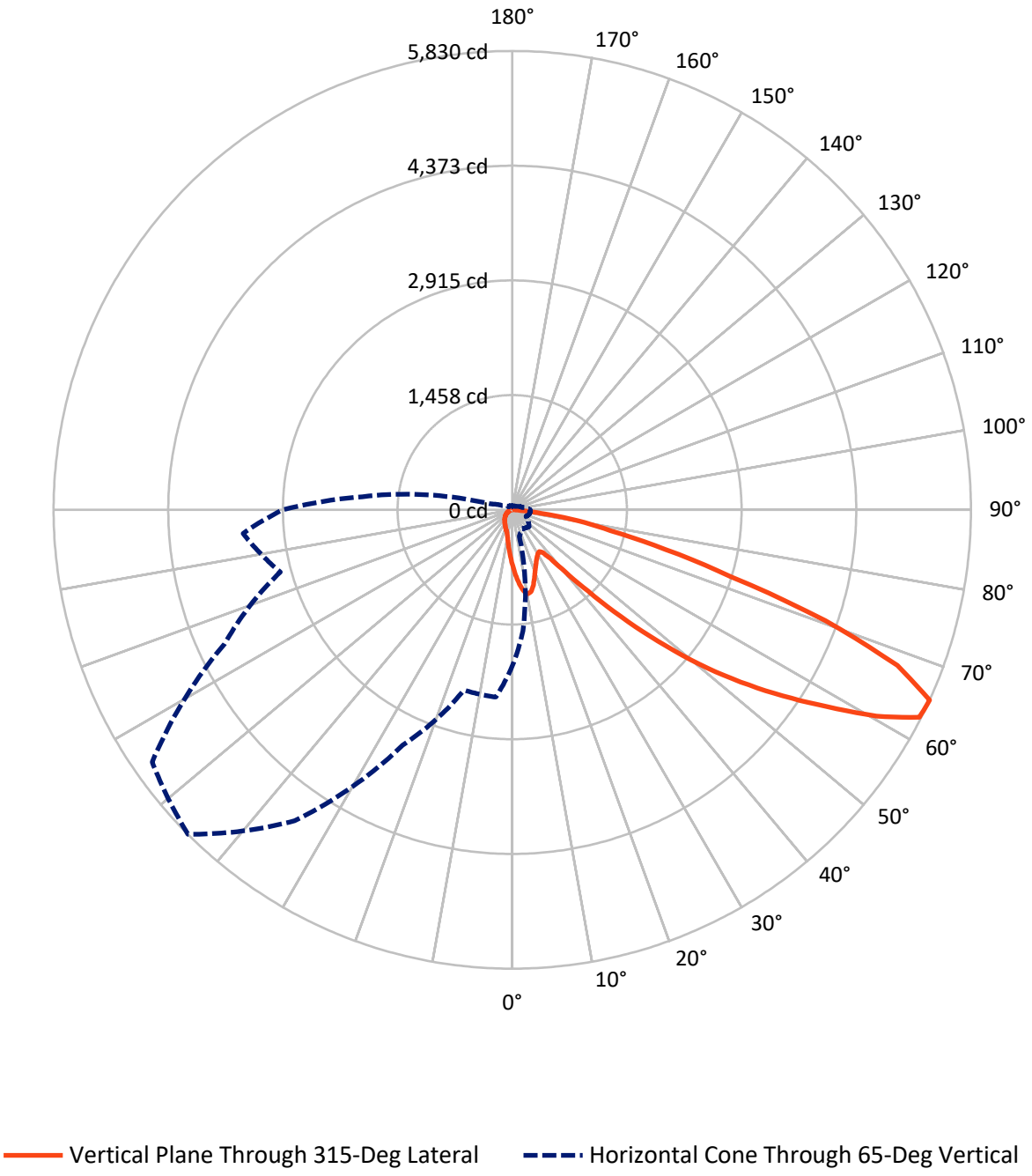
Based on 20 foot mounting height. Maximum calculated value = 2.2 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1364504
CATALOG NUMBER: GSS-SB1B-740-U-SLR-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

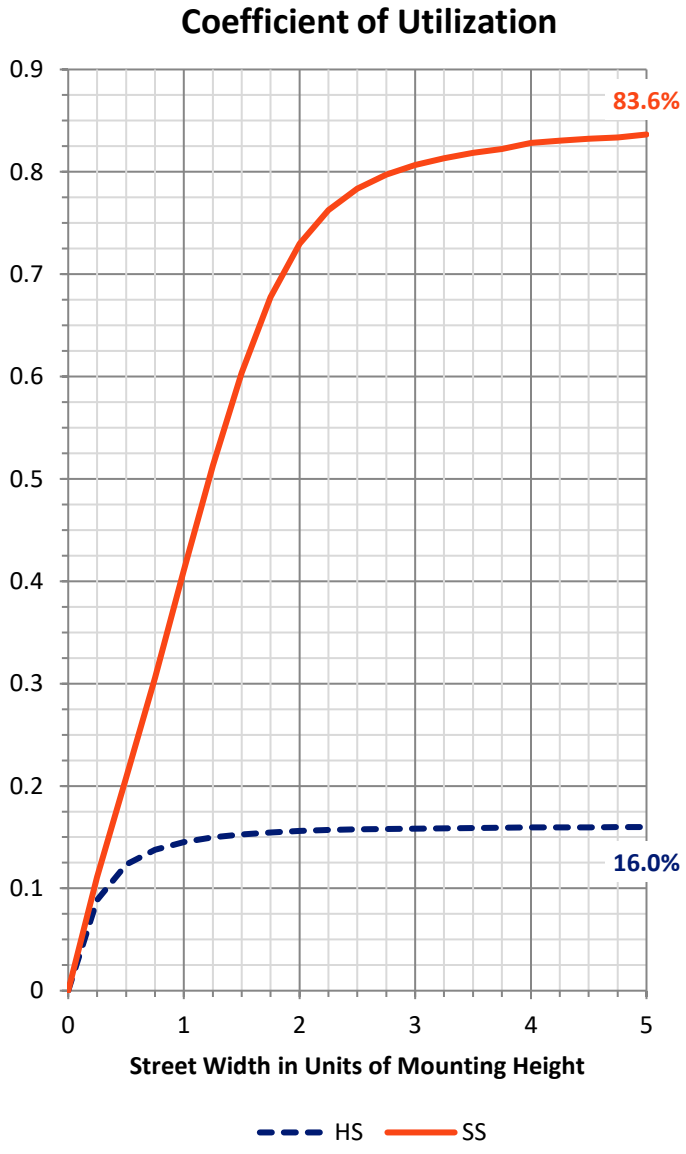
REPORT NUMBER: P1364504
CATALOG NUMBER: GSS-SB1B-740-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	663.2	0.0	663.2
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	3439.4	0.0	3439.4
	% Fixture	83.8	0.0	83.8
Total	Lumens	4102.6	0.0	4102.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	1.7
10°-20°	188.5	4.6
20°-30°	270.0	6.6
30°-40°	338.7	8.3
40°-50°	556.3	13.6
50°-60°	1003.9	24.5
60°-70°	1114.1	27.2
70°-80°	503.4	12.3
80°-90°	59.5	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4102.6	100.0
0°-180°	4102.6	100.0



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

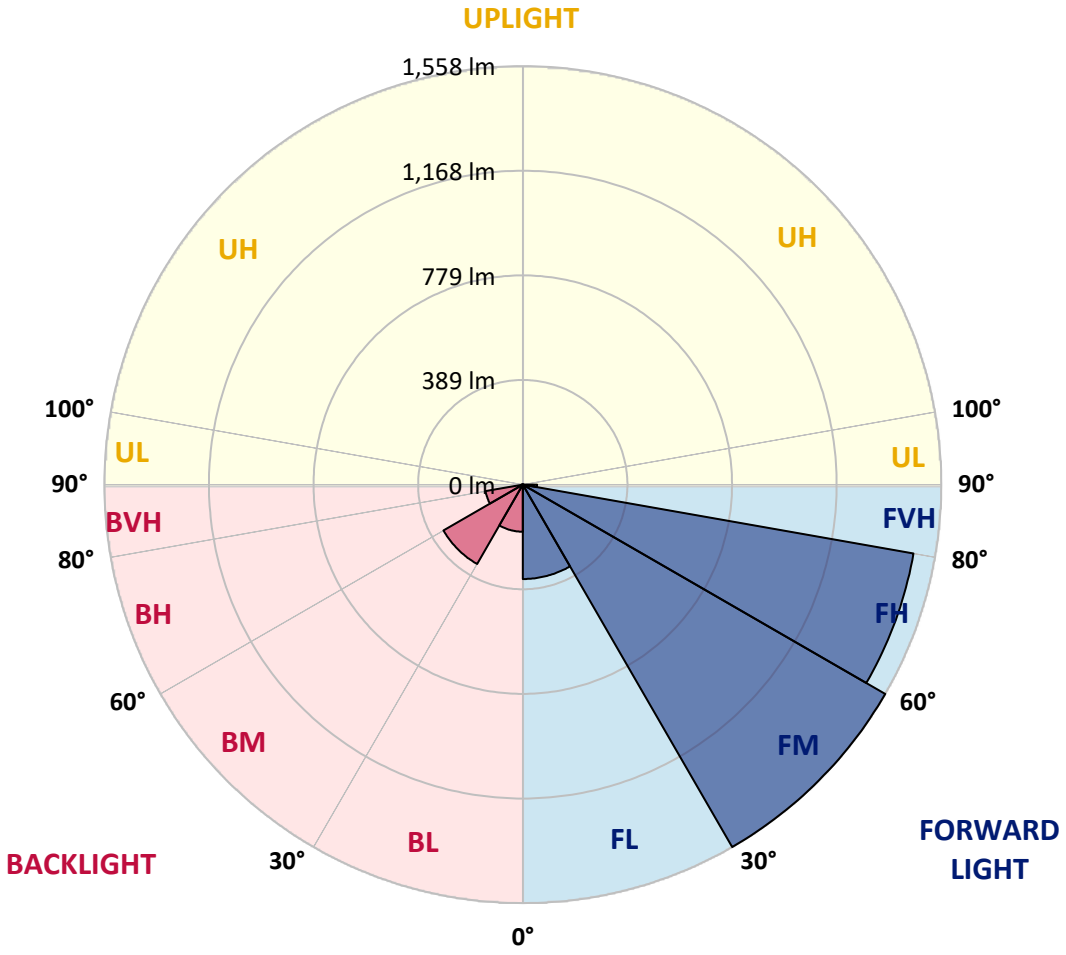
Scaled Data Report

REPORT NUMBER: P1364504
CATALOG NUMBER: GSS-SB1B-740-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	351.4	8.6			
FM	(30°-60°)	1557.9	38.0			
FH	(60°-80°)	1476.7	36.0			G1/1800
FVH	(80°-90°)	53.4	1.3			G1/100
BL	(0°-30°)	175.3	4.3	B1/500		
BM	(30°-60°)	341.0	8.3	B1/1000		
BH	(60°-80°)	140.8	3.4	B1/500		G1/500
BVH	(80°-90°)	6.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type III Short



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

Scaled Data Report

REPORT NUMBER: P1364504
CATALOG NUMBER: GSS-SB1B-740-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3
2.5°	800.0	799.2	796.2	777.3	758.4	742.0	725.6	709.3	686.6	668.9	653.8
5°	875.5	871.5	855.4	826.4	794.9	767.2	735.7	705.5	671.5	643.7	614.8
7.5°	927.2	923.2	907.0	859.2	811.3	777.3	743.3	711.8	674.0	637.4	595.9
10°	951.1	946.6	928.5	876.8	821.4	779.8	745.8	716.8	685.3	648.8	597.1
12.5°	967.5	962.0	939.8	880.6	823.9	782.3	747.0	719.3	696.7	675.2	624.8
15°	977.6	972.5	952.4	890.7	825.2	778.5	737.0	710.5	703.0	706.7	682.8
17.5°	992.7	987.9	968.8	903.3	832.7	772.2	715.6	686.6	703.0	737.0	744.5
20°	1012.9	1007.8	987.7	919.6	839.0	753.3	675.2	647.5	689.1	745.8	784.8
22.5°	1035.5	1031.5	1015.4	938.5	845.3	725.6	622.3	609.7	660.1	720.6	771.0
25°	1063.3	1059.5	1044.4	965.0	851.6	687.8	577.0	579.5	622.3	670.2	721.9
27.5°	1101.0	1097.5	1083.4	997.7	859.2	648.8	540.4	553.0	584.5	617.3	648.8
30°	1142.6	1139.8	1128.8	1036.8	874.3	612.3	519.0	526.6	548.0	574.5	593.4
32.5°	1199.3	1194.8	1176.6	1073.3	873.0	584.5	509.0	501.4	507.7	529.1	548.0
35°	1269.9	1266.3	1252.2	1111.1	850.3	559.3	503.9	477.5	473.7	486.3	505.2
37.5°	1373.2	1370.1	1358.0	1172.9	815.1	527.8	491.3	452.3	439.7	448.5	461.1
40°	1528.1	1520.3	1489.1	1243.4	776.0	496.4	468.6	422.0	404.4	410.7	424.5
42.5°	1738.5	1723.6	1664.2	1337.9	723.1	466.1	434.6	391.8	372.9	376.7	389.3
45°	2008.1	1985.7	1896.0	1467.6	667.7	442.2	399.3	360.3	340.1	343.9	357.8
47.5°	2323.0	2292.3	2169.3	1603.7	608.5	428.3	371.6	328.8	313.7	322.5	336.4
50°	2694.7	2663.7	2539.7	1690.6	560.6	419.5	350.2	299.8	293.5	304.9	316.2
52.5°	3100.3	3056.2	2879.9	1635.2	521.5	411.9	342.7	279.7	282.2	291.0	302.3
55°	3494.6	3396.6	3004.6	1451.3	471.2	403.1	347.7	264.6	270.9	282.2	291.0
57.5°	3751.6	3581.3	2900.0	1169.1	418.2	393.1	351.5	257.0	262.0	274.6	284.7
60°	3527.4	3356.0	2670.7	875.5	372.9	371.6	345.2	254.5	246.9	264.6	273.4
62.5°	2889.9	2748.8	2184.5	559.3	330.1	331.3	331.3	253.2	221.7	244.4	252.0
65°	*1985.4*	*1897.2*	*1544.5*	*346.4*	*269.6*	*282.2*	*301.1*	*245.7*	*195.3*	*221.7*	*229.3*
67.5°	1305.1	1240.4	981.4	214.2	207.9	231.8	260.8	230.5	175.1	199.0	204.1
70°	708.0	658.9	462.3	141.1	136.1	181.4	205.3	195.3	157.5	177.6	182.7
72.5°	467.4	427.1	265.8	99.5	99.5	142.4	143.6	160.0	141.1	157.5	162.5
75°	351.5	315.4	171.3	69.3	76.8	90.7	112.1	114.6	118.4	133.5	139.8
77.5°	161.3	141.6	63.0	41.6	56.7	63.0	85.7	73.1	88.2	99.5	102.0
80°	93.2	81.6	35.3	27.7	36.5	40.3	70.5	42.8	52.9	70.5	74.3
82.5°	39.1	34.8	17.6	18.9	22.7	23.9	39.1	30.2	34.0	46.6	45.4
85°	11.3	11.3	11.3	12.6	13.9	13.9	22.7	21.4	20.2	21.4	21.4
87.5°	7.6	7.6	7.6	7.6	8.8	8.8	10.1	11.3	12.6	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report

REPORT NUMBER: P1364504
CATALOG NUMBER: GSS-SB1B-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3
2.5°	647.5	638.7	627.4	611.0	608.5	599.7	593.4	599.7	606.0	617.3	618.6
5°	599.7	585.8	559.3	539.2	516.5	505.2	503.9	501.4	509.0	525.3	535.4
7.5°	573.2	550.5	502.7	467.4	435.9	424.5	415.7	423.3	422.0	443.4	452.3
10°	566.9	531.6	464.9	411.9	372.9	357.8	349.0	347.7	350.2	362.8	371.6
12.5°	589.6	544.2	449.7	371.6	326.3	309.9	299.8	291.0	291.0	293.5	304.9
15°	640.0	585.8	458.6	352.7	303.6	282.2	265.8	254.5	245.7	246.9	248.2
17.5°	710.5	646.3	481.2	346.4	289.7	267.1	246.9	235.6	225.5	223.0	223.0
20°	765.9	704.2	498.9	341.4	278.4	249.4	231.8	221.7	212.9	209.1	209.1
22.5°	772.2	728.2	514.0	335.1	264.6	231.8	215.4	206.6	200.3	199.0	199.0
25°	730.7	709.3	509.0	327.5	250.7	215.4	202.8	195.3	189.0	187.7	189.0
27.5°	661.4	650.0	491.3	317.5	239.4	202.8	191.5	185.2	178.9	177.6	178.9
30°	599.7	587.1	461.1	301.1	230.5	192.7	180.1	173.8	167.6	167.6	168.8
32.5°	549.3	536.7	430.8	282.2	219.2	181.4	170.1	163.8	157.5	157.5	160.0
35°	503.9	493.8	406.9	263.3	207.9	171.3	158.7	153.7	148.7	147.4	149.9
37.5°	464.9	459.8	385.5	243.1	196.5	161.3	149.9	144.9	138.6	137.3	139.8
40°	427.1	424.5	361.6	225.5	182.7	151.2	139.8	134.8	127.2	127.2	129.8
42.5°	391.8	390.5	340.1	214.2	170.1	141.1	128.5	123.5	117.2	117.2	119.7
45°	364.1	362.8	320.0	207.9	157.5	129.8	118.4	112.1	107.1	108.3	110.9
47.5°	338.9	336.4	298.6	209.1	151.2	122.2	107.1	100.8	97.0	99.5	103.3
50°	318.7	316.2	283.4	210.4	141.1	112.1	98.3	92.0	89.4	93.2	97.0
52.5°	306.1	303.6	268.3	202.8	128.5	104.6	89.4	85.7	85.7	89.4	92.0
55°	293.5	291.0	243.1	186.4	114.6	97.0	83.1	80.6	80.6	84.4	86.9
57.5°	286.0	280.9	216.7	167.6	103.3	88.2	76.8	76.8	76.8	78.1	79.4
60°	274.6	262.0	189.0	143.6	94.5	79.4	71.8	70.5	70.5	69.3	70.5
62.5°	250.7	229.3	158.7	122.2	84.4	71.8	65.5	64.2	60.5	56.7	57.9
65°	*226.8*	*194.0*	*126.0*	*102.0*	*73.1*	*61.7*	*57.9*	*56.7*	*50.4*	*45.4*	*46.6*
67.5°	196.5	155.0	94.5	85.7	63.0	52.9	49.1	49.1	45.4	41.6	41.6
70°	175.1	120.9	79.4	64.2	50.4	41.6	41.6	44.1	40.3	35.3	35.3
72.5°	155.0	98.3	64.2	51.7	39.1	32.8	35.3	36.5	32.8	29.0	29.0
75°	132.3	76.8	50.4	40.3	29.0	25.2	26.5	29.0	26.5	22.7	23.9
77.5°	95.7	52.9	34.0	26.5	21.4	18.9	20.2	20.2	18.9	17.6	17.6
80°	66.8	35.3	22.7	17.6	15.1	13.9	13.9	12.6	12.6	13.9	13.9
82.5°	40.3	25.2	16.4	13.9	11.3	8.8	8.8	10.1	10.1	11.3	11.3
85°	17.6	15.1	11.3	10.1	7.6	6.3	7.6	7.6	8.8	10.1	10.1
87.5°	11.3	11.3	8.8	7.6	6.3	5.0	5.0	6.3	6.3	7.6	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report

REPORT NUMBER: P1364504
CATALOG NUMBER: GSS-SB1B-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3
2.5°	623.6	636.2	651.3	672.7	691.6	714.3	737.0	758.4	778.5	781.1	789.9
5°	543.0	566.9	597.1	632.4	675.2	720.6	764.7	811.3	849.1	862.9	883.1
7.5°	459.8	490.1	534.1	588.3	648.8	716.8	784.8	850.3	907.0	933.5	960.0
10°	380.5	409.4	463.6	529.1	607.2	699.2	789.9	878.1	947.4	977.6	1002.8
12.5°	308.6	337.6	381.7	457.3	551.8	662.6	782.3	888.1	965.0	996.5	1020.4
15°	252.0	275.9	317.5	388.0	487.5	612.3	755.9	880.6	968.8	999.0	1016.6
17.5°	221.7	228.0	254.5	318.7	427.1	566.9	721.9	870.5	971.3	999.0	1009.1
20°	209.1	209.1	214.2	248.2	354.0	519.0	696.7	864.2	975.1	1002.8	1001.5
22.5°	197.8	200.3	200.3	207.9	269.6	452.3	670.2	861.7	986.4	1007.8	990.2
25°	187.7	191.5	191.5	194.0	211.6	372.9	637.4	866.7	1006.6	1017.9	982.6
27.5°	178.9	182.7	182.7	185.2	189.0	277.2	583.3	868.0	1029.2	1030.5	972.5
30°	170.1	173.8	176.4	176.4	178.9	204.1	515.2	860.4	1054.4	1046.9	971.3
32.5°	160.0	165.0	166.3	168.8	170.1	177.6	427.1	847.8	1085.9	1069.6	972.5
35°	151.2	157.5	158.7	158.7	161.3	168.8	341.4	834.0	1128.8	1099.8	977.6
37.5°	142.4	147.4	148.7	149.9	152.4	160.0	270.9	813.8	1165.3	1137.6	1002.8
40°	132.3	138.6	139.8	141.1	143.6	151.2	233.1	788.6	1220.7	1200.6	1040.6
42.5°	122.2	128.5	131.0	132.3	133.5	143.6	212.9	771.0	1310.2	1288.8	1117.4
45°	113.4	119.7	122.2	122.2	124.7	138.6	195.3	810.0	1433.6	1423.5	1220.7
47.5°	105.8	112.1	113.4	113.4	114.6	131.0	180.1	914.6	1622.6	1596.1	1382.0
50°	99.5	104.6	107.1	104.6	105.8	124.7	189.0	1087.2	1864.5	1873.3	1618.8
52.5°	94.5	99.5	100.8	95.7	95.7	115.9	200.3	1228.3	2173.1	2253.7	1994.2
55°	88.2	93.2	94.5	88.2	88.2	102.0	173.8	1237.1	2524.6	2784.1	2483.0
57.5°	81.9	86.9	86.9	81.9	80.6	88.2	141.1	1097.3	2796.7	3385.0	3152.0
60°	74.3	79.4	78.1	75.6	73.1	80.6	129.8	836.5	2760.2	3776.8	3919.2
62.5°	60.5	68.0	70.5	69.3	64.2	73.1	120.9	545.5	2388.5	3436.7	3895.2
65°	*50.4*	*56.7*	*60.5*	*60.5*	*56.7*	*80.6*	*105.8*	*287.2*	*1912.3*	*2916.4*	*3434.2*
67.5°	44.1	50.4	52.9	51.7	49.1	71.8	66.8	138.6	1466.4	2513.3	3073.9
70°	39.1	44.1	46.6	42.8	40.3	57.9	47.9	81.9	981.4	2097.5	2737.5
72.5°	31.5	36.5	39.1	35.3	31.5	42.8	36.5	54.2	638.7	1787.6	2432.6
75°	25.2	30.2	31.5	29.0	25.2	31.5	29.0	37.8	417.0	1479.0	2068.6
77.5°	18.9	21.4	23.9	22.7	18.9	22.7	20.2	26.5	238.1	1038.1	1451.3
80°	15.1	16.4	16.4	16.4	15.1	13.9	13.9	17.6	107.1	511.5	757.1
82.5°	12.6	13.9	13.9	12.6	11.3	10.1	8.8	10.1	31.5	229.3	349.0
85°	11.3	12.6	10.1	8.8	7.6	6.3	3.8	3.8	8.8	36.5	68.0
87.5°	8.8	7.6	6.3	5.0	2.5	1.3	1.3	0.0	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report

REPORT NUMBER: P1364504
CATALOG NUMBER: GSS-SB1B-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	709.3	709.3	709.3	*709.3*	709.3	709.3	709.3	709.3	709.3	709.3
2.5°	803.7	816.3	825.2	*832.7*	830.2	823.9	811.3	802.5	800.5	800.0
5°	909.6	929.7	947.4	*944.8*	947.4	928.5	909.6	886.9	877.8	875.5
7.5°	997.7	1022.9	1044.4	*1041.8*	1034.3	1012.9	981.4	947.4	931.2	927.2
10°	1045.6	1074.6	1092.2	*1085.9*	1073.3	1045.6	1014.1	973.8	955.7	951.1
12.5°	1054.4	1073.3	1069.6	*1067.0*	1064.5	1050.7	1026.7	990.2	972.0	967.5
15°	1031.8	1024.2	1002.8	*997.7*	1016.6	1034.3	1029.2	999.0	981.9	977.6
17.5°	994.0	954.9	915.9	*910.8*	942.3	991.4	1030.5	1012.9	996.7	992.7
20°	952.4	879.3	836.5	*827.7*	866.7	939.8	1016.6	1026.7	1015.6	1012.9
22.5°	903.3	817.6	772.2	*767.2*	796.2	881.8	996.5	1041.8	1036.8	1035.5
25°	860.4	763.4	720.6	*713.0*	750.8	834.0	976.3	1067.0	1064.0	1063.3
27.5°	825.2	724.4	679.0	*674.0*	710.5	793.7	951.1	1088.4	1098.5	1101.0
30°	797.4	695.4	650.0	*643.7*	684.1	765.9	933.5	1118.7	1137.8	1142.6
32.5°	776.0	679.0	636.2	*632.4*	675.2	754.6	923.4	1150.2	1189.5	1199.3
35°	768.5	684.1	655.1	*663.9*	696.7	765.9	931.0	1201.8	1256.2	1269.9
37.5°	784.8	739.5	759.6	*782.3*	794.9	820.1	966.2	1285.0	1355.5	1373.2
40°	837.8	888.1	982.6	*1026.7*	1021.7	963.7	1046.9	1402.1	1502.9	1528.1
42.5°	972.5	1136.3	1336.6	*1411.0*	1368.1	1193.0	1175.4	1594.9	1709.8	1738.5
45°	1172.9	1436.1	1764.9	*1932.5*	1785.1	1484.0	1378.2	1869.5	1980.4	2008.1
47.5°	1373.2	1771.2	2294.1	*2493.1*	2203.4	1772.5	1644.0	2198.3	2298.1	2323.0
50°	1577.2	2141.6	2821.9	*3087.7*	2620.3	2066.0	1926.2	2604.0	2676.5	2694.7
52.5°	1787.6	2472.9	3403.9	*3633.2*	3056.2	2292.8	2248.7	3046.1	3089.5	3100.3
55°	2021.9	2786.6	3987.2	*4172.4*	3453.0	2490.6	2626.6	3508.5	3497.4	3494.6
57.5°	2334.4	3116.7	4457.1	*4715.3*	3813.3	2757.7	3131.8	4022.5	3805.8	3751.6
60°	2879.9	3629.4	5041.6	*5322.6*	4295.8	3148.2	3503.4	4011.1	3624.1	3527.4
62.5°	3512.3	4123.3	5570.7	*5807.6*	4803.5	3536.2	3207.4	3368.6	2985.7	2889.9
65°	*3051.2*	*4036.3*	*5587.1*	*5830.2*	*4822.4*	*3299.4*	*2370.9*	*2388.5*	*2066.0*	*1985.4*
67.5°	2596.4	3577.8	5088.2	*5279.7*	4302.1	2727.4	1572.2	1558.3	1355.8	1305.1
70°	2311.7	3134.3	4385.3	*4220.3*	3616.8	2305.4	1044.4	865.5	739.5	708.0
72.5°	2077.4	2486.8	3553.8	*2908.8*	3000.8	1875.8	663.9	589.6	491.8	467.4
75°	1880.8	2057.2	2217.2	*2010.6*	2131.5	1545.7	563.1	454.8	372.1	351.5
77.5°	1496.6	1601.2	1312.7	*1274.9*	1492.8	1099.8	279.7	191.5	167.3	161.3
80°	890.7	757.1	744.5	*849.1*	994.0	570.7	171.3	105.8	95.7	93.2
82.5°	539.2	273.4	297.3	*375.4*	529.1	259.5	102.0	45.4	40.3	39.1
85°	90.7	74.3	114.6	*109.6*	103.3	55.4	27.7	12.6	11.6	11.3
87.5°	2.5	3.8	5.0	*6.3*	6.3	6.3	6.3	6.3	7.3	7.6
90°	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

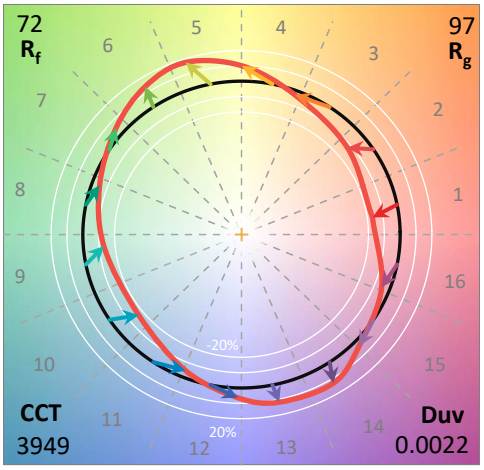
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-1
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	10/15/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGraw-Edison
Catalog Number:	**GSS-SB1A-740-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949
CIE u':	0.2248
CIE v':	0.5053
Duv:	0.0022
CIE x:	0.3844
CIE y:	0.3840
CIE z:	0.2316
Peak Wavelength (nm):	440
Dominant Wavelength (nm):	578
Purity:	30.60026
Rf:	71.8
Rg:	96.5

CRI (Ra):	70.7
R1:	68.0
R2:	76.0
R3:	84.3
R4:	72.0
R5:	68.6
R6:	68.3
R7:	77.9
R8:	50.3
R9:	-36.7
R10:	45.1
R11:	70.7
R12:	47.1
R13:	68.5
R14:	91.1
R15:	58.7



Test Conditions

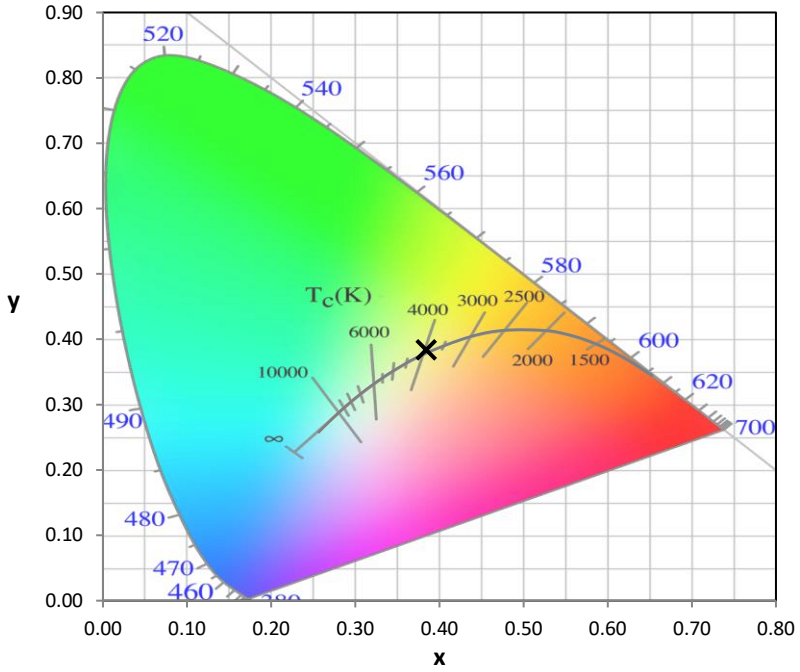
Stabilization Time:	34M
Operation Time:	1H 34M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-1

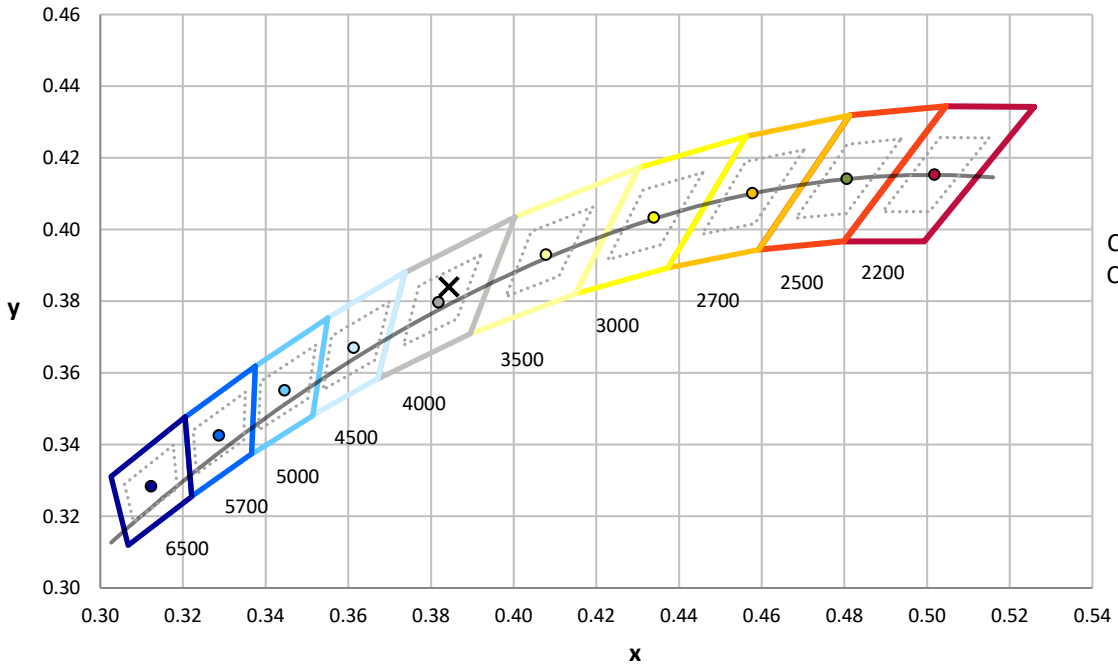
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



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

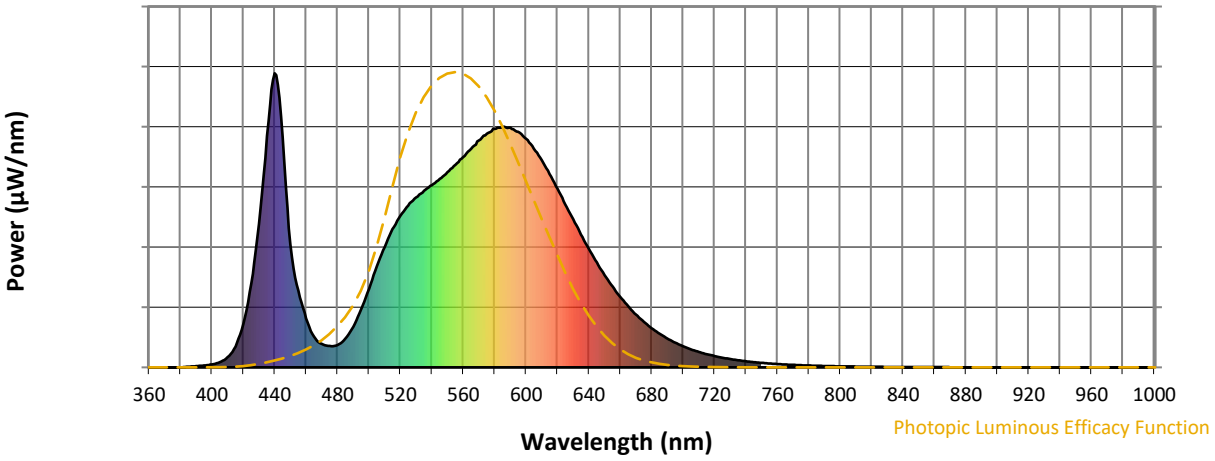


CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

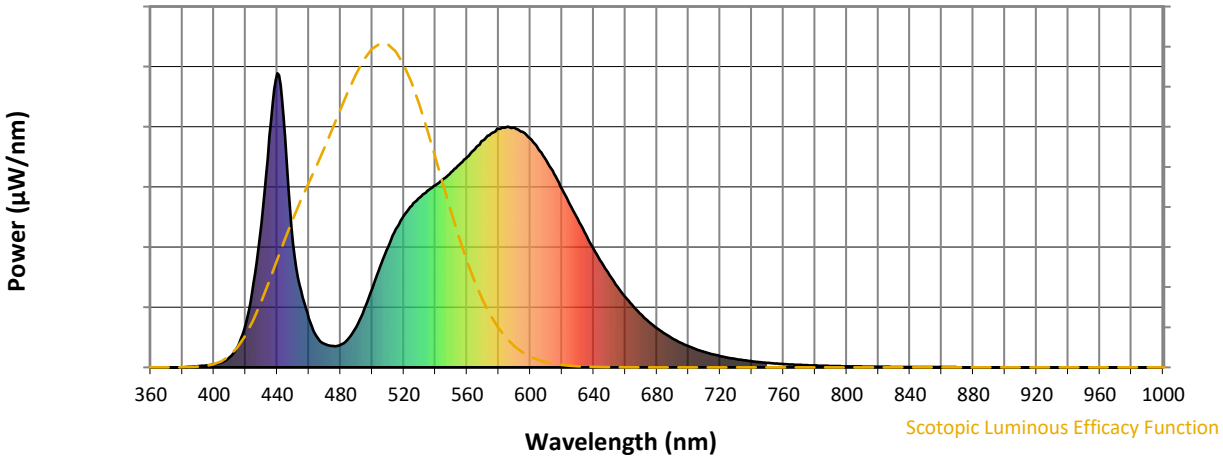


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength

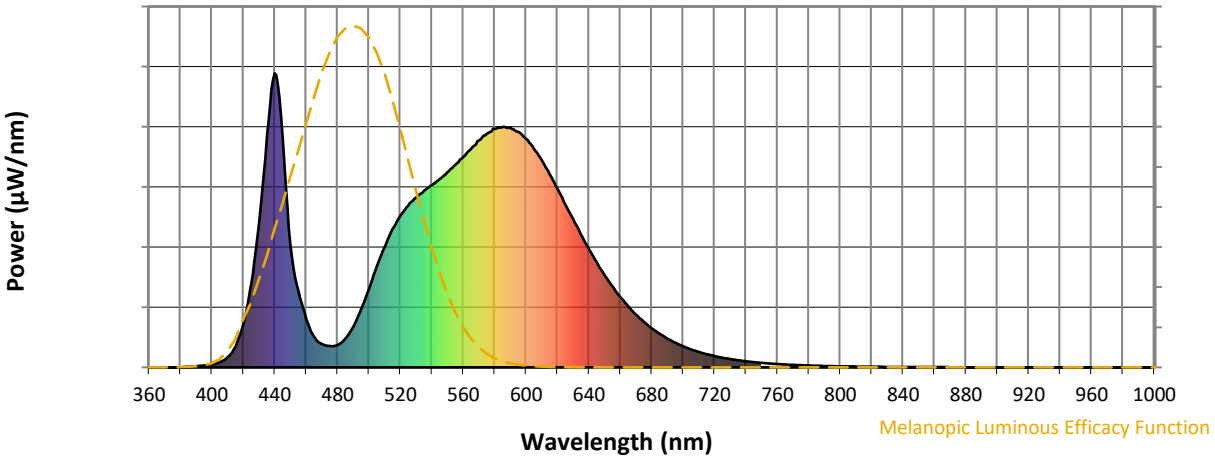


Scotopic Lumens: NR **S/P: 1.47**

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.78**

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

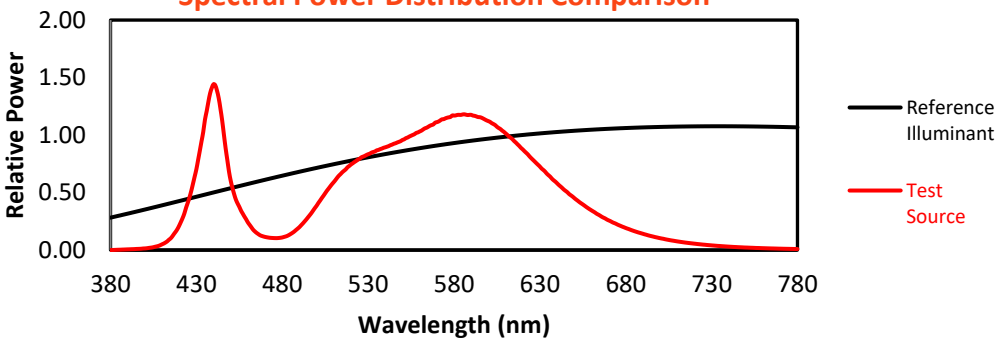
REPORT NUMBER: SP1-2407-184-1

TM-30-18

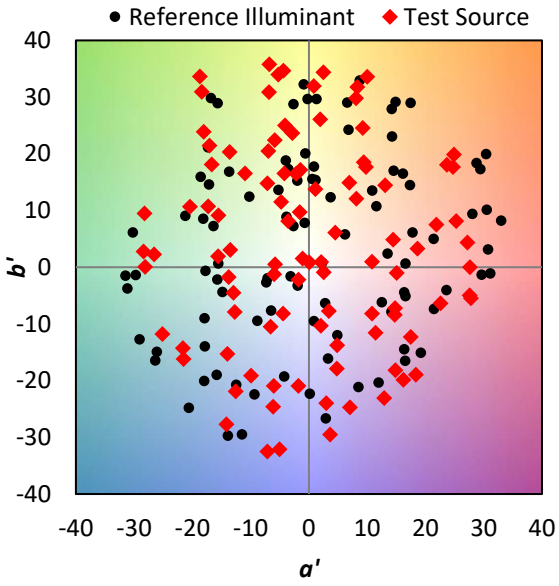
Summary

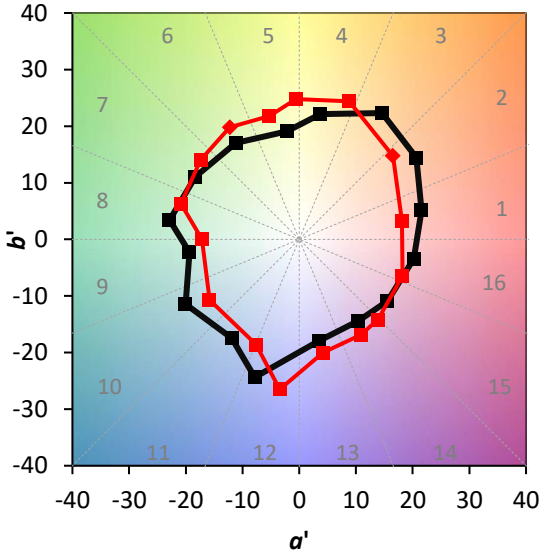
R_f = 71.8
R_g = 96.5
CIE R_a = 70.7
R_9 = -36.7

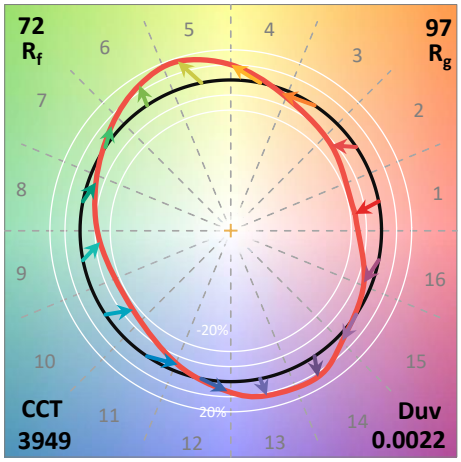
Spectral Power Distribution Comparison

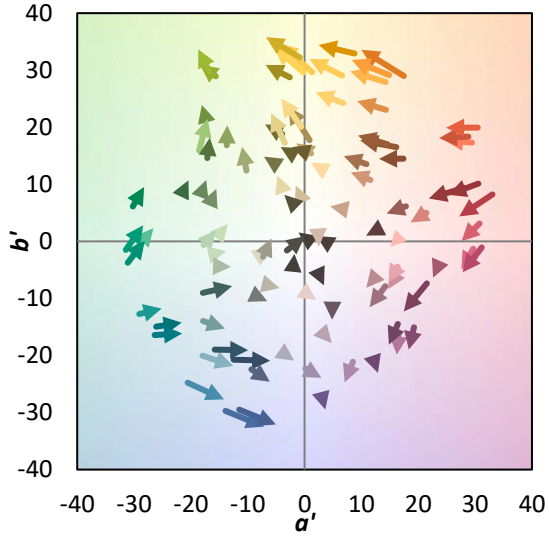


Color Vector Graphics







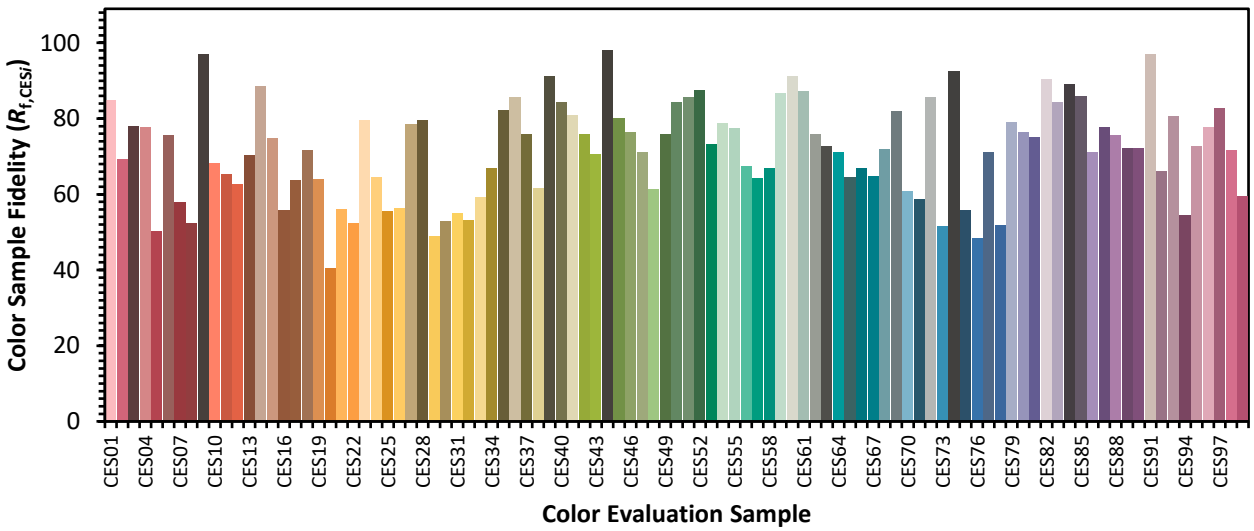


REPORT NUMBER: SP1-2407-184-1

TM-30-18

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

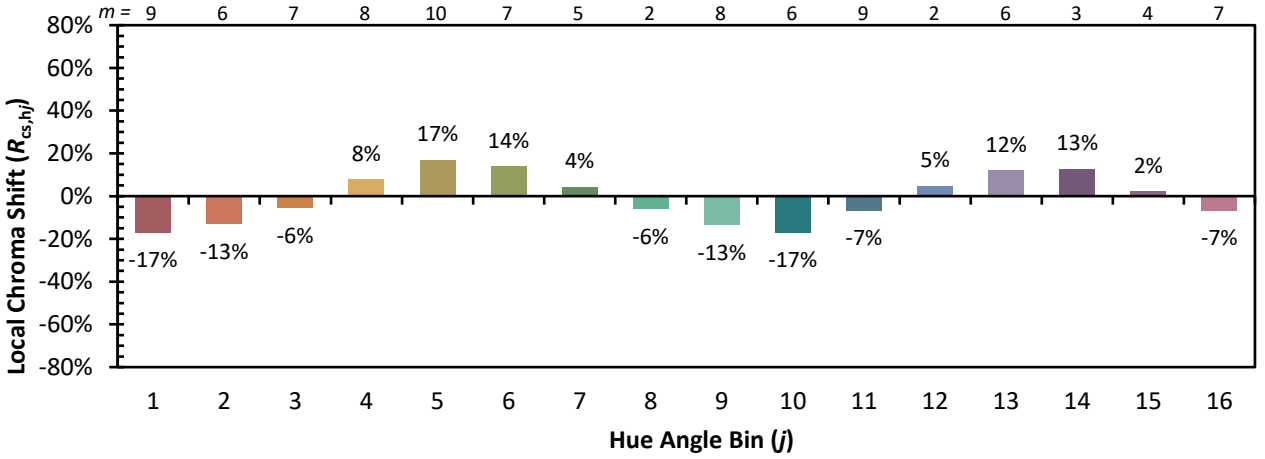
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	

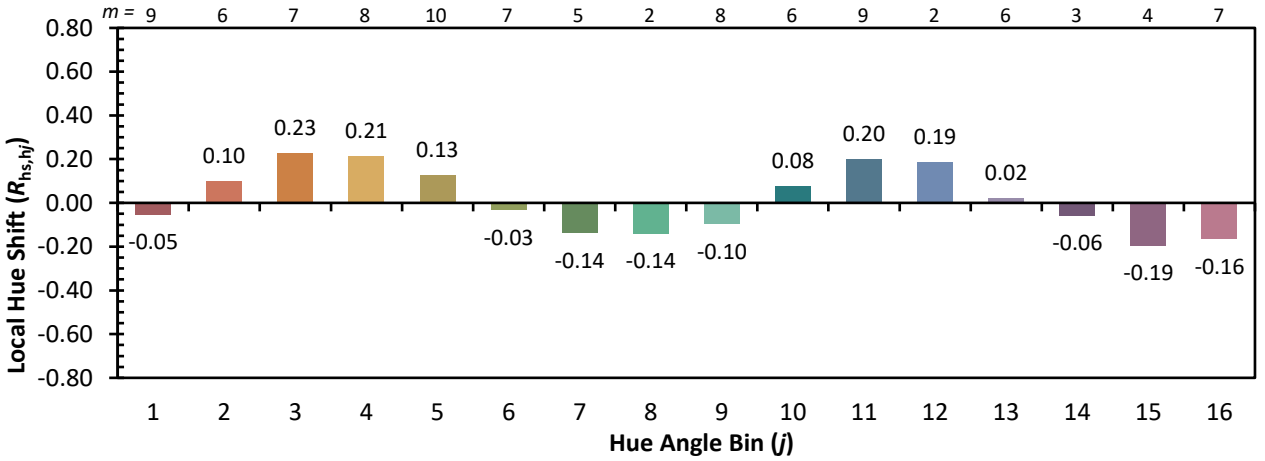


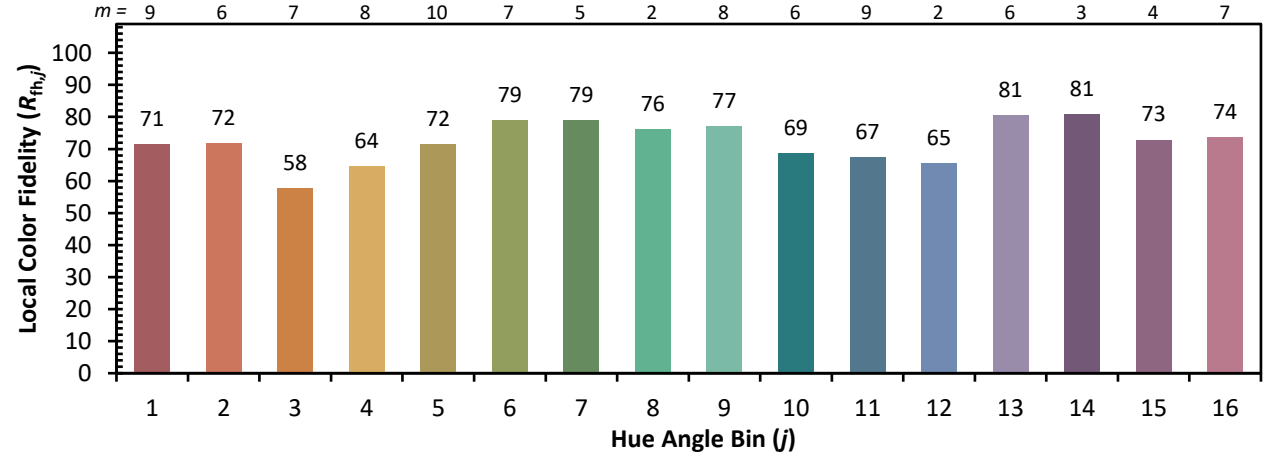
REPORT NUMBER: SP1-2407-184-1

TM-30-18

Color Rendition by Hue-Angle Bin



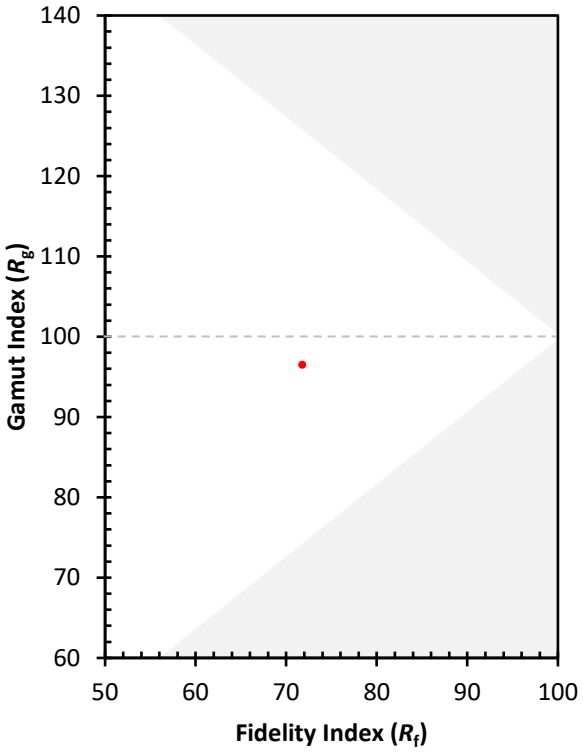


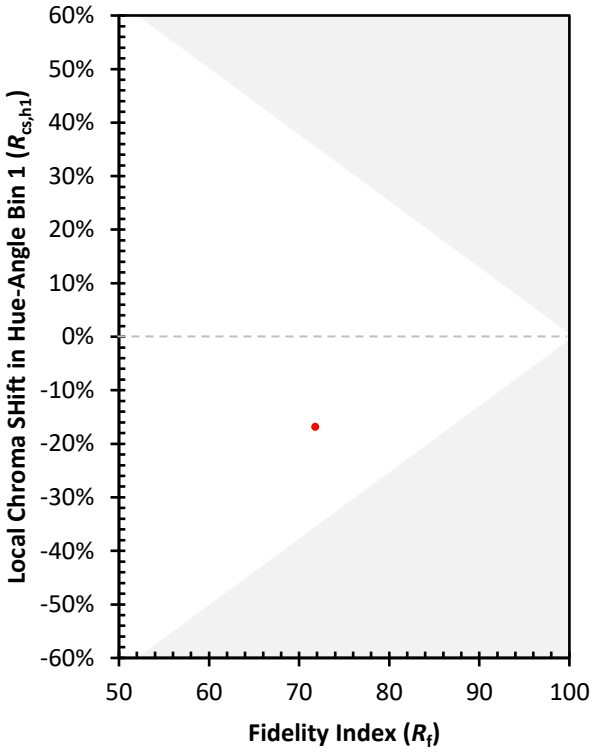


REPORT NUMBER: SP1-2407-184-1

TM-30-18

Measure Comparisons





(END OF REPORT)