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: P1364575

Luminaire Tested: **GSS-SB1A-730-U-SLR-HSS**

Issue Date: 02/18/2026

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1364575
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	02/18/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB1A-730-U-SLR-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 1SQUARE 31W 70CRI 3000K FIXTURE w/ 90° Spill Light Eliminator RIGHT OPTIC AND HOUSE SIDE SHIELD
Light Source:	(26) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3077.5 lumens
Efficiency:	N/A
Efficacy:	99.3 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

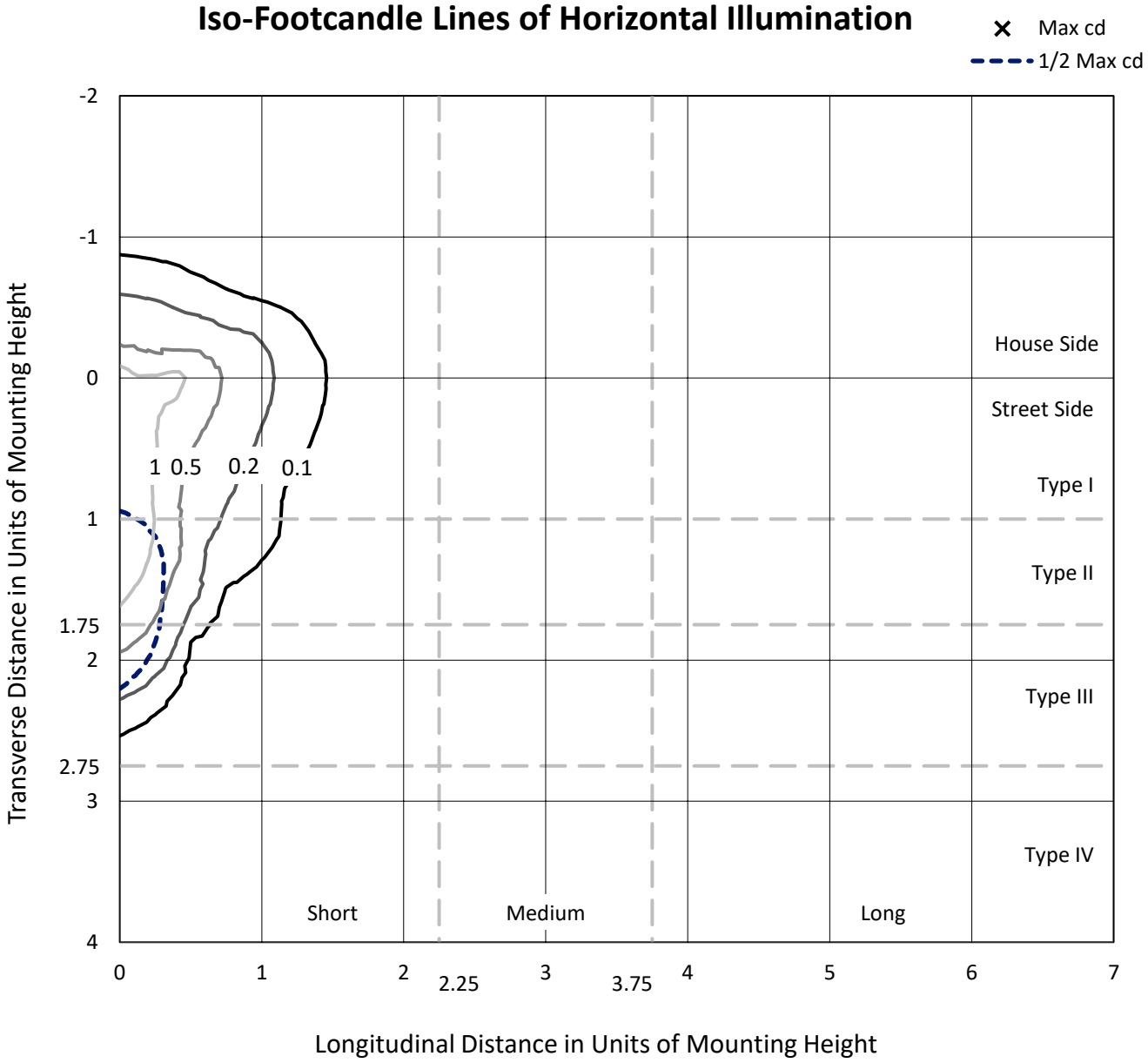
Input Watts (W):	31
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	6.4%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



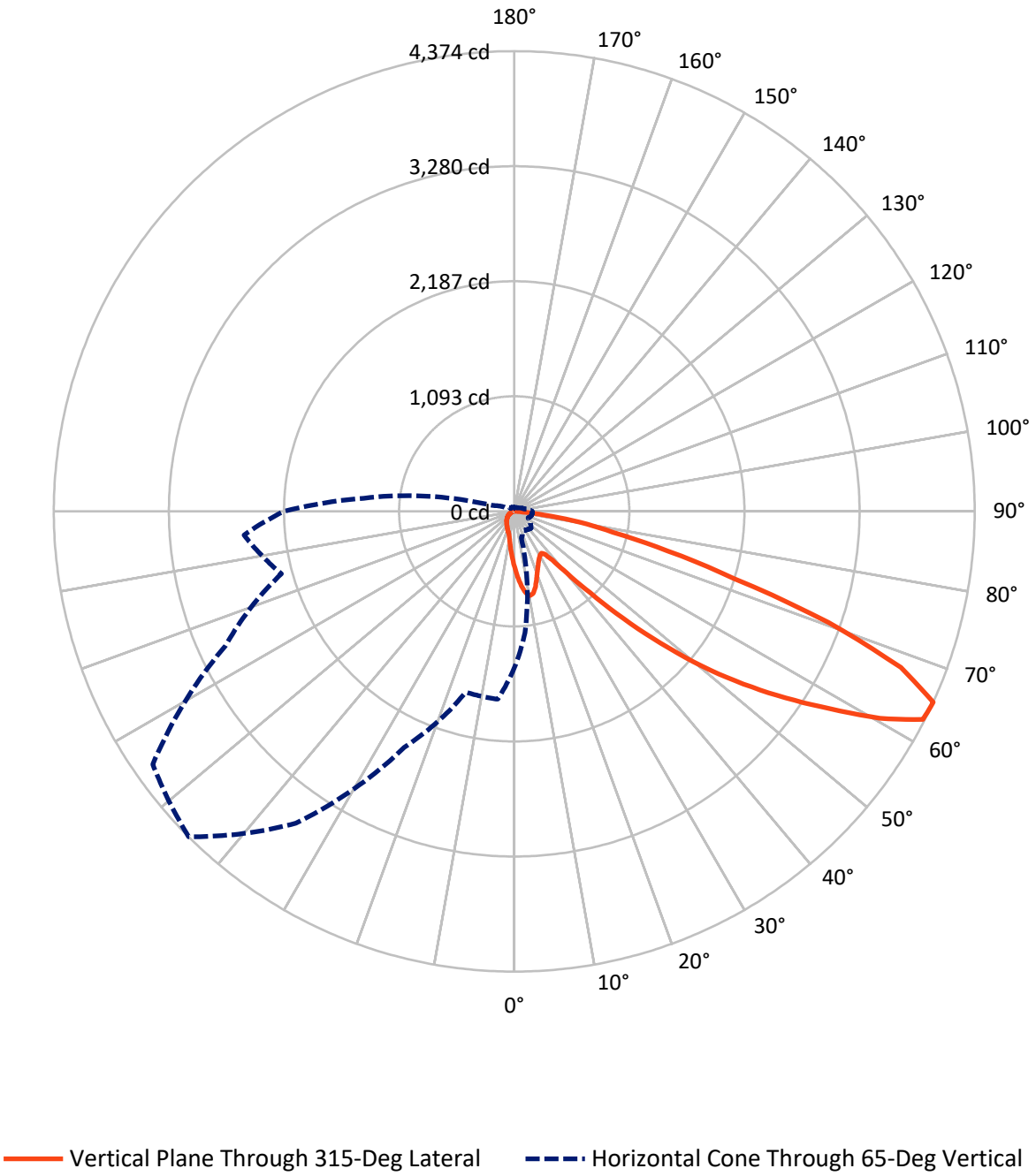
Based on 20 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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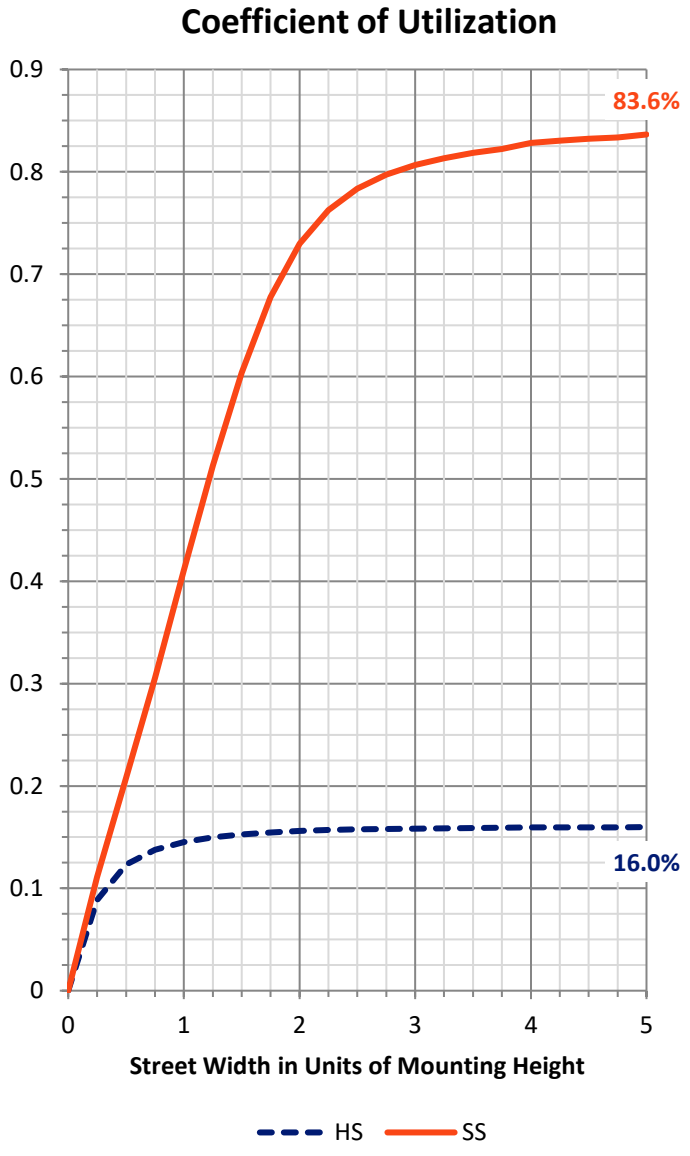
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	497.5	0.0	497.5
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	2580.0	0.0	2580.0
	% Fixture	83.8	0.0	83.8
Total	Lumens	3077.5	0.0	3077.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	1.7
10°-20°	141.4	4.6
20°-30°	202.5	6.6
30°-40°	254.0	8.3
40°-50°	417.3	13.6
50°-60°	753.1	24.5
60°-70°	835.8	27.2
70°-80°	377.6	12.3
80°-90°	44.6	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°	3077.5	100.0
0°-180°	3077.5	100.0



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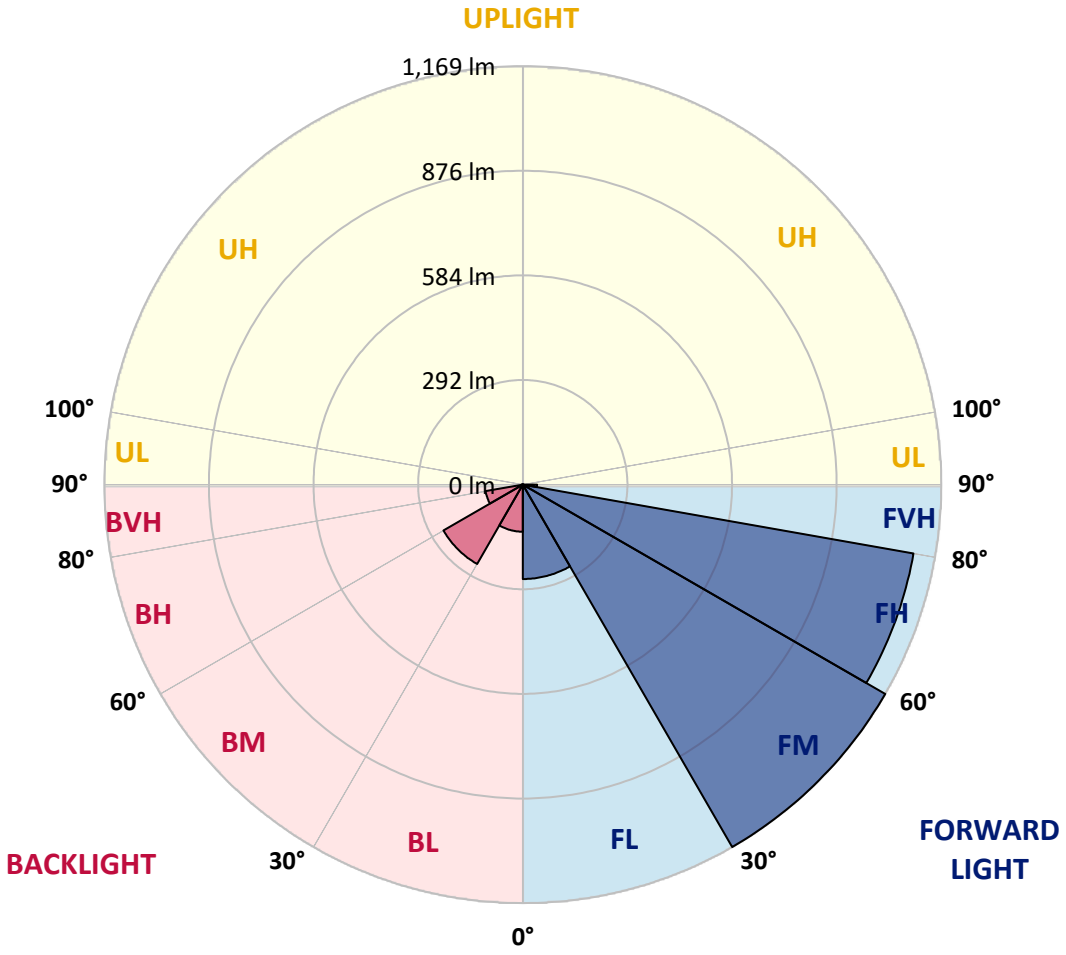
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	263.6	8.6			
FM	(30°-60°)	1168.6	38.0			
FH	(60°-80°)	1107.7	36.0			G1/1800
FVH	(80°-90°)	40.1	1.3			G1/100
BL	(0°-30°)	131.5	4.3	B1/500		
BM	(30°-60°)	255.8	8.3	B1/1000		
BH	(60°-80°)	105.7	3.4	B0/110		G0/110
BVH	(80°-90°)	4.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
2.5°	600.1	599.5	597.2	583.1	568.9	556.6	544.3	532.0	515.0	501.8	490.5
5°	656.8	653.8	641.7	619.9	596.3	575.5	551.9	529.2	503.7	482.9	461.2
7.5°	695.5	692.5	680.4	644.5	608.6	583.1	557.6	533.9	505.6	478.2	447.0
10°	713.5	710.1	696.5	657.7	616.1	585.0	559.4	537.7	514.1	486.7	447.9
12.5°	725.8	721.6	705.0	660.6	618.0	586.8	560.4	539.6	522.6	506.5	468.7
15°	733.3	729.5	714.4	668.1	619.0	584.0	552.8	533.0	527.3	530.1	512.2
17.5°	744.7	741.1	726.7	677.6	624.6	579.3	536.8	515.0	527.3	552.8	558.5
20°	759.8	756.0	740.9	689.9	629.4	565.1	506.5	485.7	516.9	559.4	588.7
22.5°	776.8	773.8	761.7	704.0	634.1	544.3	466.8	457.4	495.2	540.5	578.3
25°	797.6	794.7	783.4	723.9	638.8	516.0	432.8	434.7	466.8	502.7	541.5
27.5°	825.9	823.3	812.7	748.4	644.5	486.7	405.4	414.9	438.5	463.1	486.7
30°	857.1	855.0	846.7	777.7	655.8	459.3	389.3	395.0	411.1	430.9	445.1
32.5°	899.6	896.2	882.6	805.1	654.9	438.5	381.8	376.1	380.8	396.9	411.1
35°	952.6	949.9	939.3	833.5	637.9	419.6	378.0	358.2	355.3	364.8	378.9
37.5°	1030.1	1027.8	1018.7	879.8	611.4	396.0	368.6	339.3	329.8	336.4	345.9
40°	1146.3	1140.4	1117.0	932.7	582.1	372.3	351.5	316.6	303.3	308.1	318.5
42.5°	1304.1	1293.0	1248.4	1003.6	542.4	349.7	326.0	293.9	279.7	282.6	292.0
45°	1506.3	1489.5	1422.2	1100.9	500.9	331.7	299.6	270.3	255.2	258.0	268.4
47.5°	1742.6	1719.5	1627.3	1203.0	456.4	321.3	278.8	246.6	235.3	241.9	252.3
50°	2021.4	1998.1	1905.1	1268.2	420.5	314.7	262.7	224.9	220.2	228.7	237.2
52.5°	2325.7	2292.6	2160.3	1226.6	391.2	309.0	257.0	209.8	211.7	218.3	226.8
55°	2621.4	2547.9	2253.8	1088.6	353.4	302.4	260.8	198.5	203.2	211.7	218.3
57.5°	2814.2	2686.5	2175.4	877.0	313.7	294.8	263.7	192.8	196.6	206.0	213.6
60°	2646.0	2517.5	2003.4	656.8	279.7	278.8	258.9	190.9	185.2	198.5	205.1
62.5°	2167.8	2062.0	1638.6	419.6	247.6	248.5	248.5	189.9	166.3	183.3	189.0
65°	*1489.3*	*1423.2*	*1158.6*	*259.9*	*202.2*	*211.7*	*225.9*	*184.3*	*146.5*	*166.3*	*172.0*
67.5°	979.0	930.5	736.2	160.7	155.9	173.9	195.6	172.9	131.4	149.3	153.1
70°	531.1	494.2	346.8	105.8	102.1	136.1	154.0	146.5	118.1	133.2	137.0
72.5°	350.6	320.4	199.4	74.7	74.7	106.8	107.7	120.0	105.8	118.1	121.9
75°	263.7	236.6	128.5	52.0	57.6	68.0	84.1	86.0	88.8	100.2	104.9
77.5°	121.0	106.2	47.3	31.2	42.5	47.3	64.3	54.8	66.2	74.7	76.5
80°	69.9	61.2	26.5	20.8	27.4	30.2	52.9	32.1	39.7	52.9	55.8
82.5°	29.3	26.1	13.2	14.2	17.0	18.0	29.3	22.7	25.5	35.0	34.0
85°	8.5	8.5	8.5	9.5	10.4	10.4	17.0	16.1	15.1	16.1	16.1
87.5°	5.7	5.7	5.7	5.7	6.6	6.6	7.6	8.5	9.5	9.5	9.5
90°	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°	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
2.5°	485.7	479.1	470.6	458.3	456.4	449.8	445.1	449.8	454.5	463.1	464.0
5°	449.8	439.4	419.6	404.5	387.5	378.9	378.0	376.1	381.8	394.1	401.6
7.5°	430.0	413.0	377.1	350.6	327.0	318.5	311.9	317.5	316.6	332.6	339.3
10°	425.3	398.8	348.7	309.0	279.7	268.4	261.8	260.8	262.7	272.2	278.8
12.5°	442.3	408.2	337.4	278.8	244.8	232.5	224.9	218.3	218.3	220.2	228.7
15°	480.1	439.4	344.0	264.6	227.7	211.7	199.4	190.9	184.3	185.2	186.2
17.5°	533.0	484.8	361.0	259.9	217.4	200.3	185.2	176.7	169.2	167.3	167.3
20°	574.6	528.3	374.2	256.1	208.8	187.1	173.9	166.3	159.7	156.9	156.9
22.5°	579.3	546.2	385.6	251.4	198.5	173.9	161.6	155.0	150.3	149.3	149.3
25°	548.1	532.0	381.8	245.7	188.1	161.6	152.1	146.5	141.8	140.8	141.8
27.5°	496.1	487.6	368.6	238.1	179.6	152.1	143.6	138.9	134.2	133.2	134.2
30°	449.8	440.4	345.9	225.9	172.9	144.6	135.1	130.4	125.7	125.7	126.6
32.5°	412.0	402.6	323.2	211.7	164.4	136.1	127.6	122.9	118.1	118.1	120.0
35°	378.0	370.4	305.2	197.5	155.9	128.5	119.1	115.3	111.5	110.6	112.5
37.5°	348.7	344.9	289.2	182.4	147.4	121.0	112.5	108.7	104.0	103.0	104.9
40°	320.4	318.5	271.2	169.2	137.0	113.4	104.9	101.1	95.4	95.4	97.3
42.5°	293.9	293.0	255.2	160.7	127.6	105.8	96.4	92.6	87.9	87.9	89.8
45°	273.1	272.2	240.0	155.9	118.1	97.3	88.8	84.1	80.3	81.3	83.2
47.5°	254.2	252.3	224.0	156.9	113.4	91.7	80.3	75.6	72.8	74.7	77.5
50°	239.1	237.2	212.6	157.8	105.8	84.1	73.7	69.0	67.1	69.9	72.8
52.5°	229.6	227.7	201.3	152.1	96.4	78.4	67.1	64.3	64.3	67.1	69.0
55°	220.2	218.3	182.4	139.9	86.0	72.8	62.4	60.5	60.5	63.3	65.2
57.5°	214.5	210.7	162.5	125.7	77.5	66.2	57.6	57.6	57.6	58.6	59.5
60°	206.0	196.6	141.8	107.7	70.9	59.5	53.9	52.9	52.9	52.0	52.9
62.5°	188.1	172.0	119.1	91.7	63.3	53.9	49.1	48.2	45.4	42.5	43.5
65°	*170.1*	*145.5*	*94.5*	*76.5*	*54.8*	*46.3*	*43.5*	*42.5*	*37.8*	*34.0*	*35.0*
67.5°	147.4	116.2	70.9	64.3	47.3	39.7	36.9	36.9	34.0	31.2	31.2
70°	131.4	90.7	59.5	48.2	37.8	31.2	31.2	33.1	30.2	26.5	26.5
72.5°	116.2	73.7	48.2	38.7	29.3	24.6	26.5	27.4	24.6	21.7	21.7
75°	99.2	57.6	37.8	30.2	21.7	18.9	19.8	21.7	19.8	17.0	18.0
77.5°	71.8	39.7	25.5	19.8	16.1	14.2	15.1	15.1	14.2	13.2	13.2
80°	50.1	26.5	17.0	13.2	11.3	10.4	10.4	9.5	9.5	10.4	10.4
82.5°	30.2	18.9	12.3	10.4	8.5	6.6	6.6	7.6	7.6	8.5	8.5
85°	13.2	11.3	8.5	7.6	5.7	4.7	5.7	5.7	6.6	7.6	7.6
87.5°	8.5	8.5	6.6	5.7	4.7	3.8	3.8	4.7	4.7	5.7	6.6
90°	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
2.5°	467.8	477.2	488.6	504.6	518.8	535.8	552.8	568.9	584.0	585.9	592.5
5°	407.3	425.3	447.9	474.4	506.5	540.5	573.6	608.6	636.9	647.3	662.4
7.5°	344.9	367.6	400.7	441.3	486.7	537.7	588.7	637.9	680.4	700.2	720.1
10°	285.4	307.1	347.8	396.9	455.5	524.5	592.5	658.7	710.6	733.3	752.2
12.5°	231.5	253.3	286.3	343.0	413.9	497.1	586.8	666.2	723.9	747.5	765.5
15°	189.0	207.0	238.1	291.1	365.7	459.3	567.0	660.6	726.7	749.4	762.6
17.5°	166.3	171.0	190.9	239.1	320.4	425.3	541.5	653.0	728.6	749.4	756.9
20°	156.9	156.9	160.7	186.2	265.5	389.3	522.6	648.3	731.4	752.2	751.3
22.5°	148.4	150.3	150.3	155.9	202.2	339.3	502.7	646.4	739.9	756.0	742.8
25°	140.8	143.6	143.6	145.5	158.8	279.7	478.2	650.2	755.1	763.6	737.1
27.5°	134.2	137.0	137.0	138.9	141.8	207.9	437.5	651.1	772.1	773.0	729.5
30°	127.6	130.4	132.3	132.3	134.2	153.1	386.5	645.4	791.0	785.3	728.6
32.5°	120.0	123.8	124.7	126.6	127.6	133.2	320.4	636.0	814.6	802.3	729.5
35°	113.4	118.1	119.1	119.1	121.0	126.6	256.1	625.6	846.7	825.0	733.3
37.5°	106.8	110.6	111.5	112.5	114.3	120.0	203.2	610.5	874.1	853.3	752.2
40°	99.2	104.0	104.9	105.8	107.7	113.4	174.8	591.6	915.7	900.6	780.6
42.5°	91.7	96.4	98.3	99.2	100.2	107.7	159.7	578.3	982.8	966.7	838.2
45°	85.1	89.8	91.7	91.7	93.6	104.0	146.5	607.6	1075.4	1067.9	915.7
47.5°	79.4	84.1	85.1	85.1	86.0	98.3	135.1	686.1	1217.2	1197.3	1036.7
50°	74.7	78.4	80.3	78.4	79.4	93.6	141.8	815.5	1398.6	1405.2	1214.3
52.5°	70.9	74.7	75.6	71.8	71.8	86.9	150.3	921.4	1630.1	1690.6	1495.9
55°	66.2	69.9	70.9	66.2	66.2	76.5	130.4	928.0	1893.8	2088.5	1862.6
57.5°	61.4	65.2	65.2	61.4	60.5	66.2	105.8	823.1	2097.9	2539.2	2364.4
60°	55.8	59.5	58.6	56.7	54.8	60.5	97.3	627.5	2070.5	2833.1	2939.9
62.5°	45.4	51.0	52.9	52.0	48.2	54.8	90.7	409.2	1791.7	2578.0	2922.0
65°	*37.8*	*42.5*	*45.4*	*45.4*	*42.5*	*60.5*	*79.4*	*215.5*	*1434.5*	*2187.7*	*2576.1*
67.5°	33.1	37.8	39.7	38.7	36.9	53.9	50.1	104.0	1100.0	1885.3	2305.8
70°	29.3	33.1	35.0	32.1	30.2	43.5	35.9	61.4	736.2	1573.4	2053.5
72.5°	23.6	27.4	29.3	26.5	23.6	32.1	27.4	40.6	479.1	1341.0	1824.8
75°	18.9	22.7	23.6	21.7	18.9	23.6	21.7	28.4	312.8	1109.4	1551.7
77.5°	14.2	16.1	18.0	17.0	14.2	17.0	15.1	19.8	178.6	778.7	1088.6
80°	11.3	12.3	12.3	12.3	11.3	10.4	10.4	13.2	80.3	383.7	567.9
82.5°	9.5	10.4	10.4	9.5	8.5	7.6	6.6	7.6	23.6	172.0	261.8
85°	8.5	9.5	7.6	6.6	5.7	4.7	2.8	2.8	6.6	27.4	51.0
87.5°	6.6	5.7	4.7	3.8	1.9	0.9	0.9	0.0	0.9	0.9	0.9
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: P1364575
CATALOG NUMBER: GSS-SB1A-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	532.0	532.0	532.0	*532.0*	532.0	532.0	532.0	532.0	532.0	532.0
2.5°	602.9	612.4	619.0	*624.6*	622.8	618.0	608.6	602.0	600.5	600.1
5°	682.3	697.4	710.6	*708.8*	710.6	696.5	682.3	665.3	658.5	656.8
7.5°	748.4	767.3	783.4	*781.5*	775.8	759.8	736.2	710.6	698.5	695.5
10°	784.4	806.1	819.3	*814.6*	805.1	784.4	760.7	730.5	716.9	713.5
12.5°	791.0	805.1	802.3	*800.4*	798.5	788.1	770.2	742.8	729.2	725.8
15°	774.0	768.3	752.2	*748.4*	762.6	775.8	772.1	749.4	736.5	733.3
17.5°	745.6	716.3	687.0	*683.2*	706.9	743.7	773.0	759.8	747.7	744.7
20°	714.4	659.6	627.5	*620.9*	650.2	705.0	762.6	770.2	761.9	759.8
22.5°	677.6	613.3	579.3	*575.5*	597.2	661.5	747.5	781.5	777.7	776.8
25°	645.4	572.7	540.5	*534.9*	563.2	625.6	732.4	800.4	798.2	797.6
27.5°	619.0	543.4	509.4	*505.6*	533.0	595.4	713.5	816.5	824.0	825.9
30°	598.2	521.6	487.6	*482.9*	513.1	574.6	700.2	839.2	853.5	857.1
32.5°	582.1	509.4	477.2	*474.4*	506.5	566.1	692.7	862.8	892.3	899.6
35°	576.5	513.1	491.4	*498.0*	522.6	574.6	698.4	901.5	942.4	952.6
37.5°	588.7	554.7	569.8	*586.8*	596.3	615.2	724.8	963.9	1016.8	1030.1
40°	628.4	666.2	737.1	*770.2*	766.4	722.9	785.3	1051.8	1127.4	1146.3
42.5°	729.5	852.4	1002.7	*1058.4*	1026.3	894.9	881.7	1196.4	1282.6	1304.1
45°	879.8	1077.3	1324.0	*1449.6*	1339.1	1113.2	1033.8	1402.4	1485.5	1506.3
47.5°	1030.1	1328.7	1720.9	*1870.2*	1652.8	1329.6	1233.2	1649.0	1723.9	1742.6
50°	1183.1	1606.5	2116.8	*2316.2*	1965.6	1549.8	1444.9	1953.3	2007.8	2021.4
52.5°	1341.0	1855.0	2553.4	*2725.4*	2292.6	1719.9	1686.8	2285.0	2317.5	2325.7
55°	1516.7	2090.4	2990.9	*3129.9*	2590.3	1868.3	1970.3	2631.8	2623.5	2621.4
57.5°	1751.1	2337.9	3343.4	*3537.2*	2860.5	2068.6	2349.3	3017.4	2854.9	2814.2
60°	2160.3	2722.6	3781.9	*3992.6*	3222.5	2361.6	2628.1	3008.9	2718.6	2646.0
62.5°	2634.7	3093.0	4178.8	*4356.5*	3603.3	2652.6	2406.0	2526.9	2239.7	2167.8
65°	*2288.8*	*3027.8*	*4191.1*	*4373.5*	*3617.5*	*2475.0*	*1778.5*	*1791.7*	*1549.8*	*1489.3*
67.5°	1947.7	2683.8	3816.9	*3960.5*	3227.2	2045.9	1179.4	1169.0	1017.0	979.0
70°	1734.1	2351.2	3289.6	*3165.8*	2713.1	1729.4	783.4	649.2	554.7	531.1
72.5°	1558.3	1865.4	2665.9	*2182.0*	2251.0	1407.1	498.0	442.3	368.9	350.6
75°	1410.9	1543.2	1663.2	*1508.2*	1598.9	1159.5	422.4	341.1	279.2	263.7
77.5°	1122.7	1201.1	984.7	*956.3*	1119.8	825.0	209.8	143.6	125.5	121.0
80°	668.1	567.9	558.5	*636.9*	745.6	428.1	128.5	79.4	71.8	69.9
82.5°	404.5	205.1	223.0	*281.6*	396.9	194.7	76.5	34.0	30.2	29.3
85°	68.0	55.8	86.0	*82.2*	77.5	41.6	20.8	9.5	8.7	8.5
87.5°	1.9	2.8	3.8	*4.7*	4.7	4.7	4.7	4.7	5.5	5.7
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

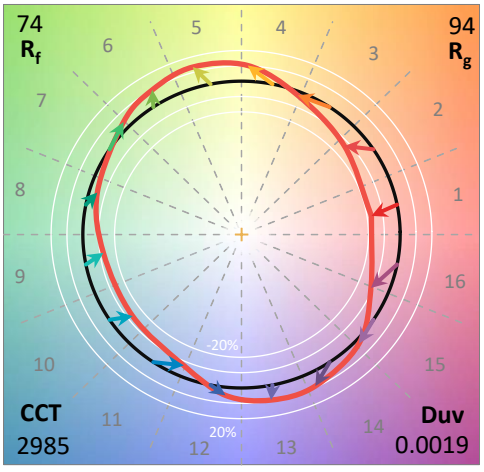
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-4
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-730-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985
CIE u':	0.2504
CIE v':	0.5243
Duv:	0.0019
CIE x:	0.4408
CIE y:	0.4101
CIE z:	0.1491
Peak Wavelength (nm):	595
Dominant Wavelength (nm):	582
Purity:	55.41818
Rf:	73.8
Rg:	94.4

CRI (Ra):	70.8
R1:	66.3
R2:	80.6
R3:	94.5
R4:	68.2
R5:	66.5
R6:	74.7
R7:	76.2
R8:	39.6
R9:	-43.2
R10:	57.6
R11:	64.8
R12:	53.5
R13:	68.7
R14:	97.0
R15:	56.4



Test Conditions

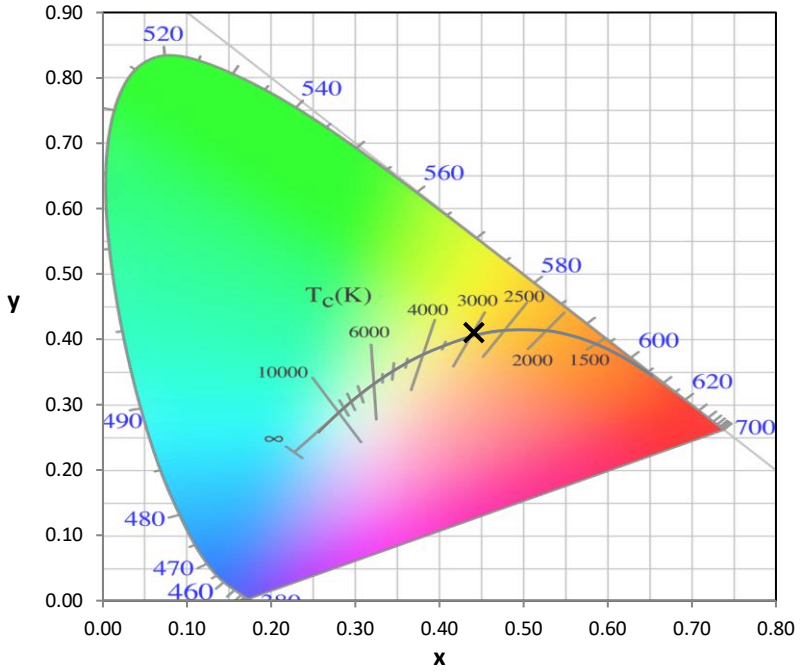
Stabilization Time:	36M
Operation Time:	1H 36M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-4

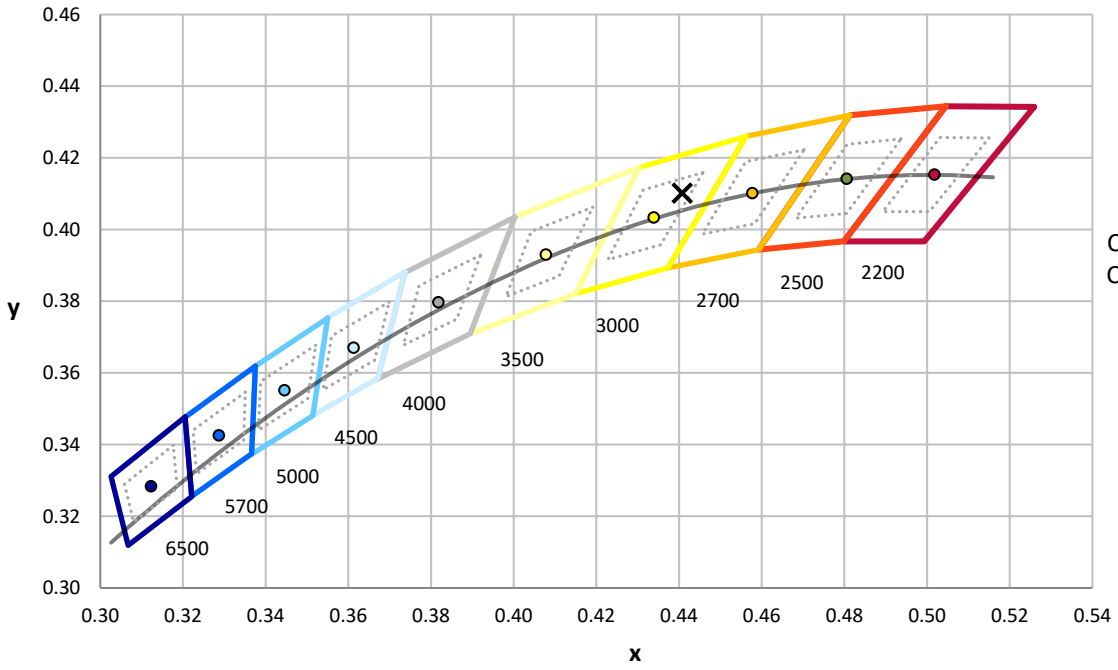
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



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

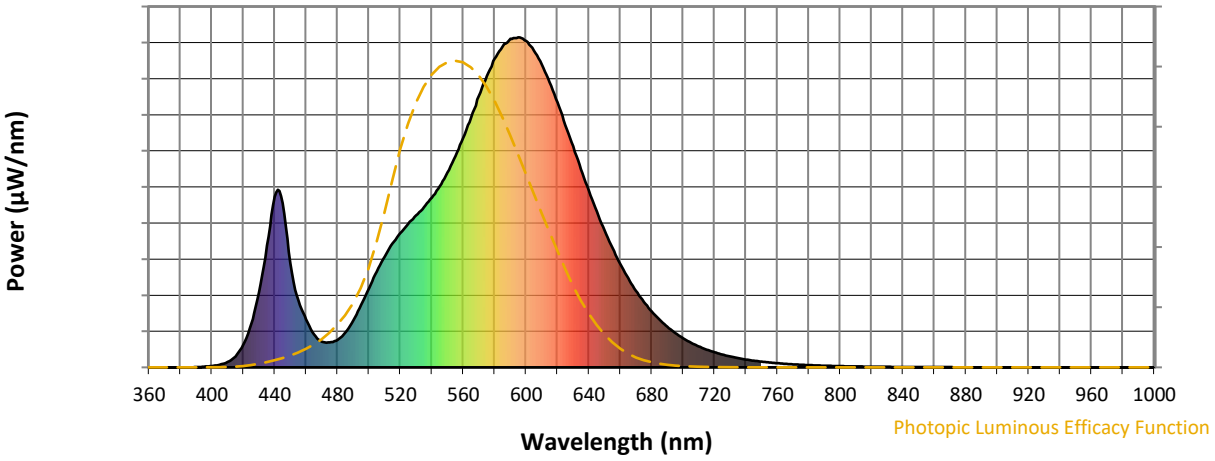


CCT = 2985K
CIE x = 0.4408
CIE y = 0.4101
Duv = 0.0019

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

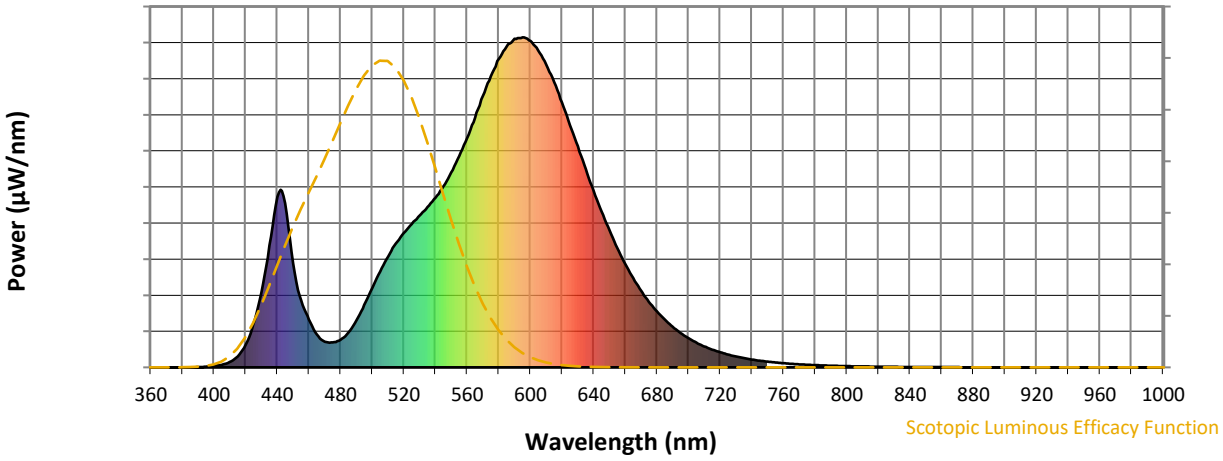


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength

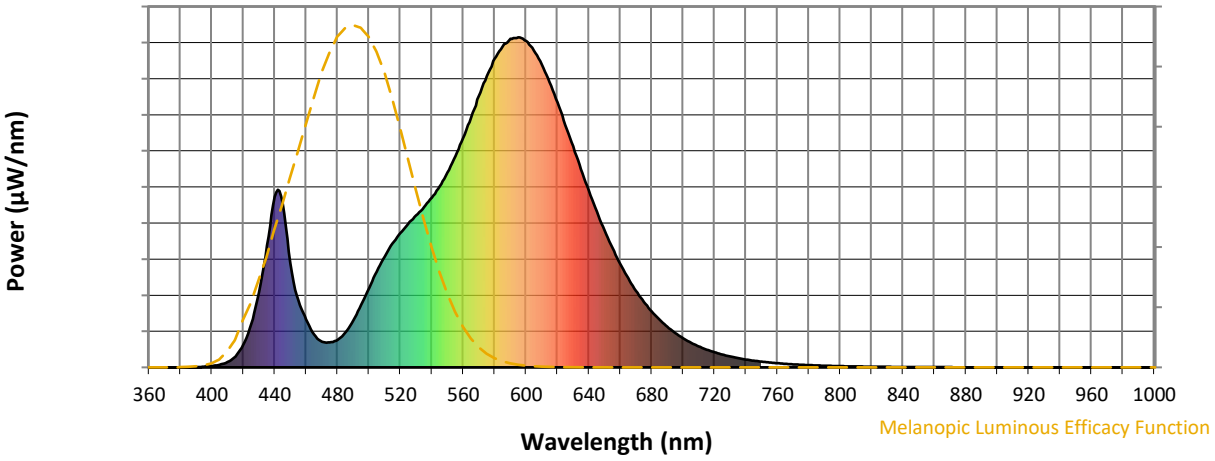


Scotopic Lumens: NR **S/P: 1.19**

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.13**

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

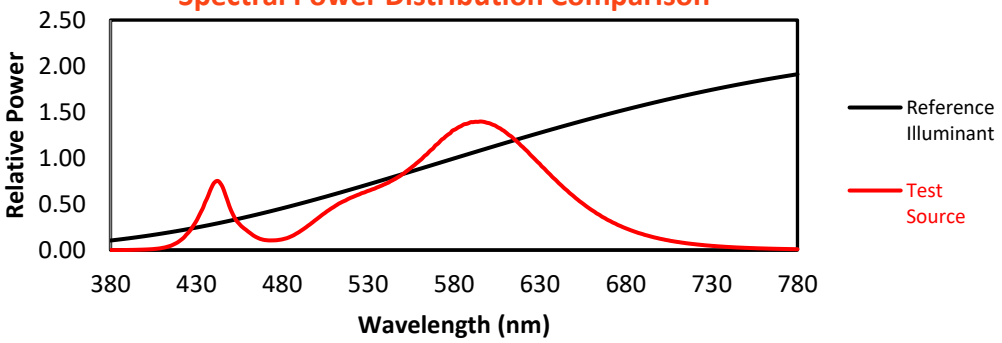
REPORT NUMBER: SP1-2407-184-4

TM-30-18

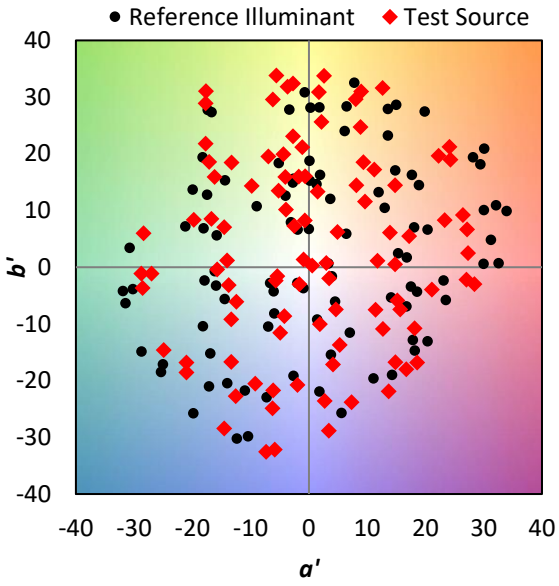
Summary

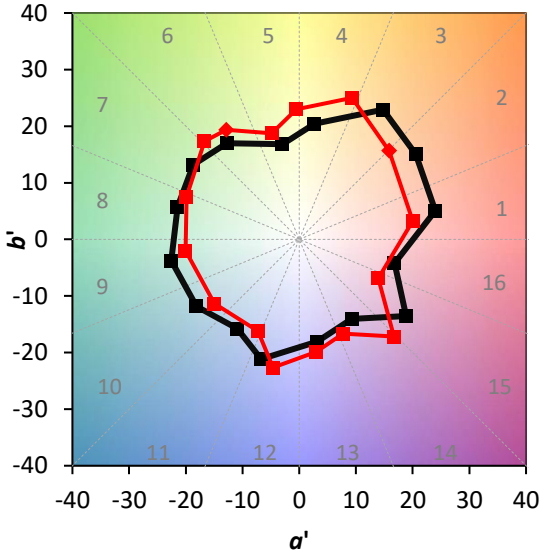
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R_g = 94.4
CIE R_a = 70.8
R_9 = -43.2

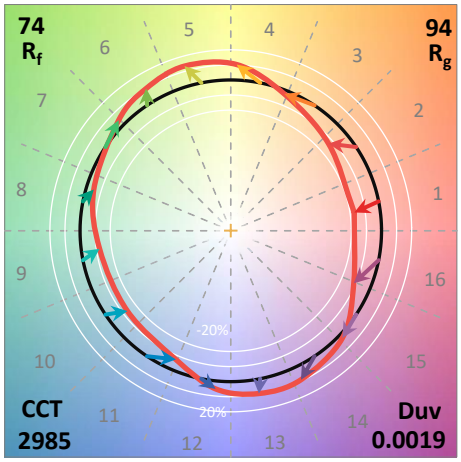
Spectral Power Distribution Comparison

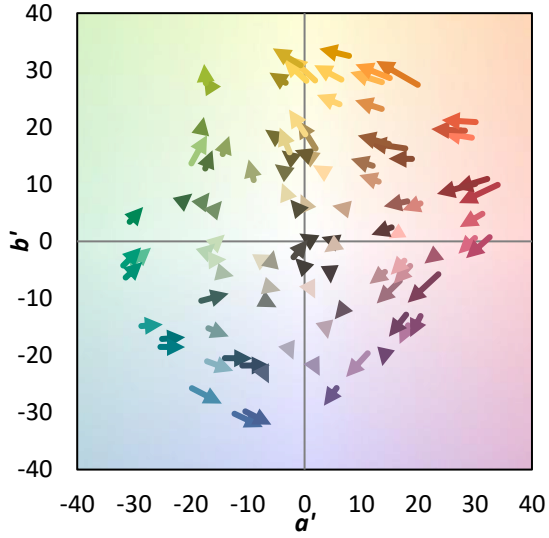


Color Vector Graphics







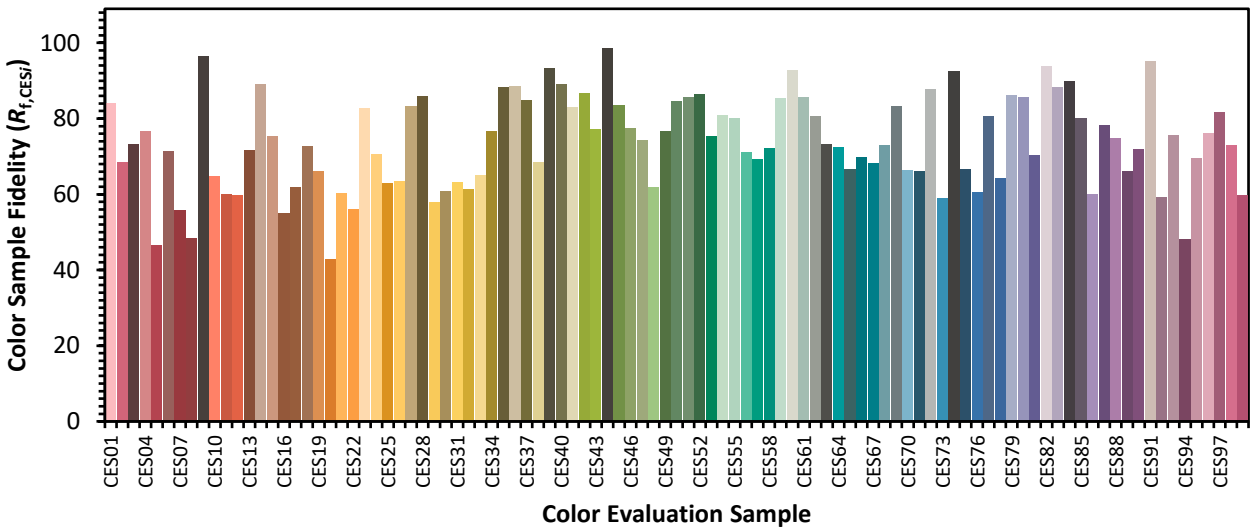


REPORT NUMBER: SP1-2407-184-4

TM-30-18

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

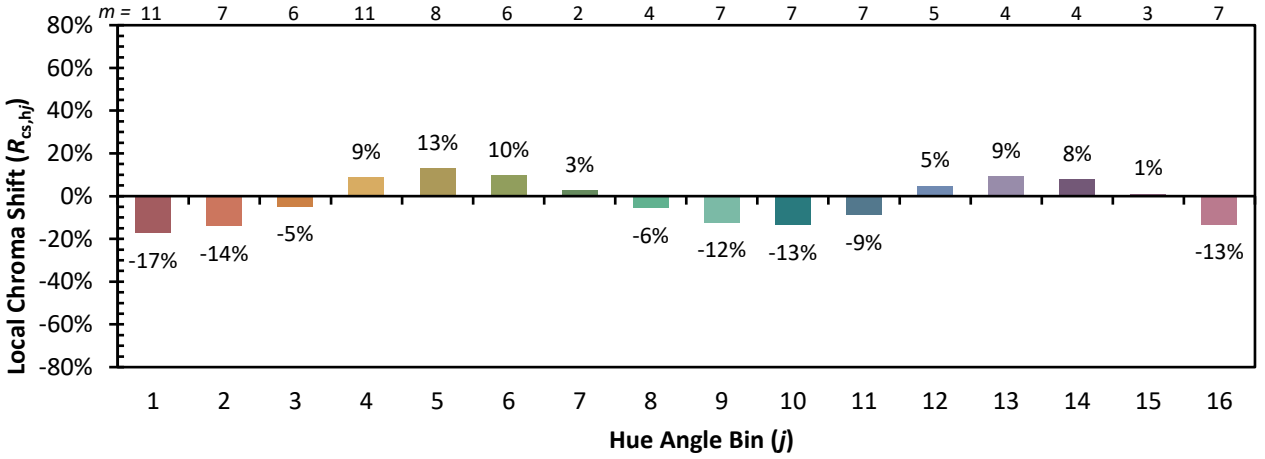
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	

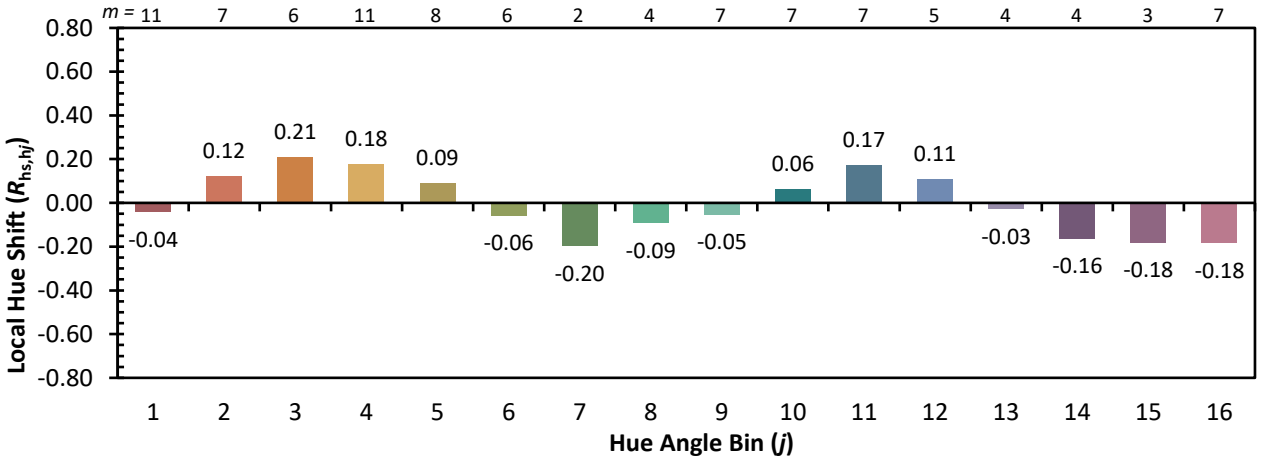


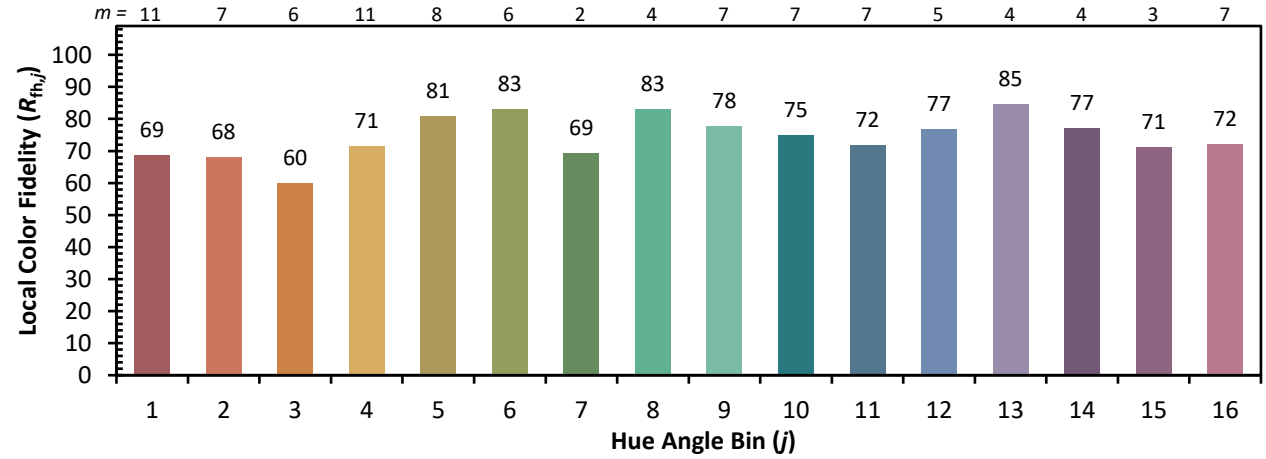
REPORT NUMBER: SP1-2407-184-4

TM-30-18

Color Rendition by Hue-Angle Bin



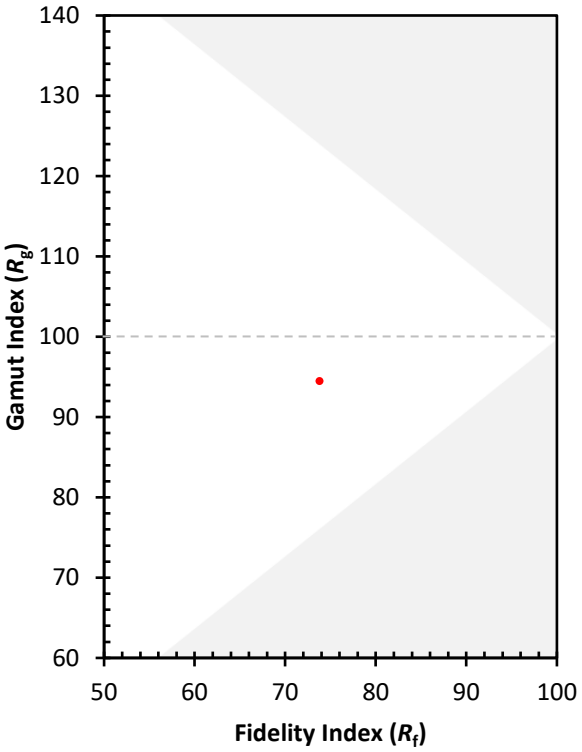


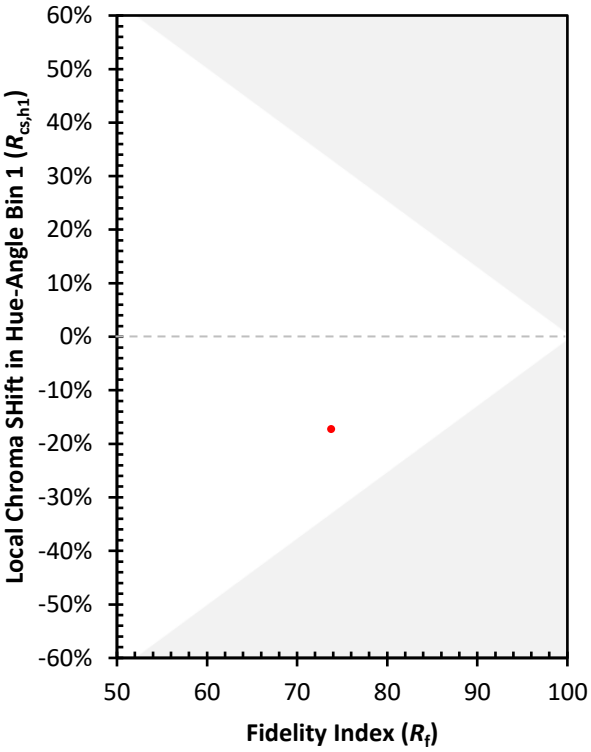


REPORT NUMBER: SP1-2407-184-4

TM-30-18

Measure Comparisons





(END OF REPORT)