

Signify Classified - Internal
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: P324317

Luminaire Tested: **GLEON-SA3B-830-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10279 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

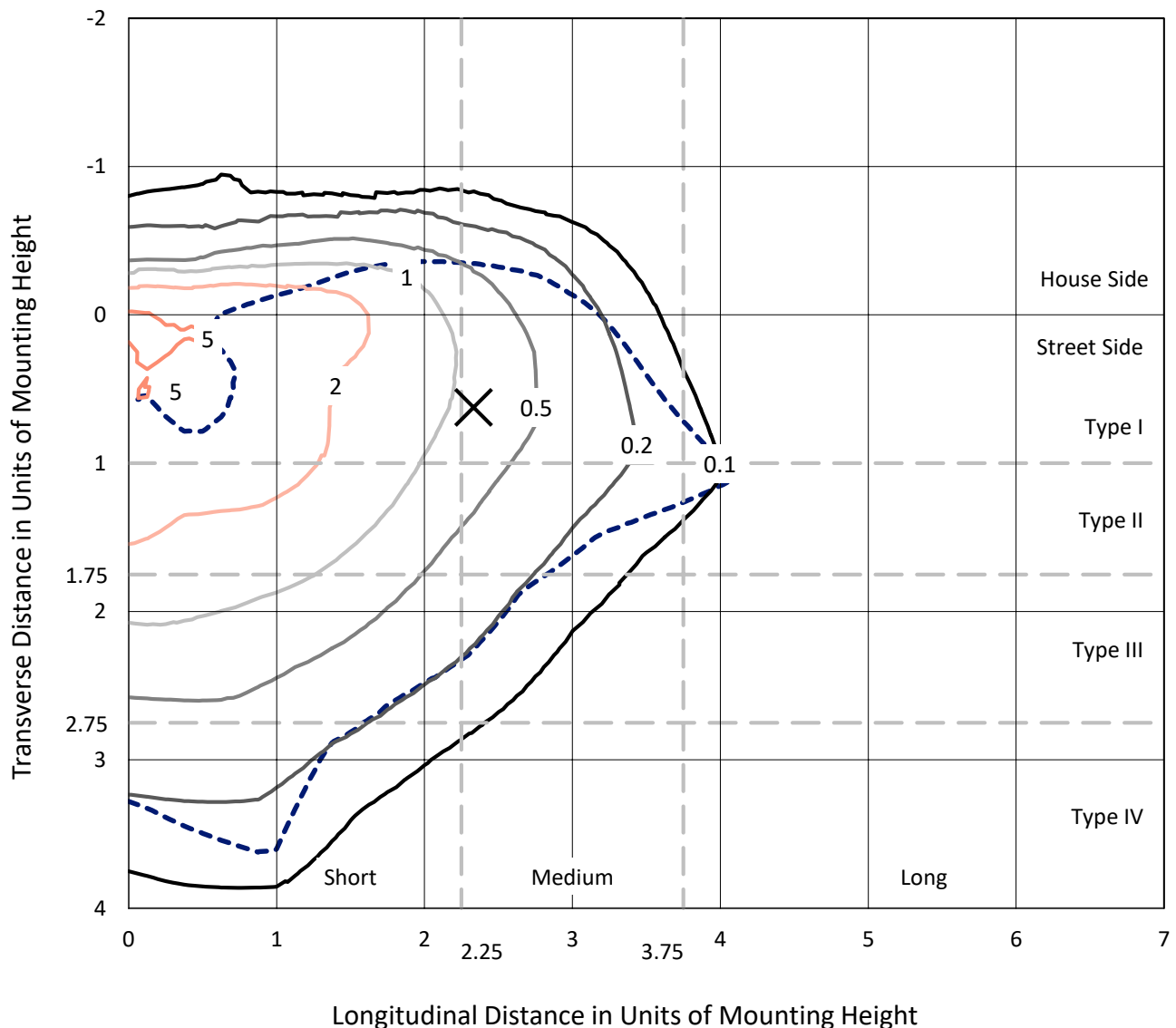
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

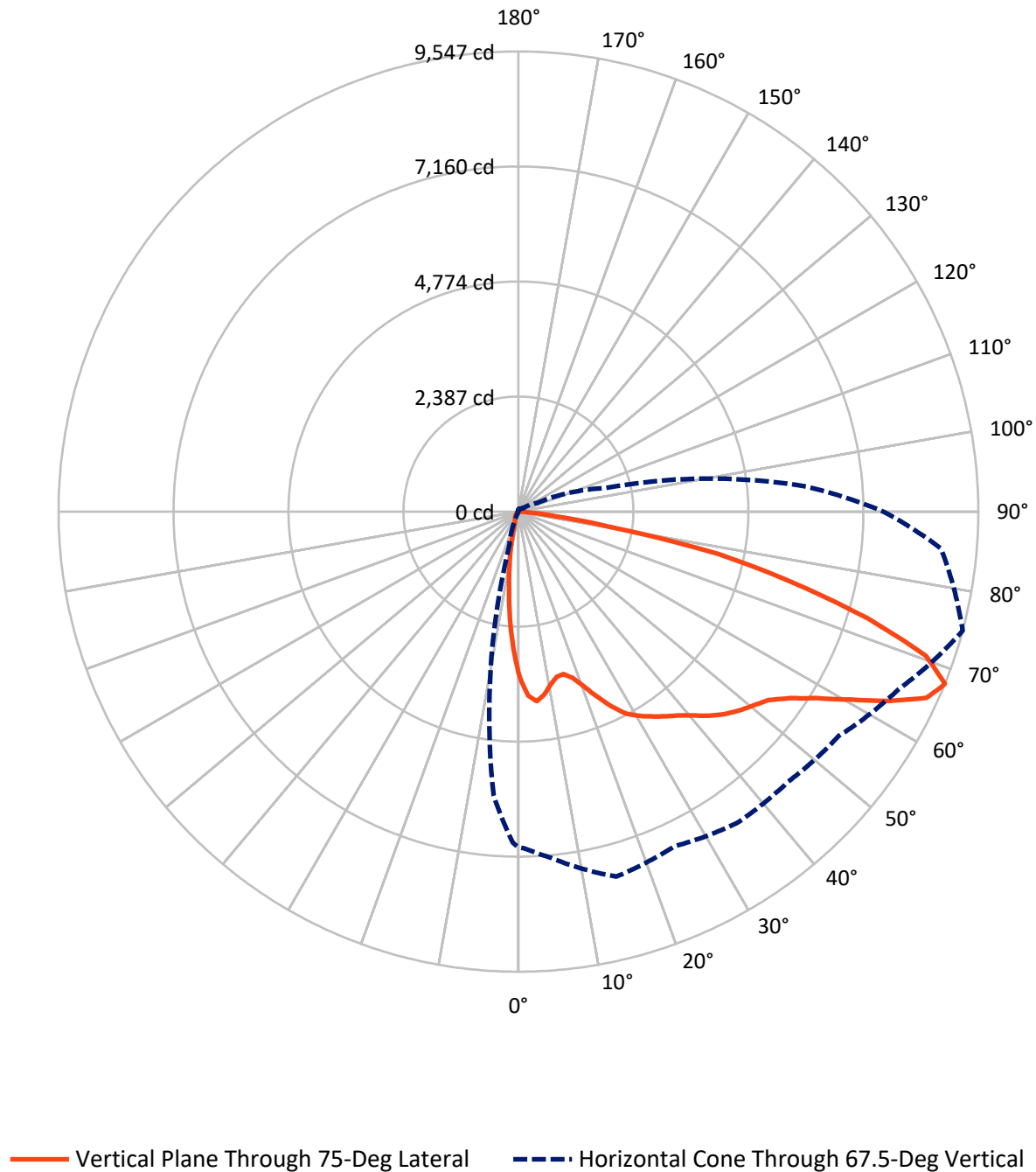
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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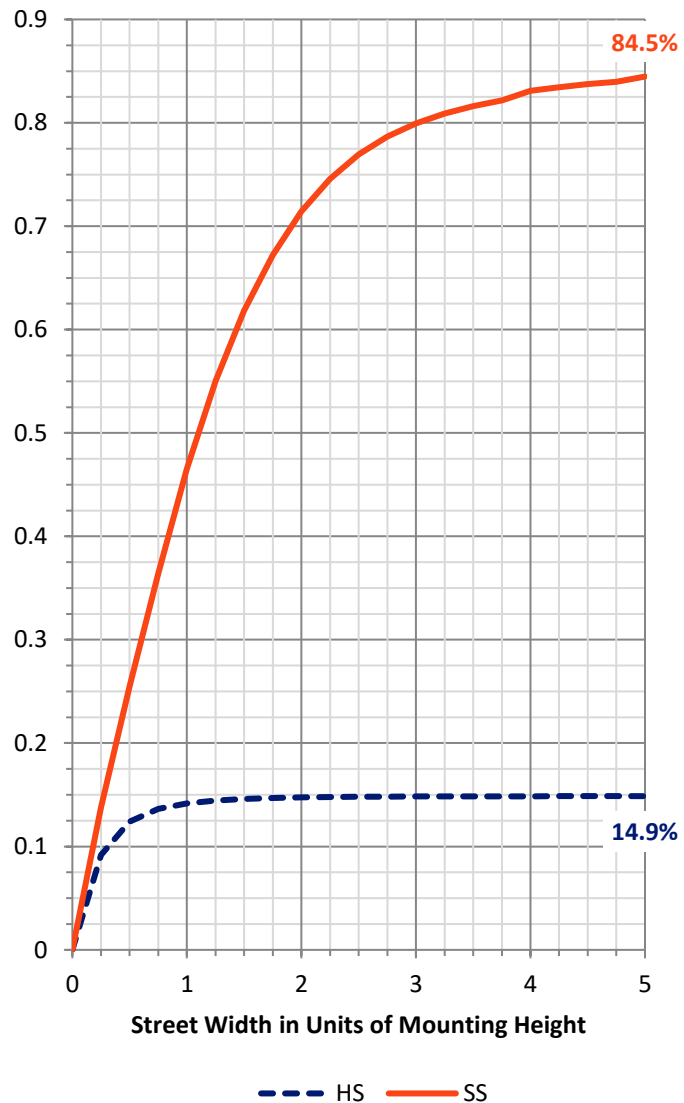
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1542.5	0.0	1542.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	8736.5	0.0	8736.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	10279.0	0.0	10279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.6	2.5
10°-20°	515.1	5.0
20°-30°	728.7	7.1
30°-40°	1071.3	10.4
40°-50°	1539.8	15.0
50°-60°	2167.7	21.1
60°-70°	2531.7	24.6
70°-80°	1291.6	12.6
80°-90°	171.6	1.7
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°	10279.0	100.0
0°-180°	10279.0	100.0

Coefficient of Utilization



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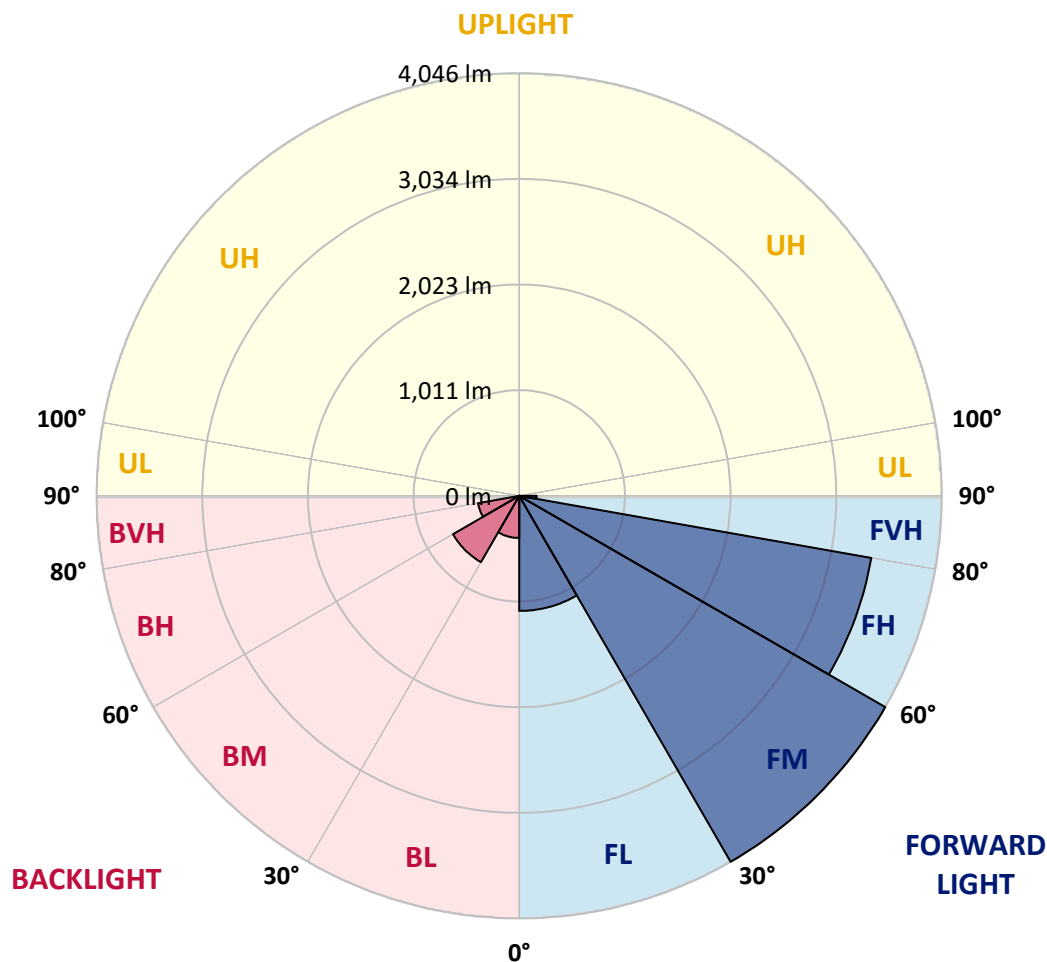
CATALOG NUMBER: GLEON-SA3B-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1101.9	10.7			
FM	(30°-60°)	4045.6	39.4			
FH	(60°-80°)	3422.6	33.3			G2/5000
FVH	(80°-90°)	166.4	1.6			G2/225
BL	(0°-30°)	403.4	3.9	B1/500		
BM	(30°-60°)	733.2	7.1	B1/1000		
BH	(60°-80°)	400.6	3.9	B1/500		G1/500
BVH	(80°-90°)	5.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4
2.5°	3738.2	3744.0	3774.2	3844.3	3920.7	3926.6	3978.2	3925.1	3907.1	3821.4	3732.8
5°	3766.4	3788.8	3892.5	4098.5	4277.2	4334.6	4375.5	4271.3	4161.8	3952.4	3728.9
7.5°	3539.0	3576.5	3739.6	4126.2	4445.7	4586.9	4613.6	4450.5	4182.2	3837.5	3501.5
10°	3247.8	3290.7	3487.4	3962.6	4401.3	4643.4	4680.4	4466.6	4080.9	3651.5	3255.6
12.5°	3012.1	3062.3	3263.4	3778.6	4248.9	4516.8	4589.8	4412.5	3993.3	3519.5	3087.6
15°	2903.6	2961.0	3172.3	3659.8	4080.0	4290.8	4351.2	4274.7	3944.6	3498.6	3048.7
17.5°	2965.9	3028.2	3246.4	3670.0	3921.2	4011.3	4060.0	4091.2	3944.6	3624.7	3162.6
20°	3221.5	3288.7	3519.5	3773.7	3789.8	3756.2	3808.3	3917.8	3990.4	3864.3	3436.3
22.5°	3575.0	3653.9	3914.4	3951.4	3725.5	3598.4	3605.2	3777.1	4073.6	4168.1	3816.1
25°	4006.0	4102.4	4367.3	4216.3	3752.3	3504.4	3502.0	3661.2	4155.0	4472.4	4239.2
27.5°	4434.0	4540.1	4772.9	4539.6	3862.8	3487.4	3482.5	3626.2	4234.3	4743.2	4701.3
30°	4792.8	4896.1	5096.7	4773.8	3982.1	3527.3	3503.9	3663.7	4281.6	4919.0	5038.3
32.5°	5085.0	5167.8	5329.9	4935.0	4109.7	3604.7	3554.1	3764.0	4361.9	5067.5	5347.9
35°	5406.4	5493.5	5558.3	5088.4	4252.8	3716.2	3643.7	3923.2	4485.6	5218.4	5687.3
37.5°	5773.0	5859.7	5851.9	5228.6	4434.5	3900.8	3854.5	4175.4	4677.9	5367.9	6066.2
40°	6131.9	6220.5	6157.2	5382.0	4647.7	4205.1	4171.0	4554.2	4935.5	5559.3	6510.2
42.5°	6467.9	6563.8	6428.4	5527.1	4901.9	4588.8	4647.2	5042.1	5257.9	5794.9	6893.0
45°	6738.6	6836.5	6655.8	5668.3	5169.7	5054.3	5230.1	5582.6	5645.5	5994.1	7151.5
47.5°	6935.3	7027.8	6813.6	5809.5	5512.5	5623.5	5929.8	6149.4	5995.6	6167.0	7335.1
50°	7061.0	7133.0	6859.9	5986.3	5962.4	6287.7	6658.7	6765.9	6325.2	6322.8	7558.1
52.5°	7140.8	7173.4	6893.9	6170.8	6431.8	7010.8	7372.6	7406.2	6664.6	6494.2	7858.5
55°	7415.9	7442.2	7135.5	6394.3	6819.9	7644.3	8018.3	7987.1	7048.8	6829.7	8213.0
57.5°	7885.3	7913.1	7634.6	6715.7	7134.0	8035.8	8486.2	8542.2	7499.2	7301.0	8592.8
60°	8121.0	8172.6	8073.3	7122.8	7438.3	8286.1	8805.1	8983.8	8062.1	7922.3	8960.9
62.5°	7907.2	7982.2	8126.4	7574.2	7740.7	8423.9	8904.5	9142.1	8638.6	8646.4	9187.9
65°	7480.7	7540.6	7785.0	7821.5	7916.0	8406.8	8659.1	8921.0	8991.6	9311.5	9175.7
67.5°	6965.5	6987.9	7195.3	7841.0	7661.8	7894.6	7921.8	8115.6	8712.6	9547.2	8807.1
70°	6223.9	6236.1	6417.2	7189.0	6584.2	6635.4	6595.0	6634.4	7490.4	8973.1	7876.6
72.5°	5009.0	5039.7	5297.3	5970.2	4796.7	4649.2	4966.7	4949.1	5768.6	7581.0	5850.0
75°	3688.0	3741.1	4130.1	4808.9	3366.6	3045.3	3277.0	3338.9	4100.9	5864.1	3658.3
77.5°	2582.2	2621.6	2998.5	3535.1	2436.6	2177.5	2093.8	2167.3	2706.8	4242.1	1843.0
80°	1487.6	1502.2	1742.7	2041.2	1641.9	1878.6	1701.8	1752.5	1622.0	1887.3	792.7
82.5°	973.4	975.8	1069.8	1214.9	1022.6	1188.1	879.4	1124.3	997.7	758.1	258.1
85°	525.9	528.8	620.3	862.4	579.0	327.2	192.3	394.9	616.9	173.8	70.6
87.5°	57.9	53.1	187.0	313.6	160.7	29.7	10.2	44.3	98.8	11.2	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4
2.5°	3687.5	3647.1	3546.3	3439.7	3354.0	3273.6	3192.8	3093.9	3017.5	3001.9	2976.6
5°	3608.6	3480.6	3269.2	3056.9	2886.0	2670.3	2533.5	2426.9	2322.6	2316.3	2295.4
7.5°	3333.0	3164.5	2867.0	2573.4	2332.9	2127.4	1920.0	1781.2	1672.1	1633.6	1610.8
10°	3068.1	2878.7	2507.2	2172.2	1957.5	1775.8	1629.8	1484.6	1353.2	1262.6	1221.7
12.5°	2883.1	2673.7	2264.2	1975.5	1821.6	1649.2	1471.0	1289.9	1138.4	1029.4	962.7
15°	2811.5	2588.0	2182.9	1897.6	1707.7	1489.5	1261.6	1054.7	886.7	787.9	728.0
17.5°	2896.7	2636.7	2176.6	1802.6	1537.2	1266.0	1014.3	769.8	611.6	536.6	498.1
20°	3112.9	2791.6	2174.1	1686.2	1334.7	1001.1	687.1	506.4	410.5	368.6	350.6
22.5°	3418.7	2989.3	2193.6	1571.3	1123.8	715.3	474.3	372.0	322.8	300.4	290.2
25°	3812.2	3266.8	2248.6	1467.1	925.7	533.7	369.6	311.6	277.1	259.5	252.2
27.5°	4231.4	3586.2	2334.3	1376.5	764.5	425.6	316.5	266.8	242.0	229.8	223.0
30°	4577.1	3956.3	2421.0	1275.8	647.6	371.0	289.7	243.5	214.7	206.9	200.6
32.5°	4879.5	4236.3	2482.4	1184.7	571.2	329.7	262.0	217.7	198.2	183.1	176.3
35°	5192.6	4469.5	2480.4	1120.9	518.6	298.5	238.6	194.8	171.4	153.9	148.5
37.5°	5531.5	4732.9	2438.1	1066.4	495.7	273.7	225.4	182.6	159.2	141.7	134.9
40°	5928.4	5009.5	2394.7	1015.2	489.4	253.7	216.2	172.9	148.0	131.0	124.2
42.5°	6315.0	5258.8	2356.7	977.3	462.1	253.2	207.9	165.6	139.3	122.7	114.9
45°	6624.2	5491.1	2349.4	954.4	433.4	262.0	203.5	160.7	132.4	115.9	108.6
47.5°	6881.3	5743.3	2396.2	938.3	406.1	239.1	214.2	157.3	126.1	110.0	101.8
50°	7187.1	6053.0	2506.2	912.0	377.4	215.2	245.4	158.3	120.8	104.2	95.4
52.5°	7613.6	6481.5	2667.9	867.7	337.9	193.3	241.5	159.2	114.9	97.9	89.1
55°	8091.8	7016.6	2841.7	794.2	282.9	164.6	206.9	152.4	103.7	91.1	82.8
57.5°	8594.3	7502.1	2944.9	706.5	225.0	142.2	165.6	138.8	91.5	81.8	76.4
60°	8673.2	7686.7	2897.7	598.9	178.7	123.7	122.7	141.2	81.8	72.1	68.2
62.5°	8476.9	7454.9	2669.3	503.0	149.5	108.6	100.8	123.2	74.0	64.3	60.4
65°	8099.6	6828.2	2299.3	453.3	138.8	93.0	83.8	86.7	64.8	56.0	52.6
67.5°	7574.7	5991.7	1887.8	425.1	137.3	79.9	71.6	65.7	56.0	48.7	45.8
70°	6501.5	4991.5	1506.1	409.5	133.4	67.2	60.4	53.6	46.7	41.4	39.0
72.5°	4785.0	3537.0	1171.6	392.5	134.4	53.6	52.6	44.3	37.5	32.1	31.2
75°	2764.8	2020.8	768.4	318.0	128.1	41.4	43.8	31.2	26.3	22.4	22.4
77.5°	1473.4	1232.4	292.6	132.4	46.7	26.3	24.8	18.5	16.6	13.6	13.1
80°	642.3	542.4	88.1	37.0	25.8	14.1	9.3	8.3	7.3	5.8	5.4
82.5°	227.4	196.2	28.7	18.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	51.6	37.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4
2.5°	2925.0	2914.3	2851.0	2853.4	2864.6	2880.7	2842.7	2860.2	2907.5	2952.7	2969.8
5°	2261.8	2264.2	2225.8	2249.6	2271.0	2285.6	2224.3	2225.3	2262.8	2313.9	2340.7
7.5°	1593.7	1589.8	1591.8	1648.7	1689.2	1659.9	1682.8	1603.5	1608.3	1644.8	1617.6
10°	1184.7	1131.1	1100.9	1143.8	1188.1	1172.0	1132.6	1106.8	1124.8	1165.2	1162.3
12.5°	931.0	854.1	808.8	778.1	814.6	784.4	783.5	761.1	736.7	741.1	805.9
15°	700.2	644.2	590.6	541.5	540.5	530.3	478.2	419.7	414.9	417.8	451.4
17.5°	481.6	462.6	440.7	398.3	387.1	344.3	293.6	270.2	258.6	263.9	275.1
20°	338.4	331.1	333.5	310.7	294.6	253.7	224.0	214.7	212.8	218.1	223.5
22.5°	280.5	267.3	265.9	255.6	239.6	209.9	193.8	188.4	186.0	190.9	194.8
25°	245.4	232.3	226.9	220.6	203.5	183.1	173.3	168.5	166.0	169.0	171.4
27.5°	216.2	204.0	199.2	194.8	178.2	163.6	155.8	151.4	149.5	150.5	152.9
30°	194.3	183.6	177.2	171.9	157.8	147.5	140.7	136.3	134.4	134.4	136.8
32.5°	171.4	165.6	159.7	152.9	139.7	132.9	126.1	121.2	119.3	119.8	121.7
35°	142.7	140.7	142.2	135.9	124.7	118.8	112.0	106.6	105.2	105.7	107.6
37.5°	126.6	117.8	123.2	119.8	113.5	105.7	96.9	92.0	89.6	91.1	92.0
40°	116.4	105.7	101.8	105.2	104.2	91.5	83.8	78.9	76.9	77.4	78.4
42.5°	107.6	95.0	86.2	85.7	91.5	79.9	71.6	67.2	64.8	64.8	65.7
45°	99.3	85.7	75.0	66.7	76.9	67.7	59.9	56.0	53.1	53.1	53.6
47.5°	93.0	77.9	65.2	54.5	57.9	55.5	49.2	45.3	42.4	42.4	42.8
50°	87.2	70.1	56.5	45.8	43.3	45.8	39.9	35.5	33.6	33.1	34.1
52.5°	80.8	62.3	48.2	39.0	34.1	34.6	31.2	28.2	25.8	25.8	26.8
55°	74.5	56.0	41.9	33.1	28.2	25.8	24.8	22.9	20.9	20.9	21.9
57.5°	68.2	49.2	35.5	27.3	22.4	20.5	20.5	19.0	17.5	17.5	18.5
60°	62.3	42.4	29.2	22.4	17.5	17.0	17.5	16.1	15.1	15.1	16.1
62.5°	55.5	36.0	23.9	18.5	14.1	13.6	15.1	14.1	13.1	13.1	14.1
65°	47.2	30.7	19.0	14.1	10.7	10.7	12.7	11.7	10.7	10.7	11.7
67.5°	39.9	25.8	14.6	10.2	7.8	8.3	10.7	9.7	9.3	9.3	10.2
70°	33.1	20.0	10.2	6.3	4.4	6.3	8.3	8.3	8.3	8.3	9.3
72.5°	24.8	13.6	5.8	2.4	1.9	4.4	6.8	7.8	7.3	7.3	8.8
75°	16.1	7.8	1.9	0.0	0.0	2.4	5.4	6.3	6.3	5.8	7.3
77.5°	9.3	2.4	0.0	0.0	0.0	0.0	3.4	2.9	2.4	1.9	3.4
80°	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

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CATALOG NUMBER: GLEON-SA3B-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4
2.5°	3038.4	3095.9	3176.7	3262.4	3394.4	3499.1	3601.8	3689.9	3724.0	3738.2
5°	2404.9	2489.2	2607.5	2759.4	2997.5	3211.8	3429.0	3647.6	3742.5	3766.4
7.5°	1725.7	1833.3	1983.7	2174.1	2453.1	2730.7	3034.1	3354.9	3502.0	3539.0
10°	1277.2	1408.7	1581.1	1781.7	2048.0	2333.4	2664.0	3030.6	3198.6	3247.8
12.5°	906.2	1083.9	1314.7	1558.7	1789.5	2044.1	2378.6	2782.8	2959.1	3012.1
15°	532.2	704.1	977.3	1304.0	1599.6	1857.6	2197.5	2655.7	2850.0	2903.6
17.5°	305.3	391.0	597.5	961.7	1362.9	1720.3	2140.5	2687.4	2916.2	2965.9
20°	233.2	260.5	344.3	619.4	1086.3	1585.4	2140.5	2866.5	3148.5	3221.5
22.5°	204.0	224.0	258.1	369.6	799.5	1440.8	2165.4	3125.6	3494.2	3575.0
25°	181.1	199.2	228.4	278.0	545.4	1268.9	2224.3	3443.6	3901.3	4006.0
27.5°	162.1	179.2	205.5	243.5	373.0	1061.5	2303.7	3816.5	4350.2	4434.0
30°	145.1	161.2	185.0	211.8	287.8	826.3	2371.3	4168.1	4702.8	4792.8
32.5°	129.0	143.6	165.1	185.0	235.7	611.1	2378.6	4446.6	4995.4	5085.0
35°	113.9	127.1	146.6	162.1	195.3	482.5	2265.2	4688.1	5288.0	5406.4
37.5°	99.3	112.0	129.0	140.7	171.9	393.4	2091.8	4957.4	5663.5	5773.0
40°	85.7	96.9	114.4	122.2	162.6	302.4	1903.4	5239.8	6031.6	6131.9
42.5°	73.0	83.8	100.8	115.9	142.7	225.9	1699.9	5504.7	6362.7	6467.9
45°	60.9	72.1	89.1	122.7	118.3	169.0	1482.2	5680.5	6624.2	6738.6
47.5°	49.2	61.8	85.2	116.9	94.5	124.2	1309.8	5847.0	6822.4	6935.3
50°	39.4	52.1	95.9	104.2	77.4	95.0	1237.8	5996.0	6952.4	7061.0
52.5°	32.1	43.8	90.6	79.9	64.8	78.4	1276.7	6237.6	7072.6	7140.8
55°	26.8	34.6	54.5	55.5	55.0	66.7	1324.9	6584.2	7383.8	7415.9
57.5°	23.4	27.8	38.0	42.8	46.3	59.4	1325.9	7081.9	7865.4	7885.3
60°	20.0	24.3	31.7	34.6	39.9	53.1	1277.7	7255.7	8054.8	8121.0
62.5°	17.5	21.4	26.3	28.7	33.6	47.7	1164.7	7004.0	7794.8	7907.2
65°	15.6	19.5	21.9	24.3	29.7	42.8	978.7	6500.5	7363.3	7480.7
67.5°	13.6	17.0	19.5	21.9	26.8	38.0	720.7	5915.7	6868.1	6965.5
70°	12.2	15.1	17.5	19.5	23.4	32.1	437.3	5019.7	6183.5	6223.9
72.5°	11.7	13.6	16.1	17.5	20.5	28.2	221.6	3689.0	4943.3	5009.0
75°	10.2	12.2	14.6	15.6	18.0	24.3	90.1	2423.0	3582.3	3688.0
77.5°	8.3	11.2	13.1	14.1	15.6	20.0	45.8	1548.4	2514.0	2582.2
80°	2.9	8.3	11.2	11.7	13.1	14.6	30.2	847.7	1458.4	1487.6
82.5°	0.0	5.4	8.8	8.3	9.3	11.2	19.5	403.2	962.7	973.4
85°	0.0	2.4	6.8	5.4	3.9	7.8	6.8	88.1	504.9	525.9
87.5°	0.0	0.0	0.5	2.4	1.9	2.9	1.0	0.5	45.8	57.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

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

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

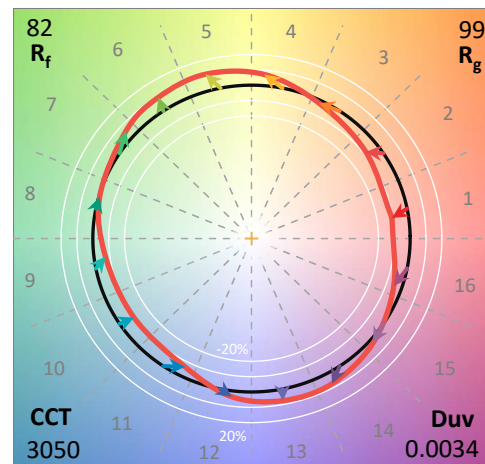
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

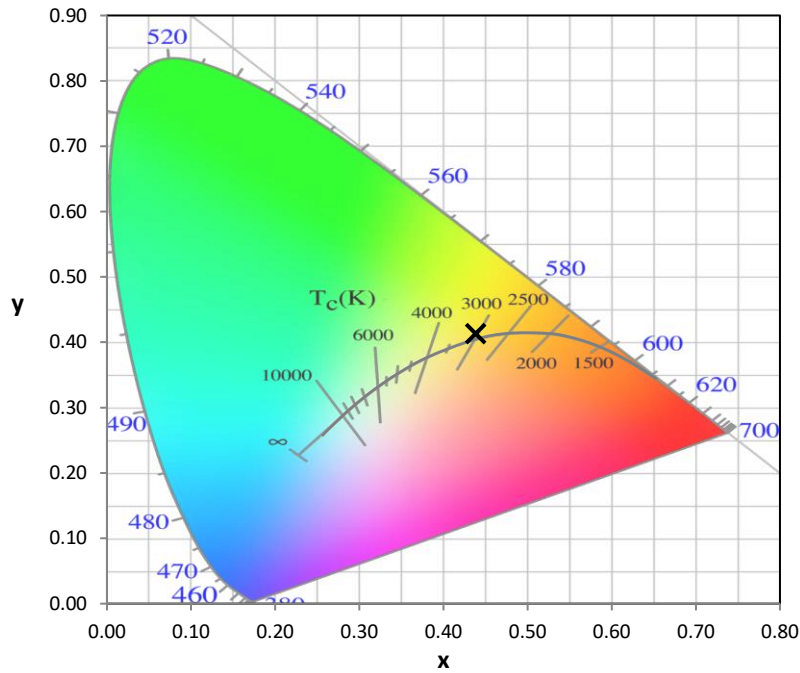
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

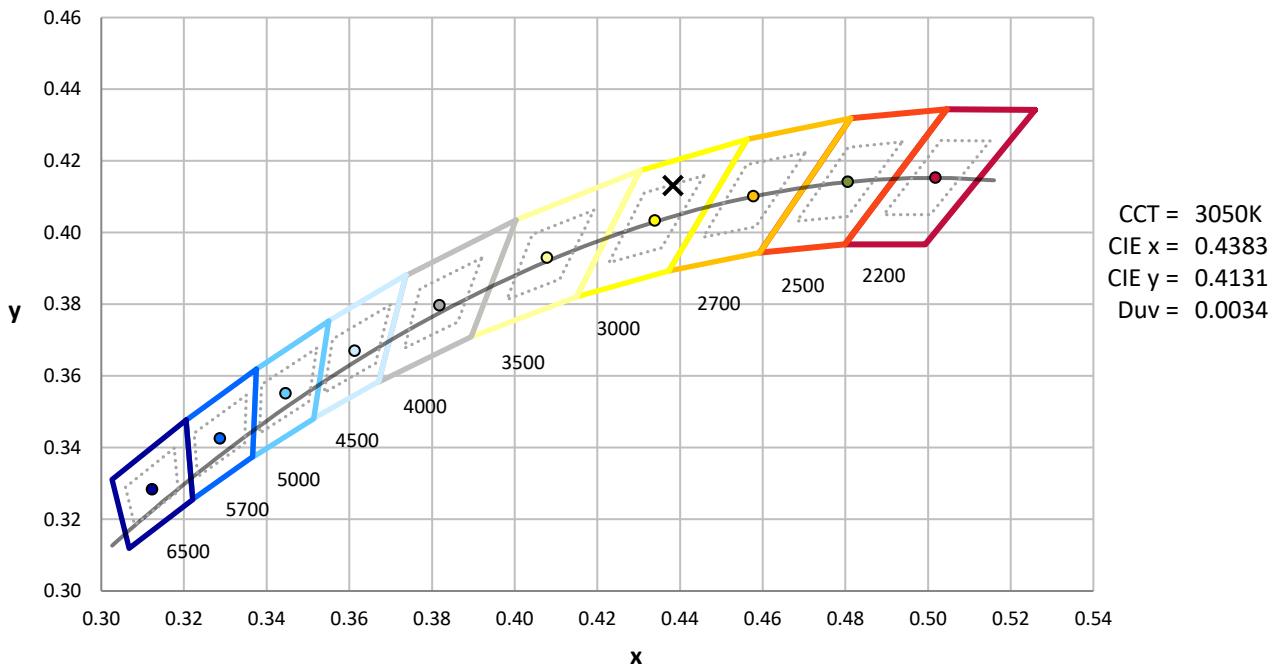
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



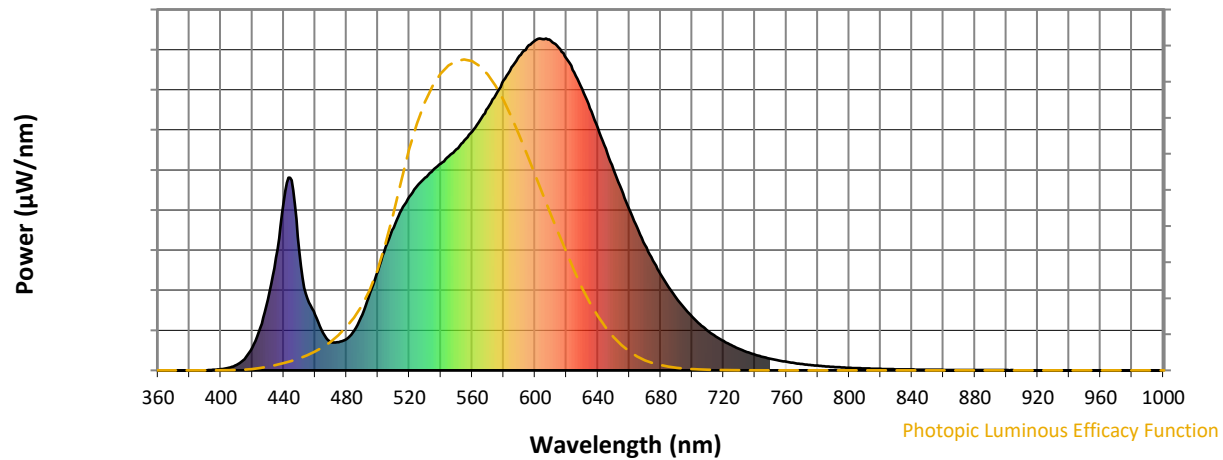
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

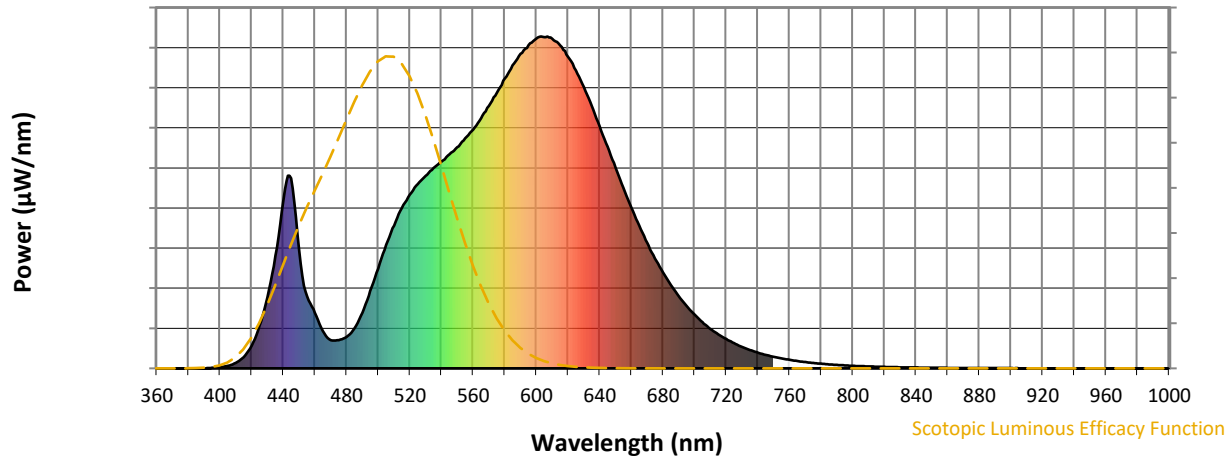


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



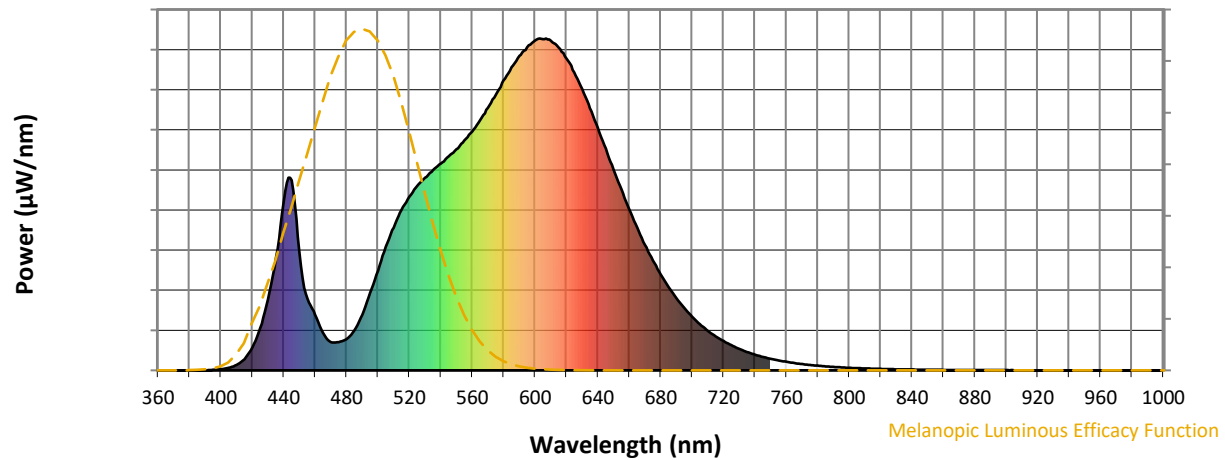
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

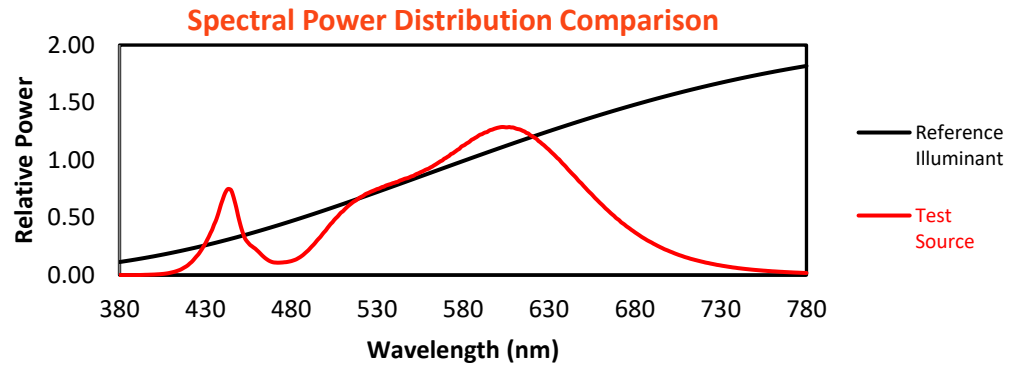
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

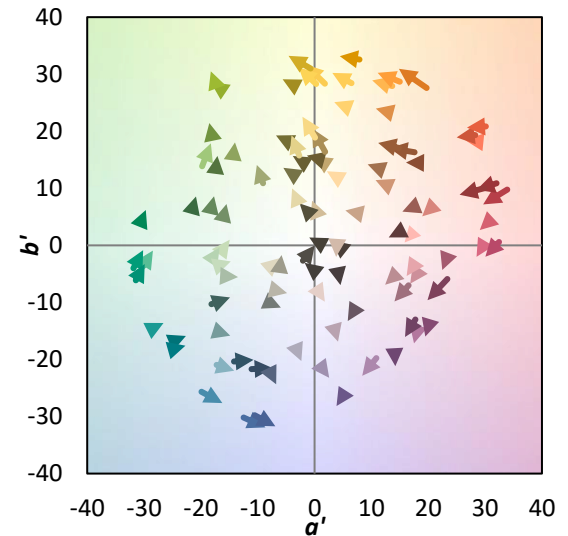
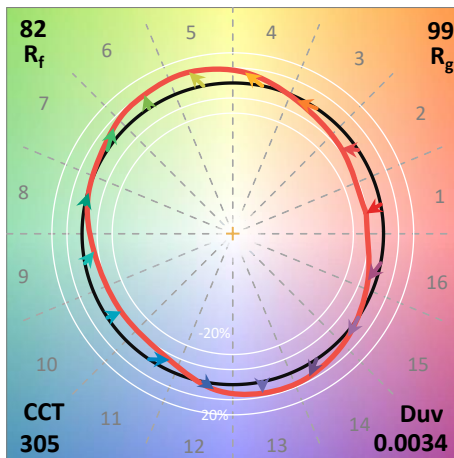
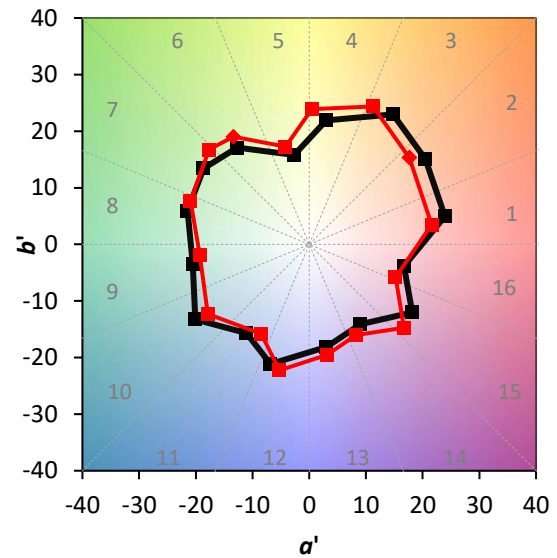
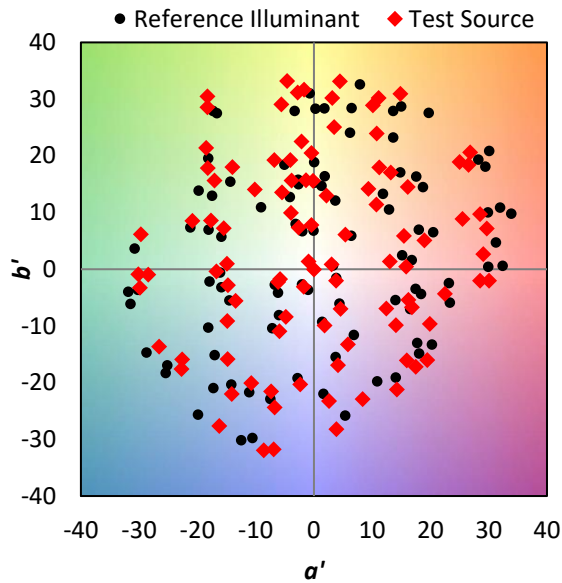
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$

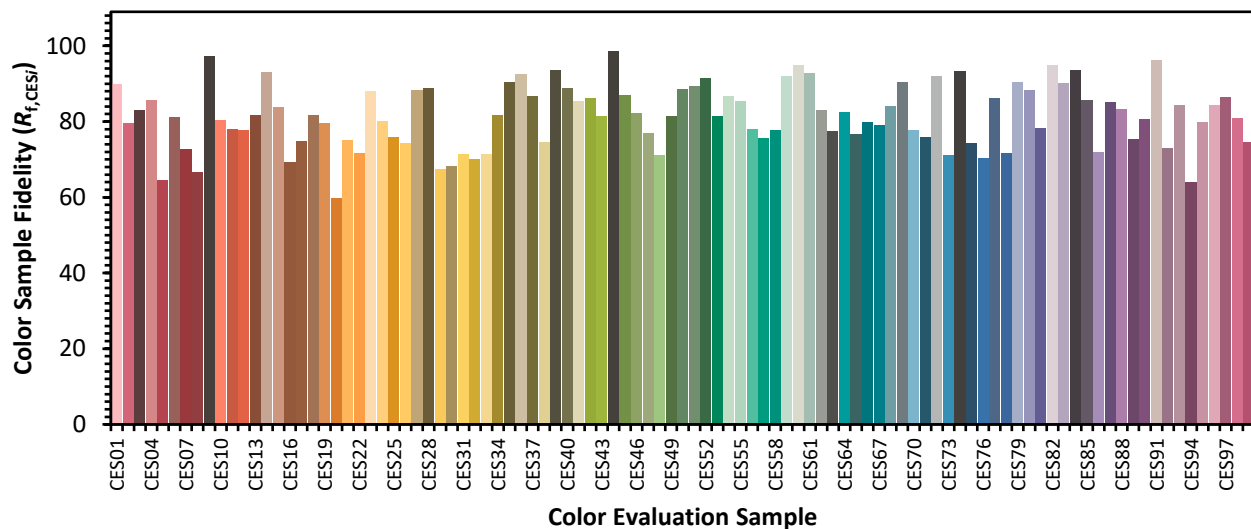


Color Vector Graphics

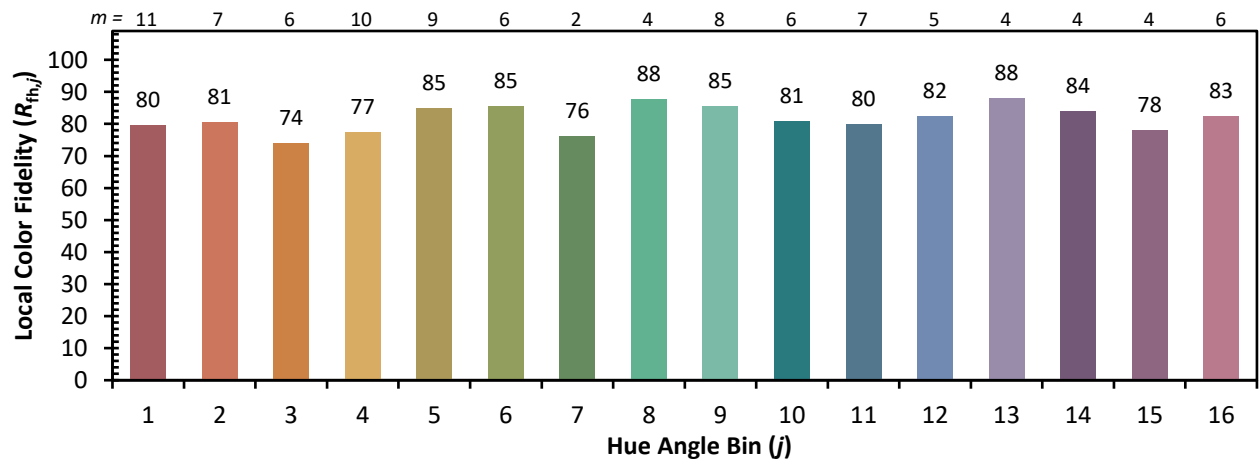
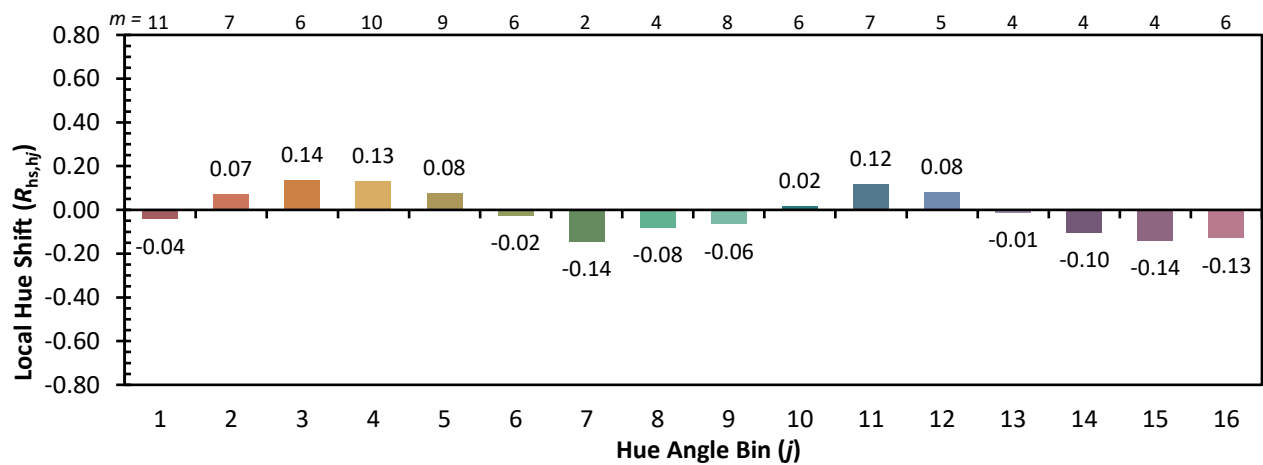
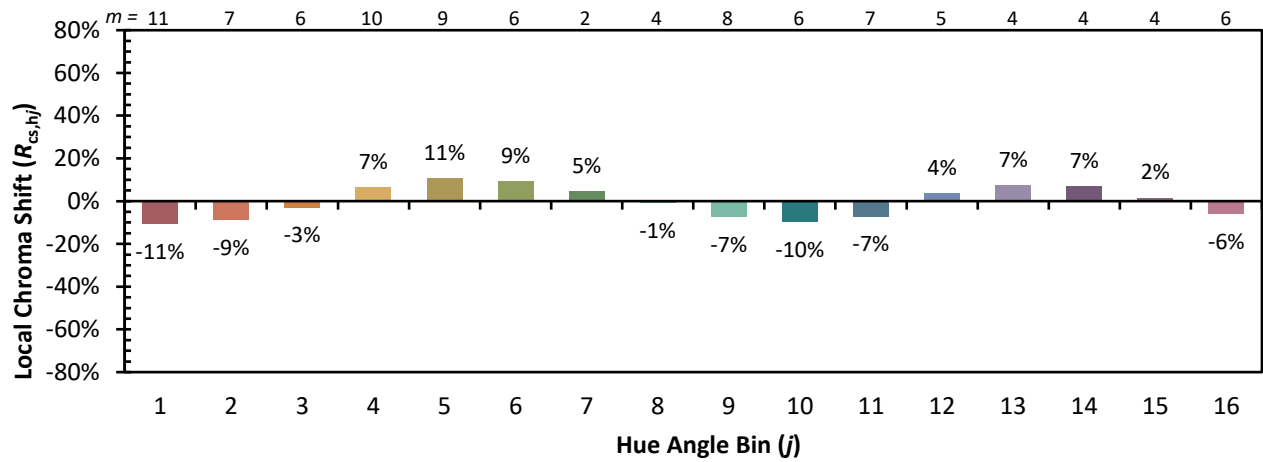


Individual Sample Fidelity Index ($R_{f,i}$)

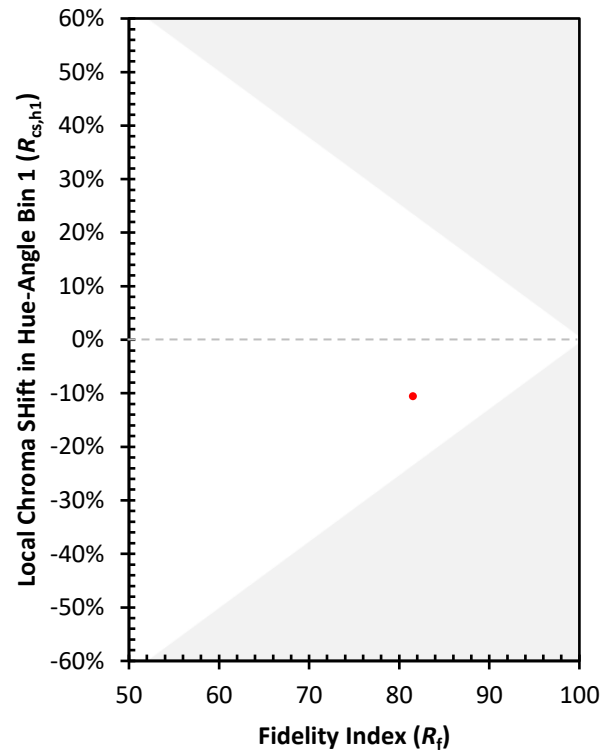
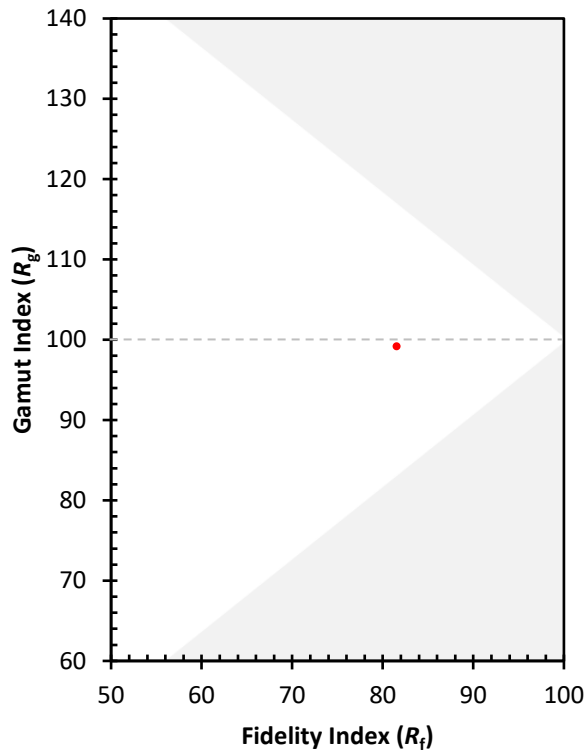
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
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 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	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	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)