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: P1501891

Luminaire Tested: GSS-SB4C-827-U-T2LG-HSS

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501891
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4C-827-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 204W 80CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(104) 2700K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	20408.8 lumens
Efficiency:	N/A
Efficacy:	100.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

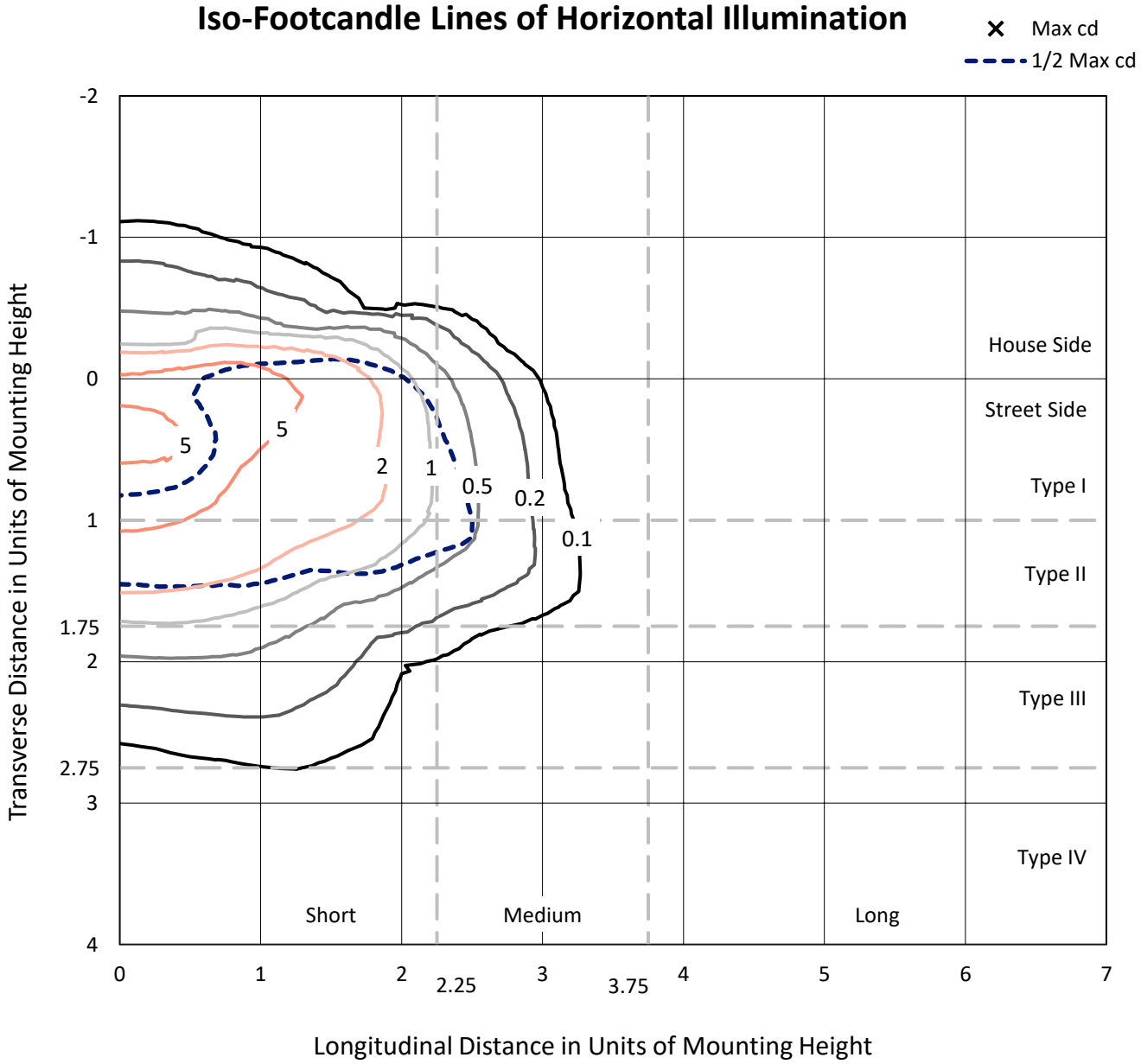
Input Watts (W):	204
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.5%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



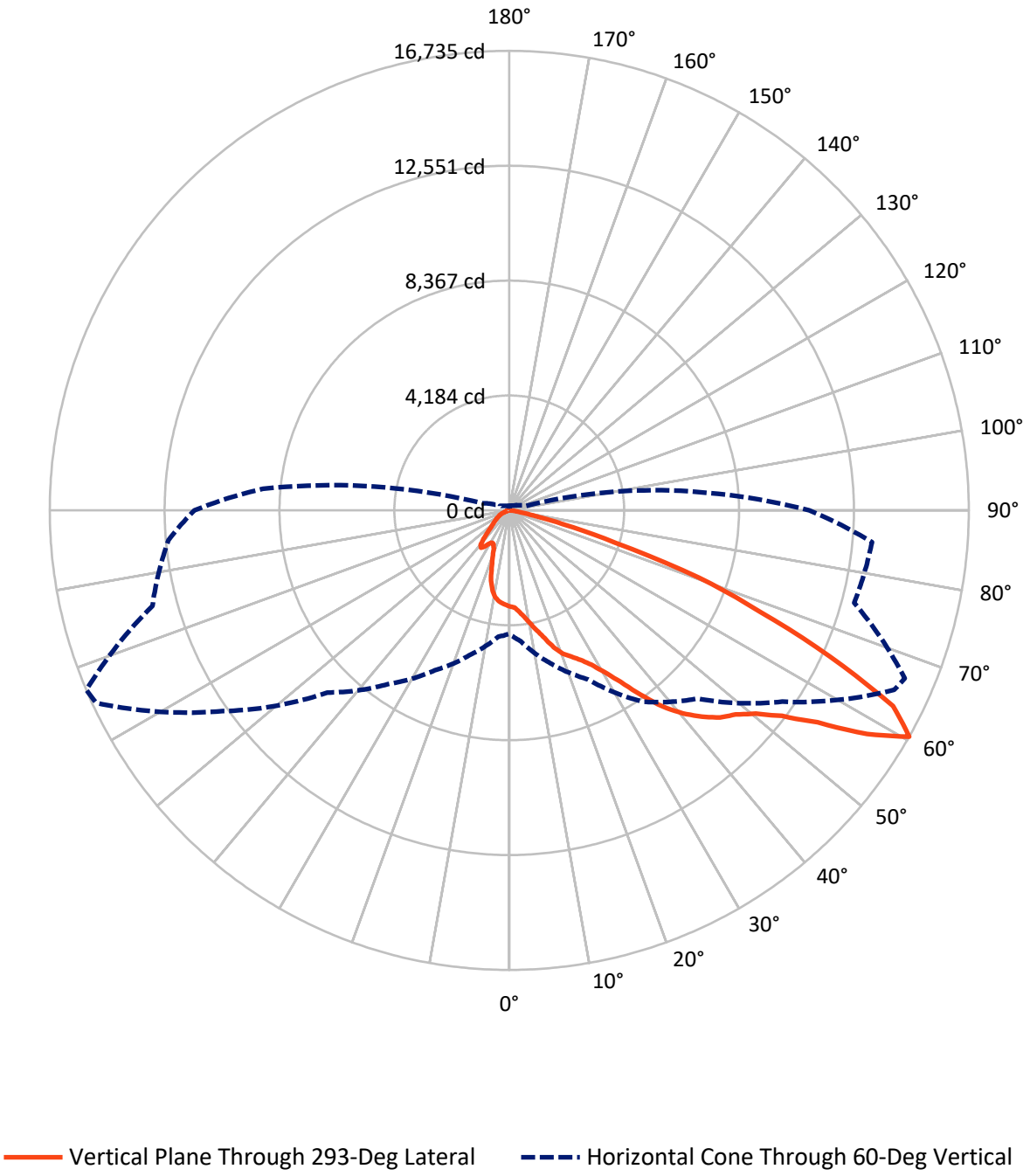
Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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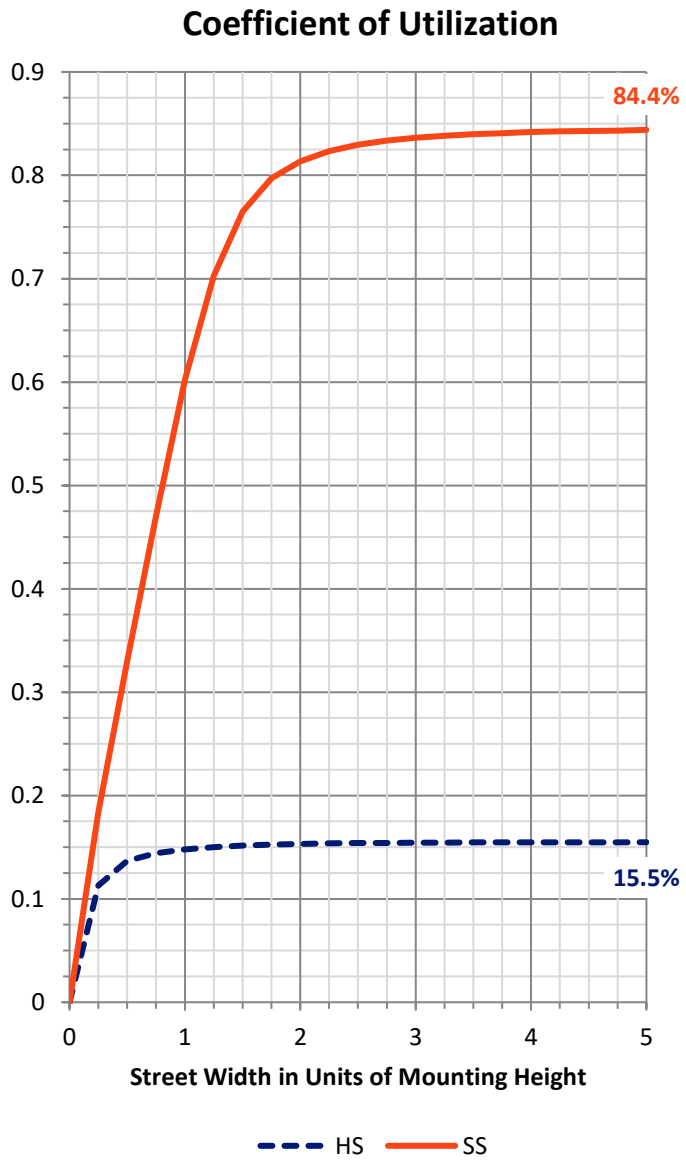
REPORT NUMBER: P1501891
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3184.3	0.0	3184.3
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	17224.5	0.0	17224.5
	% Fixture	84.4	0.0	84.4
Total	Lumens	20408.8	0.0	20408.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	1.6
10°-20°	797.7	3.9
20°-30°	1489.1	7.3
30°-40°	2953.1	14.5
40°-50°	4708.3	23.1
50°-60°	5625.2	27.6
60°-70°	3687.7	18.1
70°-80°	772.6	3.8
80°-90°	58.4	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°	20408.8	100.0
0°-180°	20408.8	100.0



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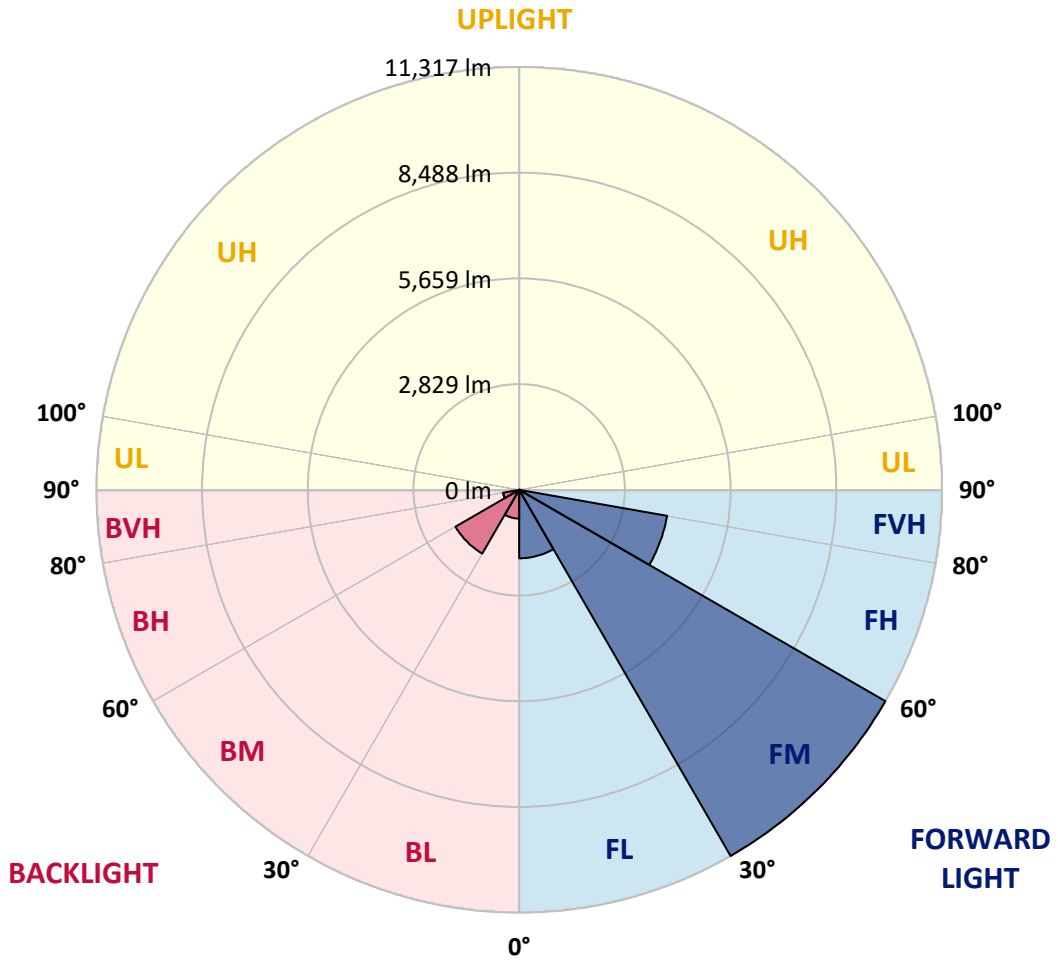
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1833.1	9.0			
FM	(30°-60°)	11317.5	55.5			
FH	(60°-80°)	4020.4	19.7			G2/5000
FVH	(80°-90°)	53.5	0.3			G1/100
BL	(0°-30°)	770.4	3.8	B2/1000		
BM	(30°-60°)	1969.1	9.6	B2/2500		
BH	(60°-80°)	439.9	2.2	B1/500		G1/500
BVH	(80°-90°)	4.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9
2.5°	3675.0	3663.6	3646.5	3652.2	3646.5	3623.6	3589.3	3560.7	3583.6	3549.3	3526.4
5°	3783.6	3783.6	3772.2	3772.2	3777.9	3766.5	3743.6	3703.6	3709.3	3680.8	3606.5
7.5°	3783.6	3766.5	3795.1	3823.6	3875.1	3903.7	3915.1	3892.2	3903.7	3846.5	3749.3
10°	3560.7	3549.3	3623.6	3732.2	3880.8	4012.3	4098.0	4103.7	4120.8	4063.7	3949.4
12.5°	3086.3	3063.5	3212.1	3417.8	3720.8	4023.7	4263.7	4355.2	4395.2	4372.3	4212.3
15°	2646.3	2674.8	2777.7	3000.6	3406.4	3869.4	4355.2	4658.1	4715.3	4743.8	4555.2
17.5°	2600.5	2606.2	2640.5	2749.1	3057.8	3617.9	4366.6	4972.5	5052.5	5178.2	4921.0
20°	2726.3	2714.8	2749.1	2783.4	2932.0	3395.0	4258.0	5275.4	5429.7	5698.3	5418.3
22.5°	2960.6	2960.6	2977.8	3000.6	3074.9	3377.8	4212.3	5555.4	5818.3	6367.0	6041.2
25°	3355.0	3309.3	3320.7	3292.1	3355.0	3583.6	4315.2	5778.3	6138.4	7110.0	6784.3
27.5°	3966.5	3983.7	3880.8	3726.5	3760.8	3955.1	4566.7	6029.8	6469.9	7881.6	7538.7
30°	4812.4	4783.8	4721.0	4418.1	4280.9	4452.3	5029.6	6441.3	6915.7	8859.0	8544.6
32.5°	5475.4	5555.4	5446.8	5235.4	5023.9	5075.3	5681.2	7104.3	7458.7	9756.3	9584.8
35°	6275.6	6275.6	6298.4	6001.2	5858.3	5846.9	6498.5	7824.5	8178.8	10567.9	10687.9
37.5°	7355.8	7281.5	7155.8	6824.3	6715.7	6858.6	7264.3	8567.5	8950.4	11225.2	11545.2
40°	8264.6	8316.0	8298.8	7818.7	7607.3	7761.6	8121.7	9201.9	9499.1	11648.1	12236.8
42.5°	9156.2	9184.7	9110.4	8881.8	8573.2	8584.6	8881.8	9682.0	9984.9	12053.9	12888.4
45°	9824.9	9819.2	9767.7	9710.6	9527.7	9339.1	9390.5	10213.5	10476.4	12185.4	13242.7
47.5°	10036.3	10082.1	10127.8	10287.8	10413.6	10116.4	9853.5	10499.3	10739.3	12162.5	13374.2
50°	9842.0	9939.2	10162.1	10402.1	10830.8	10807.9	10242.1	10807.9	11042.3	12288.2	13528.5
52.5°	9407.6	9504.8	9802.0	10236.4	10882.2	11202.3	10962.3	11328.0	11602.4	12608.3	13848.6
55°	8396.0	8436.0	9047.6	9619.1	10625.0	11030.8	11733.8	12208.2	12436.8	12997.0	14271.5
57.5°	6835.7	6932.9	7533.0	8464.6	9904.9	10579.3	12173.9	13711.4	13705.7	13368.5	14363.0
60°	*4498.1*	*4783.8*	*5761.2*	*6790.0*	*8510.3*	*9693.4*	*12145.4*	*15471.8*	*15648.9*	*13002.7*	*13259.9*
62.5°	3435.0	3555.0	4109.4	4966.7	6298.4	8035.9	11956.7	15997.6	16134.7	12019.6	11608.1
65°	2583.4	2732.0	3263.5	4029.4	4446.6	5446.8	10722.2	13905.7	14094.3	10727.9	9024.7
67.5°	1583.2	1703.2	2411.9	3309.3	3366.4	3383.6	7235.8	10533.6	10602.2	8653.2	6075.5
70°	1057.4	1177.4	1668.9	2543.4	2680.6	1949.0	3972.2	7973.1	7967.4	5921.2	3692.2
72.5°	611.6	668.7	1057.4	1874.7	2109.0	1240.3	1983.3	5069.6	4846.7	2783.4	1726.1
75°	348.6	388.7	583.0	1206.0	1480.3	788.7	783.0	2714.8	2400.5	1434.6	943.1
77.5°	211.5	228.6	320.1	788.7	891.6	531.5	434.4	1263.1	1217.4	840.2	497.2
80°	102.9	120.0	194.3	463.0	571.5	285.8	262.9	497.2	531.5	463.0	262.9
82.5°	34.3	45.7	108.6	177.2	371.5	114.3	108.6	274.3	291.5	274.3	125.7
85°	17.1	22.9	51.4	57.2	142.9	57.2	40.0	120.0	148.6	91.4	51.4
87.5°	0.0	5.7	5.7	5.7	5.7	5.7	5.7	11.4	11.4	11.4	11.4
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°	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9
2.5°	3509.3	3497.9	3475.0	3435.0	3429.3	3400.7	3355.0	3326.4	3303.5	3320.7	3326.4
5°	3572.2	3543.6	3475.0	3366.4	3252.1	3137.8	3029.2	2903.5	2817.7	2806.3	2783.4
7.5°	3686.5	3629.3	3480.7	3269.2	2977.8	2703.4	2383.3	2074.7	1920.4	1897.5	1846.1
10°	3869.4	3772.2	3526.4	3097.8	2537.7	1966.1	1480.3	1148.8	960.2	925.9	937.3
12.5°	4086.6	3949.4	3532.2	2806.3	1931.8	1217.4	840.2	714.4	674.4	657.3	657.3
15°	4366.6	4166.6	3526.4	2429.1	1303.1	783.0	674.4	623.0	605.8	594.4	594.4
17.5°	4721.0	4458.1	3486.4	1863.2	880.2	680.1	617.3	577.3	554.4	548.7	548.7
20°	5138.2	4783.8	3395.0	1388.9	737.3	634.4	583.0	531.5	514.4	503.0	503.0
22.5°	5669.7	5178.2	3217.8	1080.2	697.3	605.8	548.7	491.5	474.4	463.0	463.0
25°	6287.0	5681.2	2983.5	971.6	691.6	583.0	514.4	457.2	440.1	434.4	428.7
27.5°	7018.6	6218.4	2766.3	977.3	703.0	565.8	480.1	428.7	411.5	394.4	400.1
30°	7881.6	6772.8	2589.1	1045.9	714.4	548.7	457.2	411.5	394.4	371.5	371.5
32.5°	8733.2	7424.4	2572.0	1171.7	754.4	537.3	434.4	388.7	371.5	354.4	354.4
35°	9607.7	8018.8	2669.1	1337.4	834.5	520.1	405.8	365.8	348.6	337.2	331.5
37.5°	10442.1	8493.2	2760.6	1440.3	788.7	445.8	371.5	337.2	320.1	297.2	297.2
40°	10996.5	8750.4	2777.7	1360.3	651.6	400.1	337.2	302.9	280.1	268.6	262.9
42.5°	11402.3	8916.1	2583.4	1103.1	565.8	365.8	308.6	274.3	257.2	245.8	245.8
45°	11568.1	8859.0	2251.9	840.2	520.1	337.2	280.1	251.5	240.0	228.6	228.6
47.5°	11545.2	8596.1	1914.7	674.4	474.4	308.6	262.9	240.0	228.6	217.2	211.5
50°	11505.2	8350.3	1571.8	600.1	422.9	291.5	245.8	228.6	211.5	200.0	194.3
52.5°	11768.1	8270.3	1303.1	548.7	394.4	280.1	240.0	217.2	200.0	188.6	188.6
55°	12031.0	8304.6	1023.1	514.4	365.8	274.3	234.3	211.5	194.3	177.2	177.2
57.5°	12013.9	8156.0	777.3	480.1	342.9	268.6	228.6	205.8	177.2	165.7	165.7
60°	*10922.2*	*7275.8*	*605.8*	*440.1*	*314.4*	*251.5*	*211.5*	*194.3*	*165.7*	*148.6*	*148.6*
62.5°	9236.2	5721.2	497.2	388.7	280.1	228.6	194.3	177.2	148.6	120.0	120.0
65°	6824.3	4126.6	400.1	337.2	257.2	200.0	177.2	154.3	120.0	97.2	91.4
67.5°	4618.1	2537.7	320.1	280.1	228.6	171.5	148.6	131.5	108.6	80.0	74.3
70°	2737.7	1348.8	234.3	194.3	171.5	125.7	125.7	114.3	91.4	68.6	62.9
72.5°	1303.1	468.7	171.5	142.9	131.5	91.4	97.2	97.2	74.3	51.4	45.7
75°	663.0	228.6	114.3	102.9	85.7	68.6	80.0	74.3	51.4	34.3	34.3
77.5°	377.2	160.0	80.0	68.6	57.2	45.7	51.4	45.7	28.6	17.1	17.1
80°	211.5	114.3	51.4	45.7	34.3	28.6	28.6	22.9	17.1	5.7	5.7
82.5°	80.0	68.6	34.3	22.9	17.1	17.1	11.4	11.4	5.7	0.0	0.0
85°	34.3	17.1	17.1	11.4	11.4	5.7	5.7	5.7	0.0	0.0	0.0
87.5°	5.7	5.7	5.7	5.7	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°	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9
2.5°	3280.7	3292.1	3303.5	3349.3	3360.7	3395.0	3423.6	3457.9	3463.6	3509.3	3509.3
5°	2829.2	2823.4	2920.6	3063.5	3154.9	3280.7	3377.8	3480.7	3537.9	3612.2	3646.5
7.5°	1874.7	2017.6	2234.7	2486.2	2812.0	3114.9	3343.5	3543.6	3680.8	3766.5	3800.8
10°	931.6	1011.6	1240.3	1651.8	2206.2	2823.4	3309.3	3680.8	3903.7	4000.8	4063.7
12.5°	657.3	674.4	714.4	937.3	1468.9	2343.3	3200.7	3829.4	4138.0	4320.9	4400.9
15°	588.7	600.1	617.3	680.1	908.8	1748.9	3006.3	3995.1	4503.8	4715.3	4818.1
17.5°	543.0	548.7	565.8	617.3	714.4	1188.8	2692.0	4172.3	4943.9	5201.1	5395.4
20°	503.0	503.0	520.1	583.0	663.0	914.5	2240.5	4372.3	5504.0	5875.5	6069.8
22.5°	457.2	468.7	480.1	548.7	645.8	834.5	1817.5	4526.6	6127.0	6578.5	6807.1
25°	422.9	434.4	445.8	514.4	628.7	834.5	1571.8	4623.8	6824.3	7361.5	7675.9
27.5°	394.4	405.8	422.9	491.5	611.6	868.7	1474.6	4652.4	7584.4	8281.7	8704.6
30°	371.5	382.9	400.1	474.4	623.0	908.8	1508.9	4612.4	8356.0	9230.5	9733.4
32.5°	348.6	360.1	377.2	457.2	623.0	960.2	1623.2	4532.4	9104.7	10179.2	10796.5
35°	331.5	337.2	342.9	411.5	565.8	954.5	1766.1	4452.3	9859.2	11116.6	11836.7
37.5°	297.2	302.9	314.4	354.4	451.5	868.7	1794.7	4355.2	10453.6	11905.3	12699.8
40°	262.9	274.3	285.8	325.8	377.2	703.0	1668.9	4149.4	10767.9	12511.1	13477.1
42.5°	240.0	245.8	257.2	297.2	348.6	560.1	1400.3	3789.4	11048.0	12922.7	14042.9
45°	222.9	228.6	240.0	268.6	325.8	485.8	1103.1	3349.3	11070.8	13054.1	14317.2
47.5°	205.8	211.5	217.2	245.8	314.4	434.4	845.9	2949.2	11065.1	13225.6	14551.6
50°	194.3	200.0	211.5	234.3	297.2	388.7	697.3	2623.4	11305.2	13597.1	15025.9
52.5°	188.6	188.6	205.8	228.6	280.1	354.4	583.0	2331.9	11430.9	13962.9	15368.9
55°	177.2	182.9	194.3	217.2	262.9	337.2	497.2	1966.1	11488.1	14145.8	15431.7
57.5°	165.7	171.5	188.6	205.8	251.5	320.1	428.7	1468.9	10670.8	13191.3	14380.1
60°	*148.6*	*160.0*	*182.9*	*200.0*	*234.3*	*291.5*	*377.2*	*994.5*	*9001.8*	*11465.2*	*12459.7*
62.5°	120.0	142.9	165.7	177.2	211.5	245.8	320.1	663.0	7190.0	9487.7	10619.3
65°	91.4	120.0	137.2	154.3	177.2	205.8	268.6	451.5	4795.3	6384.2	7658.7
67.5°	80.0	102.9	114.3	125.7	148.6	177.2	217.2	314.4	2909.2	3835.1	5092.5
70°	62.9	85.7	97.2	91.4	114.3	137.2	154.3	211.5	1486.0	2080.4	2897.7
72.5°	45.7	68.6	74.3	74.3	68.6	97.2	114.3	148.6	645.8	1011.6	1314.6
75°	34.3	45.7	51.4	45.7	40.0	62.9	80.0	97.2	422.9	605.8	765.9
77.5°	17.1	17.1	28.6	28.6	17.1	34.3	40.0	57.2	240.0	354.4	440.1
80°	5.7	0.0	0.0	5.7	0.0	11.4	17.1	28.6	125.7	188.6	274.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	62.9	57.2	142.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	34.3
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

REPORT NUMBER: P1501891
CATALOG NUMBER: GSS-SB4C-827-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	3497.9	*3497.9*	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9	3497.9
2.5°	3537.9	*3537.9*	3560.7	3595.0	3612.2	3623.6	3629.3	3640.7	3686.5	3675.0
5°	3686.5	*3697.9*	3715.0	3749.3	3789.4	3777.9	3777.9	3777.9	3806.5	3783.6
7.5°	3880.8	*3915.1*	3920.8	3960.8	3932.2	3875.1	3840.8	3789.4	3783.6	3783.6
10°	4195.1	*4183.7*	4183.7	4132.3	4029.4	3863.7	3715.0	3612.2	3555.0	3560.7
12.5°	4532.4	*4486.6*	4492.4	4303.7	4012.3	3646.5	3343.5	3120.6	3103.5	3086.3
15°	4949.6	*4829.6*	4806.7	4372.3	3755.1	3194.9	2897.7	2720.6	2663.4	2646.3
17.5°	5544.0	*5241.1*	5132.5	4252.3	3417.8	2914.9	2692.0	2612.0	2606.2	2600.5
20°	6172.7	*5572.6*	5366.8	4075.1	3303.5	2920.6	2754.9	2732.0	2720.6	2726.3
22.5°	6904.3	*5784.0*	5521.1	4103.7	3406.4	3109.2	2977.8	2960.6	2949.2	2960.6
25°	7658.7	*6029.8*	5704.0	4332.3	3715.0	3457.9	3303.5	3269.2	3303.5	3355.0
27.5°	8418.9	*6361.3*	6064.1	4783.8	4212.3	3932.2	3783.6	3909.4	3960.8	3966.5
30°	9093.3	*6824.3*	6549.9	5418.3	4778.1	4498.1	4526.6	4686.7	4749.5	4812.4
32.5°	9710.6	*7441.5*	7230.1	6138.4	5509.7	5344.0	5326.8	5446.8	5515.4	5475.4
35°	10333.6	*8247.4*	8041.7	6921.4	6407.0	6269.9	6127.0	6361.3	6338.4	6275.6
37.5°	10922.2	*9059.0*	8870.4	7761.6	7230.1	6990.0	6967.1	7178.6	7367.2	7355.8
40°	11345.2	*9716.3*	9487.7	8596.1	8093.1	7887.3	8007.4	8373.1	8327.4	8264.6
42.5°	11733.8	*10276.4*	10070.6	9327.6	8801.8	8893.3	9001.8	9247.6	9219.0	9156.2
45°	11916.7	*10756.5*	10579.3	9882.0	9624.8	9916.3	9910.6	10002.1	9847.7	9824.9
47.5°	12173.9	*11099.4*	10916.5	10379.3	10607.9	10727.9	10390.7	10293.5	10150.7	10036.3
50°	12648.3	*11631.0*	11448.1	11133.7	11328.0	10956.5	10545.0	10333.6	10042.1	9842.0
52.5°	13202.7	*12436.8*	12276.8	12151.1	11608.1	10842.2	10316.4	9933.5	9579.1	9407.6
55°	13900.0	*13625.7*	13511.3	12819.8	11356.6	10373.6	9756.3	9041.9	8556.0	8396.0
57.5°	14128.6	*15368.9*	15328.9	12928.4	10653.6	9522.0	8407.4	7441.5	6938.6	6835.7
60°	*13454.2*	*16734.9*	*16592.0*	*12745.5*	*9379.1*	*7727.3*	*6424.2*	*5435.4*	*4618.1*	*4498.1*
62.5°	12591.2	*15688.9*	15637.5	11825.3	7144.3	5538.3	4801.0	3875.1	3526.4	3435.0
65°	10785.1	*12836.9*	12859.8	9487.7	4520.9	3978.0	3943.7	3080.6	2652.0	2583.4
67.5°	8304.6	*9847.7*	9687.7	5966.9	2634.8	3183.5	3149.2	2251.9	1628.9	1583.2
70°	4852.4	*7332.9*	7075.7	3103.5	1743.2	2657.7	2423.4	1583.2	1108.8	1057.4
72.5°	2143.3	*4035.1*	4332.3	1366.0	1228.8	2114.7	1748.9	971.6	623.0	611.6
75°	1188.8	*2000.4*	2091.9	594.4	863.0	1503.2	1057.4	543.0	354.4	348.6
77.5°	714.4	*885.9*	863.0	382.9	645.8	960.2	640.1	308.6	222.9	211.5
80°	400.1	*405.8*	342.9	280.1	382.9	537.3	360.1	194.3	102.9	102.9
82.5°	245.8	*222.9*	177.2	85.7	102.9	325.8	131.5	108.6	34.3	34.3
85°	102.9	*68.6*	45.7	17.1	40.0	85.7	45.7	51.4	17.1	17.1
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: SP1-2407-184-8

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

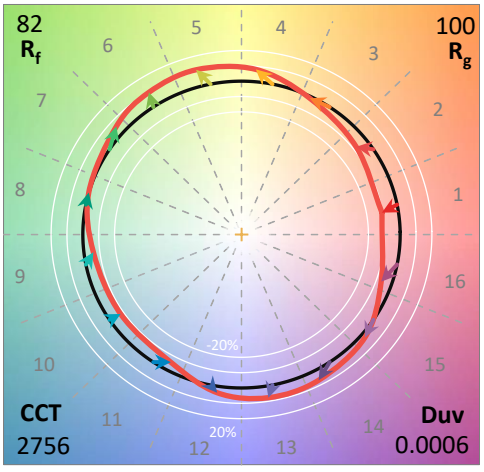
Test Information

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

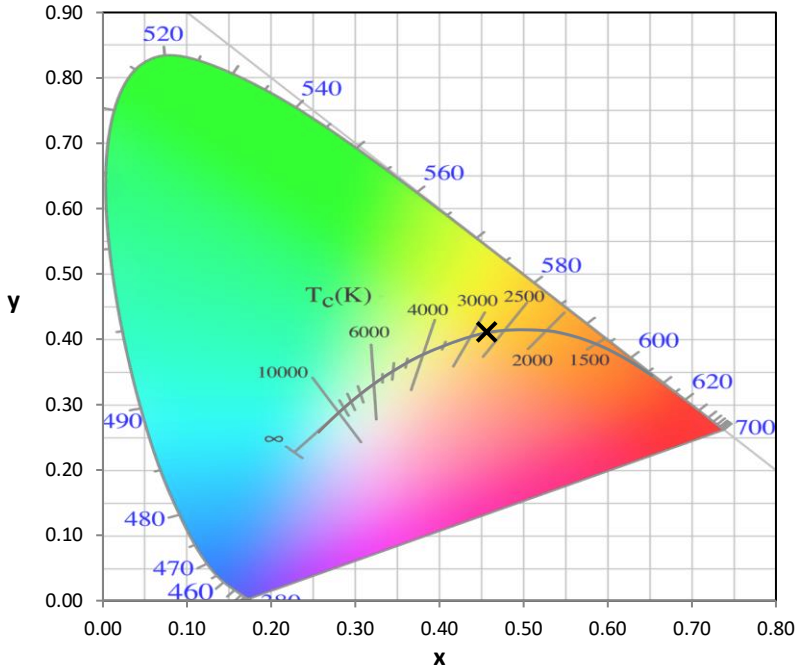
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.2

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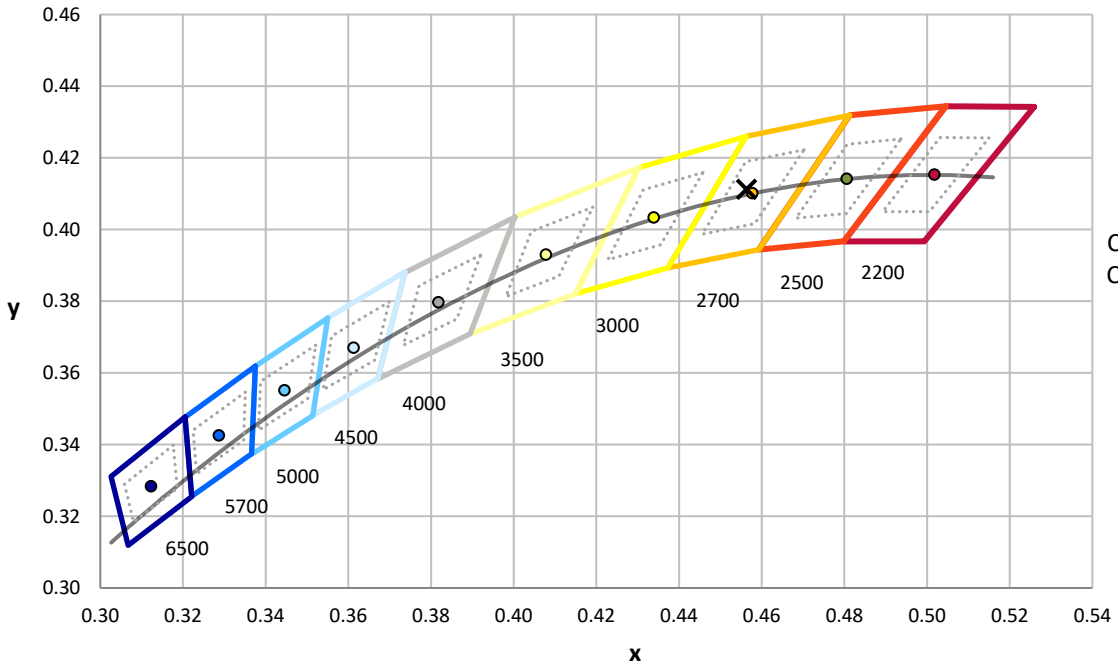
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



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

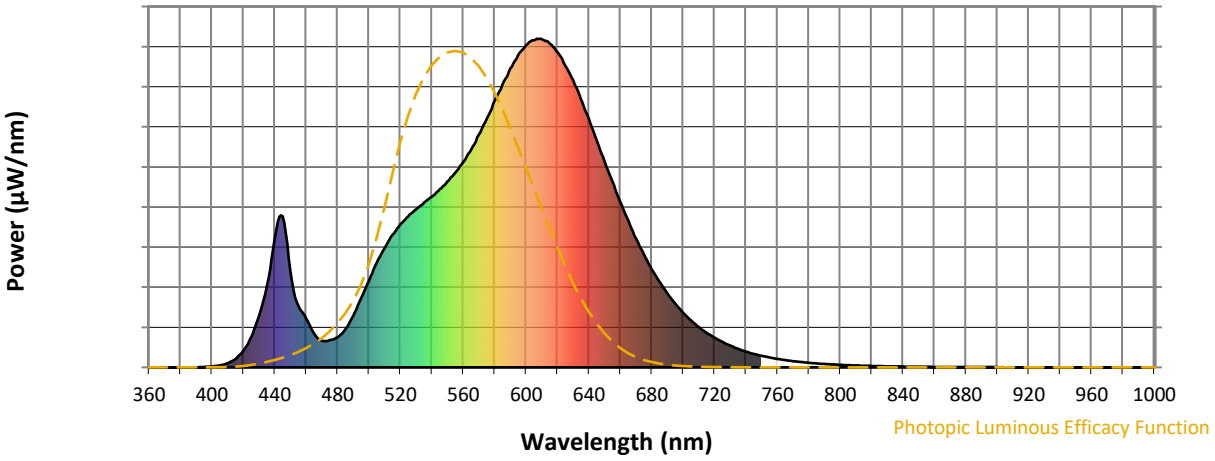


CCT = 2756K
CIE x = 0.4563
CIE y = 0.4112
Duv = 0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

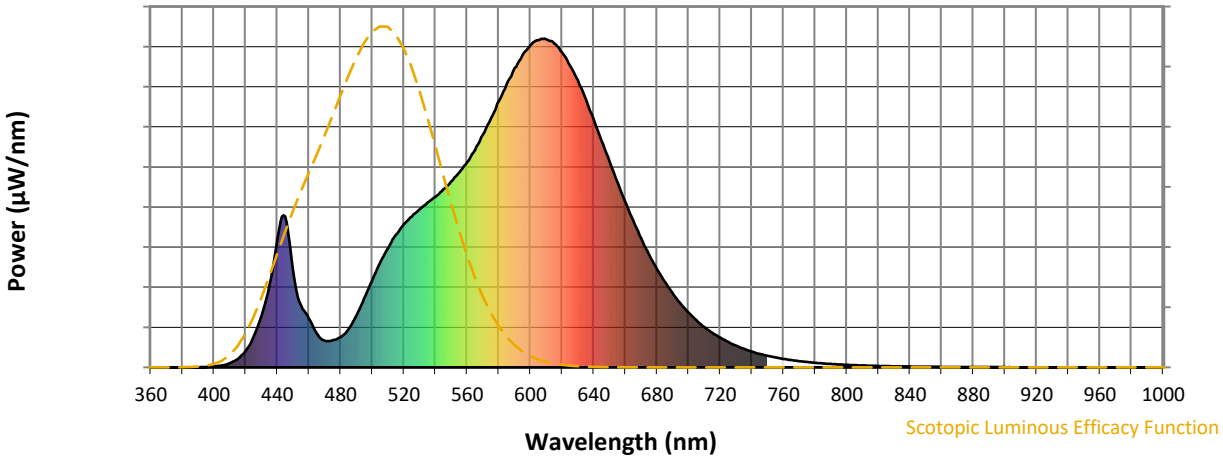


Photopic Lumens: NR

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			

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Scotopic Flux vs. Wavelength

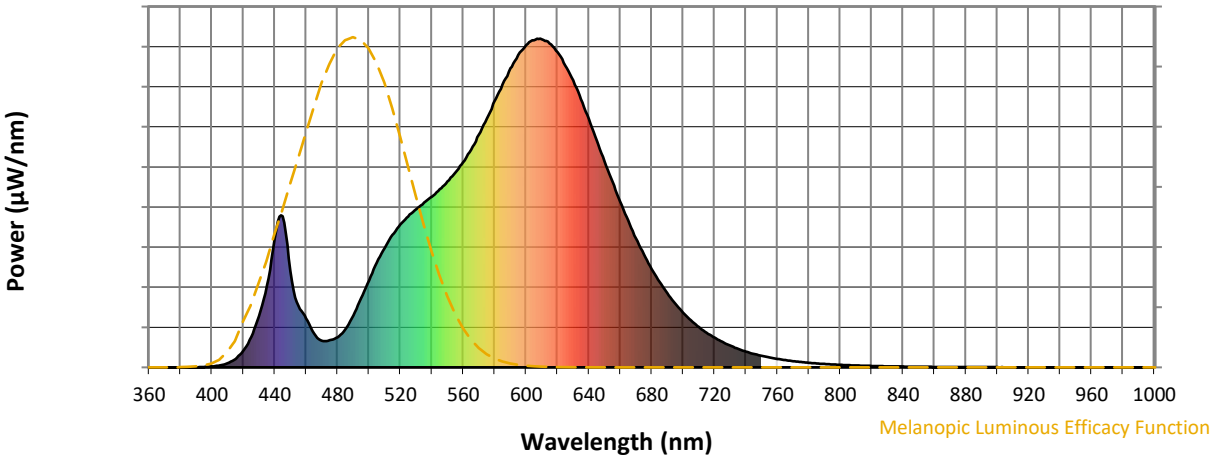


Scotopic Lumens: NR **S/P: 1.2**

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			

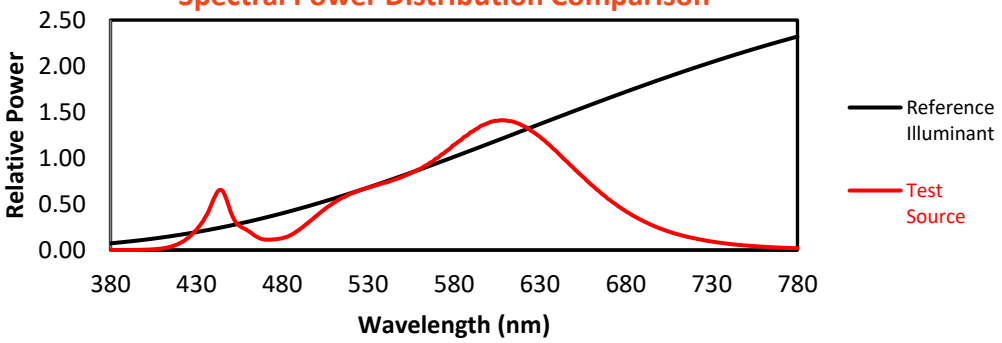
REPORT NUMBER: SP1-2407-184-8

TM-30-18

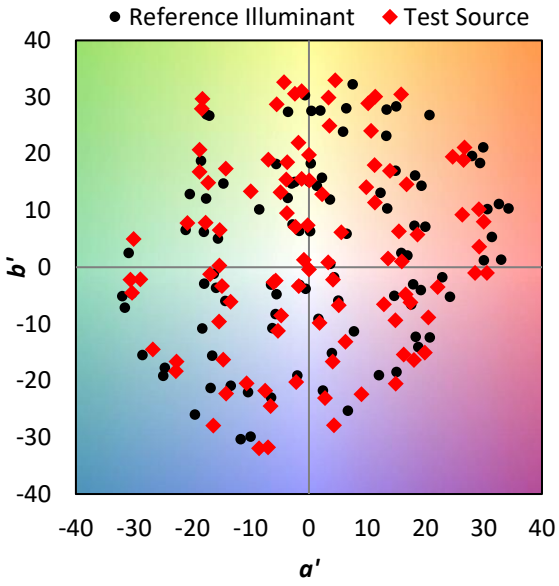
Summary

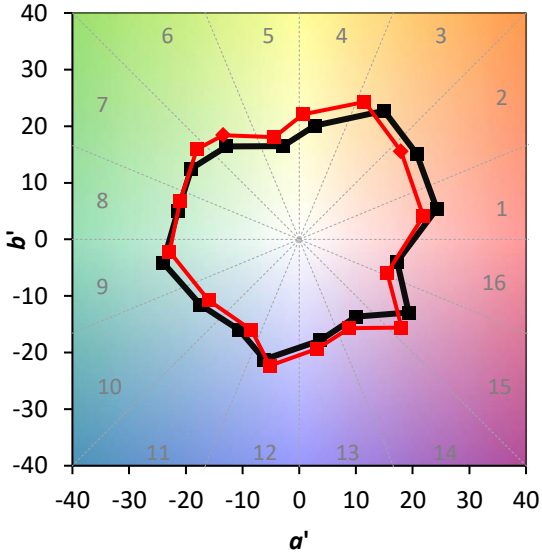
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R_g = 99.9
CIE R_a = 82.9
R_9 = 10.8

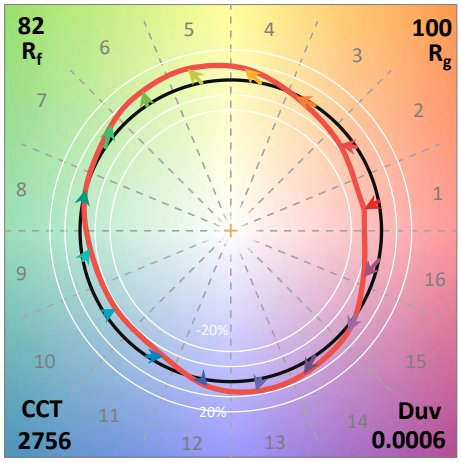
Spectral Power Distribution Comparison

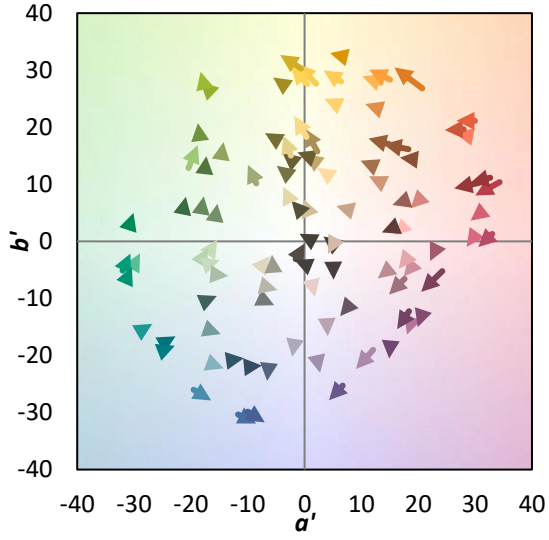


Color Vector Graphics







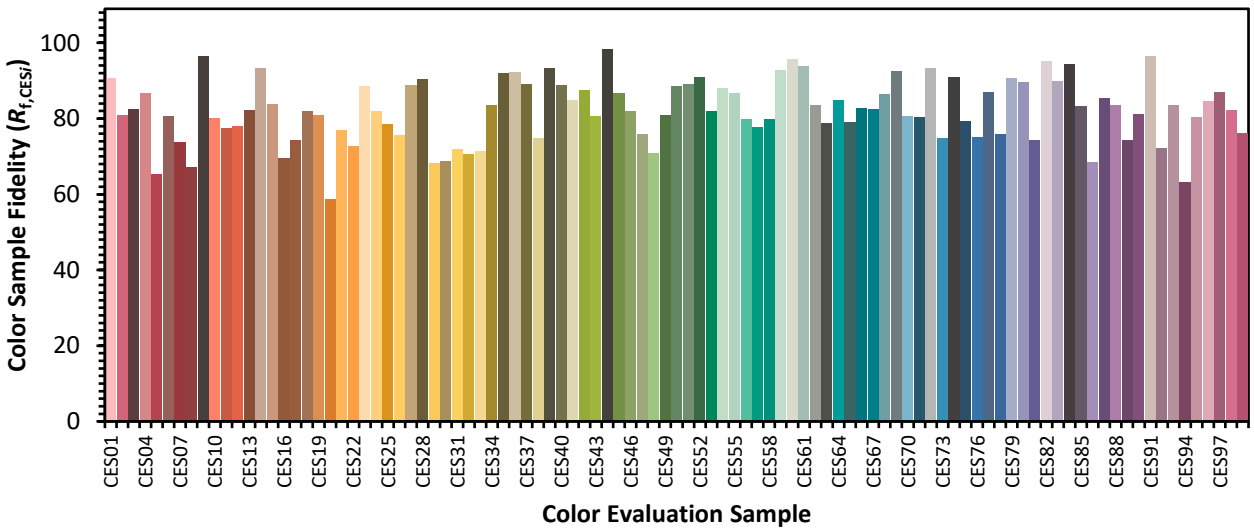


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Individual Sample Fidelity Index ($R_{f,i}$)

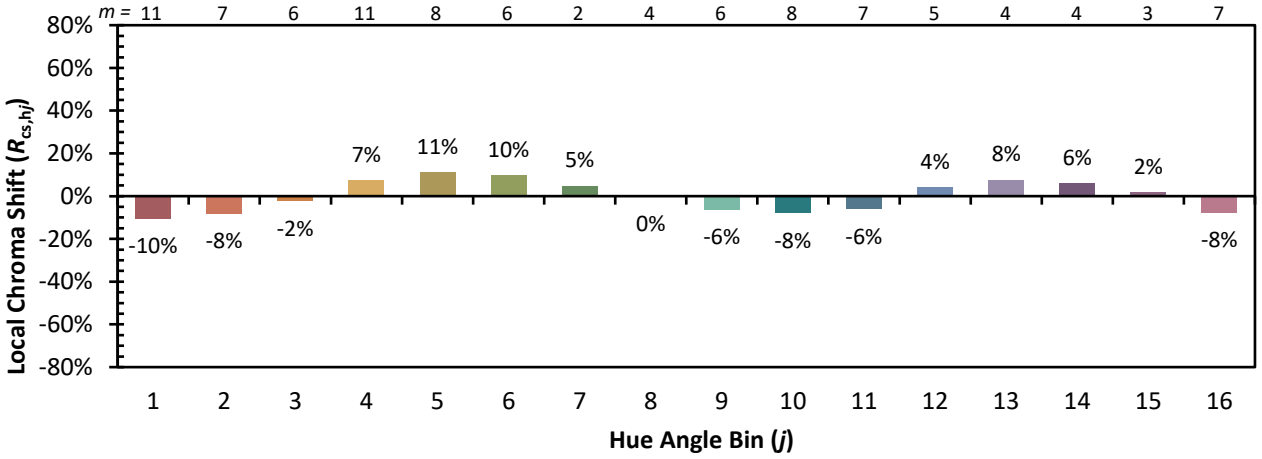
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CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 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
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CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	

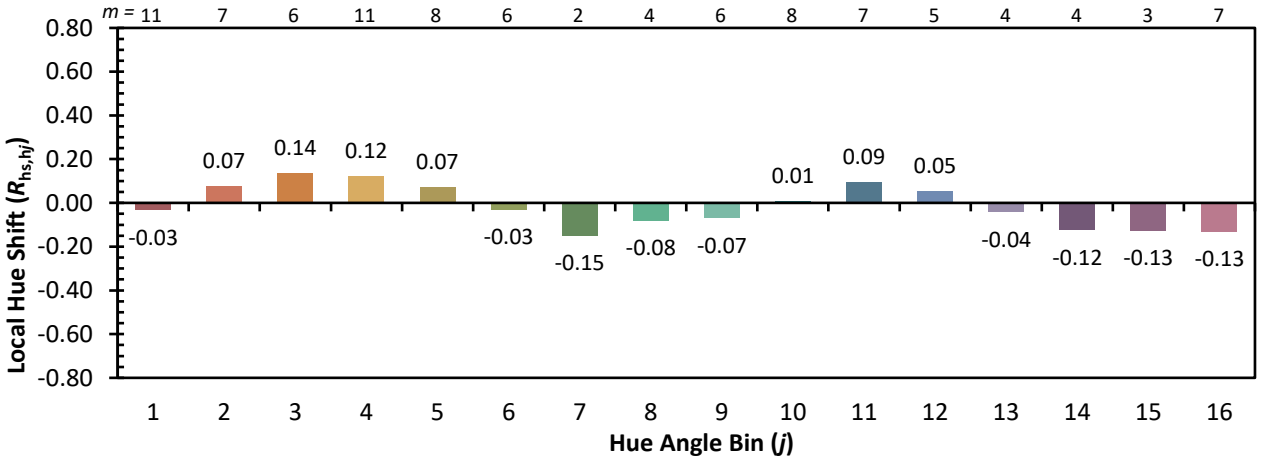


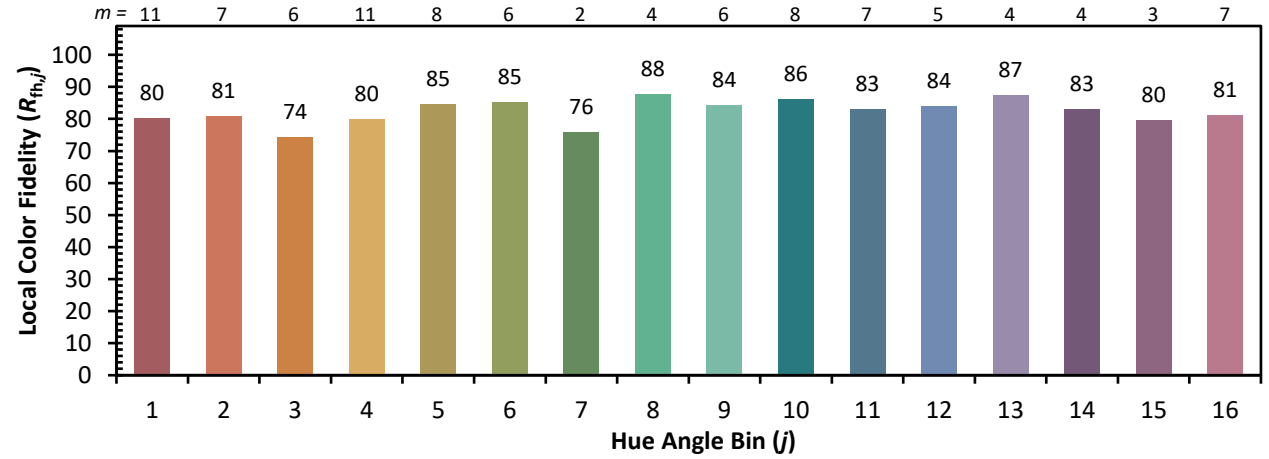
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Color Rendition by Hue-Angle Bin



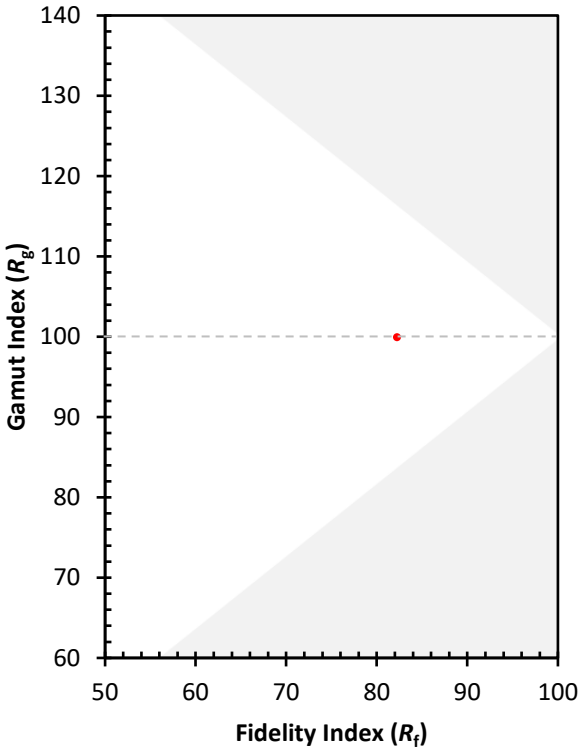


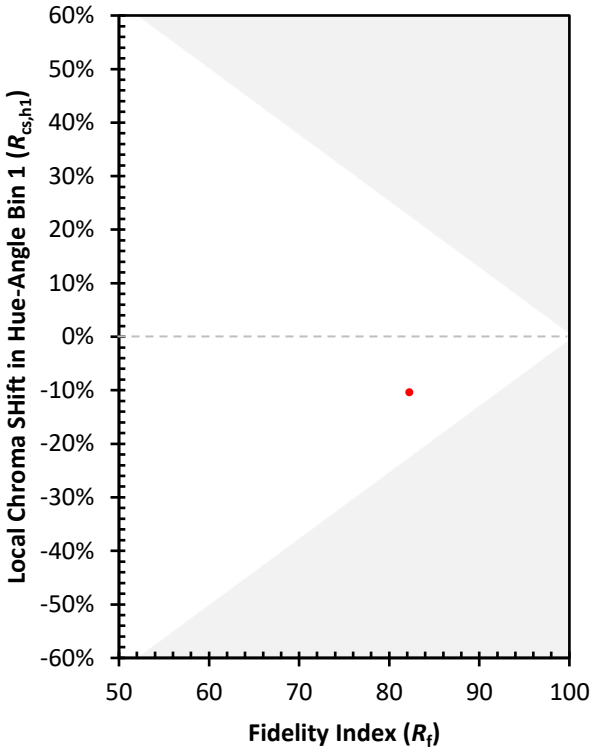


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Measure Comparisons





(END OF REPORT)