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: P1365337

Luminaire Tested: **GSS-SB5C-727-U-SLL-HSS**

Issue Date: 02/18/2026

Report Generated By 670245763

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1365337
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	02/18/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB5C-727-U-SLL-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 5SQUARE 252W 70CRI 2700K FIXTURE w/ 90° Spill Light Eliminator LETT OPTIC OPTIC AND HOUSE SIDE SHIELD
Light Source:	(130) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	25364.1 lumens
Efficiency:	N/A
Efficacy:	100.7 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G4

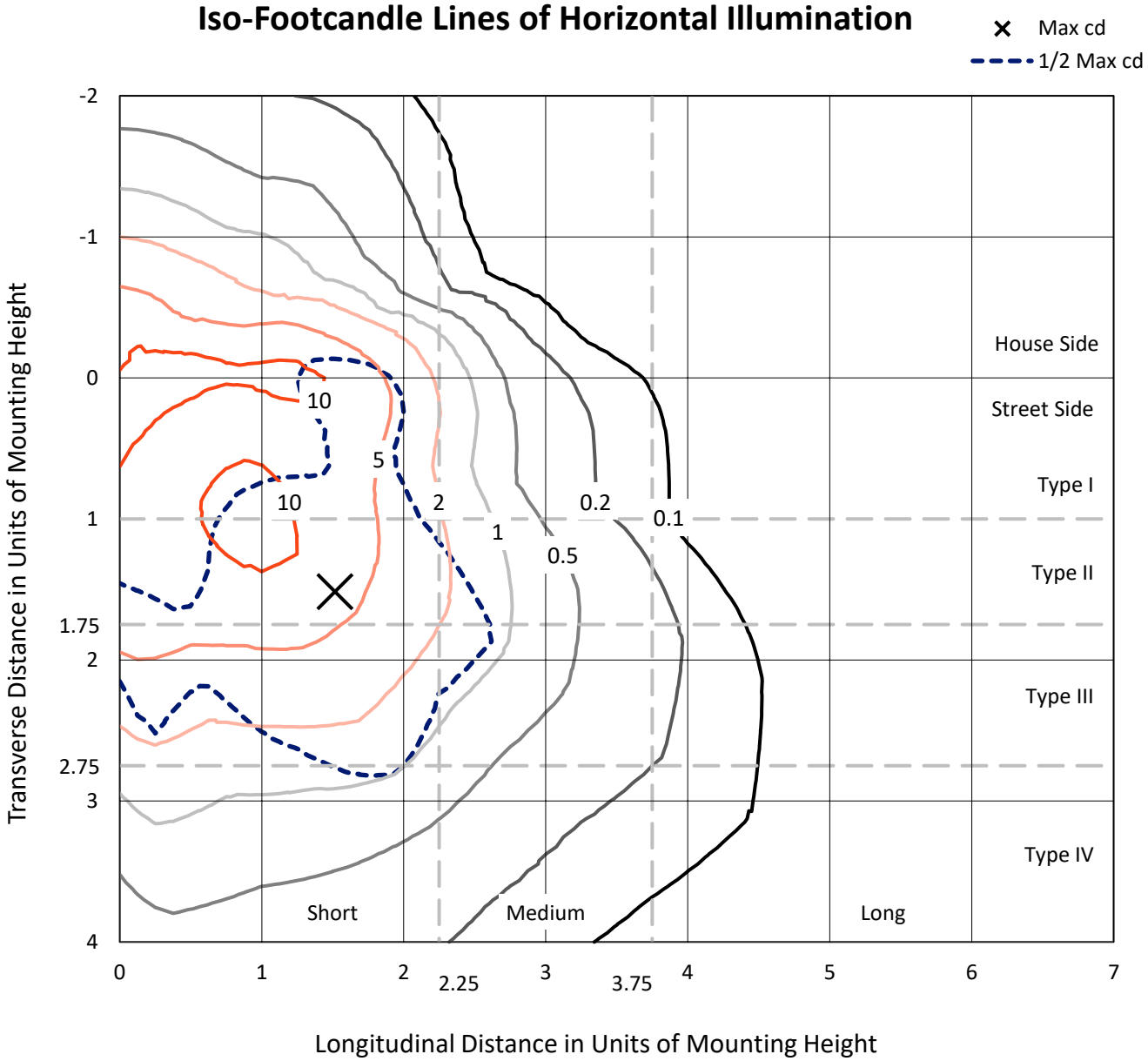
Input Watts (W):	252
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	7.9%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



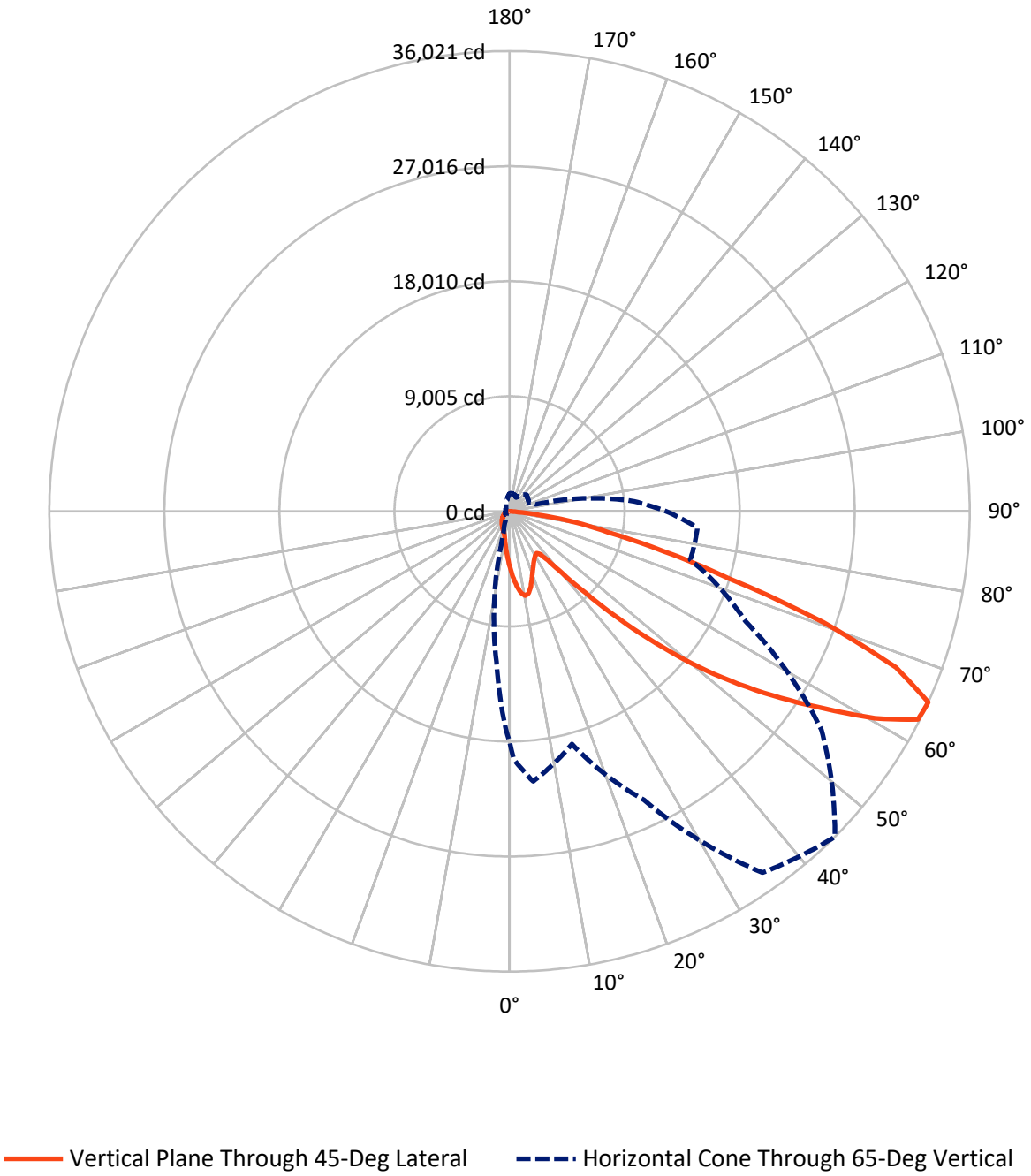
Based on 20 foot mounting height. Maximum calculated value = 16 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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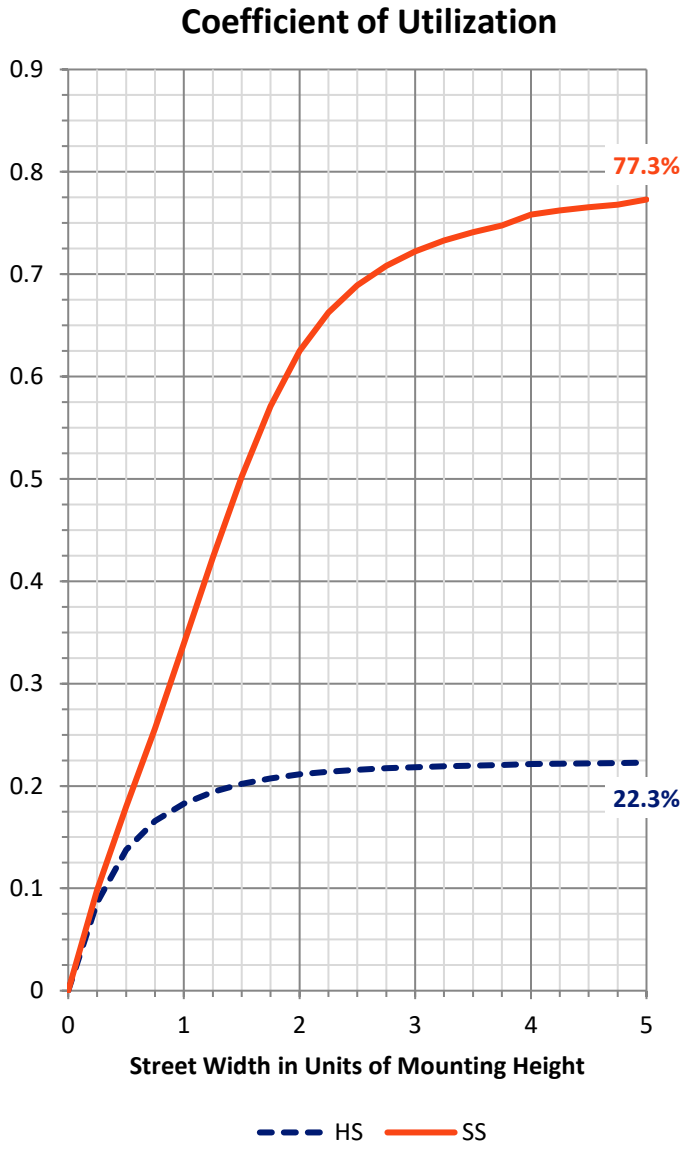
REPORT NUMBER: P1365337
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5705.6	0.0	5705.6
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	19658.5	0.0	19658.5
	% Fixture	77.5	0.0	77.5
Total	Lumens	25364.1	0.0	25364.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.1	1.7
10°-20°	1164.7	4.6
20°-30°	1668.3	6.6
30°-40°	2092.6	8.3
40°-50°	3437.5	13.6
50°-60°	6206.5	24.5
60°-70°	6890.2	27.2
70°-80°	3114.5	12.3
80°-90°	368.6	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°	25364.1	100.0
0°-180°	25364.1	100.0



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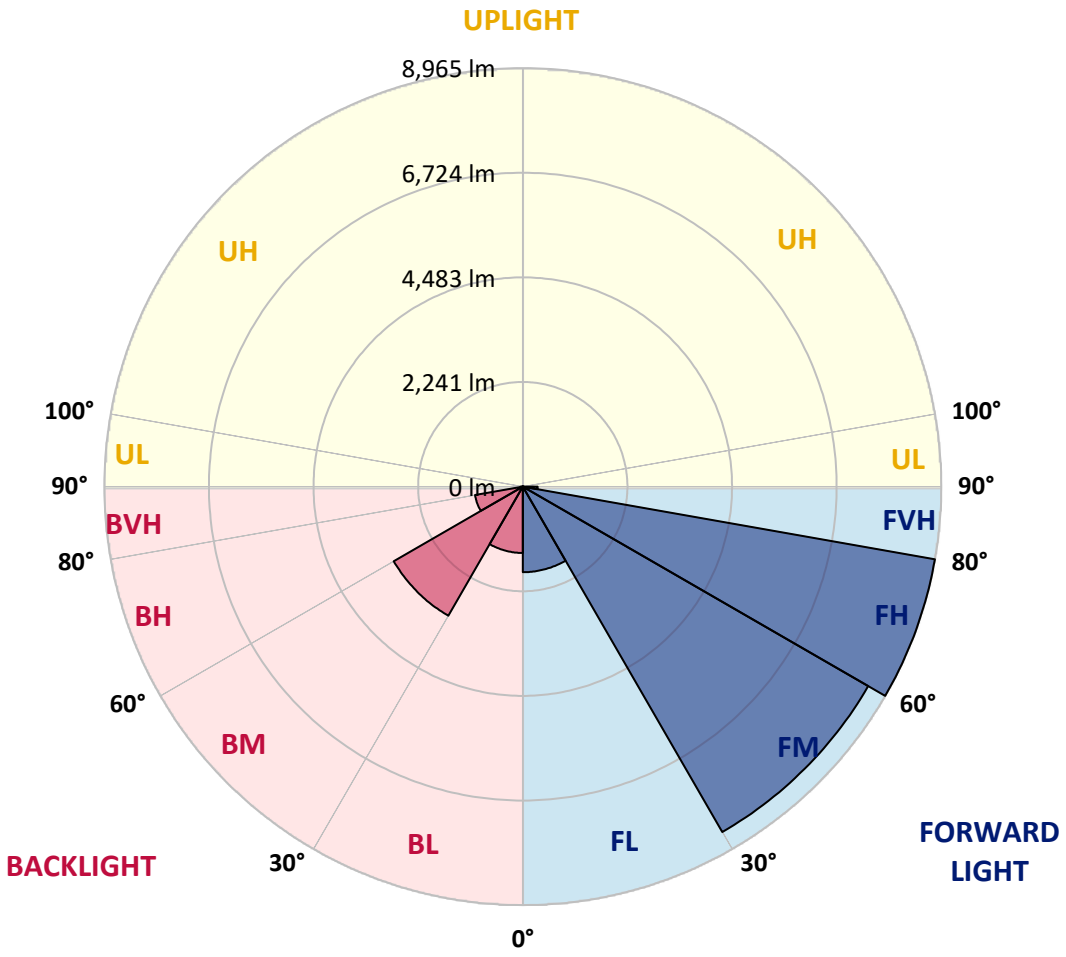
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1832.3	7.2			
FM	(30°-60°)	8544.3	33.7			
FH	(60°-80°)	8965.5	35.3			G4/12000
FVH	(80°-90°)	316.5	1.2			G3/500
BL	(0°-30°)	1421.8	5.6	B3/2500		
BM	(30°-60°)	3192.4	12.6	B3/5000		
BH	(60°-80°)	1039.3	4.1	B3/2500		G3/2500
BVH	(80°-90°)	52.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0
2.5°	4825.6	4887.9	4880.1	4965.7	5043.5	5098.0	5144.7	5129.2	5090.2	5012.4	4957.9
5°	5331.5	5378.2	5456.0	5619.5	5744.0	5853.0	5837.4	5853.0	5736.2	5619.5	5479.4
7.5°	5767.4	5821.9	5930.8	6164.3	6320.0	6452.3	6436.7	6390.0	6257.7	6063.1	5853.0
10°	6039.8	6078.7	6195.5	6460.1	6639.1	6748.1	6709.1	6631.3	6460.1	6265.5	6016.4
12.5°	6156.5	6203.2	6304.4	6514.6	6631.3	6608.0	6592.4	6576.8	6491.2	6343.3	6117.6
15°	6172.1	6203.2	6281.1	6374.5	6327.8	6195.5	6164.3	6281.1	6390.0	6358.9	6172.1
17.5°	6172.1	6218.8	6234.4	6141.0	5899.7	5658.4	5627.3	5821.9	6125.4	6366.7	6257.7
20°	6195.5	6218.8	6187.7	5884.1	5432.7	5168.1	5113.6	5354.9	5806.3	6281.1	6343.3
22.5°	6226.6	6249.9	6117.6	5580.6	5051.3	4771.1	4740.0	4919.0	5448.3	6156.5	6436.7
25°	6288.9	6273.3	6070.9	5316.0	4716.6	4452.0	4405.3	4638.8	5152.5	6032.0	6592.4
27.5°	6366.7	6296.6	6008.7	5098.0	4475.4	4195.2	4164.0	4389.7	4903.4	5876.3	6724.7
30°	6467.9	6397.8	6000.9	4926.8	4296.3	4016.1	3977.2	4226.3	4732.2	5767.4	6911.5
32.5°	6608.0	6506.8	6008.7	4794.5	4195.2	3930.5	3907.2	4171.8	4662.2	5705.1	7106.1
35°	6794.8	6646.9	6039.8	4747.8	4226.3	4047.3	4101.8	4304.1	4732.2	5751.8	7425.2
37.5°	7028.3	6888.2	6195.5	4849.0	4568.8	4693.3	4833.4	4911.2	5066.9	5969.7	7938.9
40°	7417.4	7222.8	6429.0	5175.9	5487.2	6070.9	6343.3	6312.2	5954.2	6467.9	8662.7
42.5°	7962.3	7783.2	6903.7	6008.7	7020.5	8258.0	8717.2	8452.6	7370.7	7261.8	9853.6
45°	8795.1	8499.3	7542.0	7246.2	8872.9	10904.3	11939.5	11028.8	9168.7	8514.9	11550.3
47.5°	9861.4	9565.6	8538.2	8483.7	10943.2	14173.3	15403.0	13612.9	10951.0	10157.1	13581.7
50°	11573.7	11246.8	10001.5	9744.6	13231.5	17434.4	19076.7	16189.1	12764.5	11900.6	16087.9
52.5°	13924.2	13706.3	12320.9	11044.4	15278.5	21030.3	22446.9	18882.1	14165.5	13893.1	18819.9
55°	17201.0	16990.8	15340.8	12492.1	17216.5	24633.9	25778.1	21333.9	15387.5	16228.0	21676.3
57.5°	20913.6	21263.8	19473.7	14422.3	19255.7	27537.1	29132.7	23559.9	17037.5	19349.1	24851.9
60°	23334.1	24439.4	24213.6	17792.5	22423.5	31148.5	32884.2	26540.8	19450.3	21645.2	24781.8
62.5°	21232.7	22337.9	24065.8	21699.7	25474.5	34417.5	35880.7	29677.5	21847.5	19816.1	20812.4
65°	18018.2	19395.8	21217.1	18851.0	24937.5	34518.7	36020.8	29794.2	20384.3	14648.1	14757.0
67.5°	15527.6	16749.5	18991.1	16041.2	22104.4	31436.5	32619.5	26579.8	16850.7	9713.5	9627.9
70°	12959.1	14079.9	16913.0	14282.2	19364.7	27093.4	26073.8	22345.7	14243.3	6452.3	5347.1
72.5°	11044.4	12079.6	15029.4	12834.6	15364.1	21956.5	17971.5	18539.7	11589.2	4101.8	3642.6
75°	9137.5	10087.1	12780.1	11620.4	12710.0	13698.5	12422.0	13169.2	9550.0	3479.1	2809.7
77.5°	6413.4	7004.9	8966.3	9246.5	9892.5	8110.1	7876.6	9223.1	6794.8	1727.9	1183.1
80°	3160.0	3525.8	4677.7	5502.7	4677.7	4599.9	5245.9	6141.0	3525.8	1058.5	653.8
82.5°	1416.5	1681.2	2156.0	3331.2	1689.0	1836.8	2319.4	3269.0	1603.3	630.4	280.2
85°	225.7	249.1	420.3	560.4	459.2	708.3	677.1	638.2	342.5	171.2	77.8
87.5°	7.8	7.8	7.8	15.6	23.3	31.1	38.9	38.9	38.9	38.9	38.9
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°	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0
2.5°	4942.4	4919.0	4802.3	4685.5	4584.3	4483.1	4382.0	4241.9	4132.9	4039.5	4000.6
5°	5409.3	5284.8	5105.8	4911.2	4740.0	4545.4	4358.6	4148.5	3977.2	3798.2	3704.8
7.5°	5728.5	5603.9	5308.2	5012.4	4802.3	4592.1	4397.5	4164.0	3938.3	3681.5	3541.4
10°	5876.3	5736.2	5417.1	5074.7	4817.8	4607.7	4428.7	4234.1	4008.4	3689.3	3502.5
12.5°	5977.5	5806.3	5440.5	5090.2	4833.4	4615.5	4444.2	4304.1	4171.8	3860.5	3642.6
15°	6039.8	5884.1	5502.7	5098.0	4810.0	4553.2	4389.7	4343.0	4366.4	4218.5	3953.9
17.5°	6133.2	5985.3	5580.6	5144.7	4771.1	4420.9	4241.9	4343.0	4553.2	4599.9	4389.7
20°	6257.7	6102.1	5681.8	5183.6	4654.4	4171.8	4000.6	4257.4	4607.7	4849.0	4732.2
22.5°	6397.8	6273.3	5798.5	5222.6	4483.1	3844.9	3767.1	4078.4	4452.0	4763.3	4771.1
25°	6569.1	6452.3	5962.0	5261.5	4249.6	3564.7	3580.3	3844.9	4140.7	4459.8	4514.3
27.5°	6802.5	6693.6	6164.3	5308.2	4008.4	3339.0	3416.8	3611.4	3813.8	4008.4	4086.2
30°	7059.4	6973.8	6405.6	5401.6	3782.7	3206.7	3253.4	3385.7	3549.2	3665.9	3704.8
32.5°	7409.6	7269.5	6631.3	5393.8	3611.4	3144.4	3097.7	3136.6	3269.0	3385.7	3393.5
35°	7845.5	7736.5	6864.8	5253.7	3455.8	3113.3	2949.8	2926.5	3004.3	3121.1	3113.3
37.5°	8483.7	8390.3	7246.2	5035.8	3261.2	3035.5	2794.2	2716.3	2770.8	2848.7	2872.0
40°	9441.1	9199.8	7682.1	4794.5	3066.6	2895.4	2607.4	2498.4	2537.3	2623.0	2638.5
42.5°	10740.9	10281.7	8265.8	4467.6	2879.8	2685.2	2420.6	2303.8	2327.2	2405.0	2420.6
45°	12406.5	11713.8	9067.5	4125.1	2731.9	2467.3	2226.0	2101.5	2124.8	2210.4	2249.4
47.5°	14352.3	13402.7	9908.1	3759.3	2646.3	2296.1	2031.4	1938.0	1992.5	2078.1	2093.7
50°	16648.3	15691.0	10445.1	3463.5	2591.8	2163.7	1852.4	1813.5	1883.5	1953.6	1969.2
52.5°	19154.5	17792.5	10102.6	3222.3	2545.1	2117.0	1727.9	1743.4	1797.9	1868.0	1891.3
55°	21590.7	18563.0	8966.3	2910.9	2490.6	2148.2	1634.5	1673.4	1743.4	1797.9	1813.5
57.5°	23178.5	17917.0	7222.8	2584.0	2428.4	2171.5	1587.8	1618.9	1696.7	1759.0	1766.8
60°	21793.1	16500.5	5409.3	2303.8	2296.1	2132.6	1572.2	1525.5	1634.5	1689.0	1696.7
62.5°	17854.7	13496.1	3455.8	2039.2	2047.0	2047.0	1564.4	1369.8	1509.9	1556.6	1548.9
65°	*12266.4*	*9542.2*	*2140.4*	*1665.6*	*1743.4*	*1860.2*	*1517.7*	*1206.4*	*1369.8*	*1416.5*	*1401.0*
67.5°	8063.4	6063.1	1323.2	1284.2	1432.1	1611.1	1424.3	1081.9	1229.8	1260.9	1214.2
70°	4374.2	2856.4	871.7	840.6	1120.8	1268.7	1206.4	972.9	1097.4	1128.6	1081.9
72.5°	2887.6	1642.3	614.9	614.9	879.5	887.3	988.5	871.7	972.9	1004.0	957.3
75°	2171.5	1058.5	428.1	474.8	560.4	692.7	708.3	731.6	825.0	863.9	817.2
77.5°	996.3	389.2	256.8	350.2	389.2	529.3	451.4	544.8	614.9	630.4	591.5
80°	576.0	217.9	171.2	225.7	249.1	435.9	264.6	326.9	435.9	459.2	412.5
82.5°	241.3	109.0	116.7	140.1	147.9	241.3	186.8	210.1	288.0	280.2	249.1
85°	70.0	70.0	77.8	85.6	85.6	140.1	132.3	124.5	132.3	132.3	109.0
87.5°	46.7	46.7	46.7	54.5	54.5	62.3	70.0	77.8	77.8	77.8	70.0
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°	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0
2.5°	3946.1	3876.1	3774.9	3759.3	3704.8	3665.9	3704.8	3743.7	3813.8	3821.6	3852.7
5°	3619.2	3455.8	3331.2	3191.1	3121.1	3113.3	3097.7	3144.4	3245.6	3307.9	3354.6
7.5°	3401.3	3105.5	2887.6	2693.0	2623.0	2568.5	2615.2	2607.4	2739.7	2794.2	2840.9
10°	3284.5	2872.0	2545.1	2303.8	2210.4	2156.0	2148.2	2163.7	2241.6	2296.1	2350.5
12.5°	3362.4	2778.6	2296.1	2015.9	1914.7	1852.4	1797.9	1797.9	1813.5	1883.5	1906.9
15°	3619.2	2833.1	2179.3	1875.8	1743.4	1642.3	1572.2	1517.7	1525.5	1533.3	1556.6
17.5°	3992.8	2973.2	2140.4	1790.1	1650.0	1525.5	1455.5	1393.2	1377.6	1377.6	1369.8
20°	4350.8	3082.2	2109.3	1720.1	1541.1	1432.1	1369.8	1315.4	1292.0	1292.0	1292.0
22.5°	4498.7	3175.6	2070.3	1634.5	1432.1	1330.9	1276.5	1237.5	1229.8	1229.8	1222.0
25°	4382.0	3144.4	2023.6	1548.9	1330.9	1253.1	1206.4	1167.5	1159.7	1167.5	1159.7
27.5°	4016.1	3035.5	1961.4	1478.8	1253.1	1183.1	1144.1	1105.2	1097.4	1105.2	1105.2
30°	3627.0	2848.7	1860.2	1424.3	1190.8	1113.0	1074.1	1035.2	1035.2	1043.0	1050.7
32.5°	3315.7	2661.9	1743.4	1354.3	1120.8	1050.7	1011.8	972.9	972.9	988.5	988.5
35°	3051.0	2514.0	1626.7	1284.2	1058.5	980.7	949.6	918.4	910.6	926.2	934.0
37.5°	2840.9	2381.7	1502.2	1214.2	996.3	926.2	895.1	856.2	848.4	863.9	879.5
40°	2623.0	2233.8	1393.2	1128.6	934.0	863.9	832.8	786.1	786.1	801.7	817.2
42.5°	2412.8	2101.5	1323.2	1050.7	871.7	793.9	762.8	723.8	723.8	739.4	755.0
45°	2241.6	1976.9	1284.2	972.9	801.7	731.6	692.7	661.6	669.4	684.9	700.5
47.5°	2078.1	1844.6	1292.0	934.0	755.0	661.6	622.7	599.3	614.9	638.2	653.8
50°	1953.6	1751.2	1299.8	871.7	692.7	607.1	568.2	552.6	576.0	599.3	614.9
52.5°	1875.8	1657.8	1253.1	793.9	646.0	552.6	529.3	529.3	552.6	568.2	583.7
55°	1797.9	1502.2	1151.9	708.3	599.3	513.7	498.1	498.1	521.5	537.0	544.8
57.5°	1735.7	1338.7	1035.2	638.2	544.8	474.8	474.8	474.8	482.6	490.3	505.9
60°	1618.9	1167.5	887.3	583.7	490.3	443.6	435.9	435.9	428.1	435.9	459.2
62.5°	1416.5	980.7	755.0	521.5	443.6	404.7	396.9	373.6	350.2	358.0	373.6
65°	*1198.6*	*778.3*	*630.4*	*451.4*	*381.4*	*358.0*	*350.2*	*311.3*	*280.2*	*288.0*	*311.3*
67.5°	957.3	583.7	529.3	389.2	326.9	303.5	303.5	280.2	256.8	256.8	272.4
70°	747.2	490.3	396.9	311.3	256.8	256.8	272.4	249.1	217.9	217.9	241.3
72.5°	607.1	396.9	319.1	241.3	202.4	217.9	225.7	202.4	179.0	179.0	194.6
75°	474.8	311.3	249.1	179.0	155.7	163.4	179.0	163.4	140.1	147.9	155.7
77.5°	326.9	210.1	163.4	132.3	116.7	124.5	124.5	116.7	109.0	109.0	116.7
80°	217.9	140.1	109.0	93.4	85.6	85.6	77.8	77.8	85.6	85.6	93.4
82.5°	155.7	101.2	85.6	70.0	54.5	54.5	62.3	62.3	70.0	70.0	77.8
85°	93.4	70.0	62.3	46.7	38.9	46.7	46.7	54.5	62.3	62.3	70.0
87.5°	70.0	54.5	46.7	38.9	31.1	31.1	38.9	38.9	46.7	54.5	54.5
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: P1365337
CATALOG NUMBER: GSS-SB5C-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0	4382.0
2.5°	3930.5	4023.9	4156.2	4273.0	4413.1	4553.2	4685.5	4810.0	4817.8	4825.6
5°	3502.5	3689.3	3907.2	4171.8	4452.0	4724.4	5012.4	5245.9	5300.4	5331.5
7.5°	3027.7	3300.1	3634.8	4008.4	4428.7	4849.0	5253.7	5603.9	5736.2	5767.4
10°	2529.6	2864.2	3269.0	3751.5	4319.7	4880.1	5424.9	5853.0	6008.7	6039.8
12.5°	2085.9	2358.3	2825.3	3409.1	4094.0	4833.4	5487.2	5962.0	6117.6	6156.5
15°	1704.5	1961.4	2397.2	3012.1	3782.7	4669.9	5440.5	5985.3	6141.0	6172.1
17.5°	1408.8	1572.2	1969.2	2638.5	3502.5	4459.8	5378.2	6000.9	6148.8	6172.1
20°	1292.0	1323.2	1533.3	2187.1	3206.7	4304.1	5339.3	6024.2	6172.1	6195.5
22.5°	1237.5	1237.5	1284.2	1665.6	2794.2	4140.7	5323.7	6094.3	6203.2	6226.6
25°	1183.1	1183.1	1198.6	1307.6	2303.8	3938.3	5354.9	6218.8	6288.9	6288.9
27.5°	1128.6	1128.6	1144.1	1167.5	1712.3	3603.6	5362.6	6358.9	6390.0	6366.7
30°	1074.1	1089.7	1089.7	1105.2	1260.9	3183.3	5316.0	6514.6	6514.6	6467.9
32.5°	1019.6	1027.4	1043.0	1050.7	1097.4	2638.5	5238.1	6709.1	6670.2	6608.0
35°	972.9	980.7	980.7	996.3	1043.0	2109.3	5152.5	6973.8	6864.8	6794.8
37.5°	910.6	918.4	926.2	941.8	988.5	1673.4	5028.0	7199.5	7121.7	7028.3
40°	856.2	863.9	871.7	887.3	934.0	1439.9	4872.3	7542.0	7526.4	7417.4
42.5°	793.9	809.5	817.2	825.0	887.3	1315.4	4763.3	8094.6	8094.6	7962.3
45°	739.4	755.0	755.0	770.5	856.2	1206.4	5004.6	8857.3	8919.6	8795.1
47.5°	692.7	700.5	700.5	708.3	809.5	1113.0	5650.6	10024.8	9947.0	9861.4
50°	646.0	661.6	646.0	653.8	770.5	1167.5	6716.9	11519.2	11721.6	11573.7
52.5°	614.9	622.7	591.5	591.5	716.1	1237.5	7588.7	13426.1	14103.2	13924.2
55°	576.0	583.7	544.8	544.8	630.4	1074.1	7643.1	15597.6	17084.2	17201.0
57.5°	537.0	537.0	505.9	498.1	544.8	871.7	6779.2	17278.8	20648.9	20913.6
60°	490.3	482.6	467.0	451.4	498.1	801.7	5168.1	17053.1	22415.7	23334.1
62.5°	420.3	435.9	428.1	396.9	451.4	747.2	3370.1	14757.0	20423.2	21232.7
65°	*350.2*	*373.6*	*373.6*	*350.2*	*498.1*	*653.8*	*1774.6*	*11815.0*	*17045.3*	*18018.2*
67.5°	311.3	326.9	319.1	303.5	443.6	412.5	856.2	9059.7	14593.6	15527.6
70°	272.4	288.0	264.6	249.1	358.0	295.8	505.9	6063.1	12048.4	12959.1
72.5°	225.7	241.3	217.9	194.6	264.6	225.7	334.7	3946.1	10032.6	11044.4
75°	186.8	194.6	179.0	155.7	194.6	179.0	233.5	2576.3	8390.3	9137.5
77.5°	132.3	147.9	140.1	116.7	140.1	124.5	163.4	1471.0	5853.0	6413.4
80°	101.2	101.2	101.2	93.4	85.6	85.6	109.0	661.6	2840.9	3160.0
82.5°	85.6	85.6	77.8	70.0	62.3	54.5	62.3	194.6	1338.7	1416.5
85°	77.8	62.3	54.5	46.7	38.9	23.3	23.3	54.5	272.4	225.7
87.5°	46.7	38.9	31.1	15.6	7.8	7.8	0.0	7.8	7.8	7.8
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

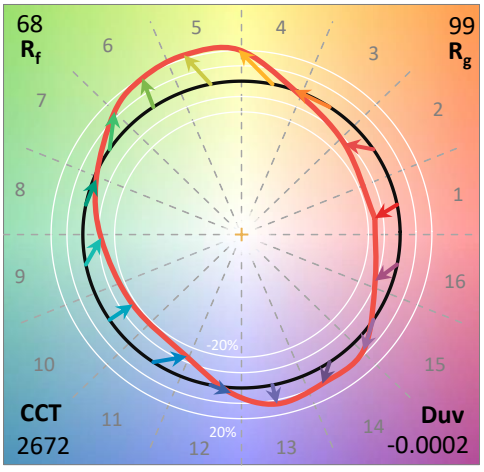
Test Information

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

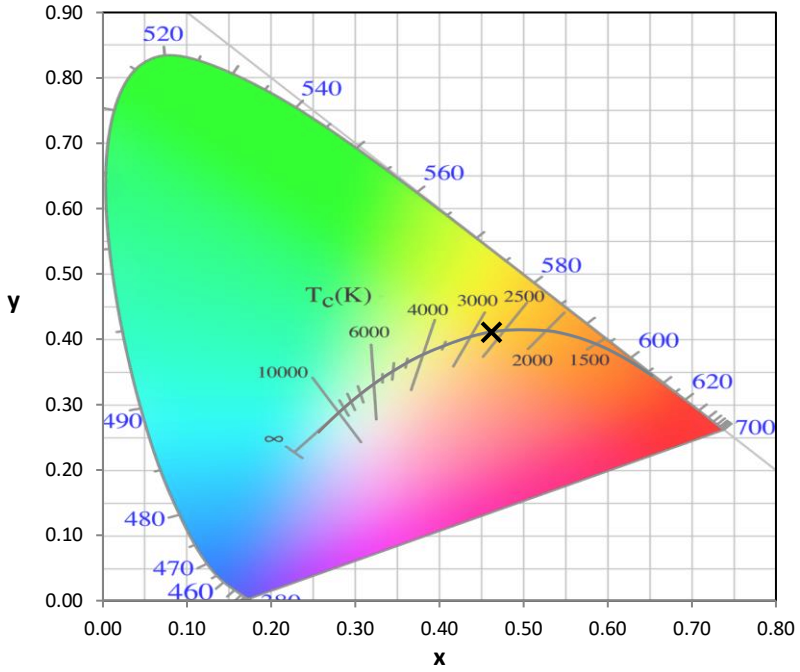
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-3

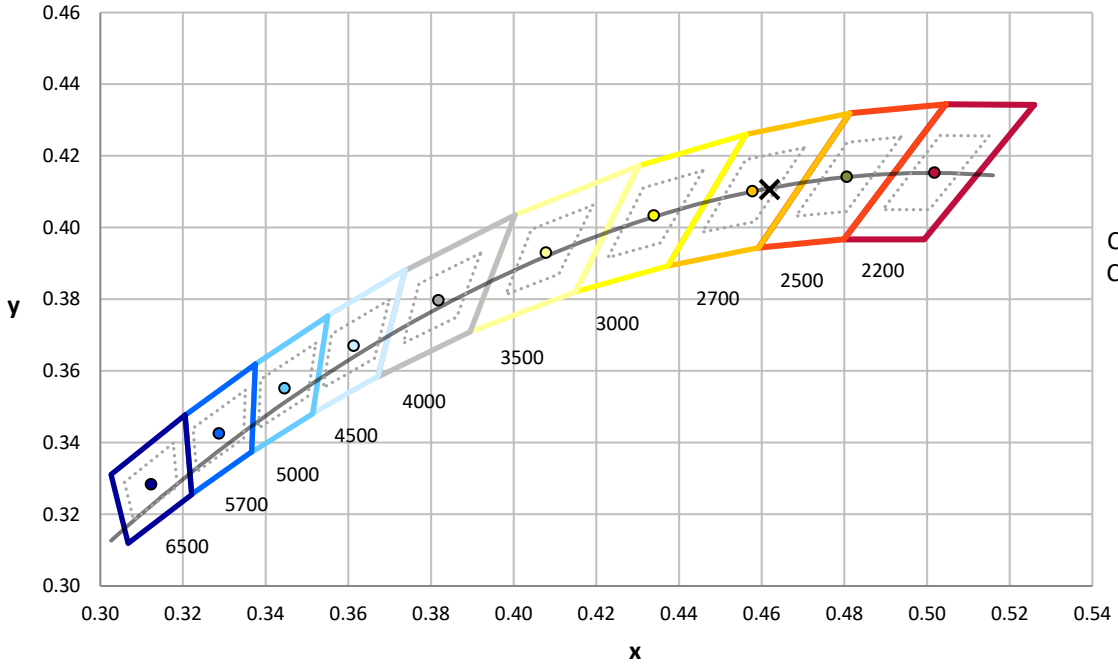
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

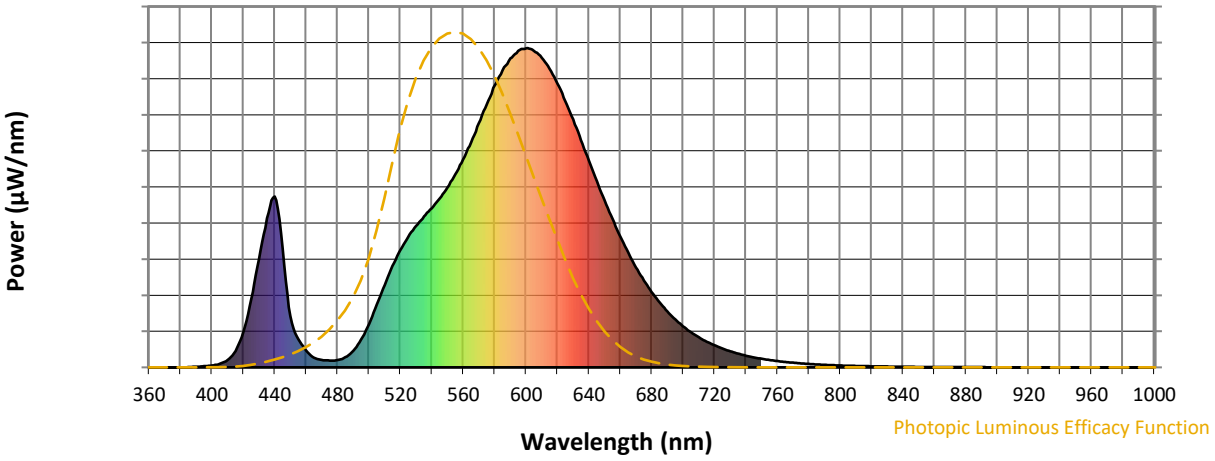


CCT = 2672K
CIE x = 0.4619
CIE y = 0.4106
Duv = -0.0002

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

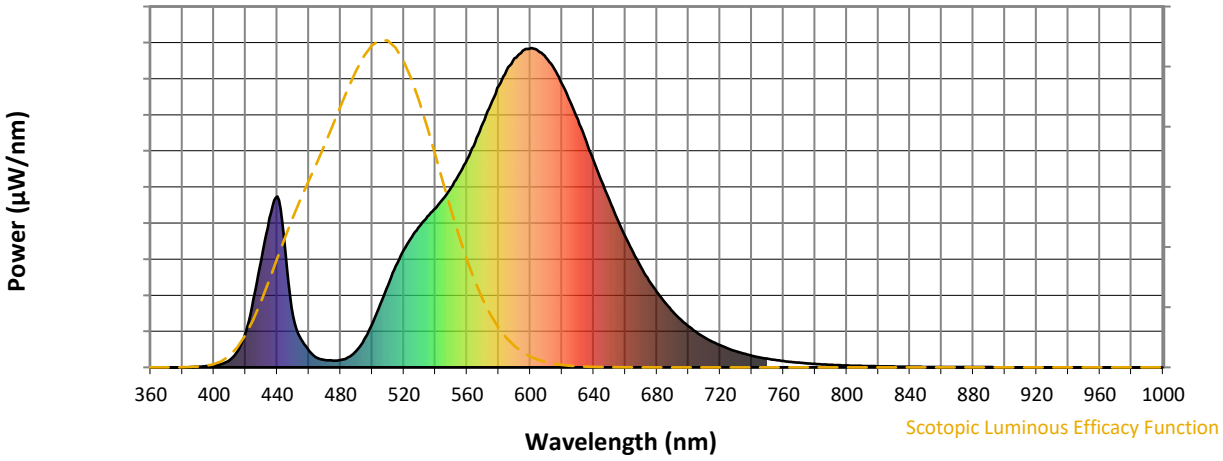


Photopic Lumens: NR

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

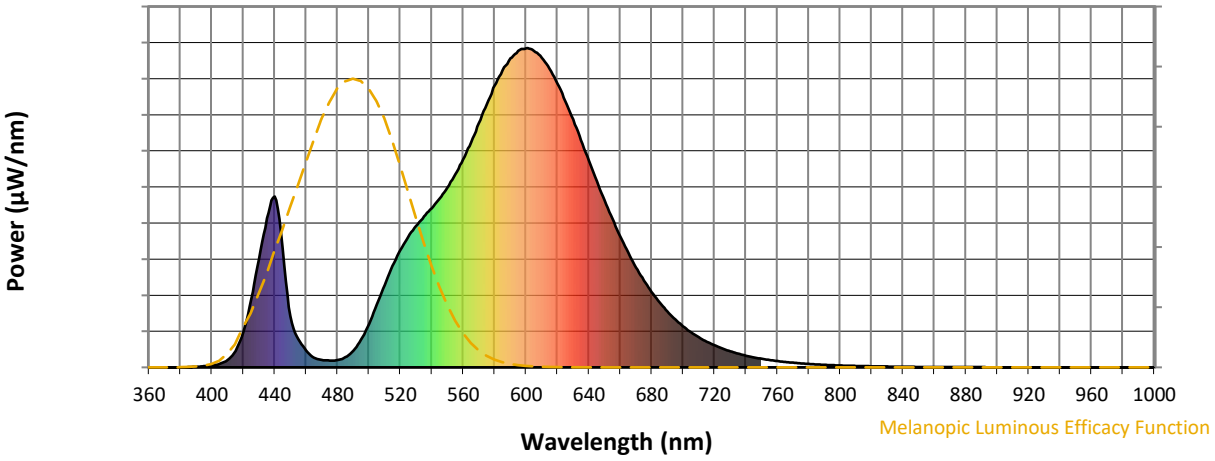


Scotopic Lumens: NR **S/P: 1.02**

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			

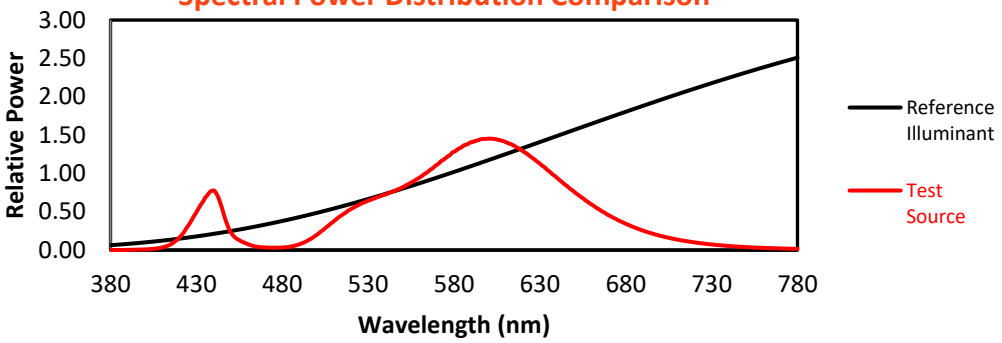
REPORT NUMBER: SP1-2407-184-3

TM-30-18

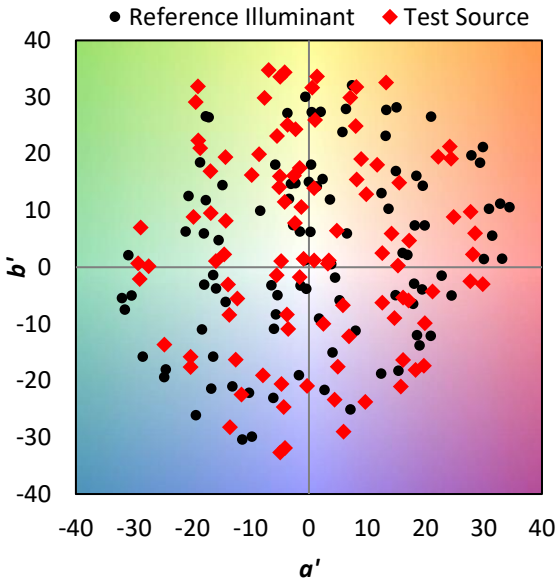
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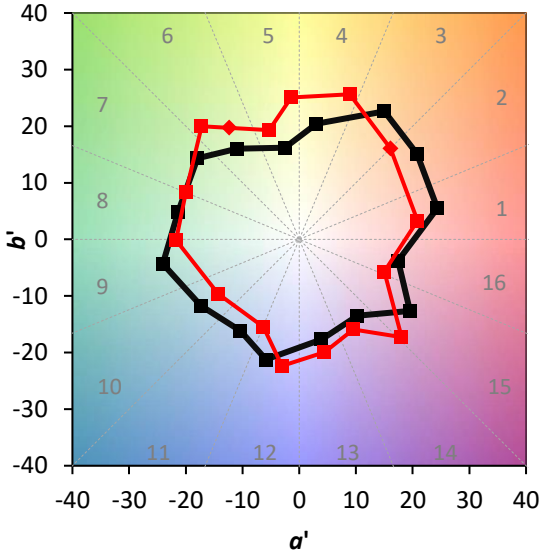
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R_g = 98.6
CIE R_a = 71.1
R_9 = -27.8

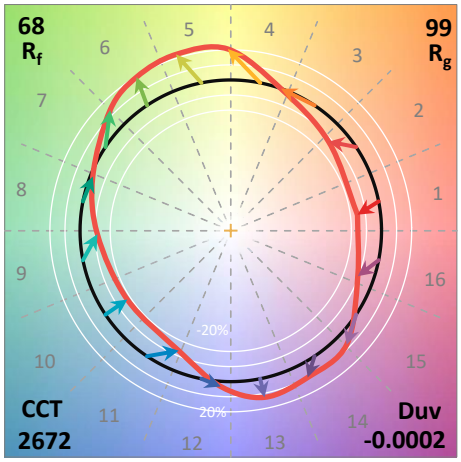
Spectral Power Distribution Comparison

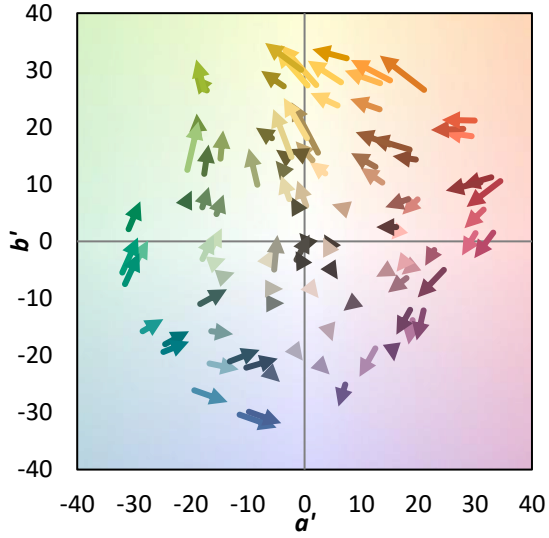


Color Vector Graphics







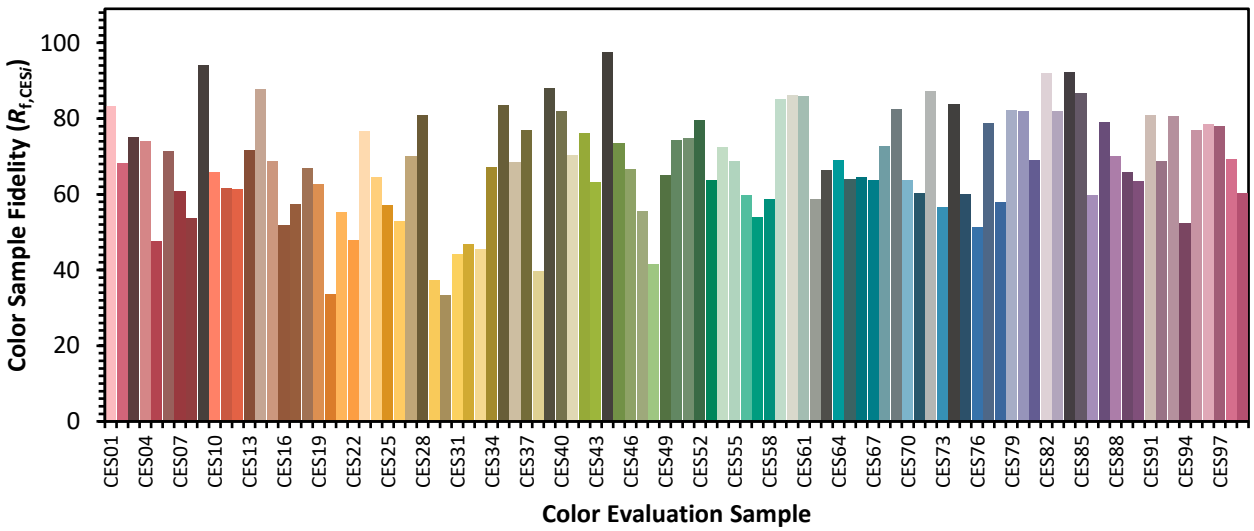


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Individual Sample Fidelity Index ($R_{f,i}$)

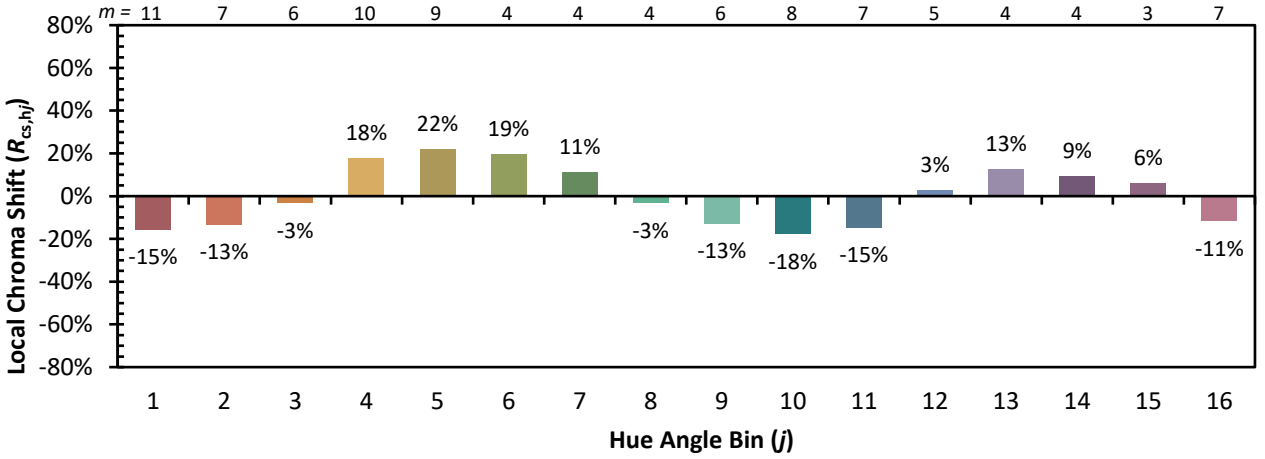
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CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 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	

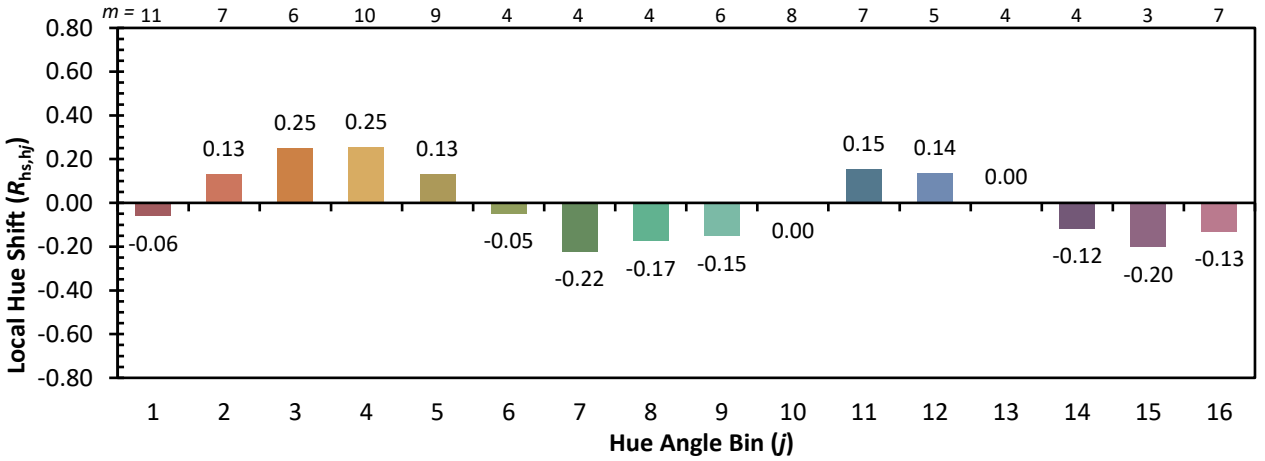


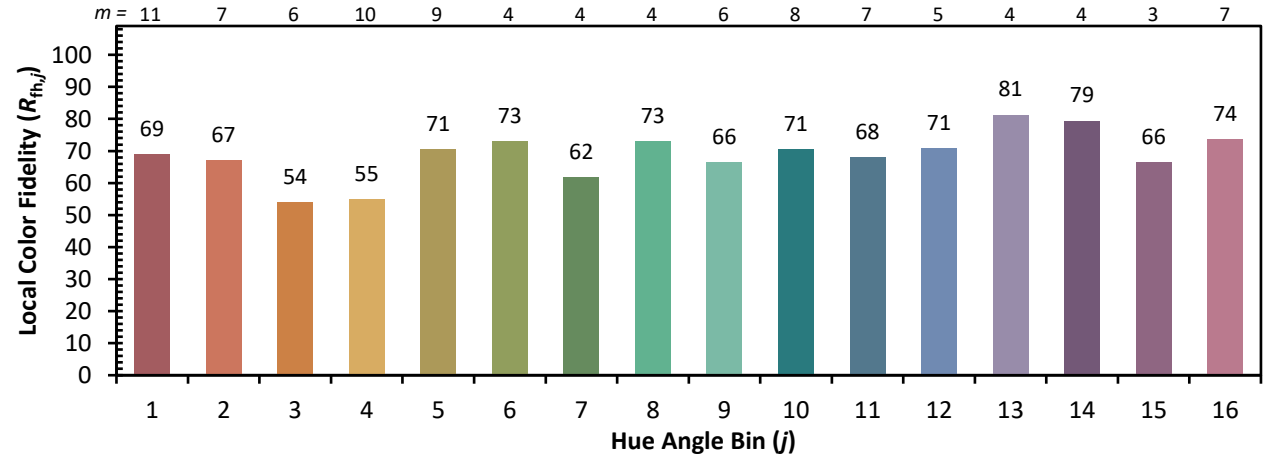
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Color Rendition by Hue-Angle Bin



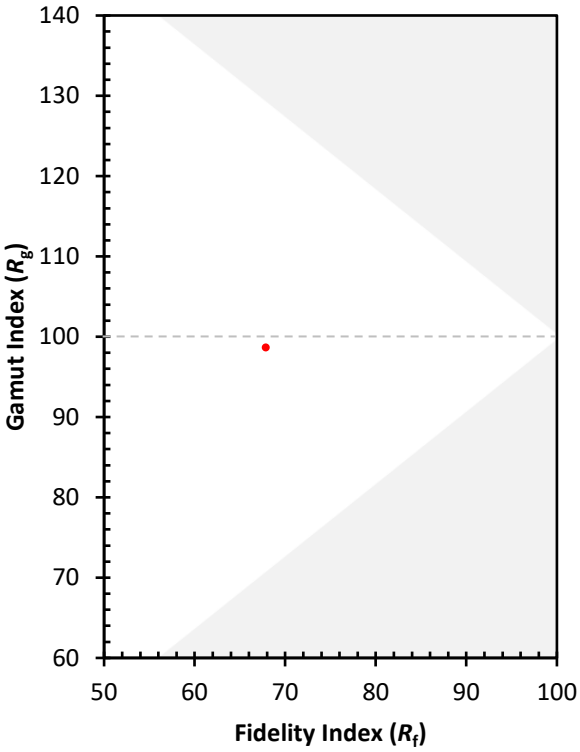


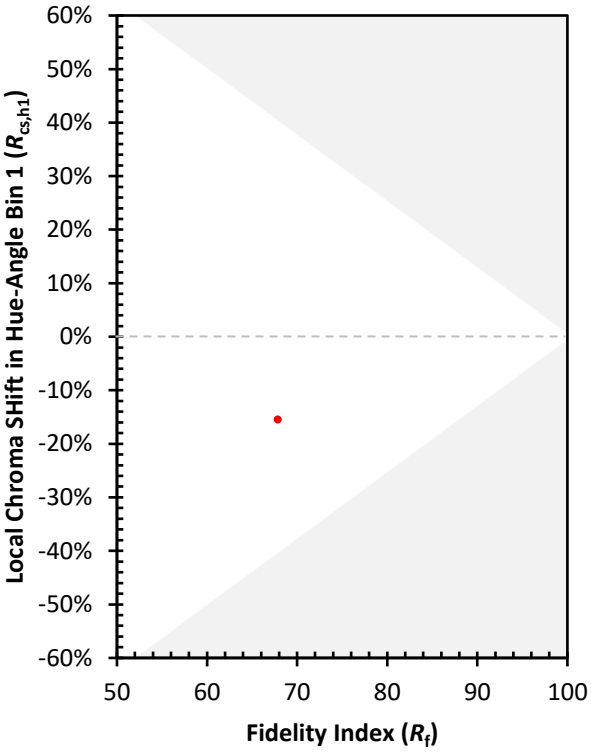


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Measure Comparisons





(END OF REPORT)