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: P1501779

Luminaire Tested: GSS-SB6C-727-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:	P1501779
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB6C-727-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 6SQUARE 300W 70CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(156) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	32660.1 lumens
Efficiency:	N/A
Efficacy:	108.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

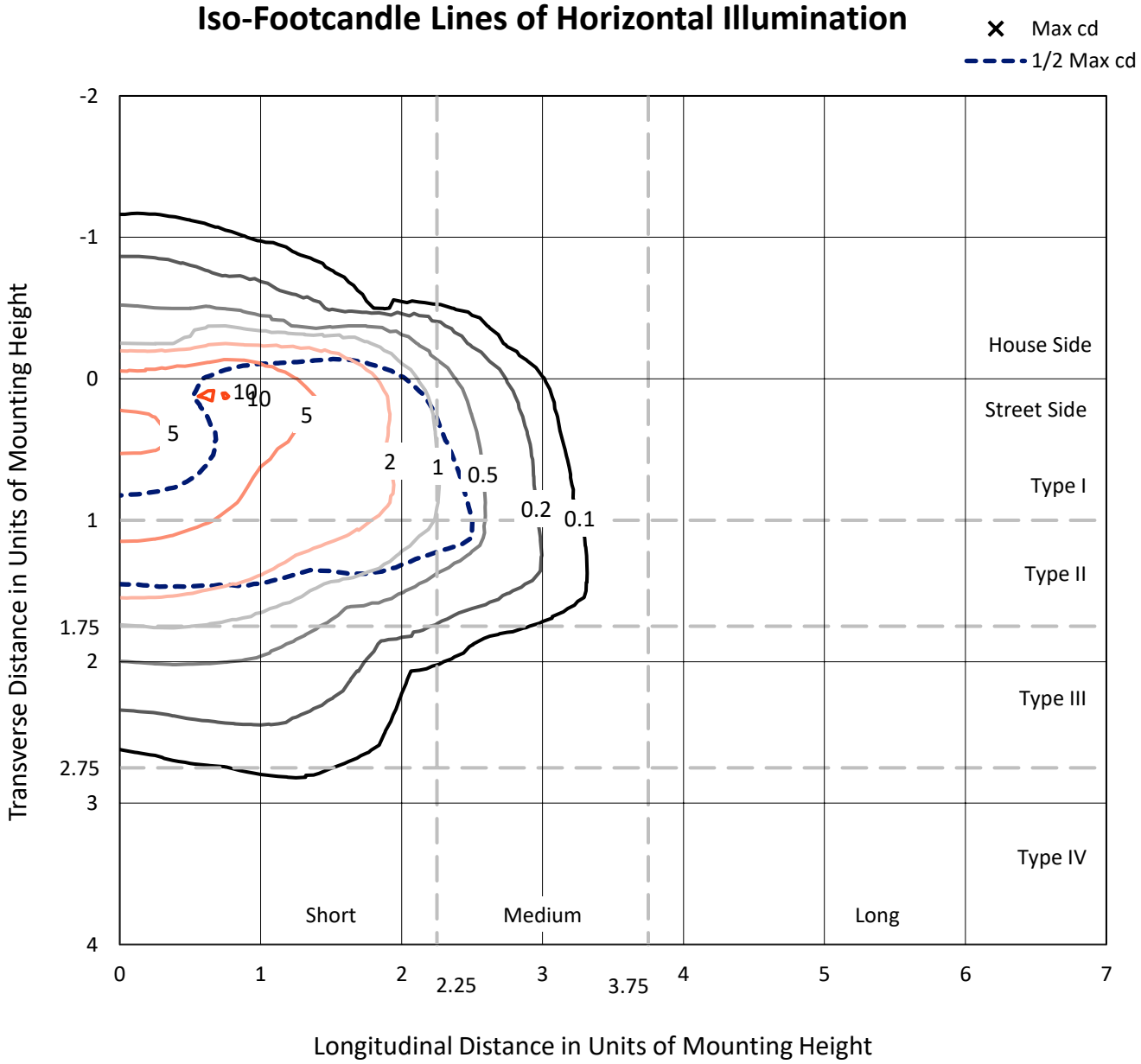
Input Watts (W):	300
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	6.3%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



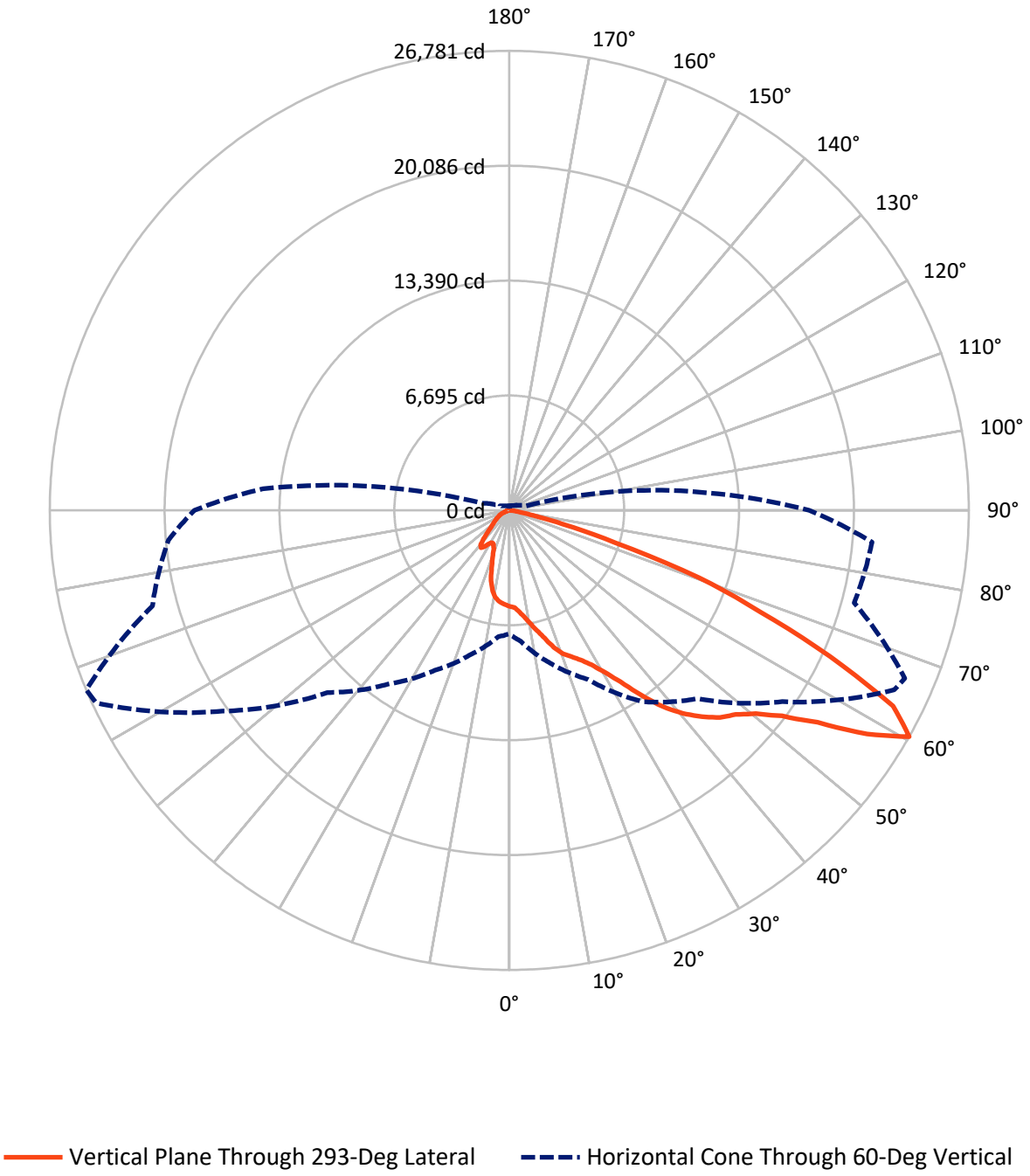
Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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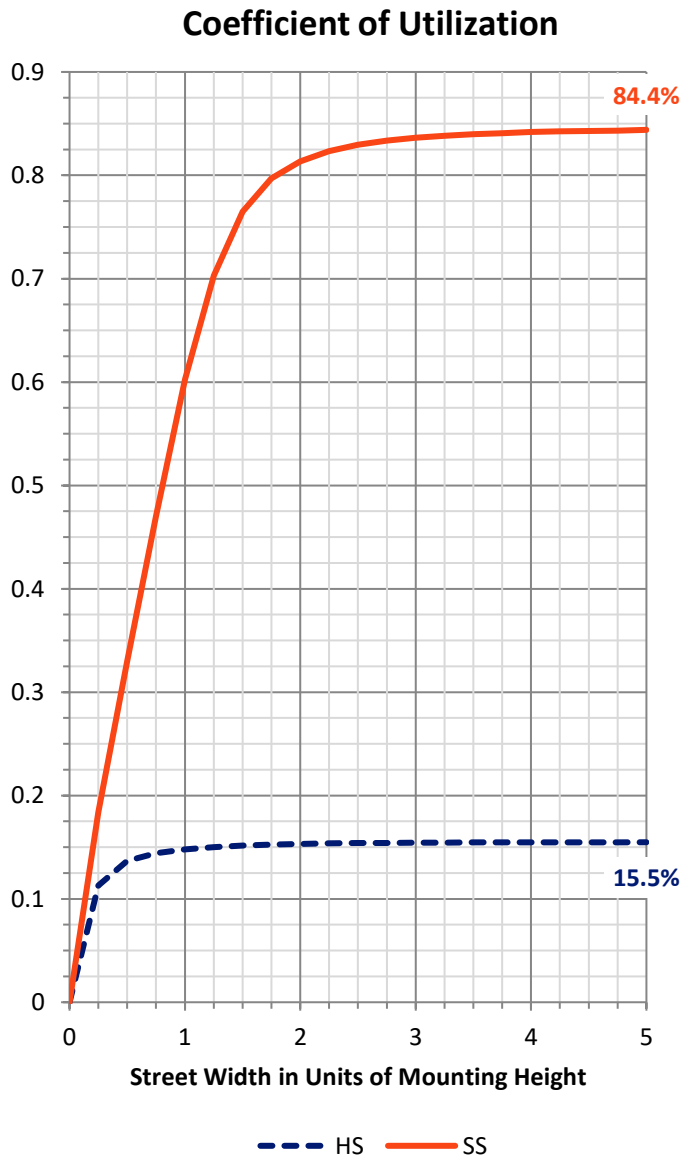
REPORT NUMBER: P1501779
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5095.8	0.0	5095.8
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	27564.3	0.0	27564.3
	% Fixture	84.4	0.0	84.4
Total	Lumens	32660.1	0.0	32660.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.8	1.6
10°-20°	1276.5	3.9
20°-30°	2383.1	7.3
30°-40°	4725.8	14.5
40°-50°	7534.7	23.1
50°-60°	9002.0	27.6
60°-70°	5901.4	18.1
70°-80°	1236.4	3.8
80°-90°	93.5	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°	32660.1	100.0
0°-180°	32660.1	100.0



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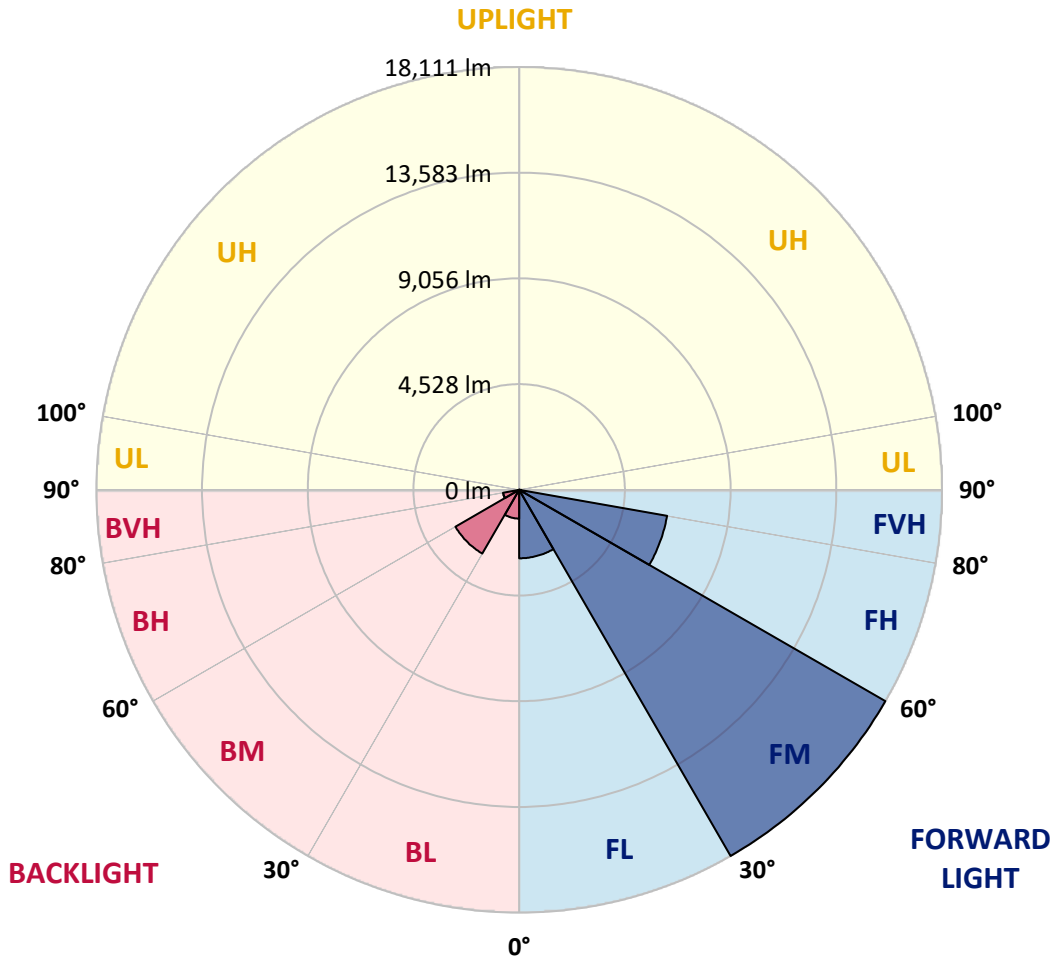
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2933.5	9.0			
FM	(30°-60°)	18111.3	55.5			
FH	(60°-80°)	6433.8	19.7			G3/7500
FVH	(80°-90°)	85.7	0.3			G1/100
BL	(0°-30°)	1232.8	3.8	B3/2500		
BM	(30°-60°)	3151.2	9.6	B3/5000		
BH	(60°-80°)	703.9	2.2	B2/1000		G2/1000
BVH	(80°-90°)	7.8	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°	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6
2.5°	5881.1	5862.9	5835.4	5844.6	5835.4	5798.8	5744.0	5698.2	5734.8	5679.9	5643.3
5°	6054.9	6054.9	6036.6	6036.6	6045.8	6027.5	5990.9	5926.9	5936.0	5890.3	5771.4
7.5°	6054.9	6027.5	6073.2	6119.0	6201.3	6247.0	6265.3	6228.7	6247.0	6155.5	6000.1
10°	5698.2	5679.9	5798.8	5972.6	6210.4	6420.8	6558.0	6567.1	6594.6	6503.1	6320.2
12.5°	4939.1	4902.5	5140.3	5469.6	5954.3	6439.1	6823.2	6969.6	7033.6	6997.0	6740.9
15°	4234.8	4280.5	4445.2	4801.9	5451.3	6192.1	6969.6	7454.3	7545.8	7591.5	7289.7
17.5°	4161.6	4170.8	4225.6	4399.4	4893.3	5789.7	6987.9	7957.4	8085.4	8286.7	7875.1
20°	4362.8	4344.5	4399.4	4454.3	4692.1	5433.0	6814.1	8442.1	8689.1	9119.0	8670.8
22.5°	4737.8	4737.8	4765.3	4801.9	4920.8	5405.5	6740.9	8890.3	9311.1	10189.1	9667.8
25°	5368.9	5295.8	5314.1	5268.3	5368.9	5734.8	6905.5	9247.0	9823.3	11378.1	10856.8
27.5°	6347.6	6375.1	6210.4	5963.5	6018.3	6329.3	7308.0	9649.5	10353.7	12612.9	12064.1
30°	7701.3	7655.6	7554.9	7070.2	6850.7	7125.1	8048.8	10308.0	11067.2	14177.0	13673.9
32.5°	8762.3	8890.3	8716.5	8378.1	8039.7	8122.0	9091.5	11369.0	11936.1	15612.9	15338.5
35°	10042.8	10042.8	10079.4	9603.7	9375.1	9356.8	10399.5	12521.4	13088.5	16911.7	17103.8
37.5°	11771.4	11652.5	11451.3	10920.8	10747.0	10975.7	11625.1	13710.5	14323.3	17963.6	18475.8
40°	13225.7	13308.0	13280.6	12512.3	12173.9	12420.8	12997.1	14725.7	15201.4	18640.4	19582.5
42.5°	14652.6	14698.3	14579.4	14213.5	13719.6	13737.9	14213.5	15494.0	15978.8	19289.8	20625.2
45°	15722.7	15713.6	15631.2	15539.8	15247.1	14945.3	15027.6	16344.7	16765.4	19500.2	21192.3
47.5°	16061.1	16134.3	16207.5	16463.6	16664.8	16189.2	15768.4	16802.0	17186.1	19463.6	21402.6
50°	15750.1	15905.6	16262.3	16646.5	17332.5	17295.9	16390.4	17295.9	17670.9	19664.8	21649.6
52.5°	15055.0	15210.5	15686.1	16381.2	17414.8	17927.0	17542.8	18128.2	18567.2	20177.0	22161.8
55°	13436.1	13500.1	14478.8	15393.4	17003.2	17652.6	18777.6	19536.8	19902.6	20799.0	22838.6
57.5°	10939.1	11094.6	12055.0	13545.8	15850.7	16930.0	19481.9	21942.3	21933.1	21393.5	22985.0
60°	*7198.2*	*7655.6*	*9219.6*	*10865.9*	*13619.0*	*15512.3*	*19436.1*	*24759.4*	*25042.9*	*20808.1*	*21219.7*
62.5°	5497.0	5689.1	6576.3	7948.2	10079.4	12859.9	19134.3	25600.8	25820.3	19234.9	18576.4
65°	4134.2	4372.0	5222.6	6448.2	7115.9	8716.5	17158.7	22253.2	22555.1	17167.8	14442.2
67.5°	2533.6	2725.6	3859.8	5295.8	5387.2	5414.7	11579.4	16856.9	16966.6	13847.7	9722.6
70°	1692.1	1884.2	2670.8	4070.2	4289.7	3118.9	6356.8	12759.3	12750.1	9475.7	5908.6
72.5°	978.7	1070.1	1692.1	3000.0	3375.0	1984.8	3173.8	8112.9	7756.2	4454.3	2762.2
75°	557.9	622.0	932.9	1929.9	2368.9	1262.2	1253.1	4344.5	3841.5	2295.8	1509.2
77.5°	338.4	365.9	512.2	1262.2	1426.8	850.6	695.1	2021.4	1948.2	1344.5	795.7
80°	164.6	192.1	311.0	740.9	914.6	457.3	420.7	795.7	850.6	740.9	420.7
82.5°	54.9	73.2	173.8	283.5	594.5	182.9	173.8	439.0	466.5	439.0	201.2
85°	27.4	36.6	82.3	91.5	228.7	91.5	64.0	192.1	237.8	146.3	82.3
87.5°	0.0	9.1	9.1	9.1	9.1	9.1	9.1	18.3	18.3	18.3	18.3
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°	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6
2.5°	5615.9	5597.6	5561.0	5497.0	5487.9	5442.1	5368.9	5323.2	5286.6	5314.1	5323.2
5°	5716.5	5670.8	5561.0	5387.2	5204.3	5021.4	4847.6	4646.4	4509.2	4490.9	4454.3
7.5°	5899.4	5808.0	5570.2	5231.8	4765.3	4326.3	3814.1	3320.2	3073.2	3036.6	2954.3
10°	6192.1	6036.6	5643.3	4957.4	4061.0	3146.4	2368.9	1838.4	1536.6	1481.7	1500.0
12.5°	6539.7	6320.2	5652.5	4490.9	3091.5	1948.2	1344.5	1143.3	1079.3	1051.8	1051.8
15°	6987.9	6667.7	5643.3	3887.2	2085.4	1253.1	1079.3	997.0	969.5	951.2	951.2
17.5°	7554.9	7134.2	5579.3	2981.7	1408.5	1088.4	987.8	923.8	887.2	878.1	878.1
20°	8222.6	7655.6	5433.0	2222.6	1179.9	1015.3	932.9	850.6	823.2	804.9	804.9
22.5°	9073.2	8286.7	5149.4	1728.7	1115.9	969.5	878.1	786.6	759.2	740.9	740.9
25°	10061.1	9091.5	4774.4	1554.9	1106.7	932.9	823.2	731.7	704.3	695.1	686.0
27.5°	11231.8	9951.3	4426.9	1564.0	1125.0	905.5	768.3	686.0	658.5	631.1	640.2
30°	12612.9	10838.5	4143.3	1673.8	1143.3	878.1	731.7	658.5	631.1	594.5	594.5
32.5°	13975.7	11881.2	4115.9	1875.0	1207.3	859.8	695.1	622.0	594.5	567.1	567.1
35°	15375.1	12832.4	4271.4	2140.3	1335.4	832.3	649.4	585.4	557.9	539.6	530.5
37.5°	16710.5	13591.6	4417.7	2304.9	1262.2	713.4	594.5	539.6	512.2	475.6	475.6
40°	17597.7	14003.2	4445.2	2176.8	1042.7	640.2	539.6	484.8	448.2	429.9	420.7
42.5°	18247.1	14268.4	4134.2	1765.3	905.5	585.4	493.9	439.0	411.6	393.3	393.3
45°	18512.4	14177.0	3603.7	1344.5	832.3	539.6	448.2	402.4	384.1	365.9	365.9
47.5°	18475.8	13756.2	3064.1	1079.3	759.2	493.9	420.7	384.1	365.9	347.6	338.4
50°	18411.7	13362.9	2515.3	960.4	676.8	466.5	393.3	365.9	338.4	320.1	311.0
52.5°	18832.5	13234.9	2085.4	878.1	631.1	448.2	384.1	347.6	320.1	301.8	301.8
55°	19253.2	13289.7	1637.2	823.2	585.4	439.0	375.0	338.4	311.0	283.5	283.5
57.5°	19225.8	13051.9	1243.9	768.3	548.8	429.9	365.9	329.3	283.5	265.2	265.2
60°	*17478.8*	*11643.4*	*969.5*	*704.3*	*503.1*	*402.4*	*338.4*	*311.0*	*265.2*	*237.8*	*237.8*
62.5°	14780.6	9155.6	795.7	622.0	448.2	365.9	311.0	283.5	237.8	192.1	192.1
65°	10920.8	6603.7	640.2	539.6	411.6	320.1	283.5	247.0	192.1	155.5	146.3
67.5°	7390.3	4061.0	512.2	448.2	365.9	274.4	237.8	210.4	173.8	128.0	118.9
70°	4381.1	2158.6	375.0	311.0	274.4	201.2	201.2	182.9	146.3	109.8	100.6
72.5°	2085.4	750.0	274.4	228.7	210.4	146.3	155.5	155.5	118.9	82.3	73.2
75°	1061.0	365.9	182.9	164.6	137.2	109.8	128.0	118.9	82.3	54.9	54.9
77.5°	603.7	256.1	128.0	109.8	91.5	73.2	82.3	73.2	45.7	27.4	27.4
80°	338.4	182.9	82.3	73.2	54.9	45.7	45.7	36.6	27.4	9.1	9.1
82.5°	128.0	109.8	54.9	36.6	27.4	27.4	18.3	18.3	9.1	0.0	0.0
85°	54.9	27.4	27.4	18.3	18.3	9.1	9.1	9.1	0.0	0.0	0.0
87.5°	9.1	9.1	9.1	9.1	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°	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6
2.5°	5250.0	5268.3	5286.6	5359.8	5378.1	5433.0	5478.7	5533.6	5542.7	5615.9	5615.9
5°	4527.5	4518.3	4673.8	4902.5	5048.8	5250.0	5405.5	5570.2	5661.6	5780.5	5835.4
7.5°	3000.0	3228.7	3576.3	3978.7	4500.0	4984.8	5350.7	5670.8	5890.3	6027.5	6082.4
10°	1490.9	1618.9	1984.8	2643.3	3530.5	4518.3	5295.8	5890.3	6247.0	6402.5	6503.1
12.5°	1051.8	1079.3	1143.3	1500.0	2350.6	3750.0	5122.0	6128.1	6622.0	6914.7	7042.7
15°	942.1	960.4	987.8	1088.4	1454.3	2798.8	4811.0	6393.3	7207.4	7545.8	7710.4
17.5°	868.9	878.1	905.5	987.8	1143.3	1902.5	4308.0	6676.9	7911.7	8323.2	8634.2
20°	804.9	804.9	832.3	932.9	1061.0	1463.4	3585.4	6997.0	8808.0	9402.5	9713.5
22.5°	731.7	750.0	768.3	878.1	1033.5	1335.4	2908.6	7244.0	9805.0	10527.5	10893.4
25°	676.8	695.1	713.4	823.2	1006.1	1335.4	2515.3	7399.5	10920.8	11780.6	12283.6
27.5°	631.1	649.4	676.8	786.6	978.7	1390.3	2359.8	7445.2	12137.3	13253.2	13930.0
30°	594.5	612.8	640.2	759.2	997.0	1454.3	2414.7	7381.2	13372.1	14771.5	15576.4
32.5°	557.9	576.2	603.7	731.7	997.0	1536.6	2597.6	7253.1	14570.2	16289.8	17277.6
35°	530.5	539.6	548.8	658.5	905.5	1527.5	2826.2	7125.1	15777.6	17789.8	18942.2
37.5°	475.6	484.8	503.1	567.1	722.6	1390.3	2872.0	6969.6	16728.8	19052.0	20323.3
40°	420.7	439.0	457.3	521.3	603.7	1125.0	2670.8	6640.3	17231.9	20021.5	21567.3
42.5°	384.1	393.3	411.6	475.6	557.9	896.3	2240.9	6064.1	17680.0	20680.1	22472.8
45°	356.7	365.9	384.1	429.9	521.3	777.4	1765.3	5359.8	17716.6	20890.4	22911.8
47.5°	329.3	338.4	347.6	393.3	503.1	695.1	1353.7	4719.6	17707.5	21164.8	23286.8
50°	311.0	320.1	338.4	375.0	475.6	622.0	1115.9	4198.2	18091.6	21759.3	24045.9
52.5°	301.8	301.8	329.3	365.9	448.2	567.1	932.9	3731.7	18292.8	22344.7	24594.7
55°	283.5	292.7	311.0	347.6	420.7	539.6	795.7	3146.4	18384.3	22637.4	24695.3
57.5°	265.2	274.4	301.8	329.3	402.4	512.2	686.0	2350.6	17076.4	21109.9	23012.4
60°	*237.8*	*256.1*	*292.7*	*320.1*	*375.0*	*466.5*	*603.7*	*1591.5*	*14405.6*	*18347.7*	*19939.2*
62.5°	192.1	228.7	265.2	283.5	338.4	393.3	512.2	1061.0	11506.2	15183.1	16994.0
65°	146.3	192.1	219.5	247.0	283.5	329.3	429.9	722.6	7673.8	10216.6	12256.2
67.5°	128.0	164.6	182.9	201.2	237.8	283.5	347.6	503.1	4655.5	6137.2	8149.5
70°	100.6	137.2	155.5	146.3	182.9	219.5	247.0	338.4	2378.1	3329.3	4637.2
72.5°	73.2	109.8	118.9	118.9	109.8	155.5	182.9	237.8	1033.5	1618.9	2103.7
75°	54.9	73.2	82.3	73.2	64.0	100.6	128.0	155.5	676.8	969.5	1225.6
77.5°	27.4	27.4	45.7	45.7	27.4	54.9	64.0	91.5	384.1	567.1	704.3
80°	9.1	0.0	0.0	9.1	0.0	18.3	27.4	45.7	201.2	301.8	439.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	100.6	91.5	228.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3	54.9
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: P1501779
CATALOG NUMBER: GSS-SB6C-727-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	5597.6	*5597.6*	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6	5597.6
2.5°	5661.6	*5661.6*	5698.2	5753.1	5780.5	5798.8	5808.0	5826.3	5899.4	5881.1
5°	5899.4	*5917.7*	5945.2	6000.1	6064.1	6045.8	6045.8	6045.8	6091.5	6054.9
7.5°	6210.4	*6265.3*	6274.4	6338.5	6292.7	6201.3	6146.4	6064.1	6054.9	6054.9
10°	6713.5	*6695.2*	6695.2	6612.9	6448.2	6183.0	5945.2	5780.5	5689.1	5698.2
12.5°	7253.1	*7179.9*	7189.1	6887.3	6420.8	5835.4	5350.7	4993.9	4966.5	4939.1
15°	7920.8	*7728.7*	7692.1	6997.0	6009.2	5112.8	4637.2	4353.7	4262.2	4234.8
17.5°	8872.0	*8387.3*	8213.5	6804.9	5469.6	4664.7	4308.0	4179.9	4170.8	4161.6
20°	9878.1	*8917.8*	8588.5	6521.4	5286.6	4673.8	4408.6	4372.0	4353.7	4362.8
22.5°	11048.9	*9256.2*	8835.4	6567.1	5451.3	4975.7	4765.3	4737.8	4719.6	4737.8
25°	12256.2	*9649.5*	9128.1	6933.0	5945.2	5533.6	5286.6	5231.8	5286.6	5368.9
27.5°	13472.7	*10180.0*	9704.4	7655.6	6740.9	6292.7	6054.9	6256.2	6338.5	6347.6
30°	14552.0	*10920.8*	10481.8	8670.8	7646.4	7198.2	7244.0	7500.1	7600.7	7701.3
32.5°	15539.8	*11908.6*	11570.2	9823.3	8817.1	8551.9	8524.5	8716.5	8826.3	8762.3
35°	16536.7	*13198.3*	12869.0	11076.3	10253.1	10033.6	9805.0	10180.0	10143.4	10042.8
37.5°	17478.8	*14497.1*	14195.2	12420.8	11570.2	11186.1	11149.5	11487.9	11789.7	11771.4
40°	18155.6	*15548.9*	15183.1	13756.2	12951.3	12622.1	12814.1	13399.5	13326.3	13225.7
42.5°	18777.6	*16445.3*	16116.0	14927.0	14085.5	14231.8	14405.6	14798.9	14753.2	14652.6
45°	19070.3	*17213.6*	16930.0	15814.2	15402.6	15869.0	15859.9	16006.2	15759.3	15722.7
47.5°	19481.9	*17762.3*	17469.7	16609.9	16975.8	17167.8	16628.2	16472.7	16244.0	16061.1
50°	20241.0	*18613.0*	18320.3	17817.2	18128.2	17533.7	16875.1	16536.7	16070.3	15750.1
52.5°	21128.2	*19902.6*	19646.5	19445.3	18576.4	17350.8	16509.3	15896.5	15329.4	15055.0
55°	22244.1	*21805.1*	21622.1	20515.4	18173.9	16600.8	15612.9	14469.6	13692.2	13436.1
57.5°	22610.0	*24594.7*	24530.7	20689.2	17048.9	15237.9	13454.4	11908.6	11103.8	10939.1
60°	*21530.7*	*26780.7*	*26552.1*	*20396.5*	*15009.3*	*12366.0*	*10280.6*	*8698.2*	*7390.3*	*7198.2*
62.5°	20149.6	*25106.9*	25024.6	18923.9	11433.0	8862.9	7683.0	6201.3	5643.3	5497.0
65°	17259.3	*20542.9*	20579.4	15183.1	7234.8	6365.9	6311.0	4929.9	4243.9	4134.2
67.5°	13289.7	*15759.3*	15503.2	9548.9	4216.5	5094.6	5039.7	3603.7	2606.7	2533.6
70°	7765.3	*11734.9*	11323.3	4966.5	2789.7	4253.1	3878.1	2533.6	1774.4	1692.1
72.5°	3429.9	*6457.4*	6933.0	2186.0	1966.5	3384.2	2798.8	1554.9	997.0	978.7
75°	1902.5	*3201.2*	3347.6	951.2	1381.1	2405.5	1692.1	868.9	567.1	557.9
77.5°	1143.3	*1417.7*	1381.1	612.8	1033.5	1536.6	1024.4	493.9	356.7	338.4
80°	640.2	*649.4*	548.8	448.2	612.8	859.8	576.2	311.0	164.6	164.6
82.5°	393.3	*356.7*	283.5	137.2	164.6	521.3	210.4	173.8	54.9	54.9
85°	164.6	*109.8*	73.2	27.4	64.0	137.2	73.2	82.3	27.4	27.4
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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

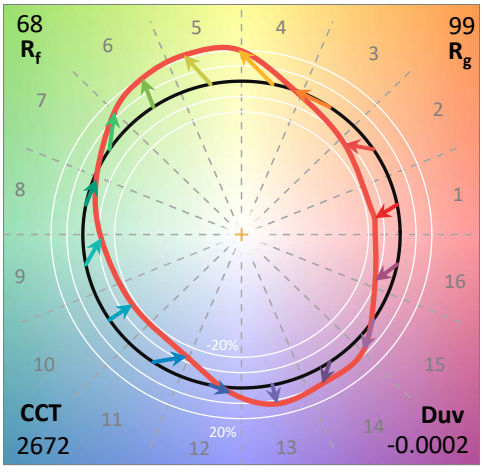
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-3
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-727-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672
CIE u':	0.2638
CIE v':	0.5276
Duv:	-0.0002
CIE x:	0.4619
CIE y:	0.4106
CIE z:	0.1275
Peak Wavelength (nm):	601
Dominant Wavelength (nm):	584
Purity:	61.88407
Rf:	67.9
Rg:	98.6

CRI (Ra):	71.1
R1:	68.3
R2:	79.8
R3:	91.2
R4:	69.4
R5:	66.5
R6:	72.6
R7:	77.0
R8:	44.1
R9:	-27.8
R10:	54.4
R11:	65.8
R12:	45.6
R13:	69.8
R14:	94.5
R15:	60.1



Test Conditions

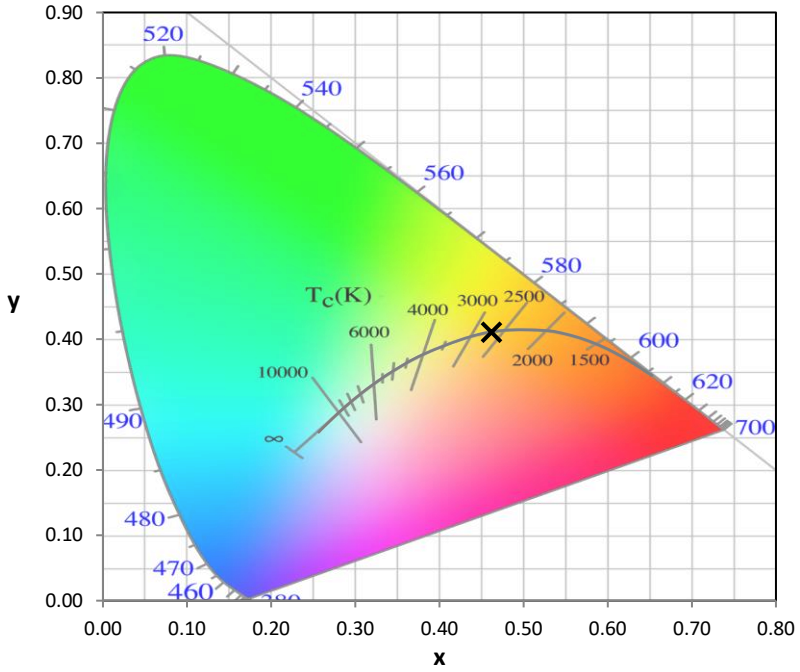
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-3

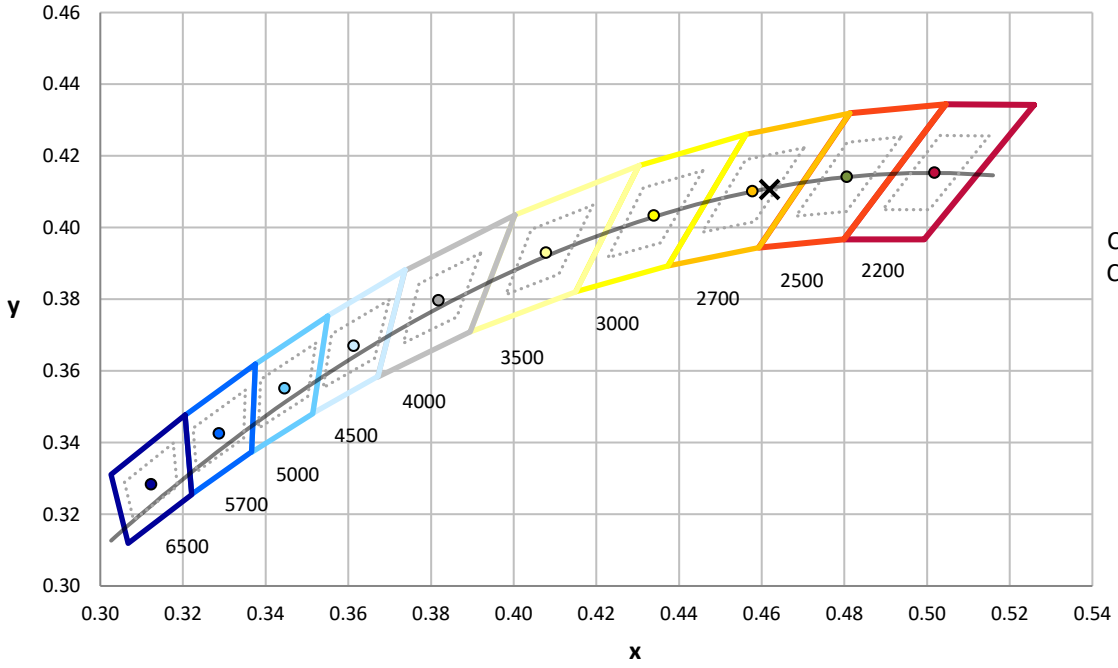
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-3

CIE 1931 Chromaticity Diagram



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

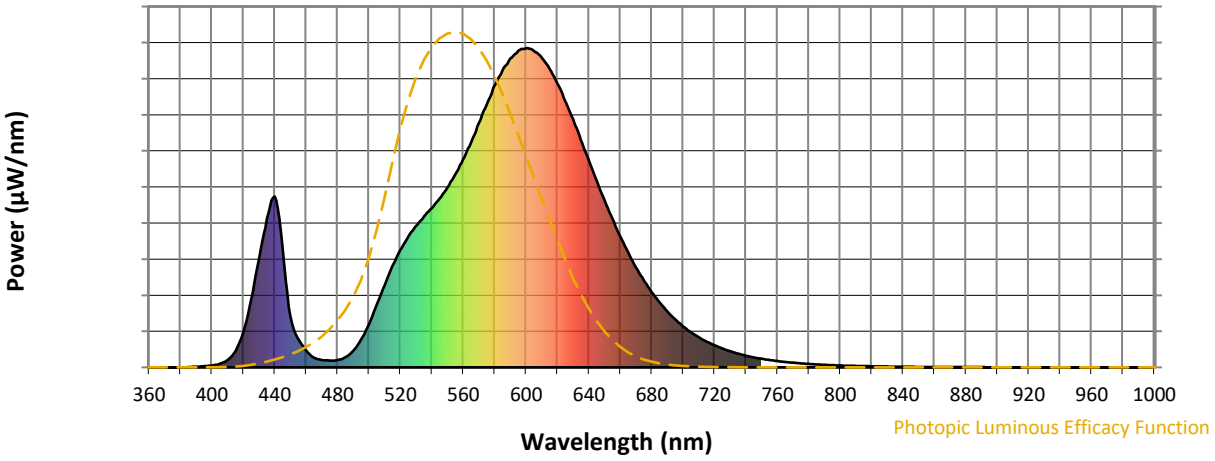


CCT = 2672K
CIE x = 0.4619
CIE y = 0.4106
Duv = -0.0002

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

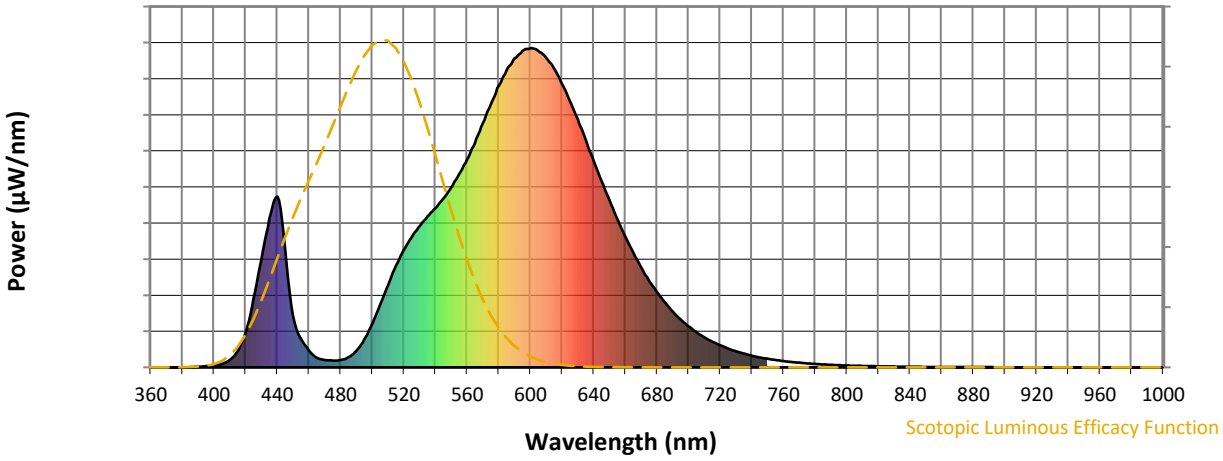


Photopic Lumens: NR

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength

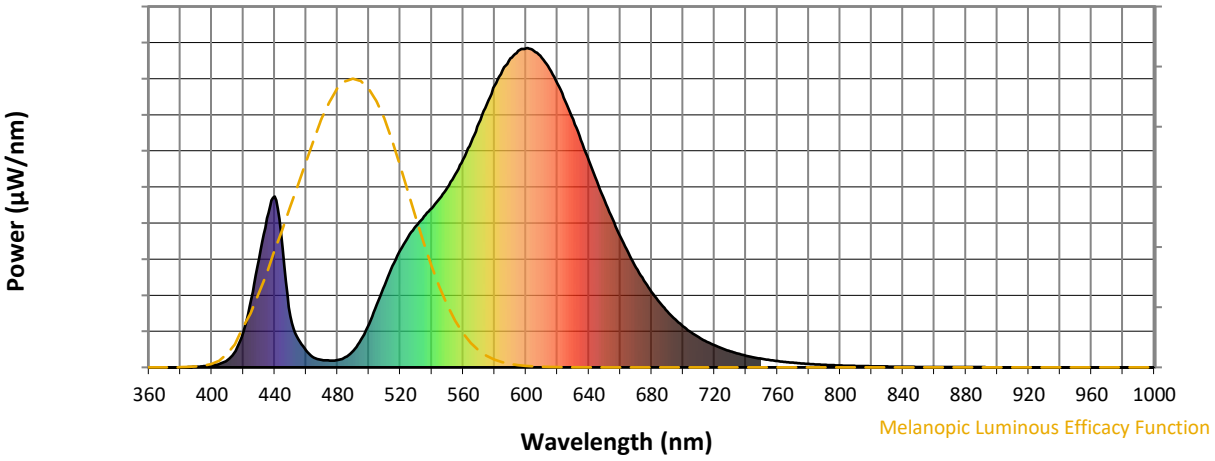


Scotopic Lumens: NR **S/P: 1.02**

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.71**

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

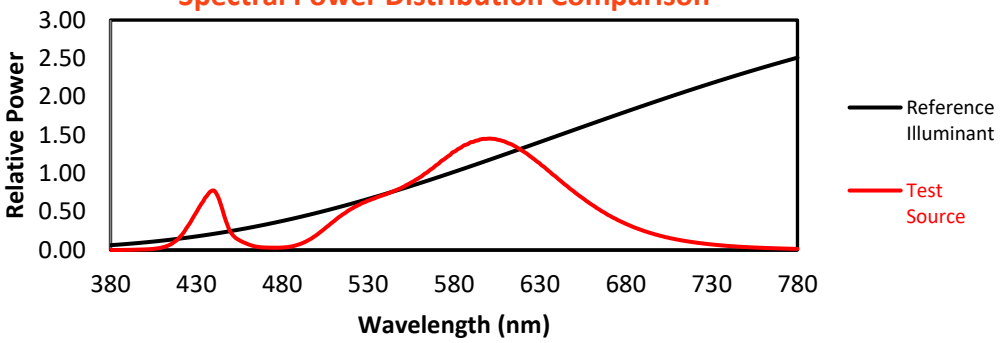
REPORT NUMBER: SP1-2407-184-3

TM-30-18

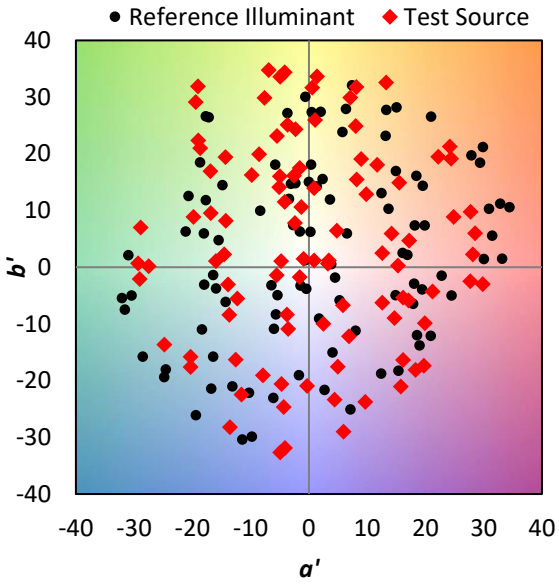
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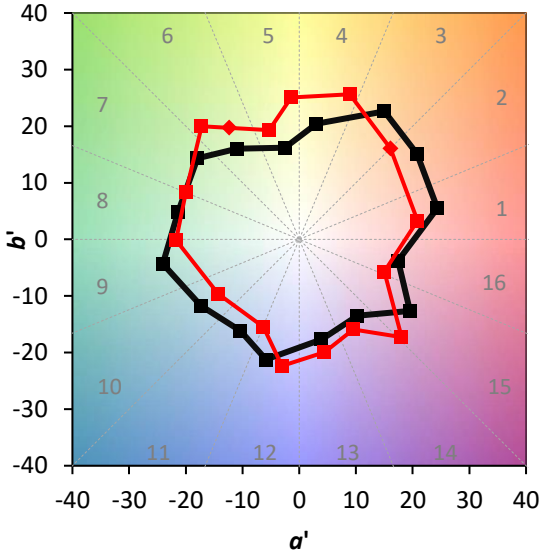
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R_g = 98.6
CIE R_a = 71.1
R_9 = -27.8

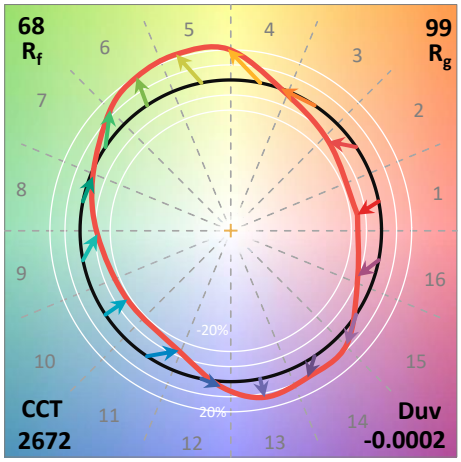
Spectral Power Distribution Comparison

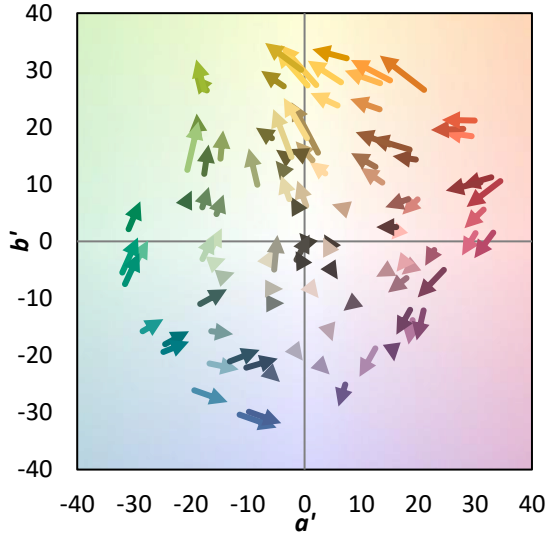


Color Vector Graphics







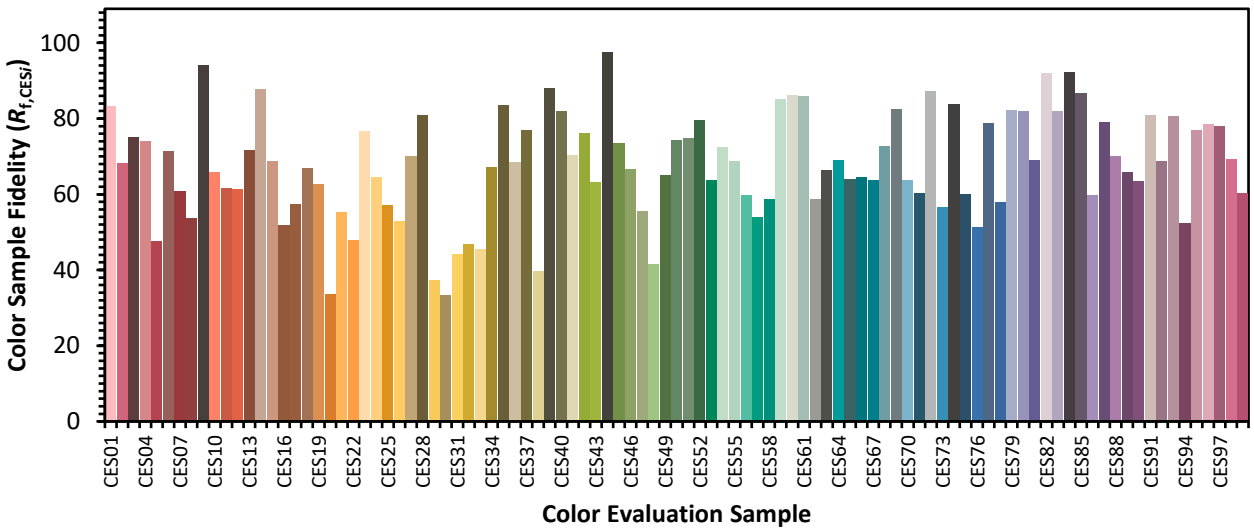


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Individual Sample Fidelity Index ($R_{f,i}$)

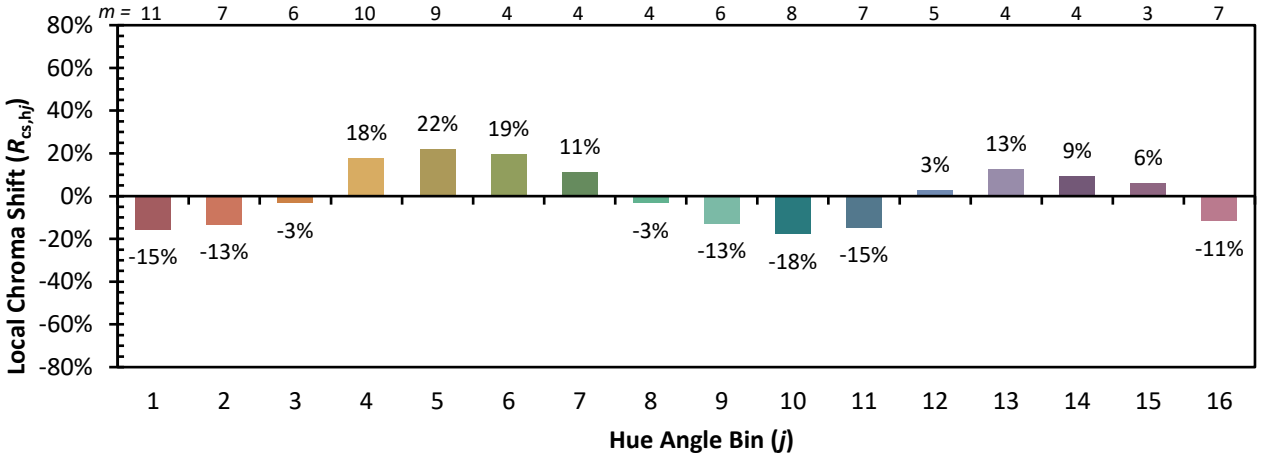
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CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	

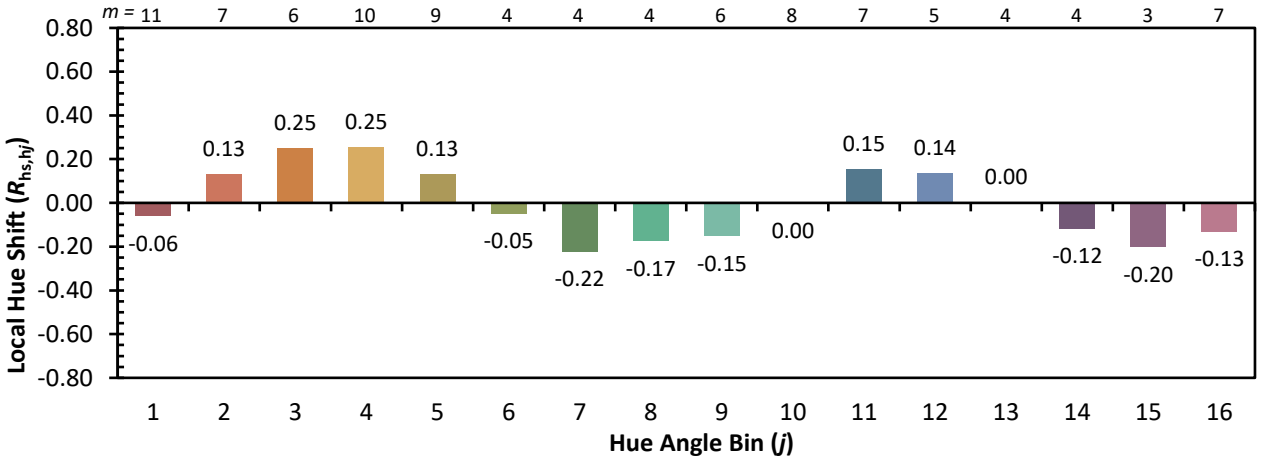


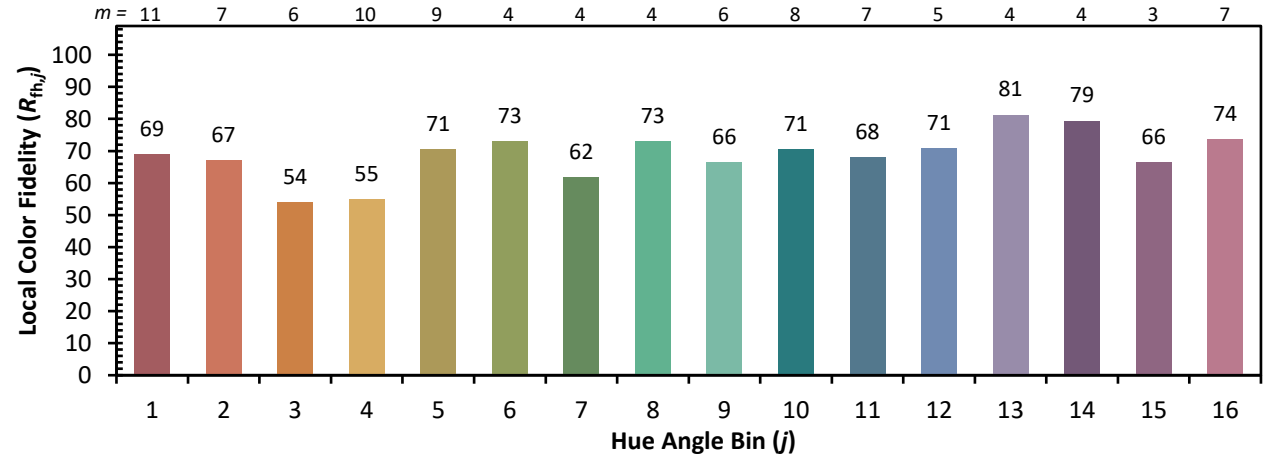
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Color Rendition by Hue-Angle Bin



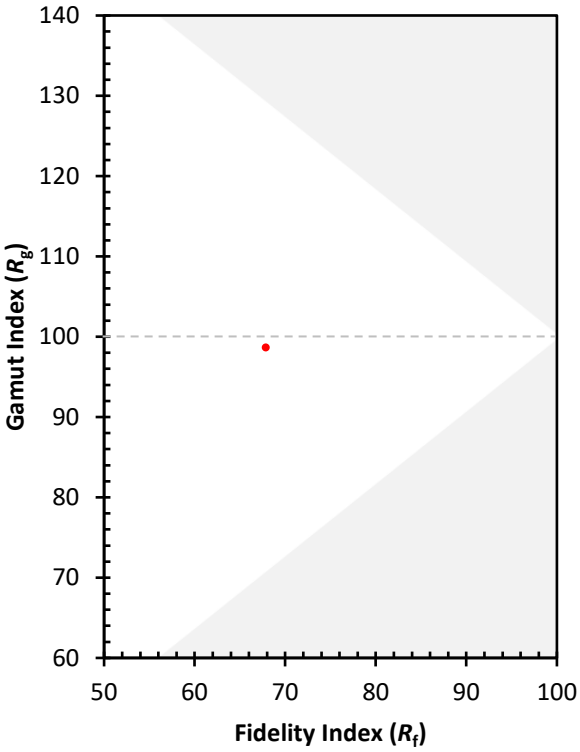


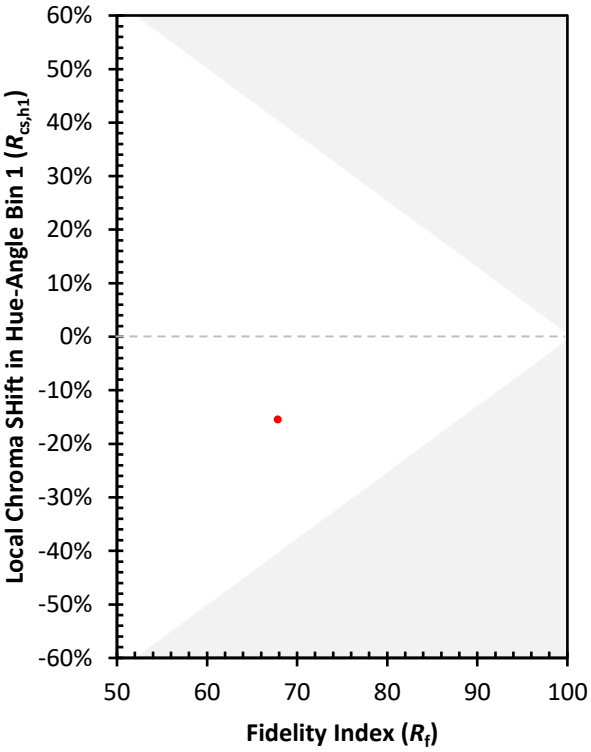


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Measure Comparisons





(END OF REPORT)