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

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Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1501803

Luminaire Tested: GSS-SB6C-730-U-T2LG-HSS

Issue Date: 07/20/2026

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501803
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB6C-730-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 6SQUARE 300W 70CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(156) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	35192.5 lumens
Efficiency:	N/A
Efficacy:	117.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

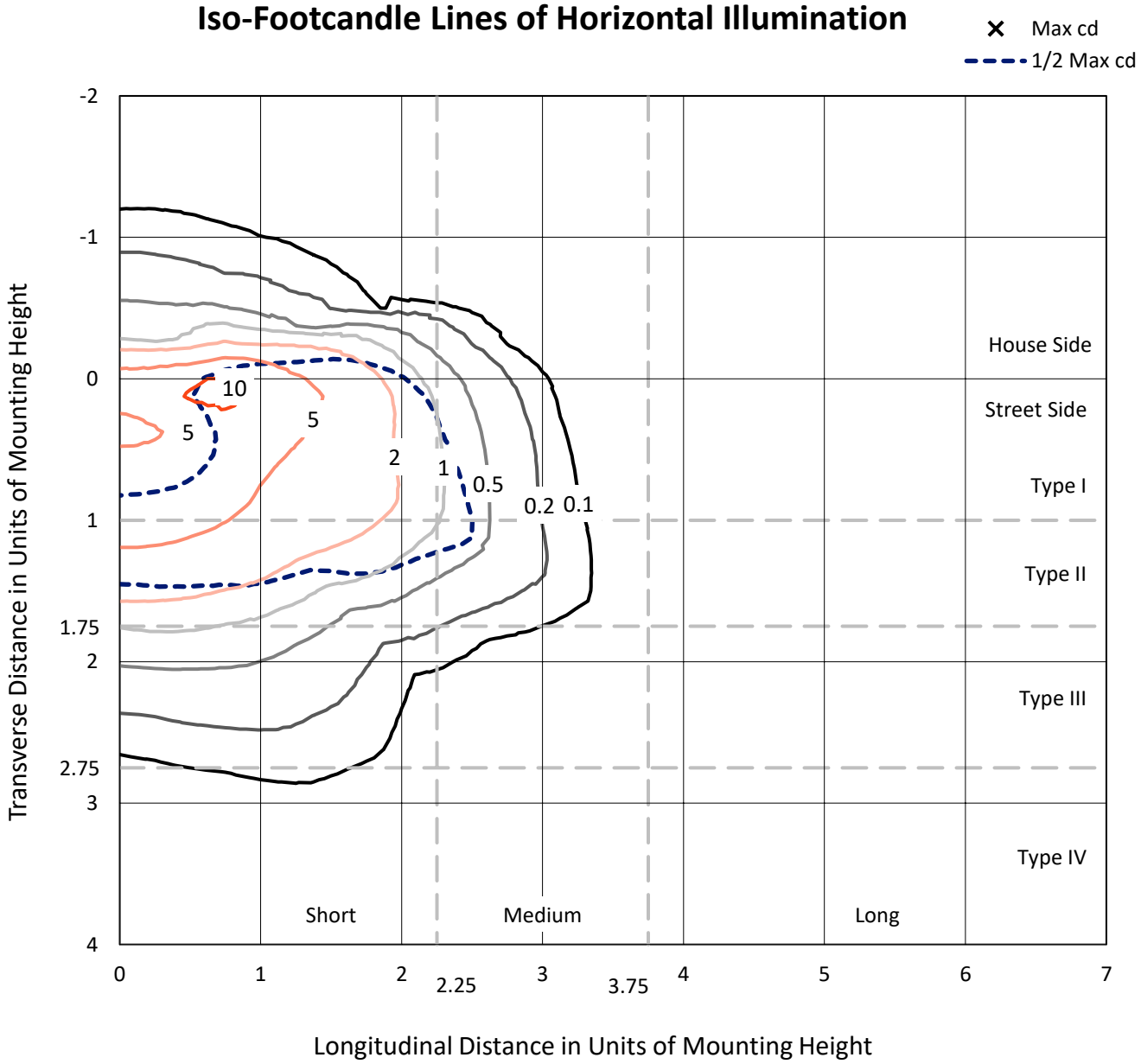
Input Watts (W):	300
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	6.3%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



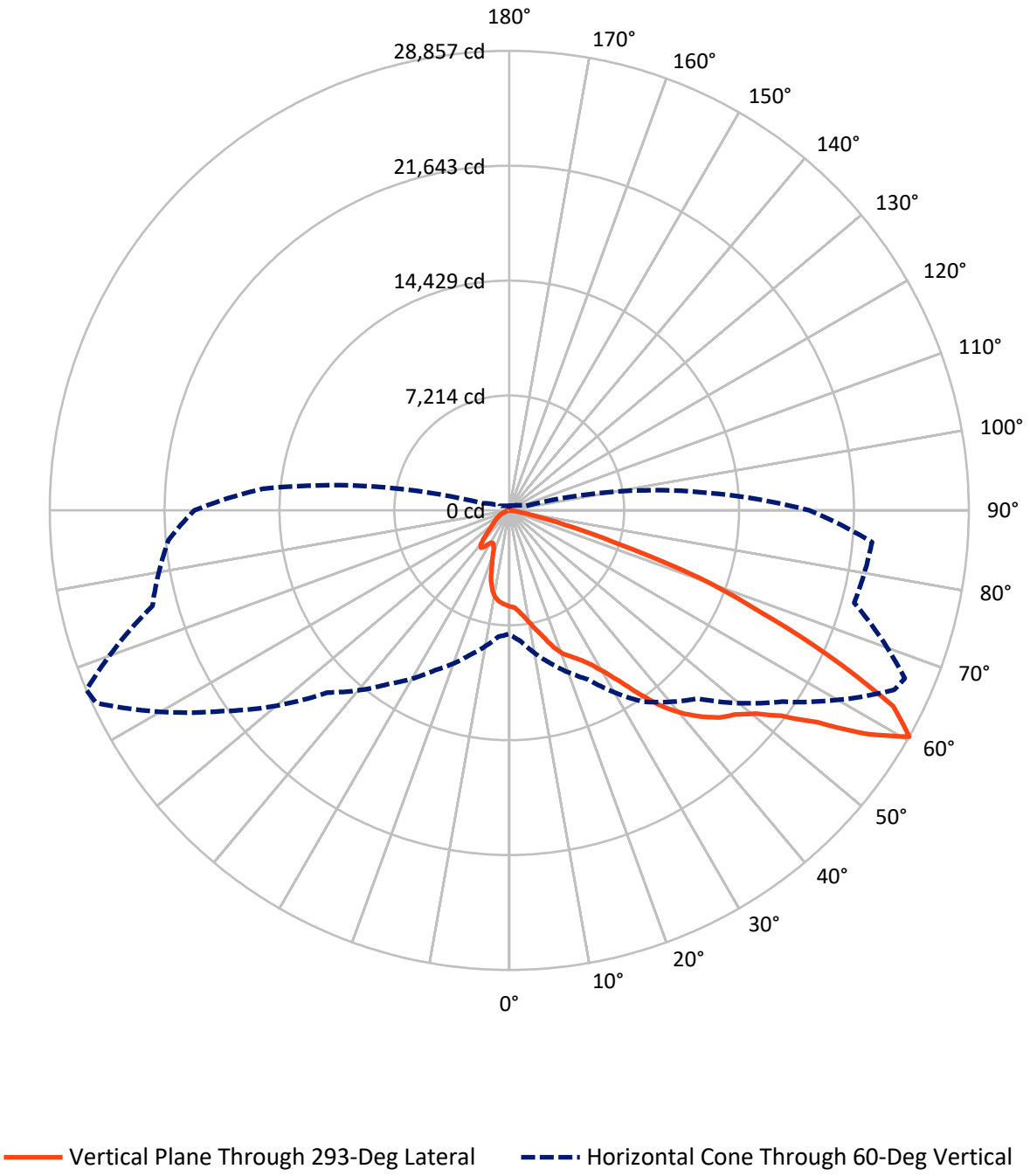
Based on 30 foot mounting height. Maximum calculated value = 11.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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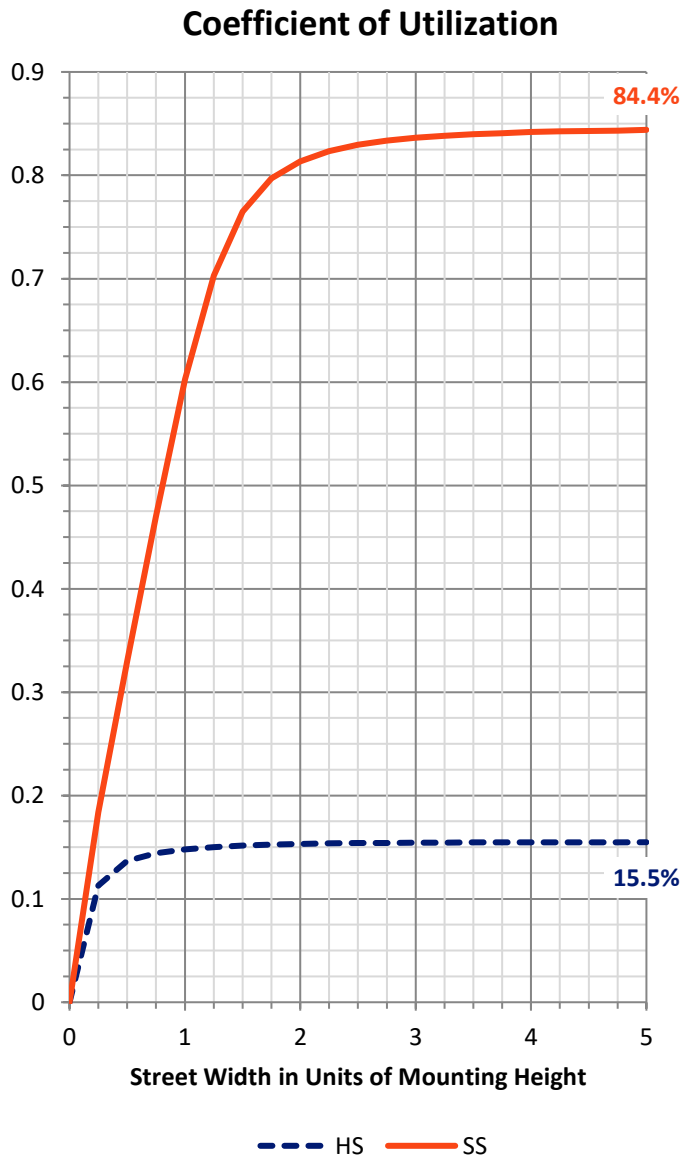
REPORT NUMBER: P1501803
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5490.9	0.0	5490.9
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	29701.6	0.0	29701.6
	% Fixture	84.4	0.0	84.4
Total	Lumens	35192.5	0.0	35192.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.1	1.6
10°-20°	1375.5	3.9
20°-30°	2567.8	7.3
30°-40°	5092.2	14.5
40°-50°	8118.9	23.1
50°-60°	9700.0	27.6
60°-70°	6358.9	18.1
70°-80°	1332.3	3.8
80°-90°	100.8	0.3
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°	35192.5	100.0
0°-180°	35192.5	100.0



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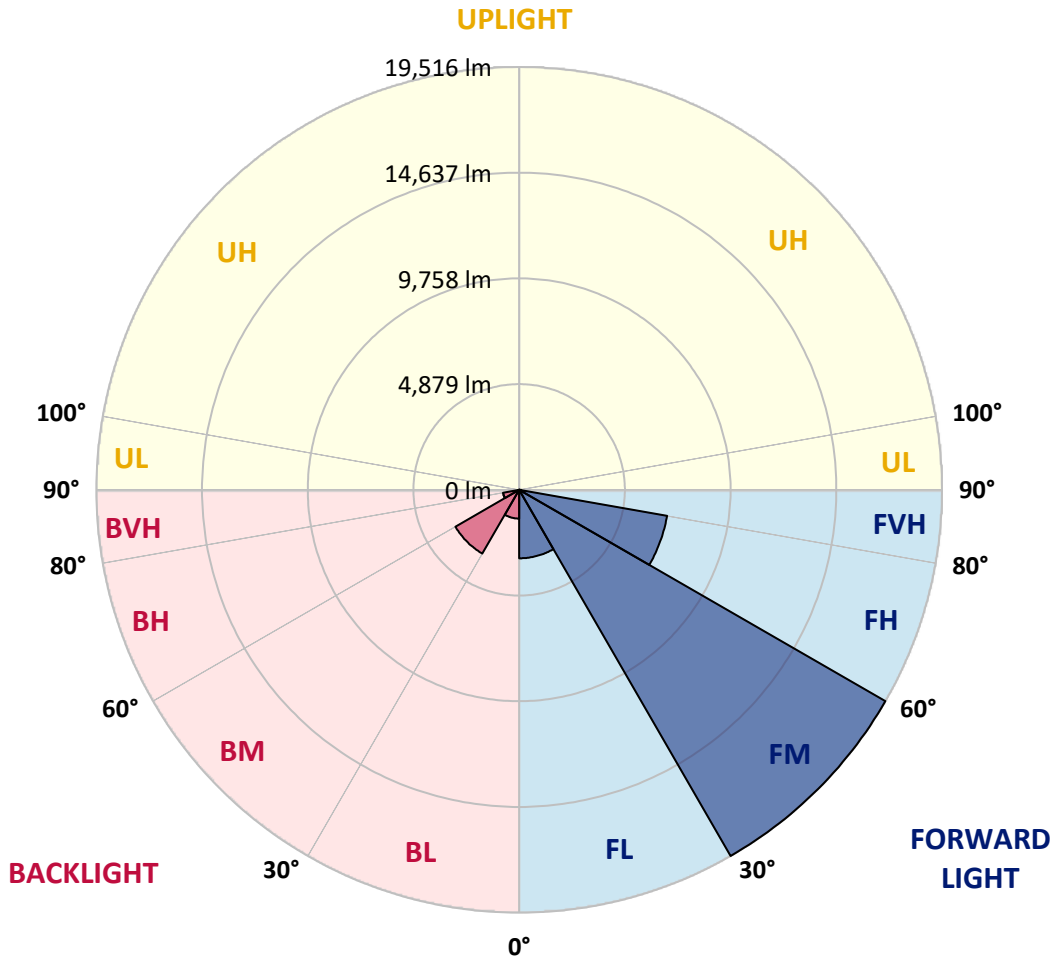
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3161.0	9.0			
FM	(30°-60°)	19515.6	55.5			
FH	(60°-80°)	6932.7	19.7			G3/7500
FVH	(80°-90°)	92.3	0.3			G1/100
BL	(0°-30°)	1328.4	3.8	B3/2500		
BM	(30°-60°)	3395.5	9.6	B3/5000		
BH	(60°-80°)	758.5	2.2	B2/1000		G2/1000
BVH	(80°-90°)	8.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6
2.5°	6337.2	6317.4	6287.9	6297.7	6287.9	6248.5	6189.3	6140.0	6179.5	6120.3	6080.9
5°	6524.4	6524.4	6504.7	6504.7	6514.6	6494.8	6455.4	6386.4	6396.3	6347.0	6218.9
7.5°	6524.4	6494.8	6544.1	6593.4	6682.1	6731.4	6751.1	6711.7	6731.4	6632.8	6465.3
10°	6140.0	6120.3	6248.5	6435.7	6692.0	6918.6	7066.5	7076.3	7105.9	7007.3	6810.2
12.5°	5322.0	5282.6	5538.9	5893.7	6416.0	6938.3	7352.3	7510.0	7579.0	7539.5	7263.6
15°	4563.1	4612.4	4789.8	5174.2	5873.9	6672.2	7510.0	8032.3	8130.9	8180.2	7854.9
17.5°	4484.3	4494.2	4553.3	4740.5	5272.7	6238.6	7529.7	8574.4	8712.4	8929.2	8485.7
20°	4701.1	4681.4	4740.5	4799.7	5055.9	5854.2	7342.4	9096.7	9362.8	9826.0	9343.1
22.5°	5105.2	5105.2	5134.8	5174.2	5302.3	5824.7	7263.6	9579.6	10033.0	10979.1	10417.4
25°	5785.2	5706.4	5726.1	5676.8	5785.2	6179.5	7441.0	9964.0	10584.9	12260.4	11698.6
27.5°	6839.8	6869.4	6692.0	6425.9	6485.0	6820.1	7874.6	10397.7	11156.5	13590.9	12999.5
30°	8298.4	8249.1	8140.7	7618.4	7381.8	7677.5	8672.9	11107.3	11925.3	15276.2	14734.1
32.5°	9441.7	9579.6	9392.4	9027.7	8663.1	8751.8	9796.5	12250.5	12861.6	16823.5	16527.9
35°	10821.5	10821.5	10860.9	10348.4	10102.0	10082.3	11205.8	13492.3	14103.4	18223.0	18430.0
37.5°	12684.2	12556.0	12339.2	11767.6	11580.3	11826.7	12526.5	14773.6	15433.9	19356.4	19908.3
40°	14251.2	14339.9	14310.3	13482.5	13117.8	13383.9	14004.8	15867.5	16380.0	20085.7	21100.9
42.5°	15788.7	15838.0	15709.8	15315.6	14783.4	14803.1	15315.6	16695.4	17217.7	20785.5	22224.4
45°	16941.8	16931.9	16843.2	16744.7	16429.3	16104.1	16192.8	17612.0	18065.3	21012.2	22835.4
47.5°	17306.4	17385.3	17464.1	17740.1	17956.9	17444.4	16991.1	18104.7	18518.7	20972.7	23062.1
50°	16971.4	17138.9	17523.3	17937.2	18676.4	18637.0	17661.2	18637.0	19041.0	21189.6	23328.2
52.5°	16222.3	16389.9	16902.4	17651.4	18765.1	19317.0	18903.1	19533.8	20006.9	21741.5	23880.1
55°	14477.9	14546.9	15601.4	16587.0	18321.6	19021.3	20233.6	21051.6	21445.8	22411.7	24609.5
57.5°	11787.3	11954.9	12989.7	14596.2	17079.8	18242.7	20992.4	23643.6	23633.7	23052.3	24767.1
60°	*7756.4*	*8249.1*	*9934.5*	*11708.5*	*14675.0*	*16715.1*	*20943.2*	*26679.1*	*26984.7*	*22421.5*	*22865.0*
62.5°	5923.2	6130.2	7086.2	8564.5	10860.9	13857.0	20617.9	27585.8	27822.4	20726.3	20016.7
65°	4454.7	4711.0	5627.6	6948.2	7667.7	9392.4	18489.1	23978.7	24303.9	18499.0	15562.0
67.5°	2730.0	2937.0	4159.1	5706.4	5805.0	5834.5	12477.2	18163.9	18282.2	14921.4	10476.5
70°	1823.3	2030.3	2877.8	4385.7	4622.3	3360.8	6849.6	13748.6	13738.7	10210.4	6366.7
72.5°	1054.5	1153.1	1823.3	3232.6	3636.7	2138.7	3419.9	8741.9	8357.6	4799.7	2976.4
75°	601.2	670.2	1005.3	2079.5	2552.6	1360.1	1350.2	4681.4	4139.4	2473.8	1626.2
77.5°	364.7	394.2	551.9	1360.1	1537.5	916.6	749.0	2178.1	2099.2	1448.8	857.4
80°	177.4	207.0	335.1	798.3	985.6	492.8	453.4	857.4	916.6	798.3	453.4
82.5°	59.1	78.8	187.3	305.5	640.6	197.1	187.3	473.1	502.6	473.1	216.8
85°	29.6	39.4	88.7	98.6	246.4	98.6	69.0	207.0	256.2	157.7	88.7
87.5°	0.0	9.9	9.9	9.9	9.9	9.9	9.9	19.7	19.7	19.7	19.7
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°	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6
2.5°	6051.3	6031.6	5992.2	5923.2	5913.4	5864.1	5785.2	5736.0	5696.5	5726.1	5736.0
5°	6159.8	6110.5	5992.2	5805.0	5607.8	5410.7	5223.5	5006.6	4858.8	4839.1	4799.7
7.5°	6356.9	6258.3	6002.1	5637.4	5134.8	4661.7	4109.8	3577.6	3311.5	3272.1	3183.4
10°	6672.2	6504.7	6080.9	5341.7	4375.9	3390.3	2552.6	1981.0	1655.7	1596.6	1616.3
12.5°	7046.8	6810.2	6090.8	4839.1	3331.2	2099.2	1448.8	1232.0	1163.0	1133.4	1133.4
15°	7529.7	7184.7	6080.9	4188.6	2247.1	1350.2	1163.0	1074.3	1044.7	1025.0	1025.0
17.5°	8140.7	7687.4	6011.9	3212.9	1517.8	1172.8	1064.4	995.4	956.0	946.1	946.1
20°	8860.2	8249.1	5854.2	2394.9	1271.4	1094.0	1005.3	916.6	887.0	867.3	867.3
22.5°	9776.8	8929.2	5548.7	1862.7	1202.4	1044.7	946.1	847.6	818.0	798.3	798.3
25°	10841.2	9796.5	5144.6	1675.5	1192.5	1005.3	887.0	788.4	758.9	749.0	739.2
27.5°	12102.7	10722.9	4770.1	1685.3	1212.2	975.7	827.9	739.2	709.6	680.0	689.9
30°	13590.9	11678.9	4464.6	1803.6	1232.0	946.1	788.4	709.6	680.0	640.6	640.6
32.5°	15059.4	12802.4	4435.0	2020.4	1300.9	926.4	749.0	670.2	640.6	611.0	611.0
35°	16567.3	13827.4	4602.6	2306.2	1438.9	896.9	699.7	630.8	601.2	581.5	571.6
37.5°	18006.2	14645.4	4760.3	2483.6	1360.1	768.7	640.6	581.5	551.9	512.5	512.5
40°	18962.2	15088.9	4789.8	2345.6	1123.5	689.9	581.5	522.3	482.9	463.2	453.4
42.5°	19661.9	15374.7	4454.7	1902.1	975.7	630.8	532.2	473.1	443.5	423.8	423.8
45°	19947.7	15276.2	3883.1	1448.8	896.9	581.5	482.9	433.6	413.9	394.2	394.2
47.5°	19908.3	14822.8	3301.6	1163.0	818.0	532.2	453.4	413.9	394.2	374.5	364.7
50°	19839.3	14399.0	2710.3	1034.8	729.3	502.6	423.8	394.2	364.7	344.9	335.1
52.5°	20292.7	14261.1	2247.1	946.1	680.0	482.9	413.9	374.5	344.9	325.2	325.2
55°	20746.1	14320.2	1764.2	887.0	630.8	473.1	404.1	364.7	335.1	305.5	305.5
57.5°	20716.5	14064.0	1340.4	827.9	591.3	463.2	394.2	354.8	305.5	285.8	285.8
60°	*18834.1*	*12546.2*	*1044.7*	*758.9*	*542.1*	*433.6*	*364.7*	*335.1*	*285.8*	*256.2*	*256.2*
62.5°	15926.7	9865.5	857.4	670.2	482.9	394.2	335.1	305.5	256.2	207.0	207.0
65°	11767.6	7115.7	689.9	581.5	443.5	344.9	305.5	266.1	207.0	167.5	157.7
67.5°	7963.3	4375.9	551.9	482.9	394.2	295.7	256.2	226.7	187.3	138.0	128.1
70°	4720.8	2325.9	404.1	335.1	295.7	216.8	216.8	197.1	157.7	118.3	108.4
72.5°	2247.1	808.2	295.7	246.4	226.7	157.7	167.5	167.5	128.1	88.7	78.8
75°	1143.3	394.2	197.1	177.4	147.8	118.3	138.0	128.1	88.7	59.1	59.1
77.5°	650.5	276.0	138.0	118.3	98.6	78.8	88.7	78.8	49.3	29.6	29.6
80°	364.7	197.1	88.7	78.8	59.1	49.3	49.3	39.4	29.6	9.9	9.9
82.5°	138.0	118.3	59.1	39.4	29.6	29.6	19.7	19.7	9.9	0.0	0.0
85°	59.1	29.6	29.6	19.7	19.7	9.9	9.9	9.9	0.0	0.0	0.0
87.5°	9.9	9.9	9.9	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6
2.5°	5657.1	5676.8	5696.5	5775.4	5795.1	5854.2	5903.5	5962.6	5972.5	6051.3	6051.3
5°	4878.5	4868.7	5036.2	5282.6	5440.3	5657.1	5824.7	6002.1	6100.6	6228.7	6287.9
7.5°	3232.6	3479.0	3853.5	4287.2	4849.0	5371.3	5765.5	6110.5	6347.0	6494.8	6554.0
10°	1606.5	1744.4	2138.7	2848.3	3804.3	4868.7	5706.4	6347.0	6731.4	6898.9	7007.3
12.5°	1133.4	1163.0	1232.0	1616.3	2532.9	4040.8	5519.1	6603.3	7135.5	7450.8	7588.8
15°	1015.1	1034.8	1064.4	1172.8	1567.0	3015.8	5184.0	6889.1	7766.2	8130.9	8308.3
17.5°	936.3	946.1	975.7	1064.4	1232.0	2050.0	4642.0	7194.6	8525.1	8968.6	9303.7
20°	867.3	867.3	896.9	1005.3	1143.3	1576.9	3863.4	7539.5	9490.9	10131.6	10466.7
22.5°	788.4	808.2	827.9	946.1	1113.7	1438.9	3134.1	7805.6	10565.2	11343.8	11738.0
25°	729.3	749.0	768.7	887.0	1084.1	1438.9	2710.3	7973.2	11767.6	12694.0	13236.1
27.5°	680.0	699.7	729.3	847.6	1054.5	1498.1	2542.7	8022.5	13078.4	14280.8	15010.1
30°	640.6	660.3	689.9	818.0	1074.3	1567.0	2601.9	7953.5	14408.9	15916.8	16784.1
32.5°	601.2	620.9	650.5	788.4	1074.3	1655.7	2799.0	7815.5	15700.0	17552.8	18617.2
35°	571.6	581.5	591.3	709.6	975.7	1645.9	3045.4	7677.5	17000.9	19169.2	20411.0
37.5°	512.5	522.3	542.1	611.0	778.6	1498.1	3094.7	7510.0	18025.9	20529.2	21899.2
40°	453.4	473.1	492.8	561.8	650.5	1212.2	2877.8	7155.2	18568.0	21573.9	23239.5
42.5°	413.9	423.8	443.5	512.5	601.2	965.8	2414.6	6534.3	19050.9	22283.5	24215.2
45°	384.4	394.2	413.9	463.2	561.8	837.7	1902.1	5775.4	19090.3	22510.2	24688.3
47.5°	354.8	364.7	374.5	423.8	542.1	749.0	1458.6	5085.5	19080.5	22805.9	25092.4
50°	335.1	344.9	364.7	404.1	512.5	670.2	1202.4	4523.7	19494.4	23446.5	25910.4
52.5°	325.2	325.2	354.8	394.2	482.9	611.0	1005.3	4021.1	19711.2	24077.2	26501.7
55°	305.5	315.4	335.1	374.5	453.4	581.5	857.4	3390.3	19809.8	24392.6	26610.1
57.5°	285.8	295.7	325.2	354.8	433.6	551.9	739.2	2532.9	18400.4	22746.7	24796.7
60°	*256.2*	*276.0*	*315.4*	*344.9*	*404.1*	*502.6*	*650.5*	*1714.9*	*15522.6*	*19770.3*	*21485.2*
62.5°	207.0	246.4	285.8	305.5	364.7	423.8	551.9	1143.3	12398.4	16360.3	18311.7
65°	157.7	207.0	236.5	266.1	305.5	354.8	463.2	778.6	8268.9	11008.7	13206.5
67.5°	138.0	177.4	197.1	216.8	256.2	305.5	374.5	542.1	5016.5	6613.1	8781.3
70°	108.4	147.8	167.5	157.7	197.1	236.5	266.1	364.7	2562.5	3587.4	4996.8
72.5°	78.8	118.3	128.1	128.1	118.3	167.5	197.1	256.2	1113.7	1744.4	2266.8
75°	59.1	78.8	88.7	78.8	69.0	108.4	138.0	167.5	729.3	1044.7	1320.7
77.5°	29.6	29.6	49.3	49.3	29.6	59.1	69.0	98.6	413.9	611.0	758.9
80°	9.9	0.0	0.0	9.9	0.0	19.7	29.6	49.3	216.8	325.2	473.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	108.4	98.6	246.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.7	59.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1501803
CATALOG NUMBER: GSS-SB6C-730-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	6031.6	*6031.6*	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6	6031.6
2.5°	6100.6	*6100.6*	6140.0	6199.2	6228.7	6248.5	6258.3	6278.0	6356.9	6337.2
5°	6356.9	*6376.6*	6406.1	6465.3	6534.3	6514.6	6514.6	6514.6	6563.8	6524.4
7.5°	6692.0	*6751.1*	6760.9	6829.9	6780.7	6682.1	6623.0	6534.3	6524.4	6524.4
10°	7234.0	*7214.3*	7214.3	7125.6	6948.2	6662.4	6406.1	6228.7	6130.2	6140.0
12.5°	7815.5	*7736.7*	7746.5	7421.3	6918.6	6287.9	5765.5	5381.2	5351.6	5322.0
15°	8535.0	*8328.0*	8288.6	7539.5	6475.1	5509.3	4996.8	4691.3	4592.7	4563.1
17.5°	9559.9	*9037.6*	8850.3	7332.6	5893.7	5026.4	4642.0	4504.0	4494.2	4484.3
20°	10644.1	*9609.2*	9254.4	7027.0	5696.5	5036.2	4750.4	4711.0	4691.3	4701.1
22.5°	11905.6	*9973.9*	9520.5	7076.3	5873.9	5361.5	5134.8	5105.2	5085.5	5105.2
25°	13206.5	*10397.7*	9835.9	7470.6	6406.1	5962.6	5696.5	5637.4	5696.5	5785.2
27.5°	14517.3	*10969.3*	10456.8	8249.1	7263.6	6780.7	6524.4	6741.2	6829.9	6839.8
30°	15680.3	*11767.6*	11294.5	9343.1	8239.3	7756.4	7805.6	8081.6	8190.0	8298.4
32.5°	16744.7	*12832.0*	12467.3	10584.9	9500.8	9215.0	9185.4	9392.4	9510.7	9441.7
35°	17818.9	*14221.6*	13866.8	11935.1	11048.1	10811.6	10565.2	10969.3	10929.9	10821.5
37.5°	18834.1	*15621.1*	15295.9	13383.9	12467.3	12053.4	12014.0	12378.6	12703.9	12684.2
40°	19563.4	*16754.5*	16360.3	14822.8	13955.5	13600.7	13807.7	14438.5	14359.6	14251.2
42.5°	20233.6	*17720.4*	17365.6	16084.4	15177.6	15335.3	15522.6	15946.4	15897.1	15788.7
45°	20548.9	*18548.3*	18242.7	17040.3	16596.8	17099.5	17089.6	17247.3	16981.2	16941.8
47.5°	20992.4	*19139.6*	18824.2	17897.8	18292.0	18499.0	17917.5	17749.9	17503.6	17306.4
50°	21810.5	*20056.2*	19740.8	19198.7	19533.8	18893.2	18183.6	17818.9	17316.3	16971.4
52.5°	22766.5	*21445.8*	21169.8	20953.0	20016.7	18696.1	17789.4	17129.0	16518.0	16222.3
55°	23968.8	*23495.8*	23298.7	22106.1	19583.1	17887.9	16823.5	15591.6	14753.8	14477.9
57.5°	24363.1	*26501.7*	26432.7	22293.4	18370.9	16419.4	14497.6	12832.0	11964.7	11787.3
60°	*23200.1*	*28857.2*	*28610.8*	*21978.0*	*16173.1*	*13324.8*	*11077.7*	*9372.7*	*7963.3*	*7756.4*
62.5°	21711.9	*27053.6*	26964.9	20391.3	12319.5	9550.1	8278.7	6682.1	6080.9	5923.2
65°	18597.5	*22135.7*	22175.1	16360.3	7795.8	6859.5	6800.4	5312.2	4573.0	4454.7
67.5°	14320.2	*16981.2*	16705.3	10289.3	4543.4	5489.6	5430.4	3883.1	2808.8	2730.0
70°	8367.4	*12644.7*	12201.2	5351.6	3006.0	4582.9	4178.8	2730.0	1912.0	1823.3
72.5°	3695.9	*6958.1*	7470.6	2355.5	2119.0	3646.6	3015.8	1675.5	1074.3	1054.5
75°	2050.0	*3449.5*	3607.2	1025.0	1488.2	2592.0	1823.3	936.3	611.0	601.2
77.5°	1232.0	*1527.6*	1488.2	660.3	1113.7	1655.7	1103.8	532.2	384.4	364.7
80°	689.9	*699.7*	591.3	482.9	660.3	926.4	620.9	335.1	177.4	177.4
82.5°	423.8	*384.4*	305.5	147.8	177.4	561.8	226.7	187.3	59.1	59.1
85°	177.4	*118.3*	78.8	29.6	69.0	147.8	78.8	88.7	29.6	29.6
87.5°	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

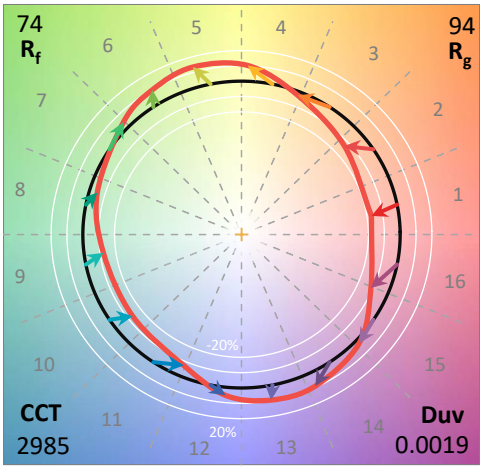
Test Information

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

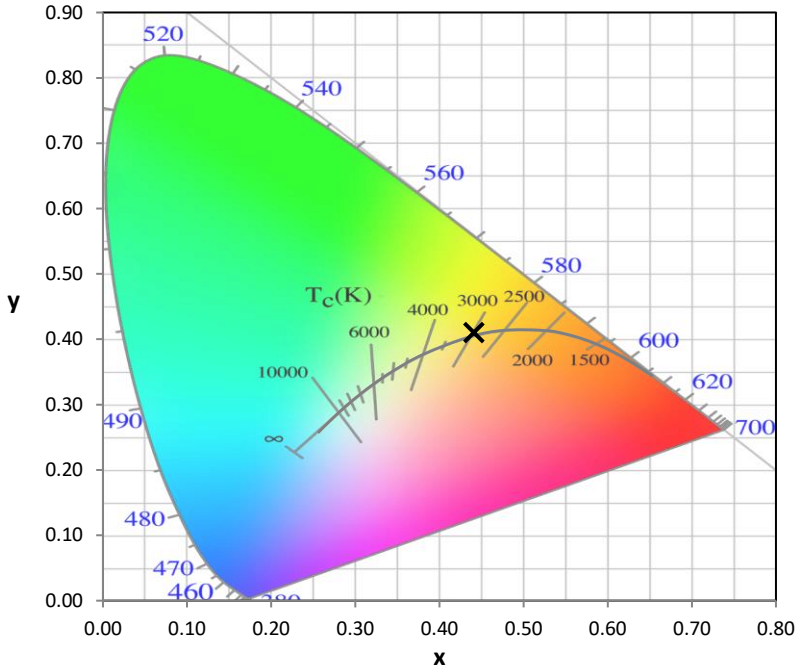
Stabilization Time:	36M
Operation Time:	1H 36M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-4

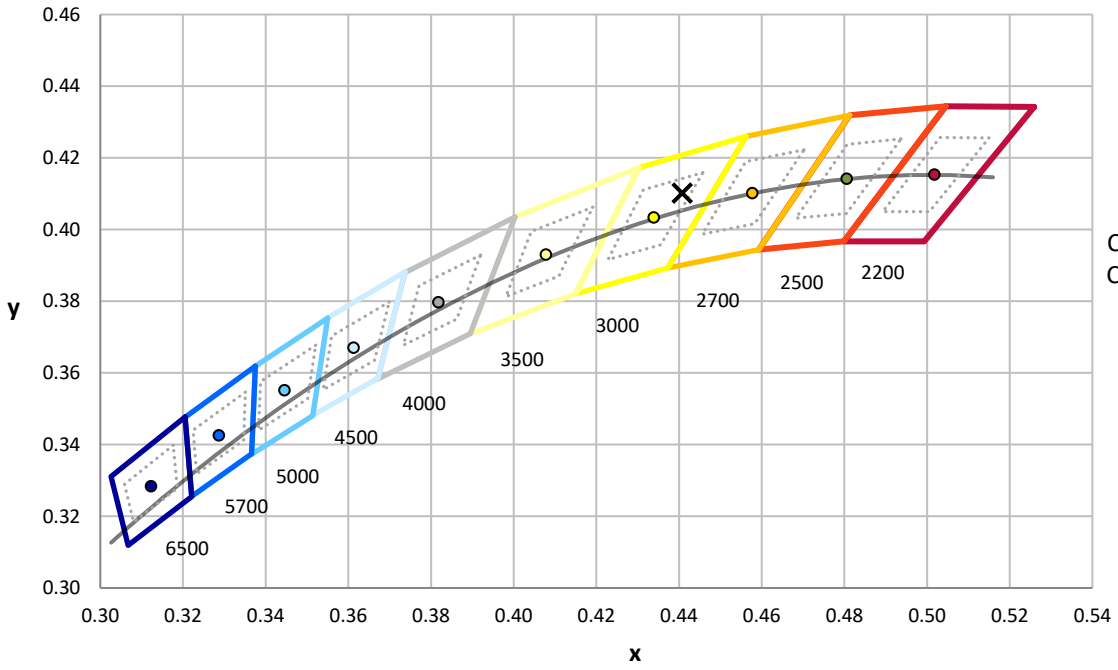
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

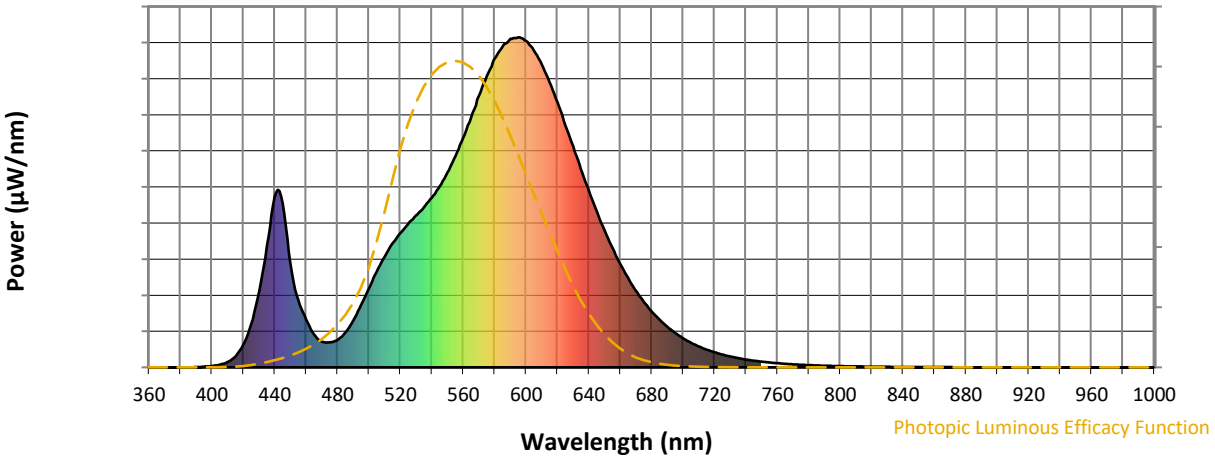


CCT = 2985K
CIE x = 0.4408
CIE y = 0.4101
Duv = 0.0019

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

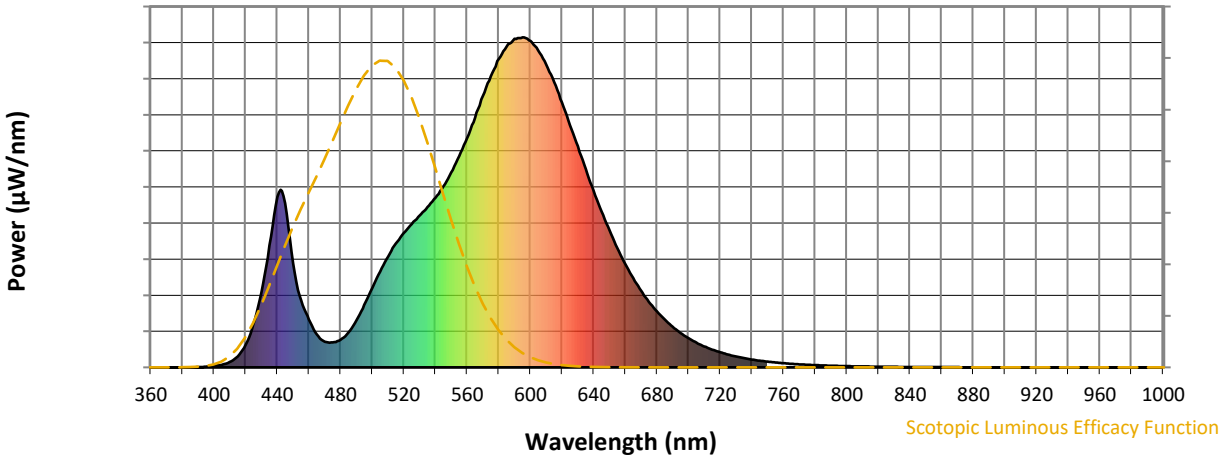


Photopic Lumens: NR

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

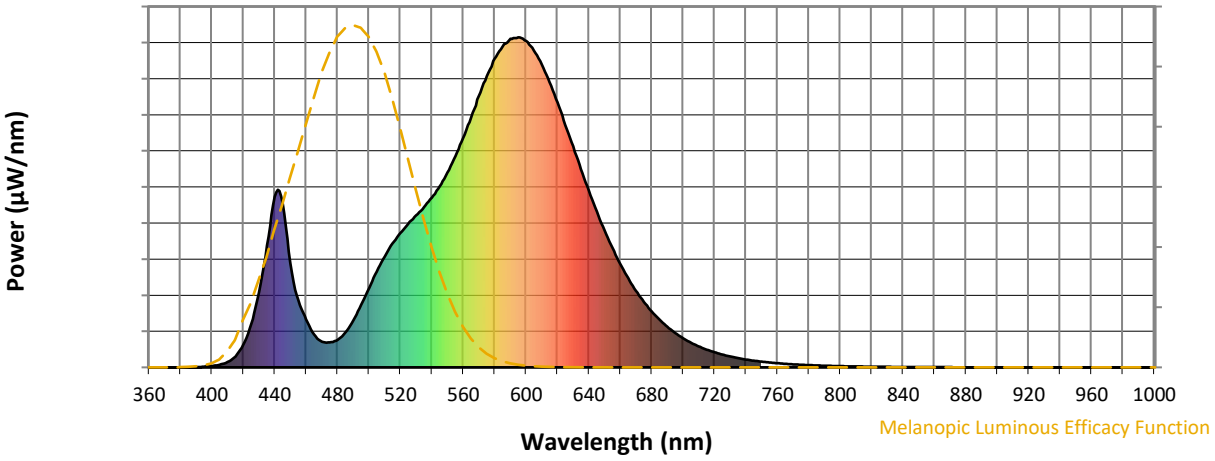


Scotopic Lumens: NR **S/P: 1.19**

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			

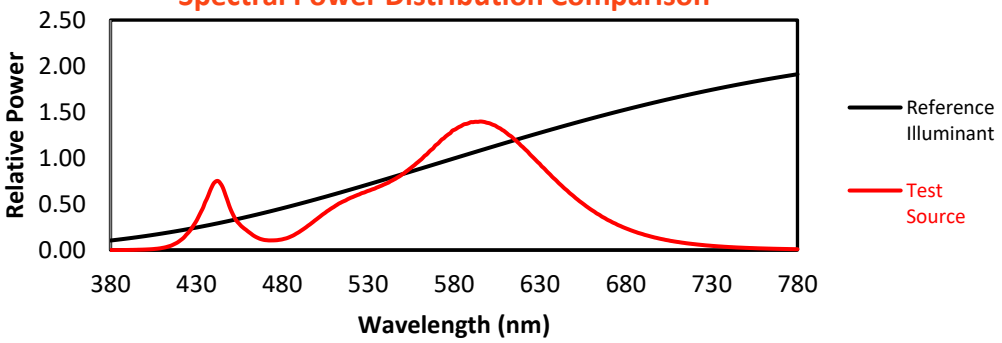
REPORT NUMBER: SP1-2407-184-4

TM-30-18

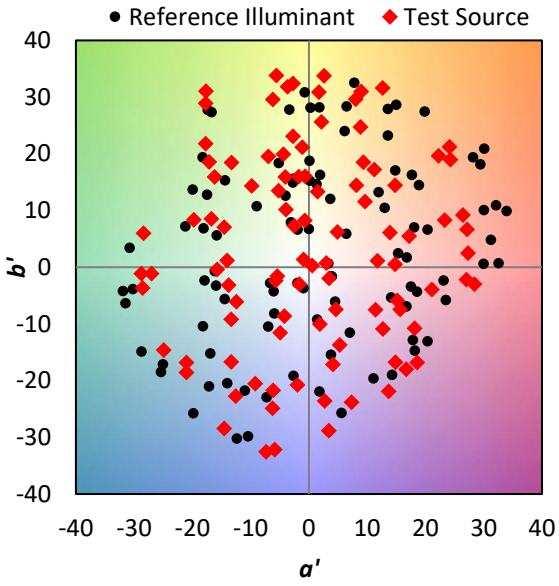
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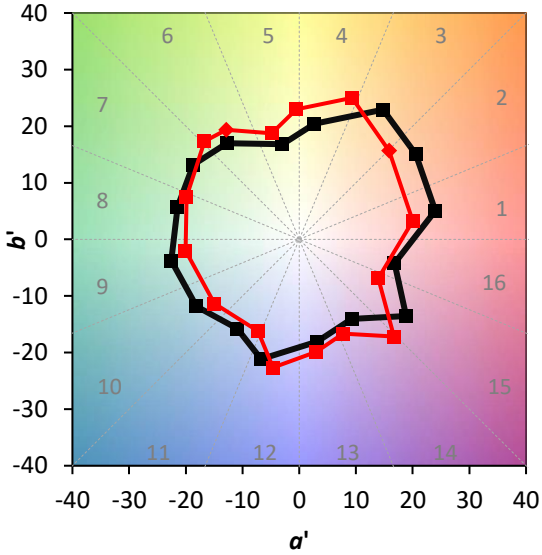
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R_g = 94.4
CIE R_a = 70.8
R_9 = -43.2

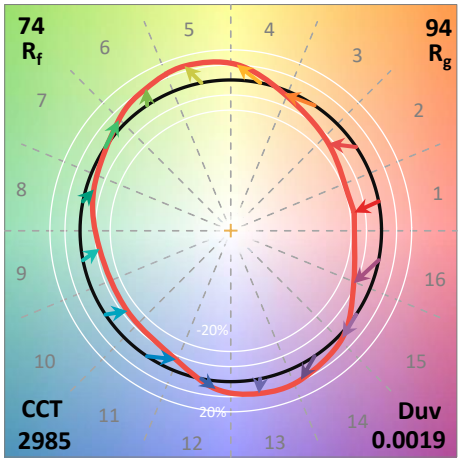
Spectral Power Distribution Comparison

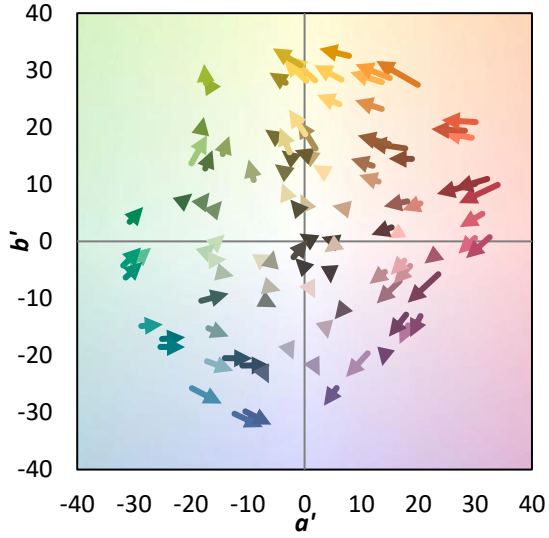


Color Vector Graphics







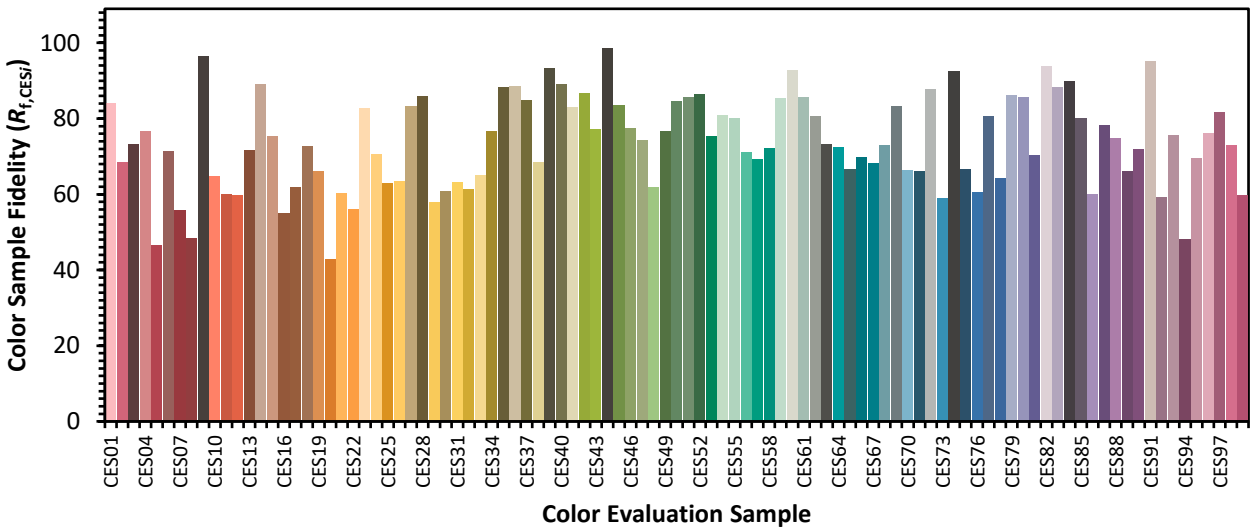


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Individual Sample Fidelity Index ($R_{f,i}$)

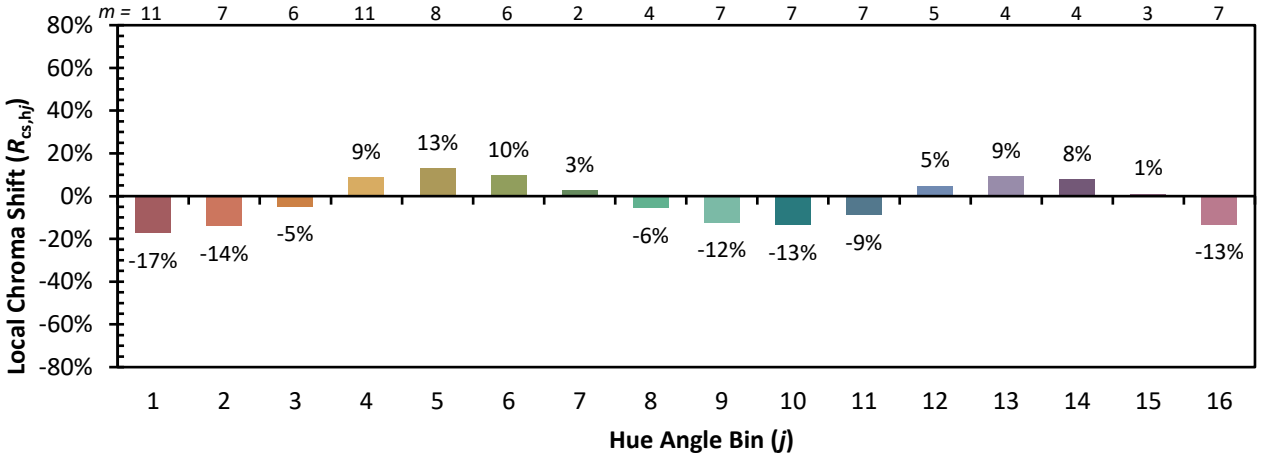
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CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 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	

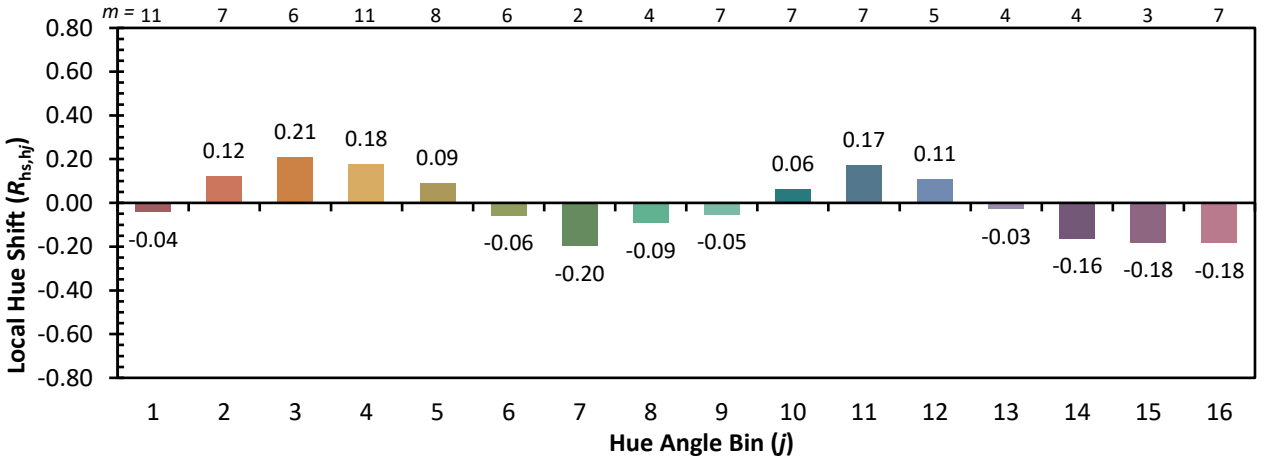


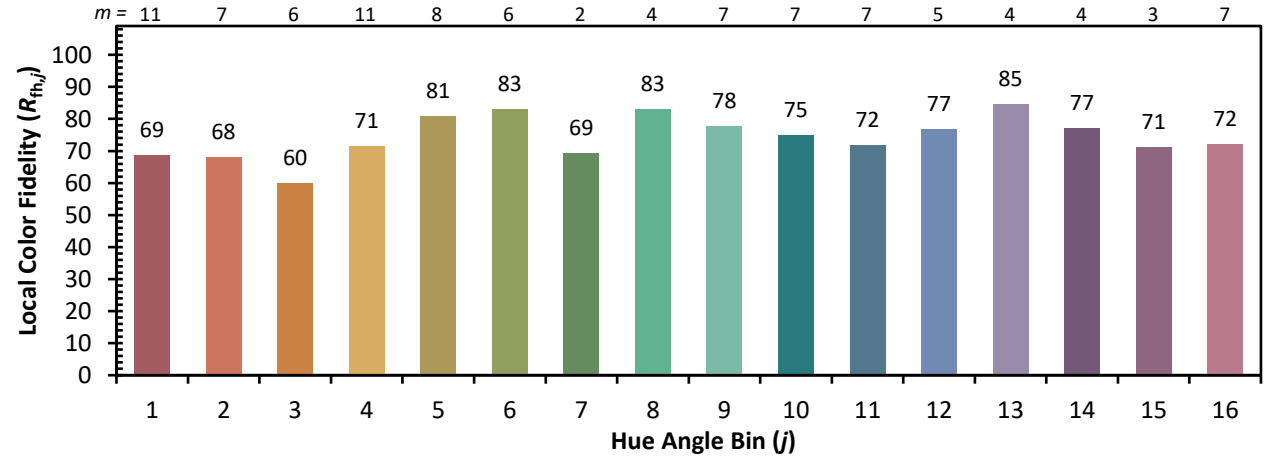
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Color Rendition by Hue-Angle Bin



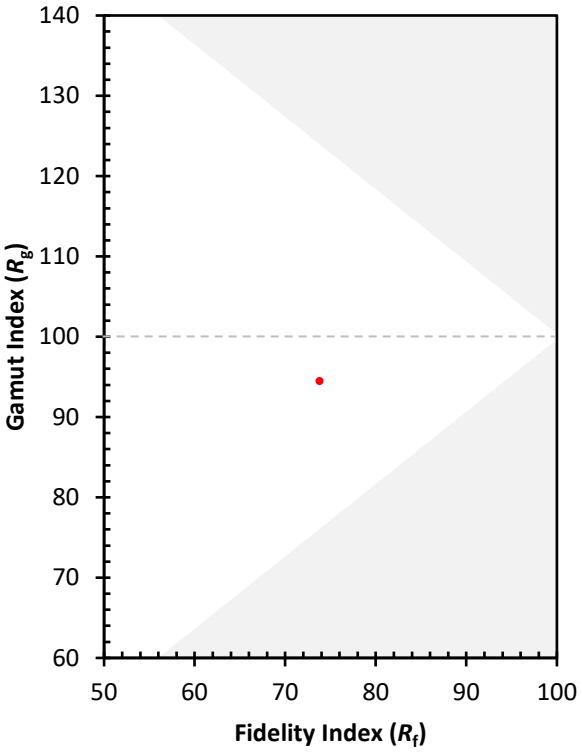


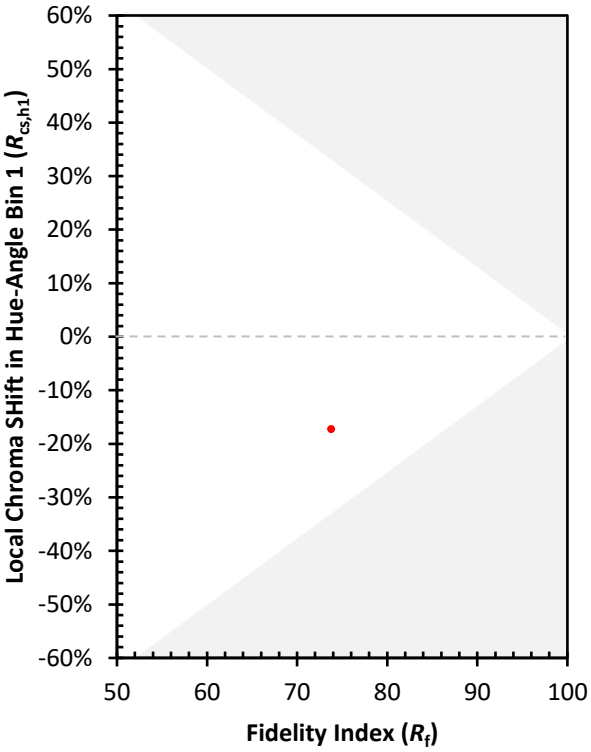


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Measure Comparisons





(END OF REPORT)