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: P1501512

Luminaire Tested: GSS-SB5D-827-U-T2LG

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501512
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB5D-827-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 5SQUARE 302W 80CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(130) 2700K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	37063 lumens
Efficiency:	N/A
Efficacy:	122.7 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B4 - U0 - G3

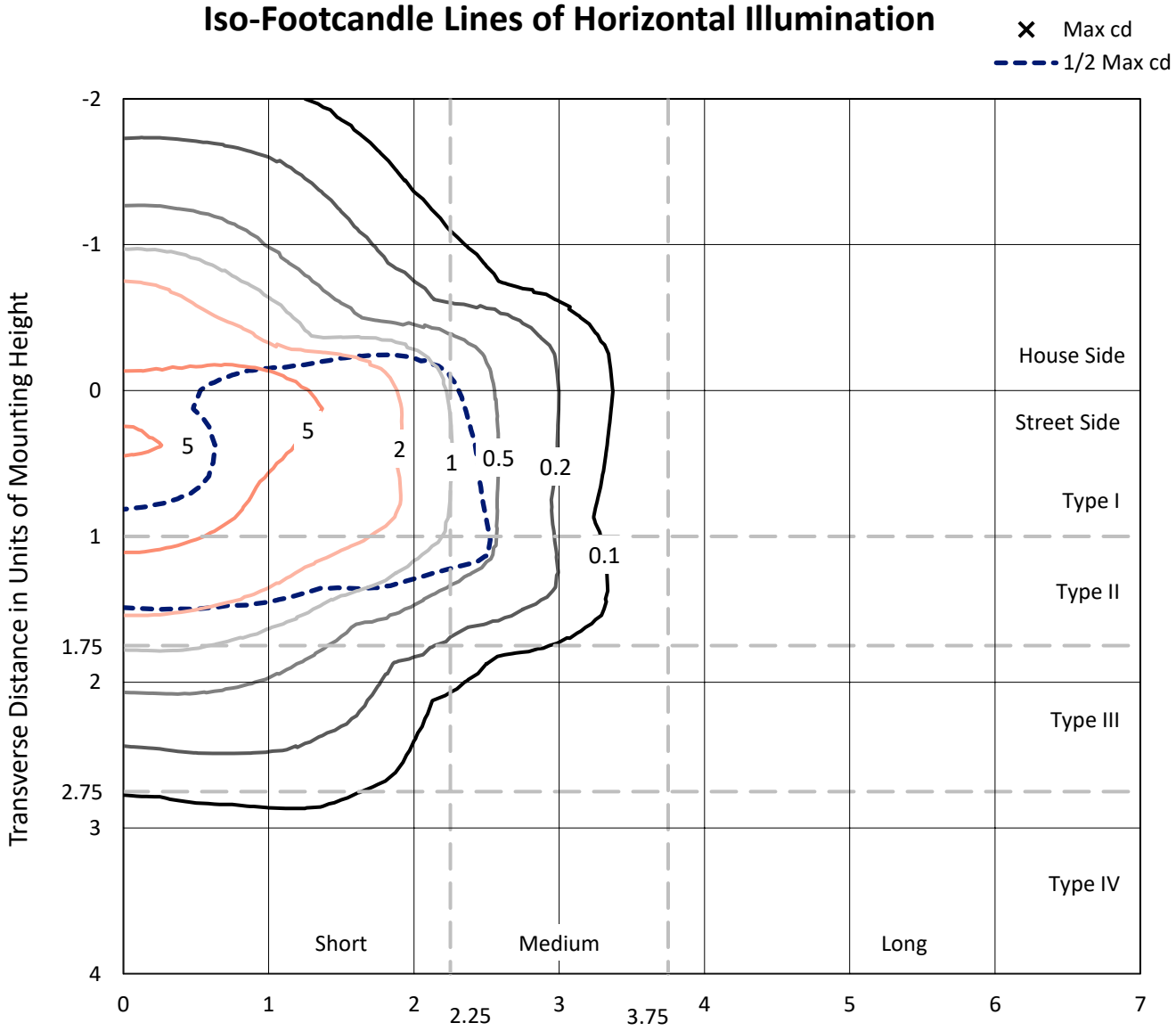
Input Watts (W):	302
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	--
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



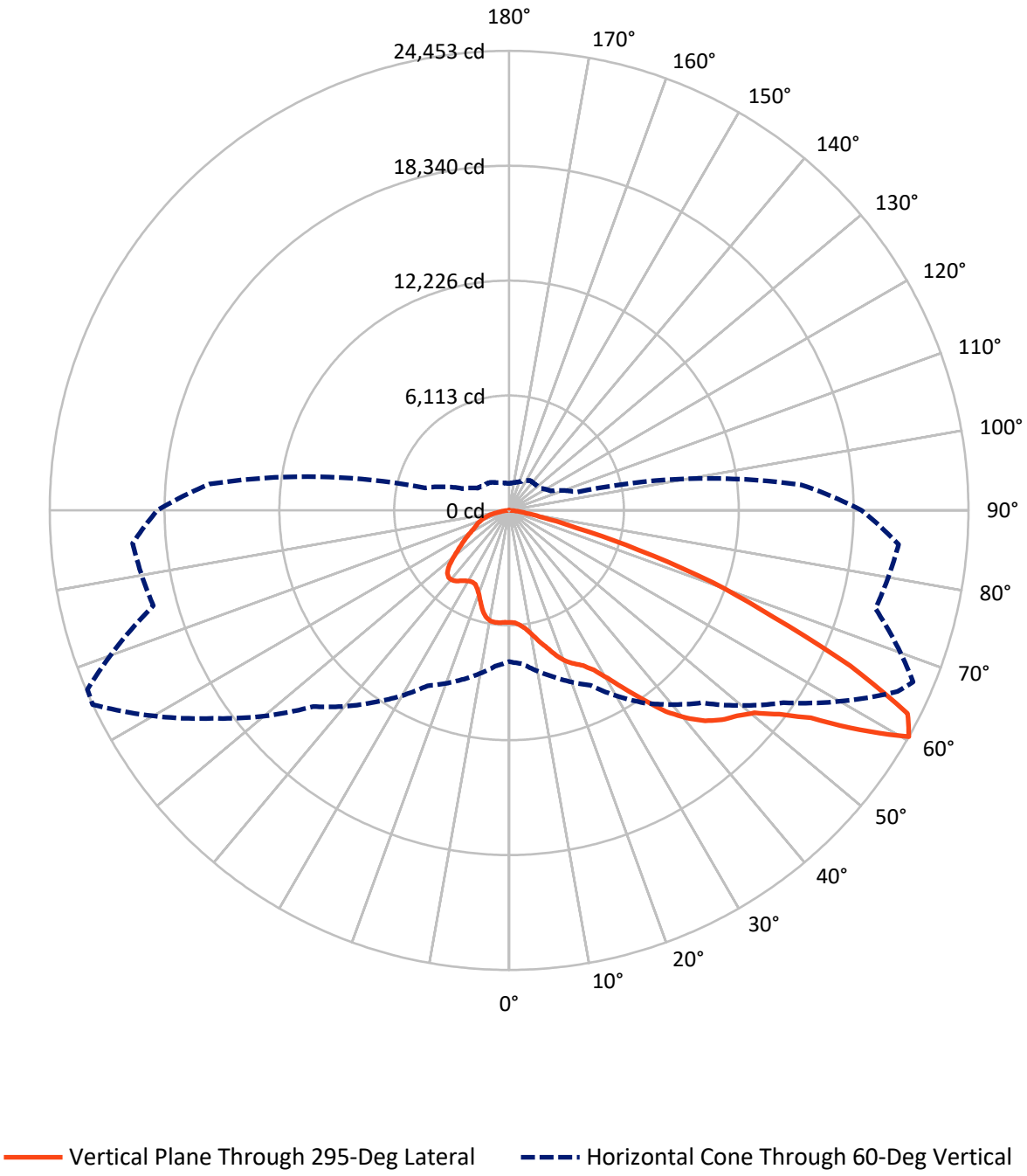
Based on 30 foot mounting height. Maximum calculated value = 10 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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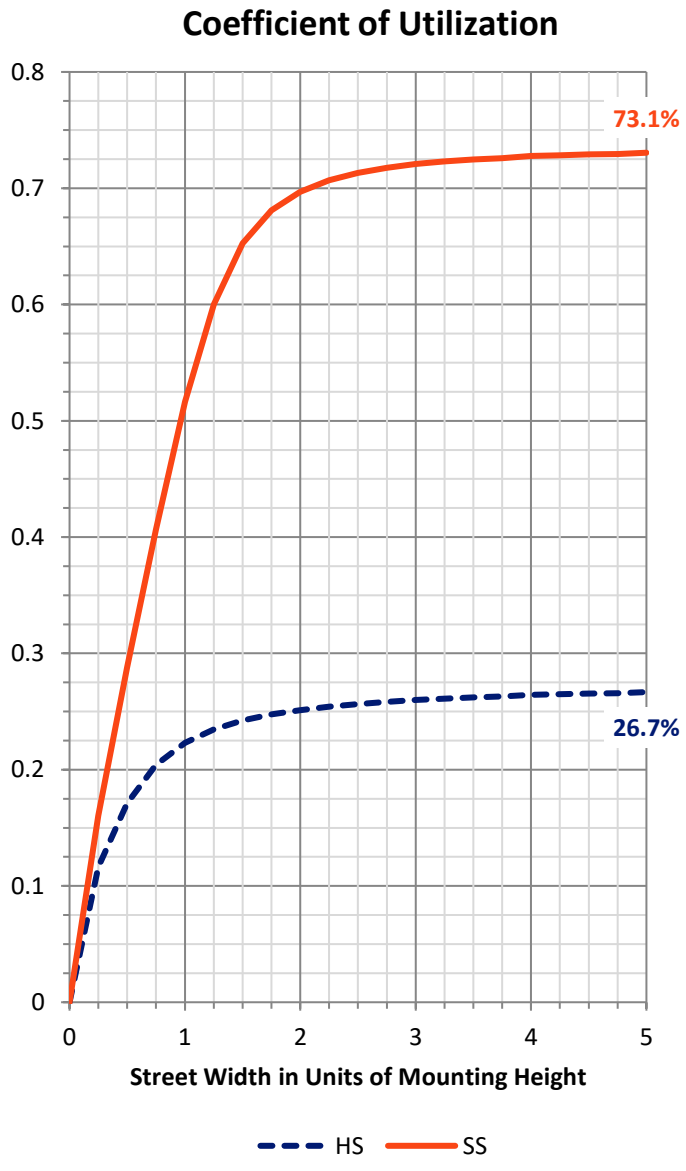
REPORT NUMBER: P1501512
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9966.7	0.0	9966.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	27096.3	0.0	27096.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	37063.0	0.0	37063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.7	1.5
10°-20°	1611.8	4.3
20°-30°	3053.0	8.2
30°-40°	5382.3	14.5
40°-50°	7959.8	21.5
50°-60°	9347.0	25.2
60°-70°	6772.3	18.3
70°-80°	2088.5	5.6
80°-90°	287.5	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°	37063.0	100.0
0°-180°	37063.0	100.0



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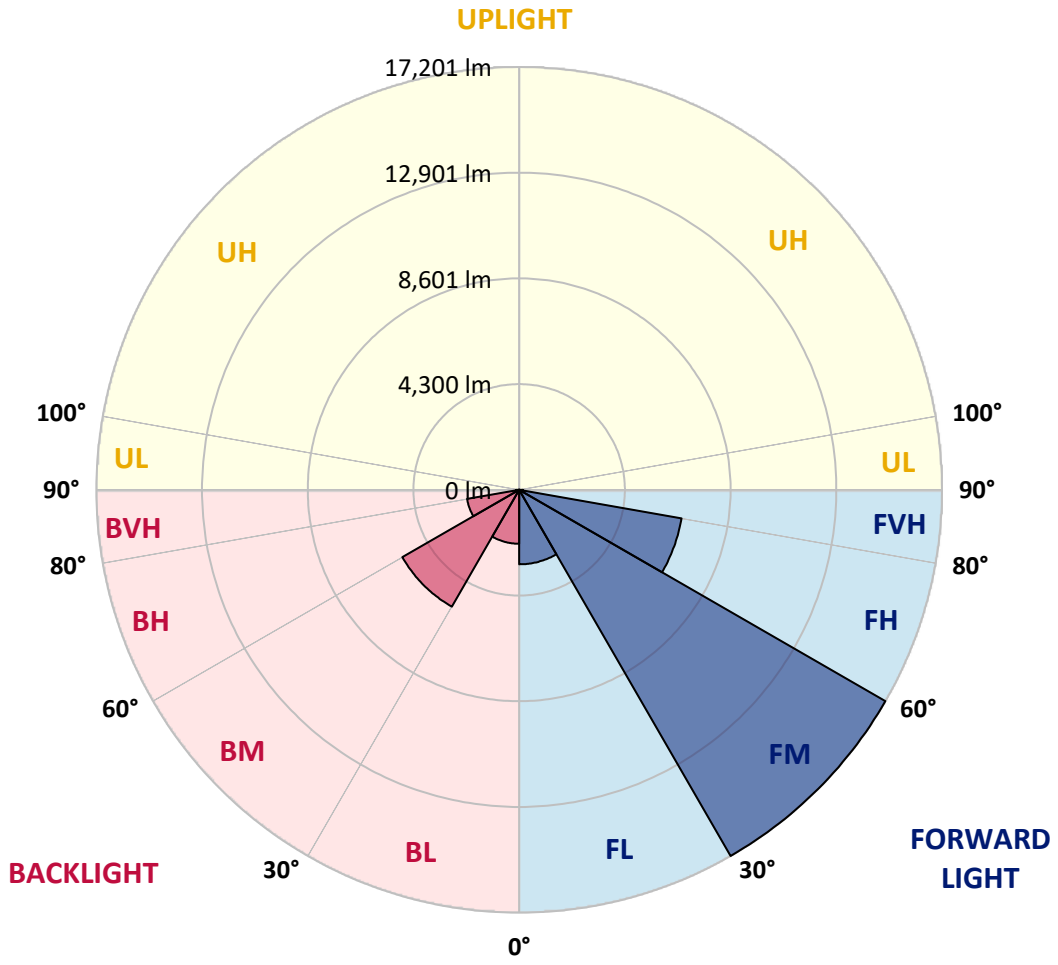
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3030.5	8.2			
FM	(30°-60°)	17201.2	46.4			
FH	(60°-80°)	6709.5	18.1			G3/7500
FVH	(80°-90°)	155.1	0.4			G2/225
BL	(0°-30°)	2195.0	5.9	B3/2500		
BM	(30°-60°)	5488.0	14.8	B4/8500		
BH	(60°-80°)	2151.3	5.8	B3/2500		G3/2500
BVH	(80°-90°)	132.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3
2.5°	6081.5	6098.4	6073.1	6090.0	6090.0	6064.6	6056.2	6022.4	6039.3	6030.8	6022.4
5°	6225.1	6233.5	6216.7	6242.0	6242.0	6250.4	6242.0	6199.8	6199.8	6199.8	6182.9
7.5°	6182.9	6182.9	6191.3	6275.8	6360.2	6470.1	6470.1	6453.2	6470.1	6461.6	6385.6
10°	5828.1	5861.9	5937.9	6149.1	6351.8	6588.3	6748.8	6799.5	6799.5	6807.9	6681.2
12.5°	5194.6	5220.0	5397.3	5718.3	6140.6	6571.4	6960.0	7213.3	7238.7	7280.9	7112.0
15°	4628.7	4645.6	4772.3	5101.7	5583.2	6343.4	7078.2	7601.9	7686.4	7863.7	7610.3
17.5°	4679.4	4670.9	4704.7	4831.4	5177.7	5971.7	7052.9	8058.0	8210.0	8522.6	8303.0
20°	4983.5	4983.5	5008.8	5034.1	5160.8	5701.4	6867.0	8429.6	8725.3	9333.4	9080.0
22.5°	5464.9	5464.9	5456.5	5498.7	5498.7	5819.7	6875.5	8708.4	9147.6	10237.2	9992.3
25°	6132.2	6098.4	6098.4	6115.3	6039.3	6267.3	7086.6	8995.6	9569.9	11309.9	11098.8
27.5°	6883.9	6909.3	6892.4	6833.3	6731.9	6909.3	7593.4	9443.2	10042.9	12441.8	12357.3
30°	7703.2	7711.7	7728.6	7694.8	7610.3	7737.0	8387.4	10119.0	10668.0	13624.3	13810.1
32.5°	8505.7	8623.9	8581.7	8497.2	8531.0	8759.1	9367.2	11031.2	11597.1	14722.3	15381.2
35°	9527.7	9569.9	9738.9	9426.3	9434.8	9823.3	10617.3	12230.6	12779.6	15862.6	16952.2
37.5°	11014.3	11090.3	11014.3	10524.4	10448.4	10989.0	11833.6	13413.1	13810.1	16724.2	18413.5
40°	12475.5	12568.5	12695.2	12120.8	11639.3	12087.0	12982.3	14316.9	14730.8	17197.2	19384.8
42.5°	13683.4	13835.4	13700.3	13531.4	13092.1	13176.6	13784.8	15018.0	15431.8	17796.9	20364.6
45°	14705.4	14730.8	14789.9	14671.6	14452.0	14376.0	14468.9	15634.5	16090.7	18067.2	20846.1
47.5°	15127.8	15237.6	15288.2	15491.0	15719.0	15567.0	15051.7	15921.7	16335.6	18050.3	20998.1
50°	14899.7	15009.5	15279.8	15761.2	16310.3	16580.6	15735.9	16318.7	16783.3	18354.3	21310.6
52.5°	14300.0	14418.2	14857.5	15406.5	16327.2	16943.8	16698.8	17146.5	17594.1	18894.9	21834.3
55°	12847.2	13024.6	13641.2	14553.4	15820.4	16749.5	17712.4	18362.8	18852.7	19545.3	22374.9
57.5°	10735.6	10921.4	11614.0	12982.3	14882.8	15947.1	18008.0	20643.3	20863.0	20322.4	22425.6
60°	*8041.1*	*8193.1*	*9172.9*	*10271.0*	*12500.9*	*14477.4*	*17839.1*	*22805.7*	*23363.1*	*20187.2*	*20812.3*
62.5°	6368.7	6554.5	7424.5	7931.3	9527.7	11960.3	17247.8	23405.4	23886.8	19072.3	18565.5
65°	4975.0	5101.7	5912.6	6639.0	7027.5	8167.8	14781.4	20474.4	20905.2	17256.3	15322.0
67.5°	3285.7	3480.0	4442.9	5439.6	5642.3	5194.6	10169.6	15752.8	15955.5	13717.2	11521.1
70°	2356.6	2449.5	3167.5	4231.7	4535.8	3480.0	5540.9	11926.5	11985.6	9206.7	7762.4
72.5°	1604.8	1621.7	2153.9	3243.5	3615.1	2525.5	3049.2	7855.3	7652.6	4544.2	4442.9
75°	1089.6	1106.5	1376.8	2162.3	2559.3	1756.9	1984.9	4282.4	4113.5	2508.6	2694.4
77.5°	734.8	751.7	946.0	1452.8	1706.2	1216.3	1452.8	2263.7	2221.4	1664.0	1444.4
80°	557.5	582.8	701.1	929.1	1191.0	709.5	827.8	1072.7	1089.6	886.9	734.8
82.5°	312.5	346.3	422.3	473.0	768.6	397.0	397.0	641.9	616.6	549.0	397.0
85°	135.1	143.6	168.9	177.4	312.5	168.9	143.6	278.7	287.2	270.3	126.7
87.5°	25.3	25.3	25.3	25.3	25.3	25.3	25.3	33.8	33.8	33.8	33.8
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°	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3
2.5°	5980.2	6030.8	5980.2	5954.8	5954.8	5912.6	5895.7	5895.7	5836.6	5861.9	5845.0
5°	6115.3	6132.2	6073.1	5997.0	5895.7	5811.2	5693.0	5540.9	5448.0	5439.6	5448.0
7.5°	6326.5	6334.9	6174.4	6005.5	5752.1	5448.0	5084.8	4789.2	4527.3	4485.1	4535.8
10°	6622.1	6605.2	6368.7	5971.7	5439.6	4797.6	4240.2	3969.9	3817.8	3809.4	3800.9
12.5°	7019.1	6909.3	6546.1	5828.1	4899.0	4155.7	3868.5	3851.6	3893.9	3927.6	3936.1
15°	7475.2	7331.6	6689.7	5549.4	4350.0	3919.2	3936.1	4079.7	4130.4	4164.1	4164.1
17.5°	8041.1	7855.3	6850.1	5152.4	4071.2	3969.9	4088.1	4223.3	4307.7	4341.5	4333.1
20°	8792.8	8404.3	6976.8	4772.3	3995.2	4054.3	4155.7	4290.8	4375.3	4417.5	4417.5
22.5°	9544.6	9063.1	7002.2	4510.5	3995.2	4062.8	4155.7	4290.8	4383.8	4426.0	4417.5
25°	10566.6	9907.8	7010.6	4324.6	4003.7	4020.6	4105.0	4223.3	4358.4	4400.6	4417.5
27.5°	11656.2	10836.9	7052.9	4282.4	3969.9	3961.4	4020.6	4130.4	4265.5	4375.3	4383.8
30°	13007.7	11884.3	7069.8	4324.6	3978.3	3868.5	3910.7	4020.6	4164.1	4274.0	4307.7
32.5°	14333.8	12855.6	7036.0	4417.5	3995.2	3809.4	3817.8	3885.4	4037.4	4113.5	4172.6
35°	15735.9	13886.1	6976.8	4544.2	4003.7	3784.1	3708.0	3741.8	3843.2	3851.6	3877.0
37.5°	16834.0	14654.7	6799.5	4713.2	4020.6	3691.1	3539.1	3513.8	3471.5	3387.1	3404.0
40°	17737.7	15170.0	6503.8	4797.6	3978.3	3581.3	3327.9	3209.7	3049.2	2922.5	2947.8
42.5°	18388.1	15516.3	6149.1	4814.5	3910.7	3395.5	3083.0	2880.3	2702.9	2567.7	2576.2
45°	18675.3	15482.5	5769.0	4687.8	3750.3	3167.5	2854.9	2660.7	2466.4	2322.8	2305.9
47.5°	18683.8	15153.1	5245.3	4383.8	3480.0	2905.6	2643.8	2432.6	2272.1	2170.8	2162.3
50°	18751.3	14967.3	4755.4	3944.5	3125.2	2626.9	2457.9	2246.8	2153.9	2010.3	1968.0
52.5°	19173.6	15271.3	4417.5	3463.1	2795.8	2424.2	2297.5	2111.6	1959.6	1866.7	1858.2
55°	19857.8	15795.0	4231.7	3099.9	2483.3	2229.9	2145.4	1984.9	1849.8	1756.9	1731.5
57.5°	19942.3	16065.3	4012.1	2762.0	2229.9	2077.8	2044.1	1866.7	1672.4	1604.8	1579.5
60°	*18759.8*	*15609.2*	*3741.8*	*2449.5*	*2044.1*	*1959.6*	*1942.7*	*1706.2*	*1545.7*	*1461.3*	*1427.5*
62.5°	17146.5	14468.9	3327.9	2162.3	1900.5	1841.3	1773.8	1587.9	1385.2	1292.3	1267.0
65°	14012.8	12163.0	2829.6	1968.0	1756.9	1689.3	1672.4	1419.0	1283.9	1233.2	1224.7
67.5°	10617.3	9772.6	2491.7	1824.5	1604.8	1579.5	1520.4	1435.9	1376.8	1317.7	1300.8
70°	7509.0	7052.9	2120.1	1638.6	1452.8	1410.6	1655.5	1562.6	1351.4	1275.4	1267.0
72.5°	4552.7	4426.0	1832.9	1469.7	1250.1	1317.7	1528.8	1410.6	1216.3	1123.4	1089.6
75°	2871.8	2626.9	1537.3	1250.1	996.7	1072.7	1334.6	1258.5	1047.4	954.5	929.1
77.5°	1562.6	1452.8	1157.2	1022.0	785.5	870.0	1165.6	1038.9	836.2	912.2	810.9
80°	684.2	760.2	768.6	591.3	523.7	641.9	836.2	810.9	641.9	650.4	540.6
82.5°	329.4	430.8	498.3	405.4	295.6	380.1	557.5	464.6	430.8	405.4	388.5
85°	101.4	160.5	219.6	194.3	135.1	160.5	261.8	253.4	304.1	261.8	244.9
87.5°	33.8	33.8	25.3	25.3	25.3	33.8	42.2	25.3	8.4	8.4	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°	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3
2.5°	5836.6	5845.0	5845.0	5853.5	5853.5	5878.8	5912.6	5946.4	5921.0	5954.8	5963.3
5°	5431.1	5473.4	5507.1	5633.8	5735.2	5819.7	5912.6	5997.0	6022.4	6039.3	6081.5
7.5°	4476.7	4594.9	4814.5	5101.7	5422.7	5735.2	5946.4	6166.0	6199.8	6242.0	6301.1
10°	3809.4	3860.1	4012.1	4307.7	4882.1	5498.7	6013.9	6360.2	6503.8	6588.3	6647.4
12.5°	3919.2	3885.4	3860.1	3902.3	4274.0	5067.9	5971.7	6639.0	6909.3	7002.2	7078.2
15°	4181.0	4147.3	4054.3	3936.1	3978.3	4611.8	5828.1	6900.8	7331.6	7483.6	7644.1
17.5°	4333.1	4299.3	4223.3	4096.6	3986.8	4231.7	5557.8	7137.3	7998.9	8184.7	8412.8
20°	4417.5	4383.8	4307.7	4181.0	4054.3	4088.1	5211.5	7433.0	8759.1	9054.7	9392.6
22.5°	4434.4	4392.2	4307.7	4181.0	4105.0	4079.7	4882.1	7610.3	9578.4	10034.5	10423.0
25°	4426.0	4350.0	4240.2	4147.3	4105.0	4096.6	4654.0	7711.7	10465.3	11191.7	11630.9
27.5°	4366.9	4274.0	4164.1	4096.6	4079.7	4130.4	4552.7	7829.9	11504.2	12433.3	13134.4
30°	4299.3	4164.1	4029.0	4003.7	4045.9	4206.4	4637.2	7872.2	12593.8	13784.8	14502.7
32.5°	4121.9	4020.6	3885.4	3877.0	3978.3	4265.5	4831.4	7813.1	13556.7	15136.2	16040.0
35°	3868.5	3809.4	3733.4	3758.7	3919.2	4316.2	4966.6	7627.2	14435.1	16394.7	17450.6
37.5°	3420.8	3463.1	3505.3	3564.4	3767.2	4307.7	5025.7	7331.6	15161.5	17399.9	18751.3
40°	2922.5	3066.1	3201.2	3353.3	3623.6	4240.2	5042.6	6968.4	15583.9	18160.1	19908.5
42.5°	2610.0	2745.1	2914.1	3133.7	3429.3	4088.1	5025.7	6563.0	15719.0	18683.8	20643.3
45°	2322.8	2483.3	2694.4	2922.5	3260.4	3868.5	4873.7	6123.7	15786.6	18928.7	20955.9
47.5°	2170.8	2263.7	2457.9	2686.0	3040.8	3598.2	4578.0	5802.8	15685.2	18979.4	21336.0
50°	1993.4	2120.1	2246.8	2466.4	2812.7	3260.4	4223.3	5617.0	15854.2	19477.7	21935.7
52.5°	1858.2	1925.8	2061.0	2263.7	2517.1	2947.8	3885.4	5464.9	16318.7	19984.5	22560.7
55°	1756.9	1832.9	1917.4	2086.3	2280.6	2635.3	3539.1	5236.9	16859.3	20525.1	23185.8
57.5°	1596.4	1647.1	1765.3	1942.7	2069.4	2331.2	3133.7	4966.6	16817.1	20102.8	22104.6
60°	*1452.8*	*1503.5*	*1630.2*	*1807.6*	*1883.6*	*2061.0*	*2736.7*	*4620.3*	*16006.2*	*18726.0*	*20111.2*
62.5°	1292.3	1351.4	1503.5	1630.2	1697.8	1832.9	2322.8	3986.8	14316.9	16656.6	17780.0
65°	1224.7	1258.5	1359.9	1511.9	1503.5	1630.2	1959.6	3133.7	11521.1	12728.9	13751.0
67.5°	1300.8	1351.4	1334.6	1376.8	1351.4	1419.0	1756.9	2517.1	9054.7	9586.8	10178.1
70°	1283.9	1402.1	1461.3	1376.8	1182.5	1258.5	1520.4	2010.3	6478.5	6427.8	6402.5
72.5°	1123.4	1241.6	1410.6	1495.0	1157.2	1047.4	1317.7	1740.0	4155.7	4138.8	3741.8
75°	954.5	1038.9	1241.6	1351.4	996.7	844.7	1131.8	1478.1	2483.3	2517.1	2246.8
77.5°	878.4	836.2	1038.9	1191.0	810.9	650.4	912.2	1114.9	1368.3	1385.2	1283.9
80°	633.5	608.2	777.1	870.0	616.6	464.6	515.2	692.6	734.8	658.8	684.2
82.5°	405.4	413.9	464.6	557.5	380.1	253.4	354.8	464.6	397.0	321.0	380.1
85°	261.8	295.6	244.9	287.2	118.3	118.3	152.0	202.7	135.1	92.9	101.4
87.5°	0.0	0.0	16.9	33.8	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: P1501512
CATALOG NUMBER: GSS-SB5D-827-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	5963.3	5963.3	*5963.3*	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3	5963.3
2.5°	5988.6	5980.2	*5980.2*	5997.0	6039.3	6056.2	6081.5	6073.1	6098.4	6081.5
5°	6106.8	6115.3	*6140.6*	6149.1	6174.4	6208.2	6216.7	6208.2	6225.1	6225.1
7.5°	6343.4	6377.1	*6360.2*	6402.5	6368.7	6326.5	6258.9	6208.2	6166.0	6182.9
10°	6740.3	6723.4	*6715.0*	6639.0	6486.9	6267.3	6090.0	5895.7	5861.9	5828.1
12.5°	7179.6	7162.7	*7162.7*	6900.8	6470.1	6013.9	5608.5	5304.4	5203.1	5194.6
15°	7796.2	7686.4	*7585.0*	7036.0	6174.4	5397.3	4924.3	4687.8	4628.7	4628.7
17.5°	8564.8	8277.6	*8108.7*	6934.6	5693.0	4991.9	4713.2	4654.0	4637.2	4679.4
20°	9519.3	8792.8	*8547.9*	6706.6	5515.6	5042.6	4907.4	4915.9	4924.3	4983.5
22.5°	10566.6	9265.9	*8860.4*	6706.6	5693.0	5363.6	5296.0	5388.9	5414.2	5464.9
25°	11732.2	9688.2	*9139.2*	7061.3	6216.7	5971.7	5887.2	5980.2	6047.7	6132.2
27.5°	13041.5	10127.4	*9620.6*	7703.2	6892.4	6740.3	6647.4	6689.7	6782.6	6883.9
30°	14215.5	10862.3	*10355.5*	8683.0	7813.1	7627.2	7466.7	7534.3	7635.7	7703.2
32.5°	15254.5	11757.6	*11326.8*	9713.5	8868.9	8547.9	8370.5	8353.6	8556.3	8505.7
35°	16208.9	12813.4	*12399.5*	10887.6	9941.6	9544.6	9308.1	9612.2	9477.0	9527.7
37.5°	16960.7	13911.5	*13582.0*	12011.0	11056.5	10515.9	10372.4	10744.0	10955.2	11014.3
40°	17577.3	14865.9	*14519.6*	13125.9	12078.6	11681.6	11909.6	12526.2	12500.9	12475.5
42.5°	18050.3	15685.2	*15305.1*	13970.6	13058.4	13134.4	13311.7	13725.6	13827.0	13683.4
45°	18261.4	16200.5	*15896.4*	14637.9	14173.3	14612.5	14688.5	14865.9	14798.3	14705.4
47.5°	18506.4	16656.6	*16335.6*	15246.0	15381.2	15811.9	15659.9	15516.3	15271.3	15127.8
50°	18920.3	17197.2	*16926.9*	16132.9	16622.8	16479.2	15887.9	15567.0	15068.6	14899.7
52.5°	19705.8	18219.2	*18016.5*	17535.0	17205.6	16377.8	15659.9	15085.5	14528.1	14300.0
55°	20406.8	19604.4	*19486.2*	18844.2	17028.2	15845.7	14882.8	13995.9	13041.5	12847.2
57.5°	20812.3	21901.9	*22037.0*	19401.7	16217.4	14637.9	13218.8	11799.8	10896.0	10735.6
60°	*19604.4*	*24385.2*	*24452.7*	*19291.9*	*14756.1*	*12458.6*	*10296.3*	*9291.2*	*8319.8*	*8041.1*
62.5°	17940.5	23869.9	*23810.8*	18633.1	11749.1	9088.5	7821.5	7348.5	6596.7	6368.7
65°	15423.4	19883.2	*19950.7*	16099.1	7813.1	6571.4	6571.4	5971.7	5135.5	4975.0
67.5°	12568.5	15330.5	*15178.4*	10439.9	4797.6	5262.2	5515.6	4654.0	3480.0	3285.7
70°	8167.8	11706.9	*11495.7*	6022.4	3015.4	4383.8	4341.5	3496.9	2491.7	2356.6
72.5°	3513.8	6765.7	*7196.5*	3074.5	2272.1	3530.7	3463.1	2449.5	1664.0	1604.8
75°	2120.1	3404.0	*3708.0*	1959.6	1655.5	2660.7	2398.8	1554.2	1131.8	1089.6
77.5°	1343.0	1866.7	*1849.8*	1469.7	1241.6	1799.1	1613.3	1072.7	768.6	734.8
80°	777.1	920.7	*954.5*	920.7	836.2	1283.9	1030.5	777.1	599.7	557.5
82.5°	498.3	574.4	*582.8*	447.7	464.6	827.8	557.5	456.1	346.3	312.5
85°	219.6	244.9	*236.5*	152.0	152.0	337.9	194.3	185.8	135.1	135.1
87.5°	8.4	16.9	*8.4*	8.4	8.4	33.8	16.9	25.3	25.3	25.3
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

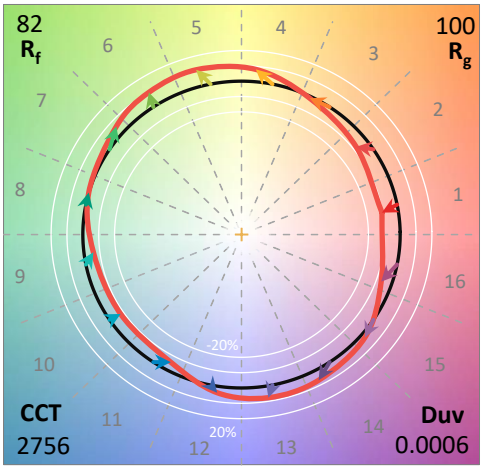
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-8
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-827-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2756
CIE u':	0.2599
CIE v':	0.5271
Duv:	0.0006
CIE x:	0.4563
CIE y:	0.4112
CIE z:	0.1325
Peak Wavelength (nm):	609
Dominant Wavelength (nm):	583
Purity:	60.41121
Rf:	82.2
Rg:	99.9

CRI (Ra):	82.9
R1:	81.6
R2:	88.8
R3:	96.0
R4:	83.4
R5:	81.4
R6:	87.0
R7:	84.0
R8:	60.8
R9:	10.8
R10:	74.8
R11:	84.3
R12:	72.1
R13:	82.9
R14:	97.3
R15:	73.7



Test Conditions

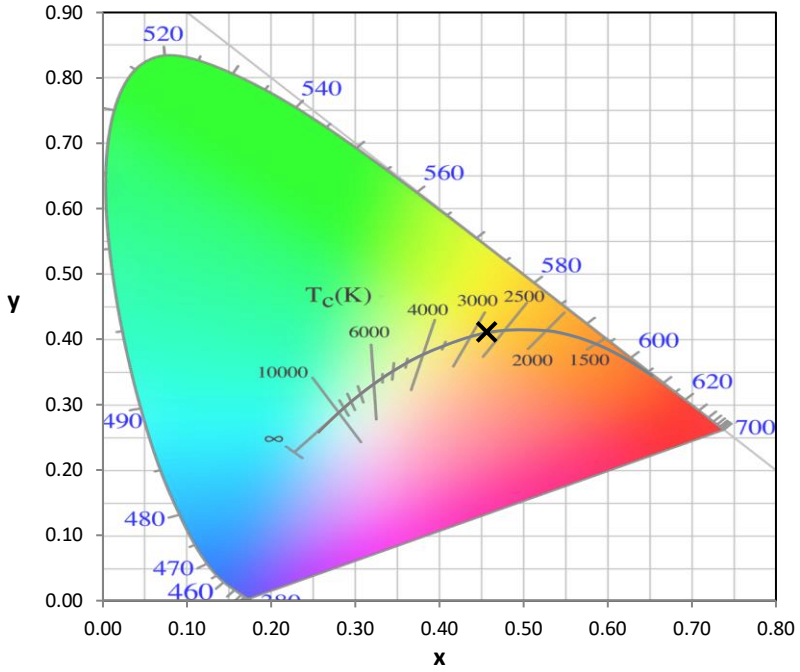
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-8

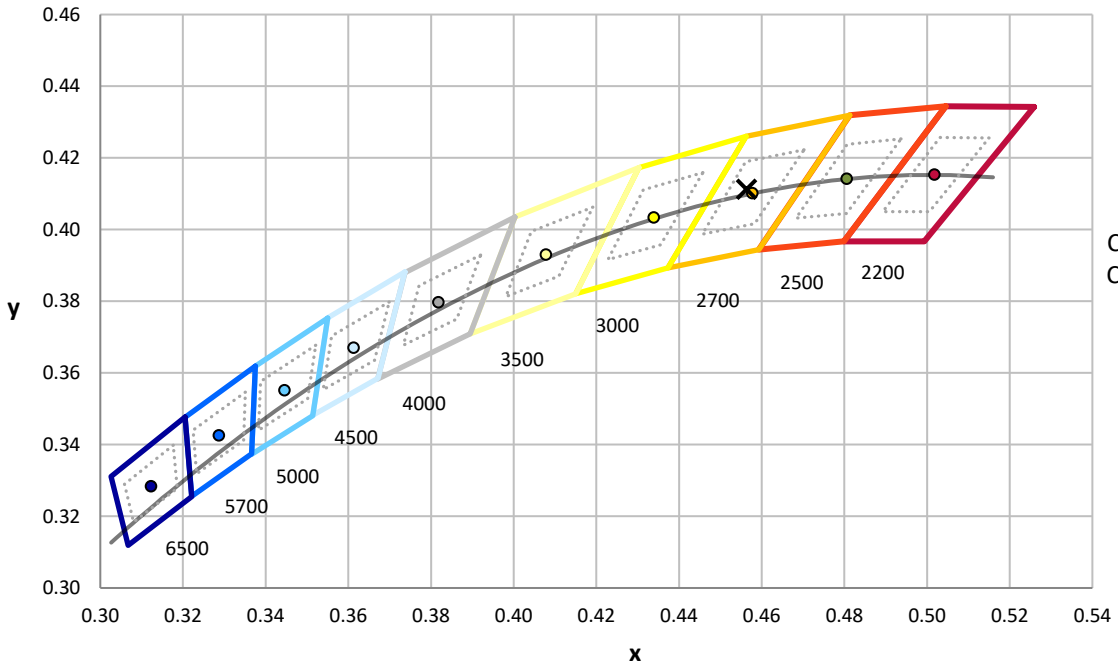
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-8

CIE 1931 Chromaticity Diagram



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

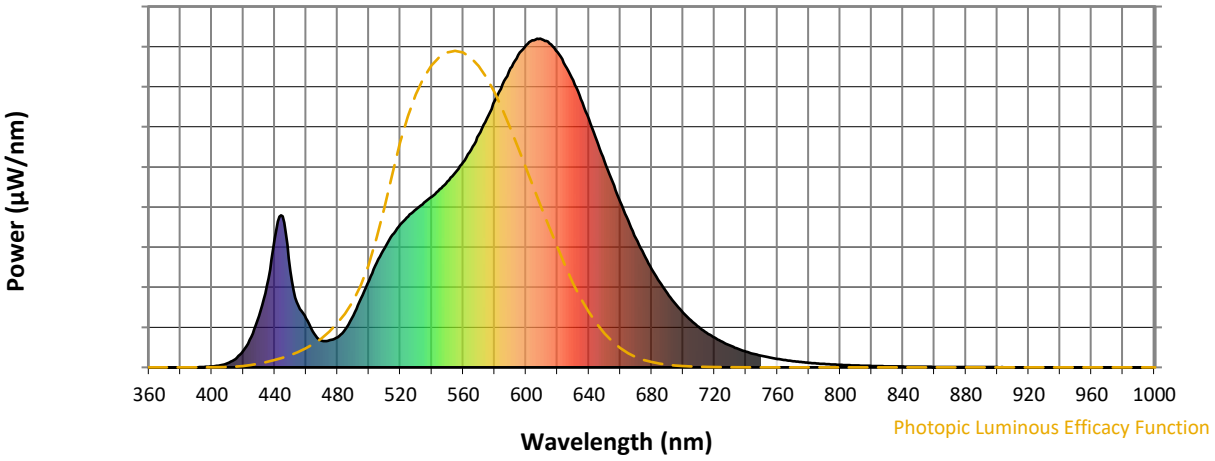


CCT = 2756K
CIE x = 0.4563
CIE y = 0.4112
Duv = 0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

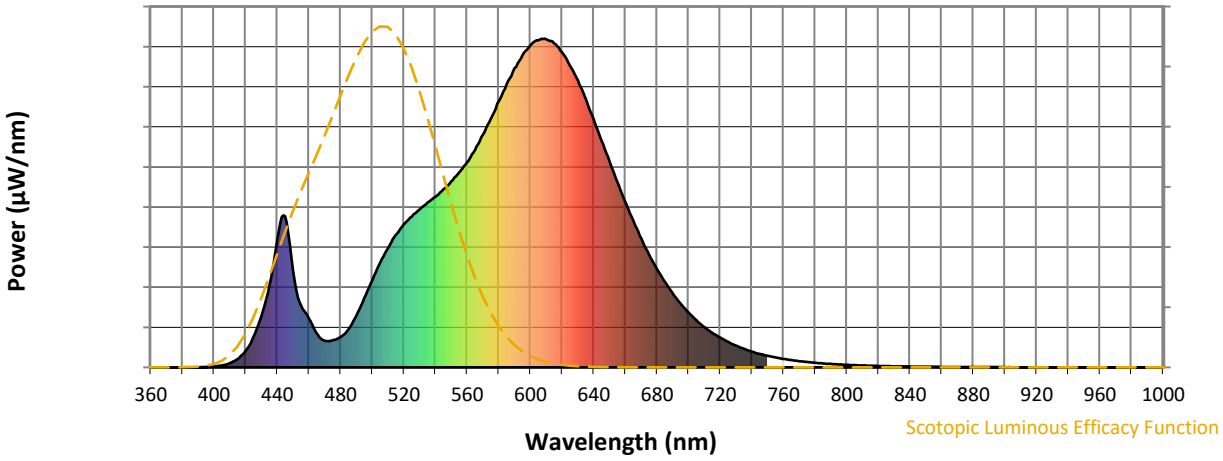


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength

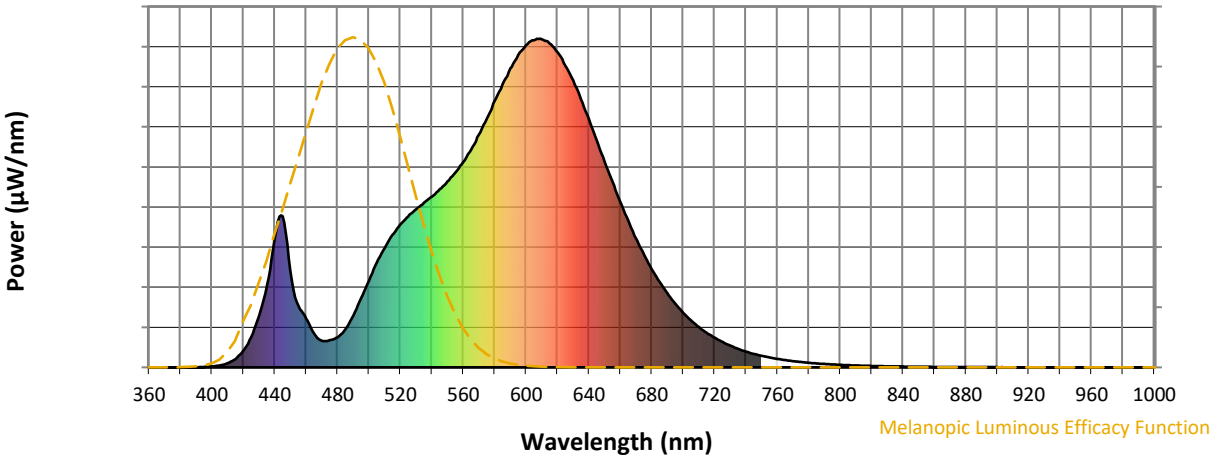


Scotopic Lumens: NR **S/P: 1.2**

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.16**

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

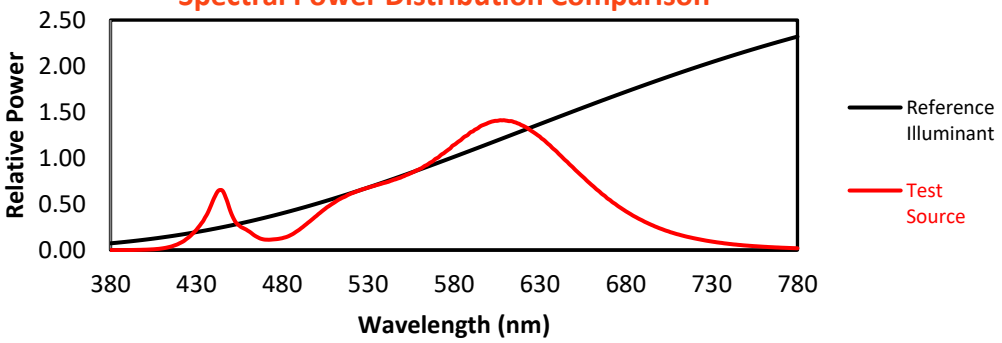
REPORT NUMBER: SP1-2407-184-8

TM-30-18

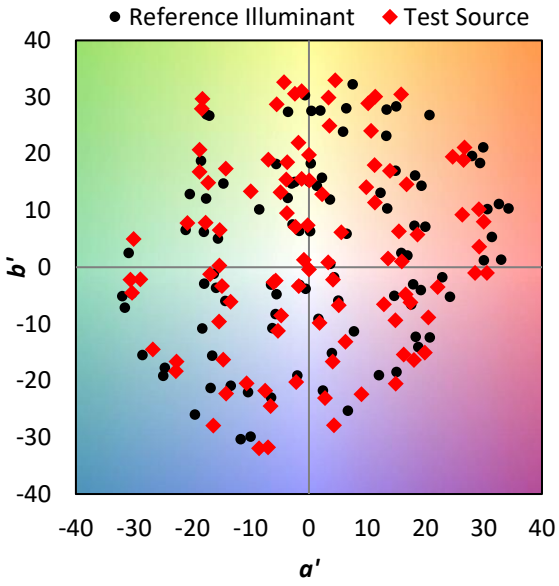
Summary

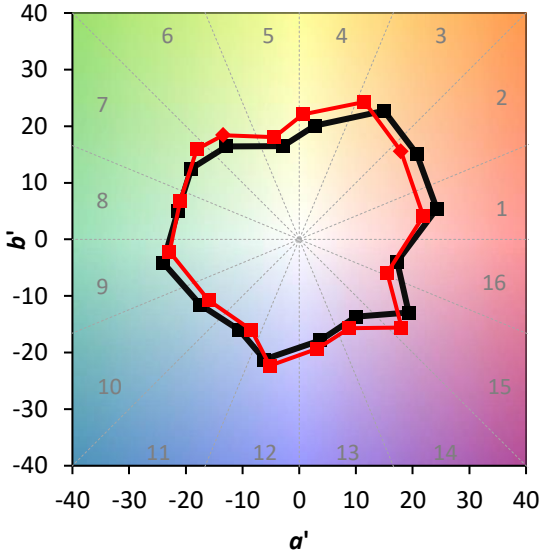
R_f = 82.2
R_g = 99.9
CIE R_a = 82.9
R_9 = 10.8

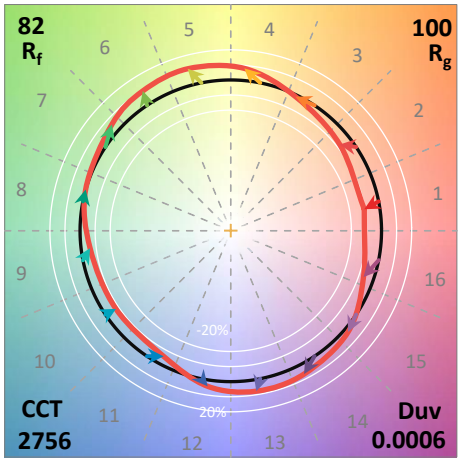
Spectral Power Distribution Comparison

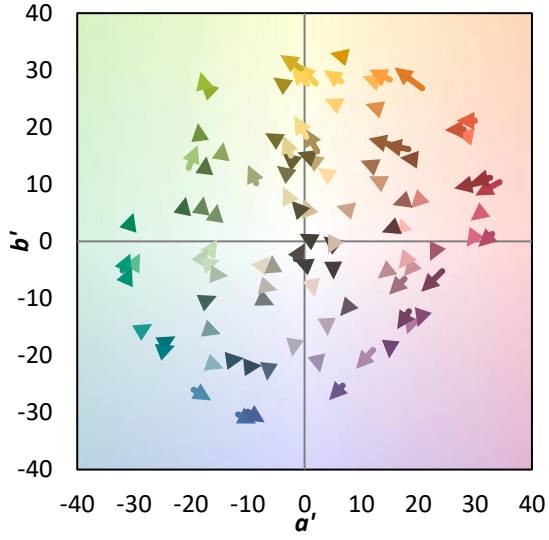


Color Vector Graphics







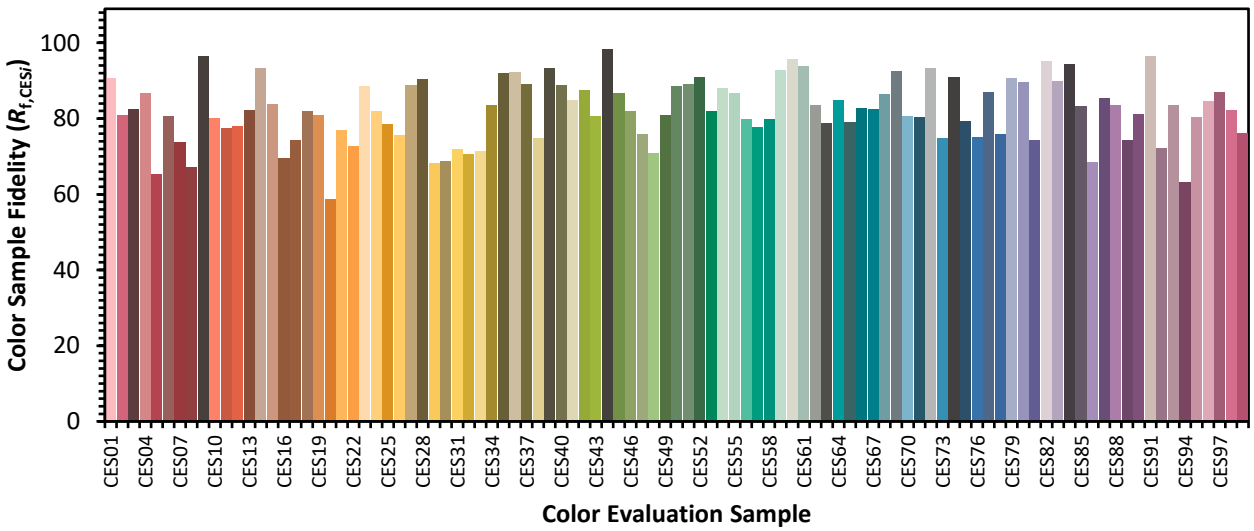


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Individual Sample Fidelity Index ($R_{f,i}$)

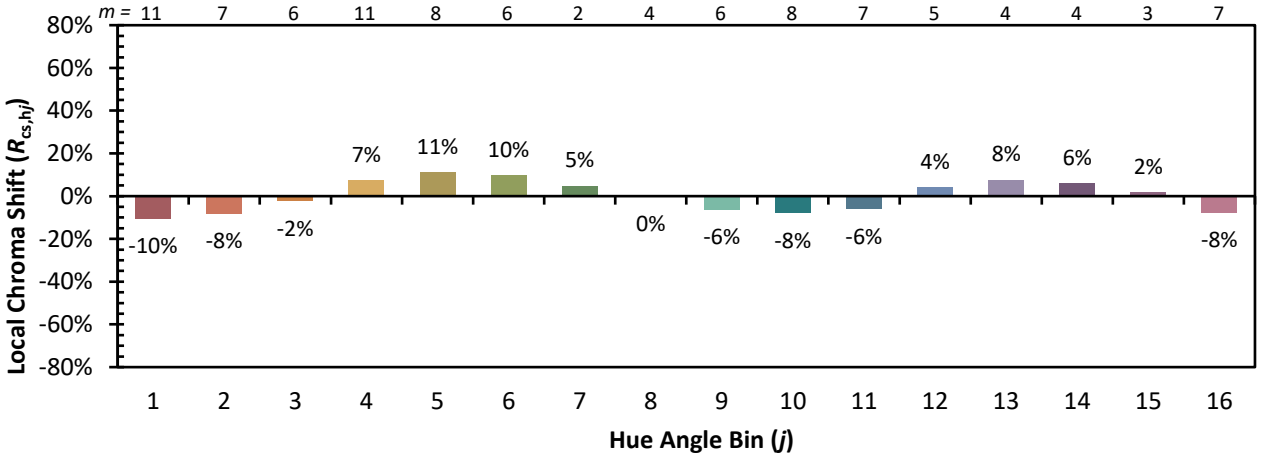
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	

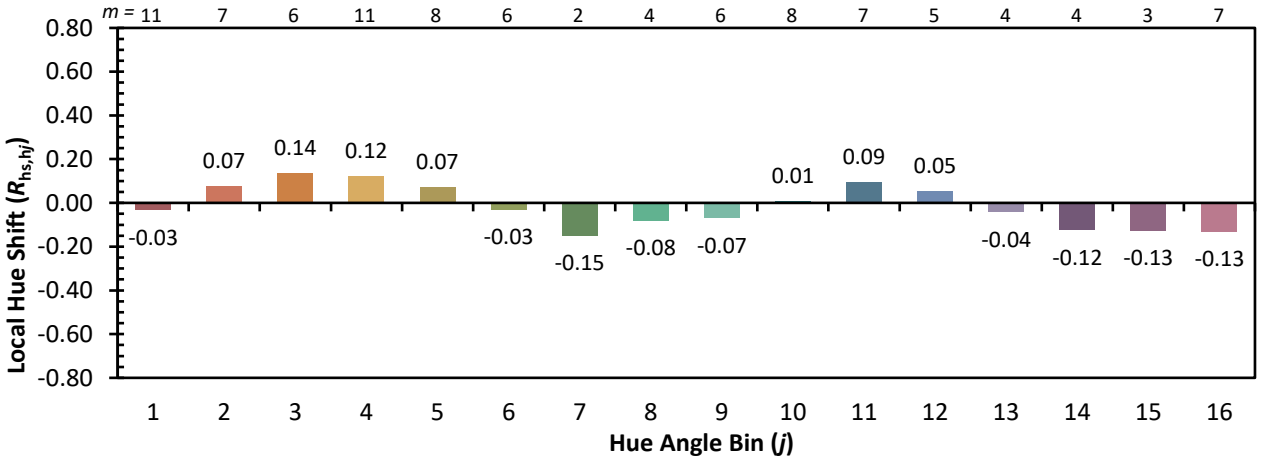


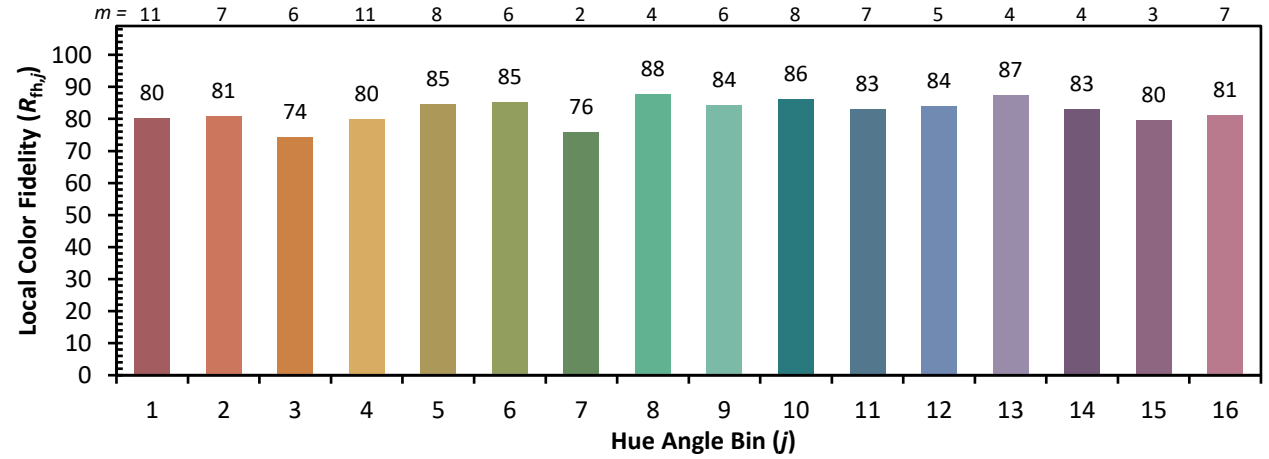
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Color Rendition by Hue-Angle Bin



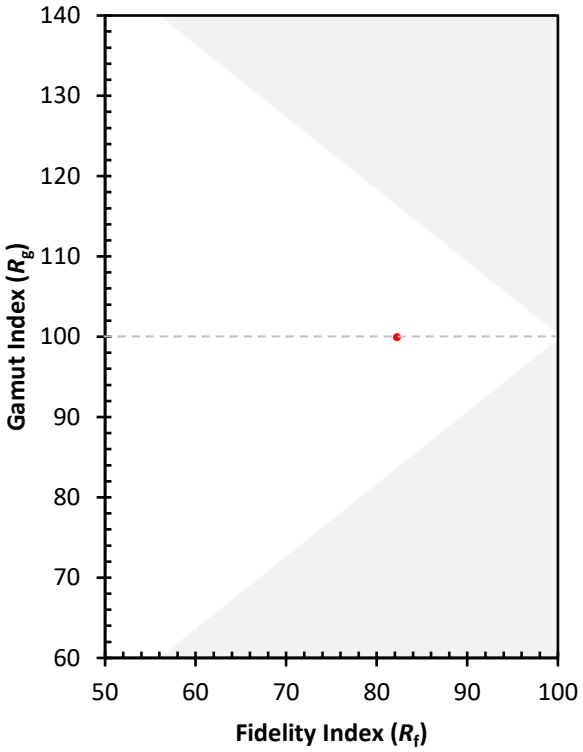


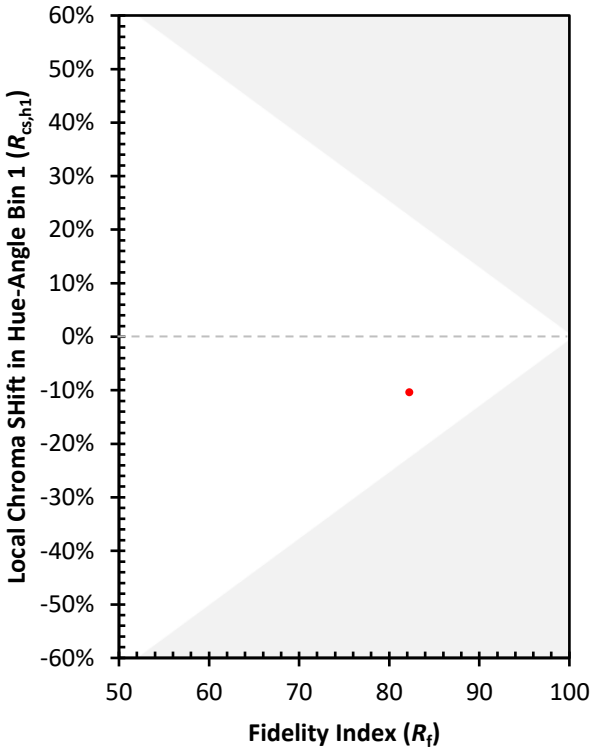


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Measure Comparisons





(END OF REPORT)