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: P1501532

Luminaire Tested: GSS-SB4D-830-U-T2LG

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:	P1501532
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4D-830-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 238W 80CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(104) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	28665.3 lumens
Efficiency:	N/A
Efficacy:	120.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

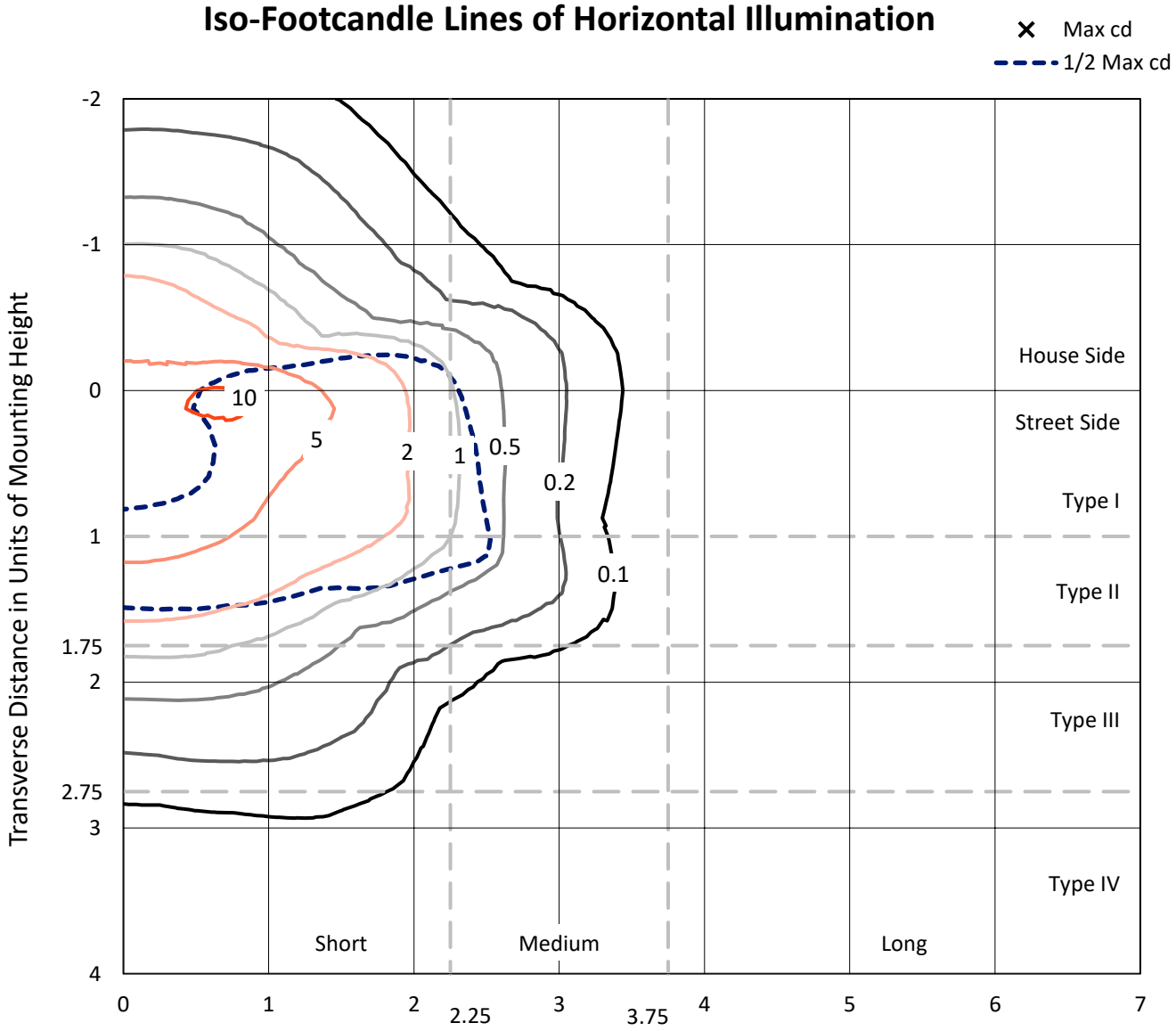
Input Watts (W):	238
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	--
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



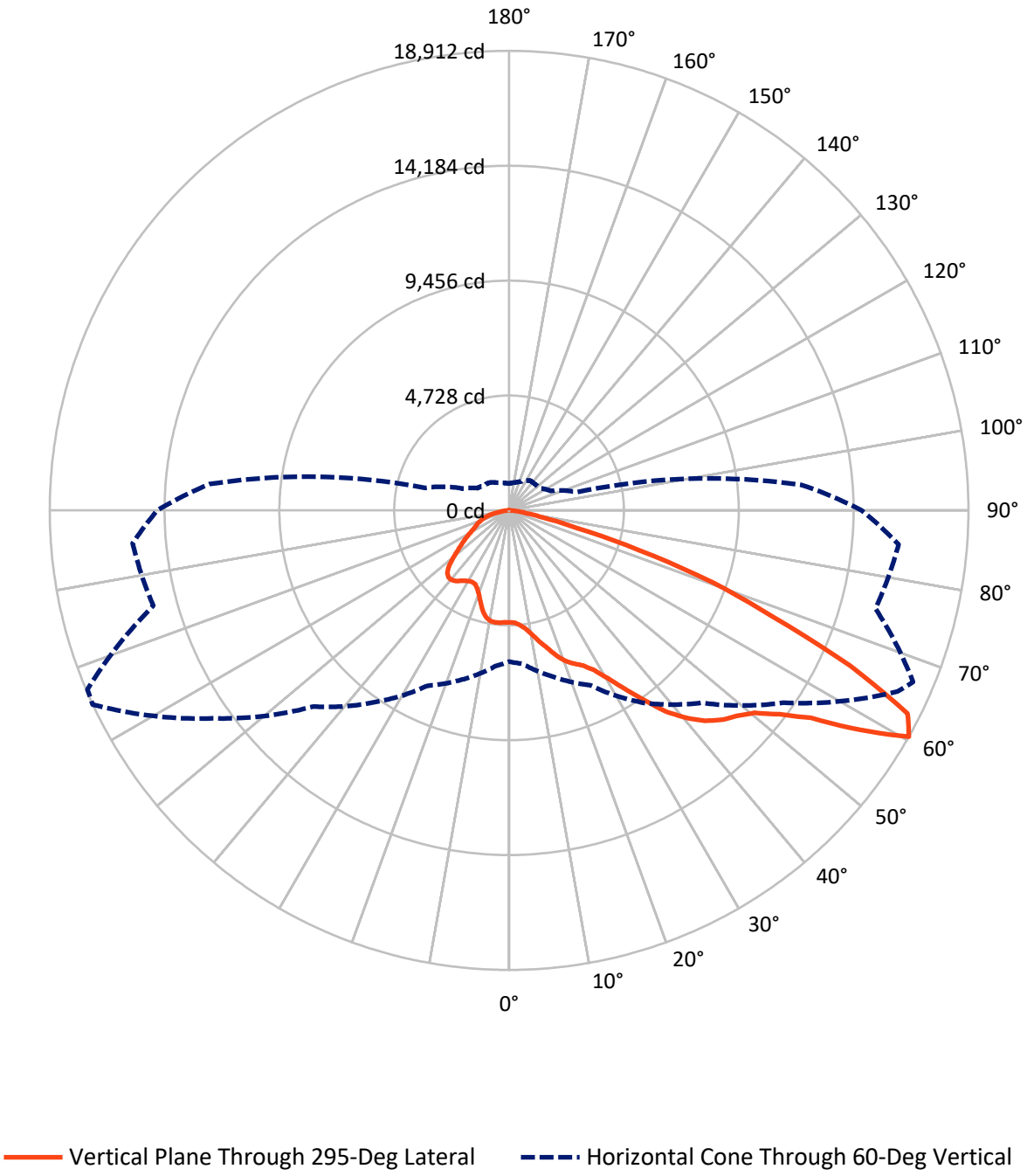
Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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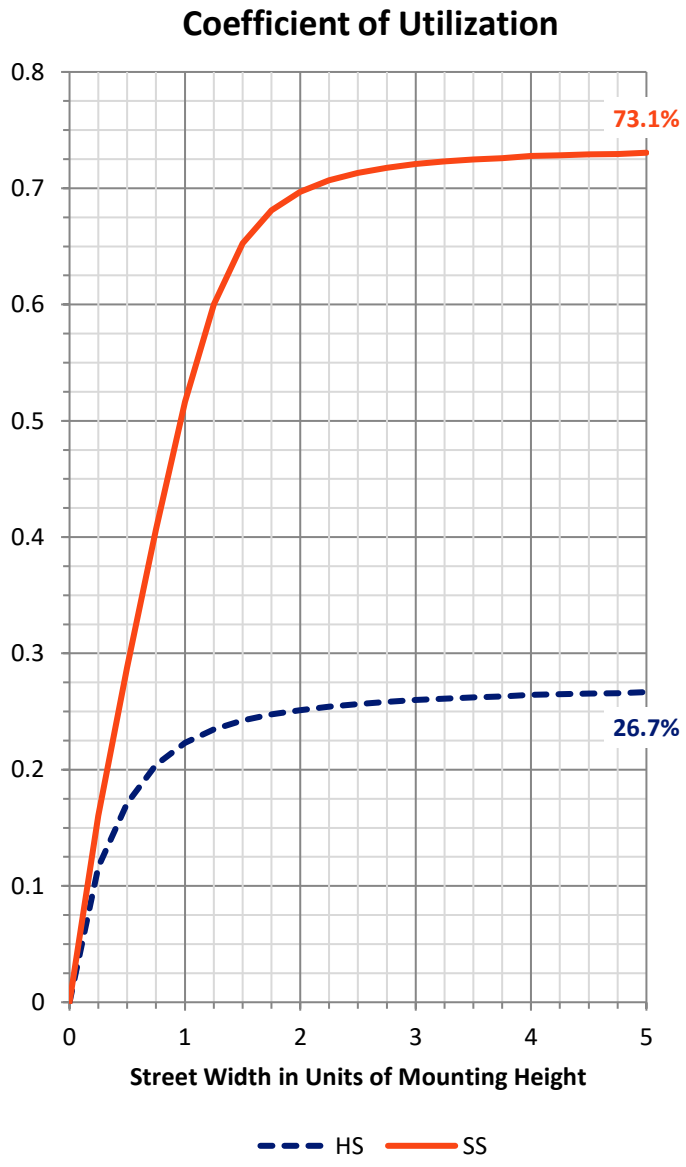
REPORT NUMBER: P1501532
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7708.4	0.0	7708.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	20956.8	0.0	20956.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	28665.3	0.0	28665.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.7	1.5
10°-20°	1246.6	4.3
20°-30°	2361.3	8.2
30°-40°	4162.8	14.5
40°-50°	6156.3	21.5
50°-60°	7229.2	25.2
60°-70°	5237.9	18.3
70°-80°	1615.3	5.6
80°-90°	222.4	0.8
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°	28665.3	100.0
0°-180°	28665.3	100.0



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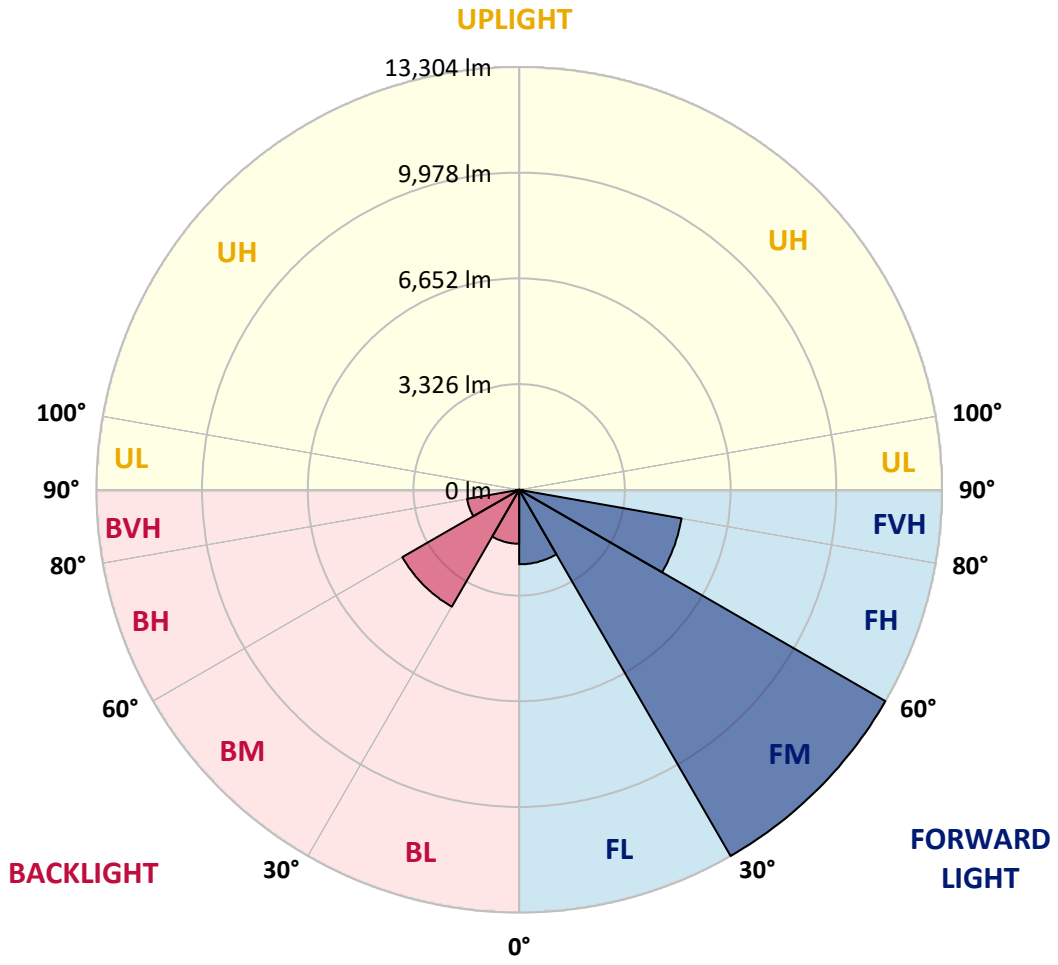
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2343.8	8.2			
FM	(30°-60°)	13303.7	46.4			
FH	(60°-80°)	5189.3	18.1			G3/7500
FVH	(80°-90°)	119.9	0.4			G2/225
BL	(0°-30°)	1697.7	5.9	B3/2500		
BM	(30°-60°)	4244.5	14.8	B3/5000		
BH	(60°-80°)	1663.9	5.8	B3/2500		G3/2500
BVH	(80°-90°)	102.4	0.4			G2/225
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°	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1
2.5°	4703.6	4716.6	4697.0	4710.1	4710.1	4690.5	4684.0	4657.8	4670.9	4664.4	4657.8
5°	4814.6	4821.2	4808.1	4827.7	4827.7	4834.2	4827.7	4795.0	4795.0	4795.0	4782.0
7.5°	4782.0	4782.0	4788.5	4853.8	4919.1	5004.1	5004.1	4991.0	5004.1	4997.5	4938.7
10°	4507.6	4533.7	4592.5	4755.8	4912.6	5095.5	5219.7	5258.8	5258.8	5265.4	5167.4
12.5°	4017.6	4037.2	4174.4	4422.7	4749.3	5082.5	5383.0	5579.0	5598.5	5631.2	5500.6
15°	3579.9	3593.0	3691.0	3945.8	4318.1	4906.1	5474.4	5879.5	5944.8	6082.0	5886.0
17.5°	3619.1	3612.6	3638.7	3736.7	4004.6	4618.6	5454.8	6232.2	6349.8	6591.5	6421.7
20°	3854.3	3854.3	3873.9	3893.5	3991.5	4409.6	5311.1	6519.7	6748.3	7218.7	7022.7
22.5°	4226.7	4226.7	4220.1	4252.8	4252.8	4501.1	5317.6	6735.2	7074.9	7917.7	7728.2
25°	4742.8	4716.6	4716.6	4729.7	4670.9	4847.3	5481.0	6957.4	7401.6	8747.3	8584.0
27.5°	5324.2	5343.8	5330.7	5285.0	5206.6	5343.8	5872.9	7303.6	7767.4	9622.7	9557.4
30°	5957.8	5964.4	5977.4	5951.3	5886.0	5984.0	6487.0	7826.2	8250.8	10537.3	10681.0
32.5°	6578.5	6669.9	6637.3	6571.9	6598.1	6774.4	7244.8	8531.7	8969.4	11386.5	11896.1
35°	7368.9	7401.6	7532.2	7290.5	7297.1	7597.6	8211.6	9459.4	9884.0	12268.5	13111.2
37.5°	8518.7	8577.5	8518.7	8139.8	8081.0	8499.1	9152.4	10374.0	10681.0	12934.8	14241.4
40°	9648.8	9720.7	9818.7	9374.5	9002.1	9348.3	10040.8	11073.0	11393.1	13300.6	14992.6
42.5°	10583.0	10700.6	10596.1	10465.4	10125.7	10191.1	10661.4	11615.2	11935.3	13764.5	15750.4
45°	11373.5	11393.1	11438.8	11347.4	11177.5	11118.7	11190.6	12092.1	12444.9	13973.5	16122.8
47.5°	11700.1	11785.0	11824.2	11981.0	12157.4	12039.8	11641.3	12314.2	12634.3	13960.4	16240.4
50°	11523.7	11608.7	11817.7	12190.1	12614.7	12823.7	12170.5	12621.2	12980.5	14195.6	16482.1
52.5°	11059.9	11151.4	11491.1	11915.7	12627.8	13104.7	12915.2	13261.4	13607.7	14613.7	16887.1
55°	9936.3	10073.5	10550.4	11255.9	12235.8	12954.4	13699.1	14202.2	14581.1	15116.7	17305.2
57.5°	8303.1	8446.8	8982.5	10040.8	11510.7	12333.8	13927.8	15966.0	16135.8	15717.7	17344.4
60°	*6219.2*	*6336.7*	*7094.5*	*7943.8*	*9668.4*	*11197.1*	*13797.1*	*17638.4*	*18069.5*	*15613.2*	*16096.6*
62.5°	4925.7	5069.4	5742.3	6134.2	7368.9	9250.3	13339.8	18102.2	18474.6	14750.9	14358.9
65°	3847.8	3945.8	4572.9	5134.7	5435.2	6317.1	11432.3	15835.3	16168.5	13346.4	11850.4
67.5°	2541.2	2691.5	3436.2	4207.1	4363.9	4017.6	7865.4	12183.5	12340.3	10609.2	8910.6
70°	1822.6	1894.5	2449.8	3272.9	3508.1	2691.5	4285.5	9224.2	9269.9	7120.7	6003.6
72.5°	1241.2	1254.3	1665.8	2508.6	2796.0	1953.3	2358.3	6075.4	5918.7	3514.6	3436.2
75°	842.7	855.8	1064.8	1672.4	1979.4	1358.8	1535.2	3312.1	3181.4	1940.2	2083.9
77.5°	568.3	581.4	731.7	1123.6	1319.6	940.7	1123.6	1750.8	1718.1	1286.9	1117.1
80°	431.2	450.8	542.2	718.6	921.1	548.7	640.2	829.7	842.7	685.9	568.3
82.5°	241.7	267.8	326.6	365.8	594.5	307.0	307.0	496.5	476.9	424.6	307.0
85°	104.5	111.1	130.7	137.2	241.7	130.7	111.1	215.6	222.1	209.0	98.0
87.5°	19.6	19.6	19.6	19.6	19.6	19.6	19.6	26.1	26.1	26.1	26.1
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°	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1
2.5°	4625.2	4664.4	4625.2	4605.6	4605.6	4572.9	4559.8	4559.8	4514.1	4533.7	4520.6
5°	4729.7	4742.8	4697.0	4638.2	4559.8	4494.5	4403.1	4285.5	4213.6	4207.1	4213.6
7.5°	4893.0	4899.5	4775.4	4644.8	4448.8	4213.6	3932.7	3704.1	3501.5	3468.9	3508.1
10°	5121.7	5108.6	4925.7	4618.6	4207.1	3710.6	3279.4	3070.4	2952.8	2946.3	2939.7
12.5°	5428.7	5343.8	5062.9	4507.6	3789.0	3214.1	2992.0	2978.9	3011.6	3037.7	3044.3
15°	5781.5	5670.4	5173.9	4292.0	3364.4	3031.2	3044.3	3155.3	3194.5	3220.6	3220.6
17.5°	6219.2	6075.4	5298.0	3985.0	3148.8	3070.4	3161.8	3266.4	3331.7	3357.8	3351.3
20°	6800.6	6500.1	5396.0	3691.0	3090.0	3135.7	3214.1	3318.6	3384.0	3416.6	3416.6
22.5°	7382.0	7009.6	5415.6	3488.5	3090.0	3142.2	3214.1	3318.6	3390.5	3423.2	3416.6
25°	8172.4	7662.9	5422.2	3344.8	3096.5	3109.6	3174.9	3266.4	3370.9	3403.6	3416.6
27.5°	9015.2	8381.5	5454.8	3312.1	3070.4	3063.9	3109.6	3194.5	3299.0	3384.0	3390.5
30°	10060.4	9191.6	5467.9	3344.8	3076.9	2992.0	3024.7	3109.6	3220.6	3305.6	3331.7
32.5°	11086.0	9942.8	5441.8	3416.6	3090.0	2946.3	2952.8	3005.1	3122.6	3181.4	3227.2
35°	12170.5	10739.8	5396.0	3514.6	3096.5	2926.7	2867.9	2894.0	2972.4	2978.9	2998.5
37.5°	13019.7	11334.3	5258.8	3645.3	3109.6	2854.8	2737.2	2717.6	2685.0	2619.6	2632.7
40°	13718.7	11732.8	5030.2	3710.6	3076.9	2769.9	2573.9	2482.4	2358.3	2260.3	2279.9
42.5°	14221.8	12000.6	4755.8	3723.7	3024.7	2626.2	2384.4	2227.7	2090.5	1985.9	1992.5
45°	14443.9	11974.5	4461.9	3625.7	2900.5	2449.8	2208.1	2057.8	1907.6	1796.5	1783.4
47.5°	14450.4	11719.7	4056.8	3390.5	2691.5	2247.3	2044.7	1881.4	1757.3	1678.9	1672.4
50°	14502.7	11576.0	3677.9	3050.8	2417.1	2031.7	1901.0	1737.7	1665.8	1554.8	1522.1
52.5°	14829.3	11811.2	3416.6	2678.4	2162.3	1874.9	1776.9	1633.2	1515.6	1443.7	1437.2
55°	15358.4	12216.2	3272.9	2397.5	1920.6	1724.6	1659.3	1535.2	1430.7	1358.8	1339.2
57.5°	15423.8	12425.3	3103.0	2136.2	1724.6	1607.1	1580.9	1443.7	1293.5	1241.2	1221.6
60°	*14509.2*	*12072.5*	*2894.0*	*1894.5*	*1580.9*	*1515.6*	*1502.5*	*1319.6*	*1195.5*	*1130.2*	*1104.0*
62.5°	13261.4	11190.6	2573.9	1672.4	1469.9	1424.1	1371.9	1228.2	1071.4	999.5	979.9
65°	10837.8	9407.1	2188.5	1522.1	1358.8	1306.5	1293.5	1097.5	993.0	953.8	947.2
67.5°	8211.6	7558.4	1927.2	1411.1	1241.2	1221.6	1175.9	1110.6	1064.8	1019.1	1006.0
70°	5807.6	5454.8	1639.7	1267.3	1123.6	1091.0	1280.4	1208.6	1045.2	986.4	979.9
72.5°	3521.1	3423.2	1417.6	1136.7	966.8	1019.1	1182.4	1091.0	940.7	868.9	842.7
75°	2221.1	2031.7	1189.0	966.8	770.9	829.7	1032.2	973.4	810.1	738.2	718.6
77.5°	1208.6	1123.6	895.0	790.5	607.5	672.9	901.5	803.5	646.7	705.5	627.1
80°	529.2	587.9	594.5	457.3	405.0	496.5	646.7	627.1	496.5	503.0	418.1
82.5°	254.8	333.2	385.4	313.6	228.6	294.0	431.2	359.3	333.2	313.6	300.5
85°	78.4	124.1	169.9	150.3	104.5	124.1	202.5	196.0	235.2	202.5	189.4
87.5°	26.1	26.1	19.6	19.6	19.6	26.1	32.7	19.6	6.5	6.5	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°	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1
2.5°	4514.1	4520.6	4520.6	4527.2	4527.2	4546.8	4572.9	4599.0	4579.4	4605.6	4612.1
5°	4200.5	4233.2	4259.3	4357.3	4435.7	4501.1	4572.9	4638.2	4657.8	4670.9	4703.6
7.5°	3462.3	3553.8	3723.7	3945.8	4194.0	4435.7	4599.0	4768.9	4795.0	4827.7	4873.4
10°	2946.3	2985.5	3103.0	3331.7	3775.9	4252.8	4651.3	4919.1	5030.2	5095.5	5141.3
12.5°	3031.2	3005.1	2985.5	3018.1	3305.6	3919.6	4618.6	5134.7	5343.8	5415.6	5474.4
15°	3233.7	3207.6	3135.7	3044.3	3076.9	3566.9	4507.6	5337.2	5670.4	5788.0	5912.1
17.5°	3351.3	3325.2	3266.4	3168.4	3083.4	3272.9	4298.5	5520.2	6186.5	6330.2	6506.6
20°	3416.6	3390.5	3331.7	3233.7	3135.7	3161.8	4030.7	5748.8	6774.4	7003.1	7264.4
22.5°	3429.7	3397.0	3331.7	3233.7	3174.9	3155.3	3775.9	5886.0	7408.1	7760.9	8061.4
25°	3423.2	3364.4	3279.4	3207.6	3174.9	3168.4	3599.5	5964.4	8094.1	8655.9	8995.6
27.5°	3377.4	3305.6	3220.6	3168.4	3155.3	3194.5	3521.1	6055.8	8897.6	9616.2	10158.4
30°	3325.2	3220.6	3116.1	3096.5	3129.2	3253.3	3586.5	6088.5	9740.3	10661.4	11216.7
32.5°	3188.0	3109.6	3005.1	2998.5	3076.9	3299.0	3736.7	6042.8	10485.0	11706.7	12405.7
35°	2992.0	2946.3	2887.5	2907.1	3031.2	3338.2	3841.2	5899.1	11164.4	12680.0	13496.6
37.5°	2645.8	2678.4	2711.1	2756.8	2913.6	3331.7	3887.0	5670.4	11726.3	13457.4	14502.7
40°	2260.3	2371.4	2475.9	2593.5	2802.5	3279.4	3900.0	5389.5	12052.9	14045.4	15397.6
42.5°	2018.6	2123.1	2253.8	2423.6	2652.3	3161.8	3887.0	5075.9	12157.4	14450.4	15966.0
45°	1796.5	1920.6	2083.9	2260.3	2521.6	2992.0	3769.4	4736.2	12209.7	14639.8	16207.7
47.5°	1678.9	1750.8	1901.0	2077.4	2351.8	2782.9	3540.7	4488.0	12131.3	14679.0	16501.7
50°	1541.7	1639.7	1737.7	1907.6	2175.4	2521.6	3266.4	4344.3	12261.9	15064.5	16965.5
52.5°	1437.2	1489.5	1594.0	1750.8	1946.8	2279.9	3005.1	4226.7	12621.2	15456.4	17448.9
55°	1358.8	1417.6	1482.9	1613.6	1763.8	2038.2	2737.2	4050.3	13039.3	15874.5	17932.3
57.5°	1234.7	1273.9	1365.3	1502.5	1600.5	1803.0	2423.6	3841.2	13006.7	15547.9	17096.2
60°	*1123.6*	*1162.8*	*1260.8*	*1398.0*	*1456.8*	*1594.0*	*2116.6*	*3573.4*	*12379.5*	*14483.1*	*15554.4*
62.5°	999.5	1045.2	1162.8	1260.8	1313.1	1417.6	1796.5	3083.4	11073.0	12882.5	13751.4
65°	947.2	973.4	1051.8	1169.4	1162.8	1260.8	1515.6	2423.6	8910.6	9844.8	10635.3
67.5°	1006.0	1045.2	1032.2	1064.8	1045.2	1097.5	1358.8	1946.8	7003.1	7414.6	7871.9
70°	993.0	1084.4	1130.2	1064.8	914.6	973.4	1175.9	1554.8	5010.6	4971.4	4951.8
72.5°	868.9	960.3	1091.0	1156.3	895.0	810.1	1019.1	1345.7	3214.1	3201.0	2894.0
75°	738.2	803.5	960.3	1045.2	770.9	653.3	875.4	1143.2	1920.6	1946.8	1737.7
77.5°	679.4	646.7	803.5	921.1	627.1	503.0	705.5	862.3	1058.3	1071.4	993.0
80°	490.0	470.4	601.0	672.9	476.9	359.3	398.5	535.7	568.3	509.6	529.2
82.5°	313.6	320.1	359.3	431.2	294.0	196.0	274.4	359.3	307.0	248.2	294.0
85°	202.5	228.6	189.4	222.1	91.5	91.5	117.6	156.8	104.5	71.9	78.4
87.5°	0.0	0.0	13.1	26.1	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

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

Scaled Data Report

REPORT NUMBER: P1501532
CATALOG NUMBER: GSS-SB4D-830-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	4612.1	4612.1	*4612.1*	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1	4612.1
2.5°	4631.7	4625.2	*4625.2*	4638.2	4670.9	4684.0	4703.6	4697.0	4716.6	4703.6
5°	4723.2	4729.7	*4749.3*	4755.8	4775.4	4801.6	4808.1	4801.6	4814.6	4814.6
7.5°	4906.1	4932.2	*4919.1*	4951.8	4925.7	4893.0	4840.8	4801.6	4768.9	4782.0
10°	5213.1	5200.1	*5193.5*	5134.7	5017.1	4847.3	4710.1	4559.8	4533.7	4507.6
12.5°	5552.8	5539.8	*5539.8*	5337.2	5004.1	4651.3	4337.7	4102.6	4024.2	4017.6
15°	6029.7	5944.8	*5866.4*	5441.8	4775.4	4174.4	3808.6	3625.7	3579.9	3579.9
17.5°	6624.2	6402.1	*6271.4*	5363.4	4403.1	3860.8	3645.3	3599.5	3586.5	3619.1
20°	7362.4	6800.6	*6611.1*	5187.0	4265.9	3900.0	3795.5	3802.0	3808.6	3854.3
22.5°	8172.4	7166.4	*6852.8*	5187.0	4403.1	4148.3	4096.0	4167.9	4187.5	4226.7
25°	9074.0	7493.0	*7068.4*	5461.4	4808.1	4618.6	4553.3	4625.2	4677.4	4742.8
27.5°	10086.5	7832.7	*7440.8*	5957.8	5330.7	5213.1	5141.3	5173.9	5245.8	5324.2
30°	10994.6	8401.1	*8009.1*	6715.6	6042.8	5899.1	5774.9	5827.2	5905.6	5957.8
32.5°	11798.1	9093.6	*8760.4*	7512.6	6859.4	6611.1	6473.9	6460.9	6617.7	6578.5
35°	12536.3	9910.2	*9590.0*	8420.7	7689.0	7382.0	7199.1	7434.2	7329.7	7368.9
37.5°	13117.7	10759.4	*10504.6*	9289.5	8551.3	8133.2	8022.2	8309.6	8473.0	8518.7
40°	13594.6	11497.6	*11229.8*	10151.9	9341.8	9034.8	9211.1	9688.0	9668.4	9648.8
42.5°	13960.4	12131.3	*11837.3*	10805.1	10099.6	10158.4	10295.6	10615.7	10694.1	10583.0
45°	14123.8	12529.8	*12294.6*	11321.2	10961.9	11301.6	11360.4	11497.6	11445.3	11373.5
47.5°	14313.2	12882.5	*12634.3*	11791.6	11896.1	12229.3	12111.7	12000.6	11811.2	11700.1
50°	14633.3	13300.6	*13091.6*	12477.5	12856.4	12745.4	12288.1	12039.8	11654.4	11523.7
52.5°	15240.9	14091.1	*13934.3*	13561.9	13307.2	12667.0	12111.7	11667.5	11236.3	11059.9
55°	15783.1	15162.5	*15071.0*	14574.5	13170.0	12255.4	11510.7	10824.7	10086.5	9936.3
57.5°	16096.6	16939.4	*17043.9*	15005.7	12542.8	11321.2	10223.7	9126.2	8427.2	8303.1
60°	*15162.5*	*18860.0*	*18912.3*	*14920.8*	*11412.7*	*9635.8*	*7963.4*	*7186.0*	*6434.7*	*6219.2*
62.5°	13875.5	18461.5	*18415.8*	14411.2	9087.0	7029.2	6049.3	5683.5	5102.1	4925.7
65°	11928.8	15378.0	*15430.3*	12451.4	6042.8	5082.5	5082.5	4618.6	3971.9	3847.8
67.5°	9720.7	11856.9	*11739.3*	8074.5	3710.6	4069.9	4265.9	3599.5	2691.5	2541.2
70°	6317.1	9054.4	*8891.0*	4657.8	2332.2	3390.5	3357.8	2704.6	1927.2	1822.6
72.5°	2717.6	5232.7	*5565.9*	2377.9	1757.3	2730.7	2678.4	1894.5	1286.9	1241.2
75°	1639.7	2632.7	*2867.9*	1515.6	1280.4	2057.8	1855.3	1202.0	875.4	842.7
77.5°	1038.7	1443.7	*1430.7*	1136.7	960.3	1391.5	1247.8	829.7	594.5	568.3
80°	601.0	712.1	*738.2*	712.1	646.7	993.0	797.0	601.0	463.8	431.2
82.5°	385.4	444.2	*450.8*	346.2	359.3	640.2	431.2	352.8	267.8	241.7
85°	169.9	189.4	*182.9*	117.6	117.6	261.3	150.3	143.7	104.5	104.5
87.5°	6.5	13.1	*6.5*	6.5	6.5	26.1	13.1	19.6	19.6	19.6
90°	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

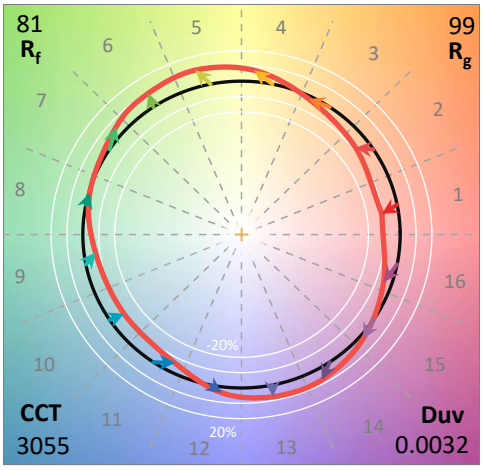
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-9
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-830-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3055
CIE u':	0.2475
CIE v':	0.5247
Duv:	0.0032
CIE x:	0.4377
CIE y:	0.4124
CIE z:	0.1499
Peak Wavelength (nm):	604
Dominant Wavelength (nm):	581
Purity:	55.16339
Rf:	81.5
Rg:	99.2

CRI (Ra):	80.9
R1:	79.5
R2:	85.6
R3:	92.1
R4:	82.4
R5:	78.9
R6:	81.7
R7:	85.1
R8:	61.9
R9:	6.8
R10:	67.1
R11:	82.5
R12:	63.4
R13:	80.2
R14:	95.1
R15:	71.7



Test Conditions

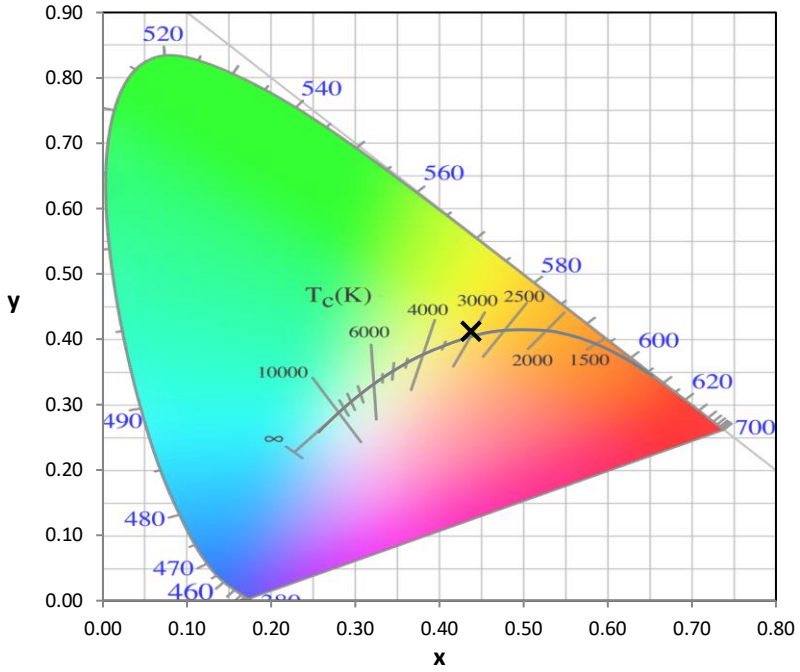
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-9

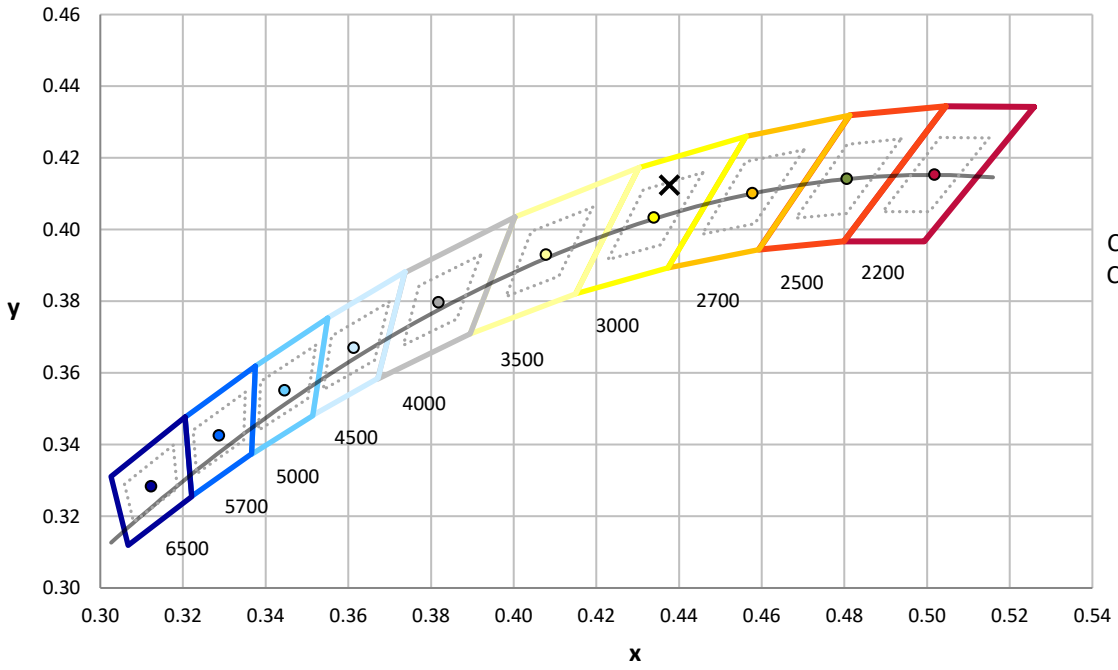
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



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

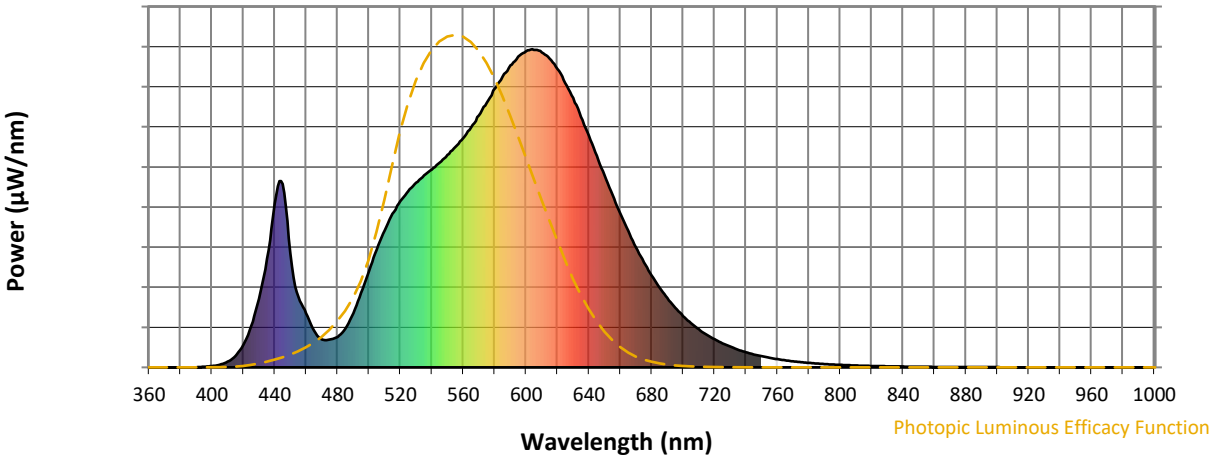


CCT = 3055K
CIE x = 0.4377
CIE y = 0.4124
Duv = 0.0032

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

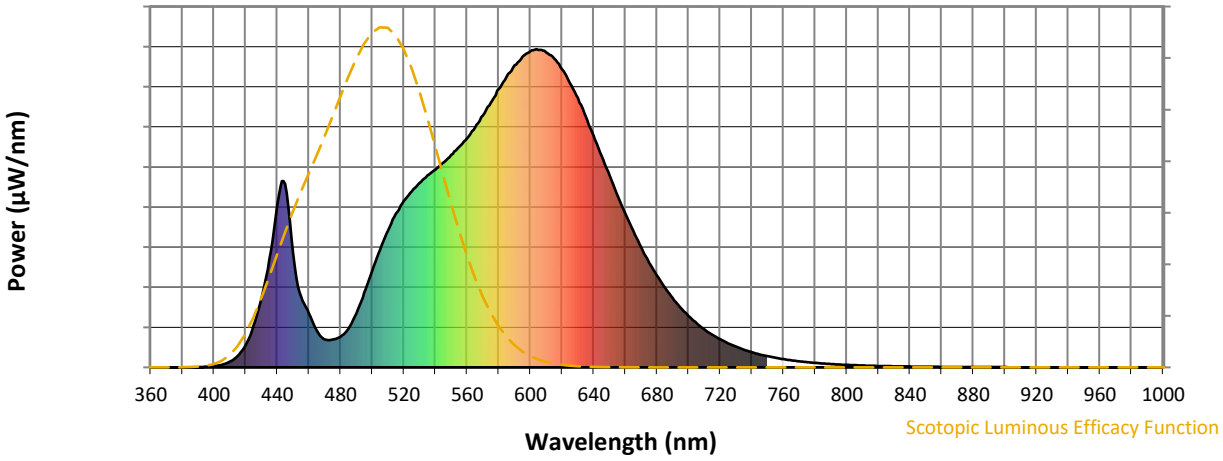


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength

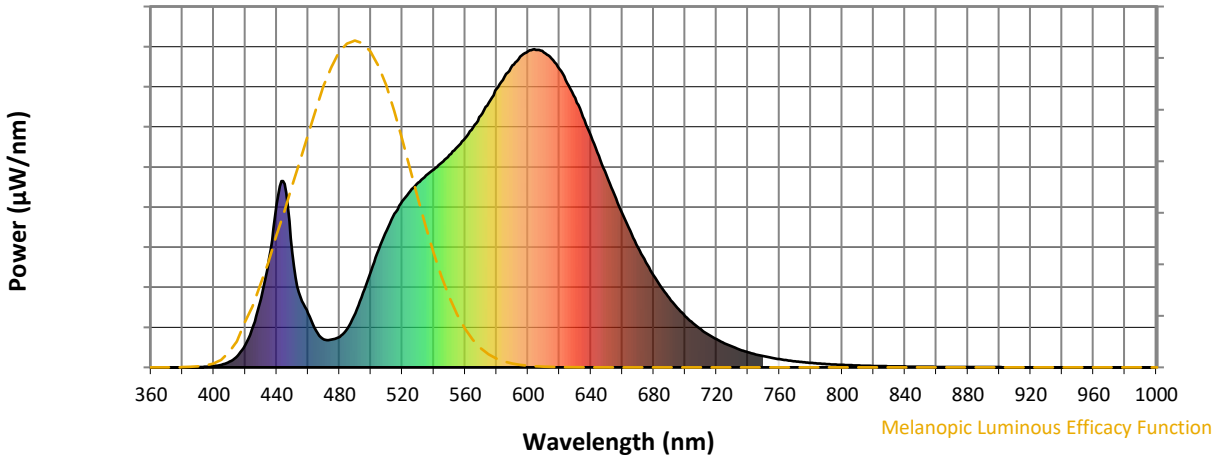


Scotopic Lumens: NR **S/P: 1.28**

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.33**

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

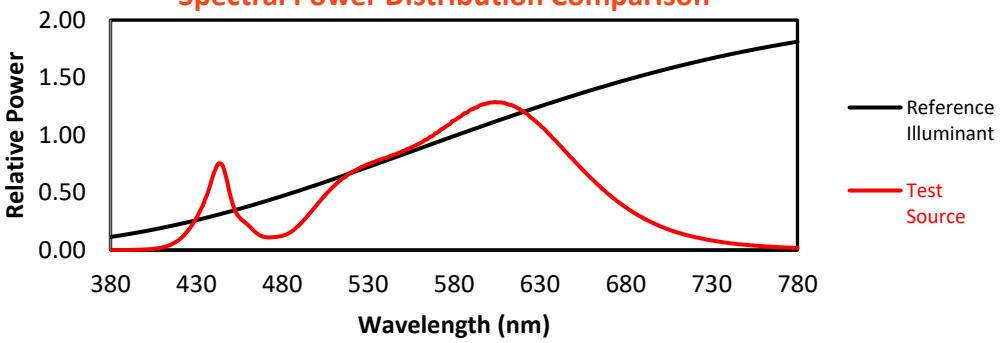
REPORT NUMBER: SP1-2407-184-9

TM-30-18

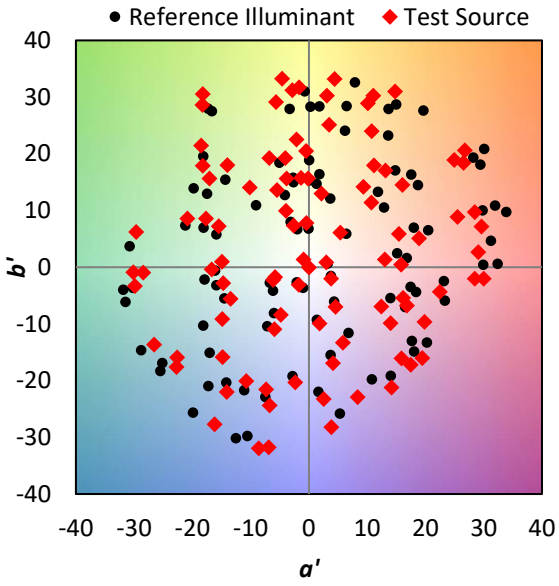
Summary

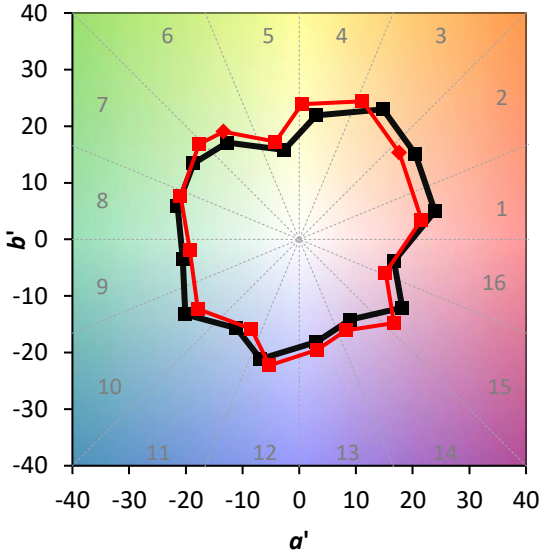
R_f = 81.5
R_g = 99.2
CIE R_a = 80.9
R_9 = 6.8

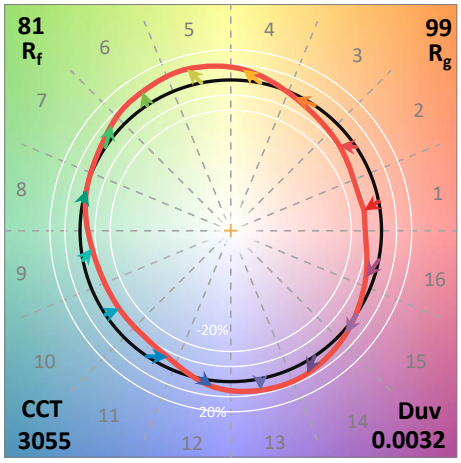
Spectral Power Distribution Comparison

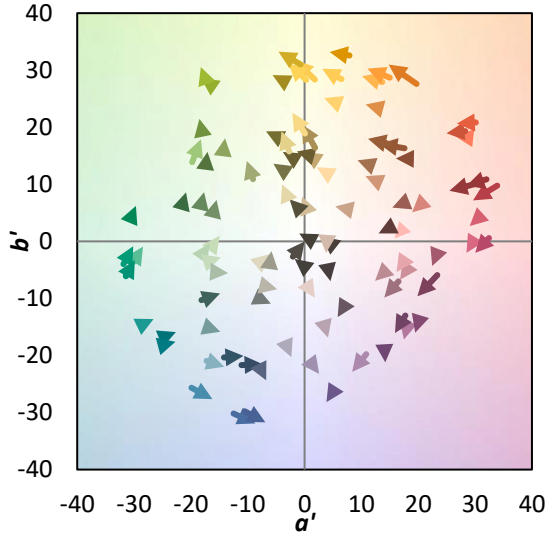


Color Vector Graphics







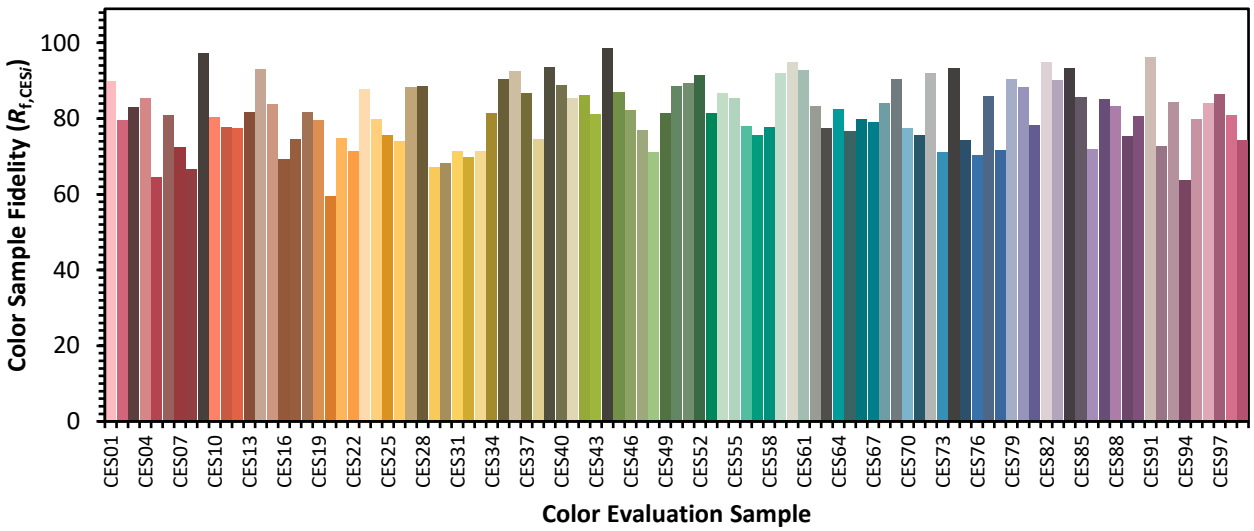


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Individual Sample Fidelity Index ($R_{f,i}$)

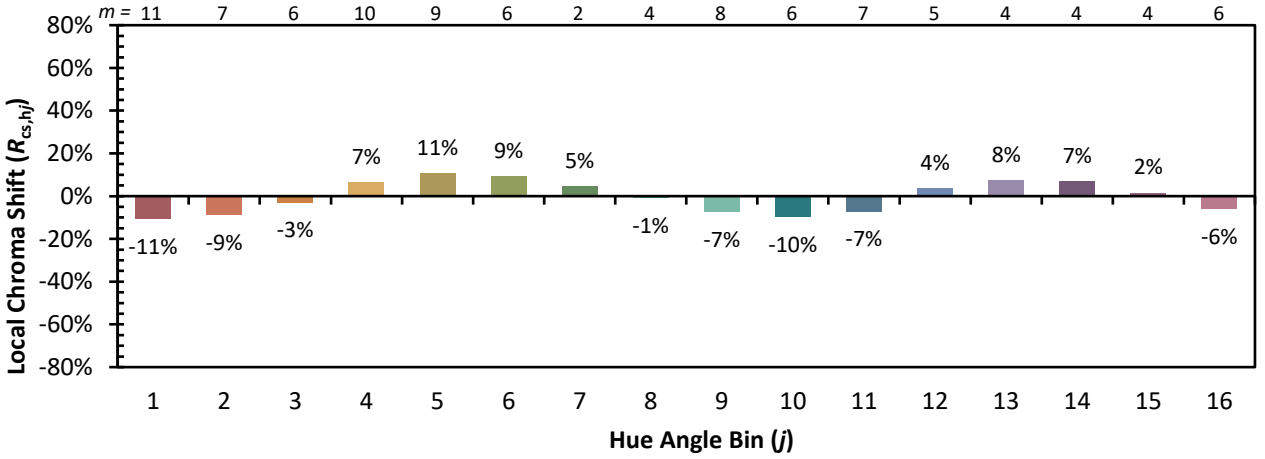
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	

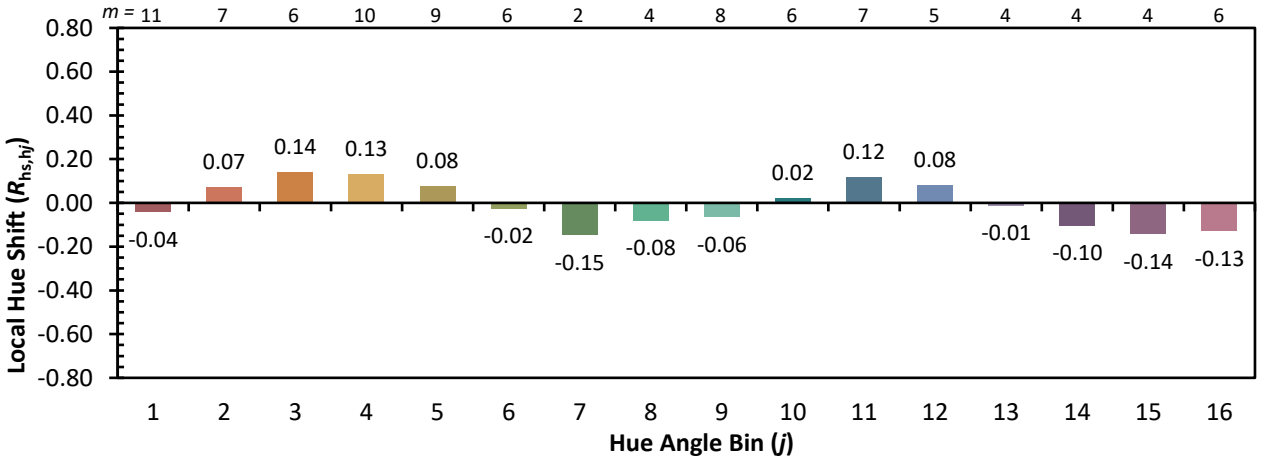


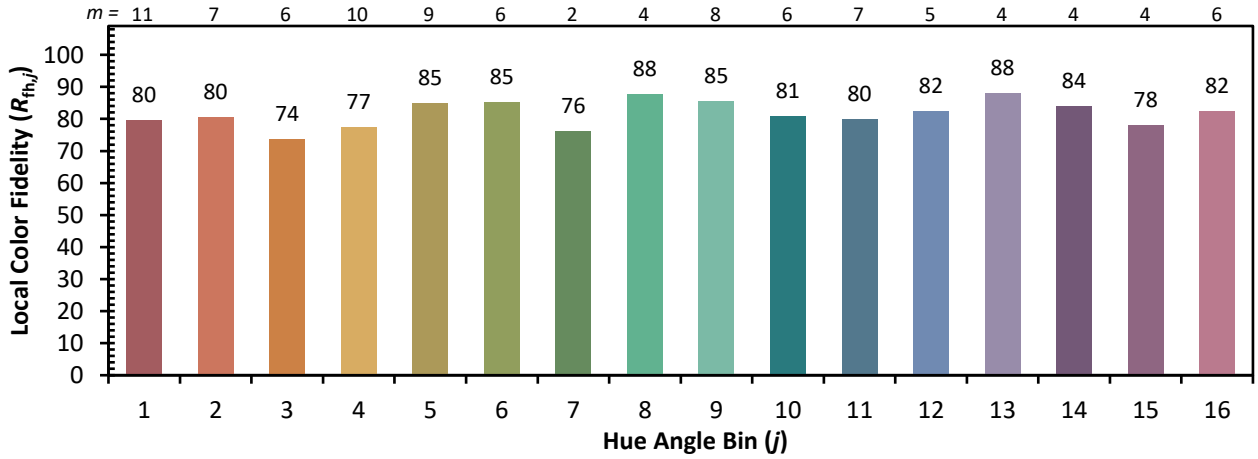
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Color Rendition by Hue-Angle Bin



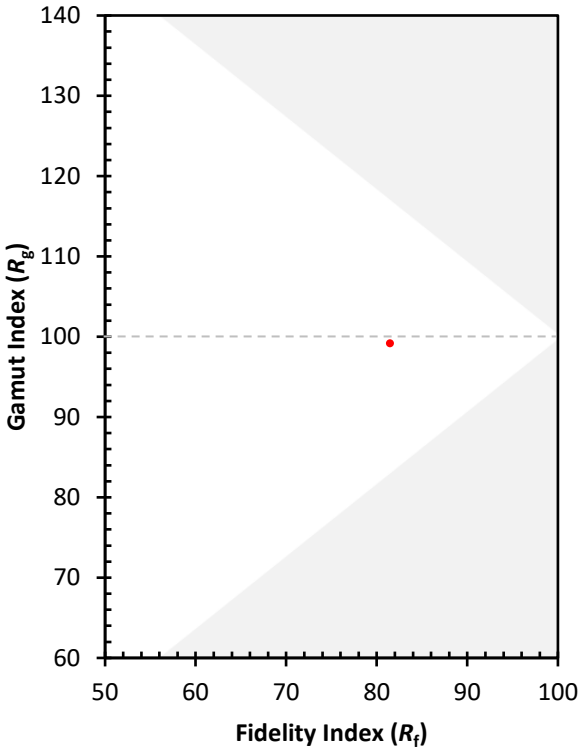


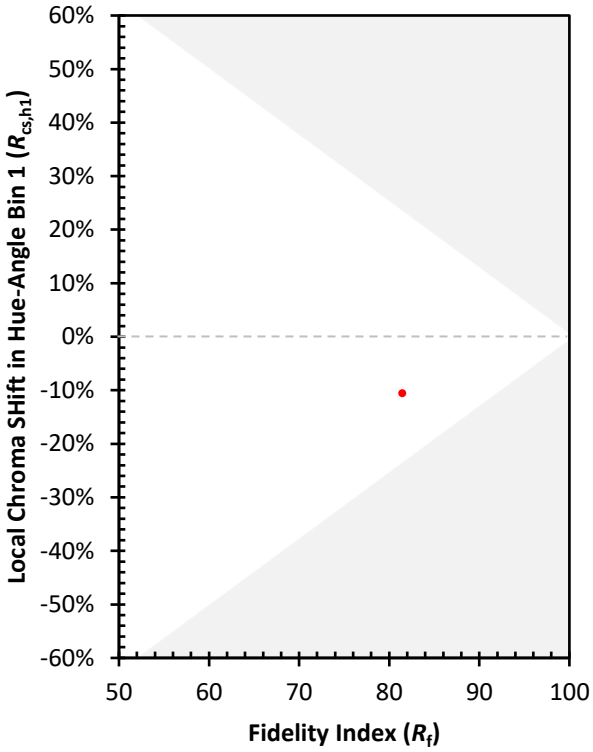


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Measure Comparisons





(END OF REPORT)