

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: P324334

Luminaire Tested: **GLEON-SA0C-830-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324334
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-SA0C-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA 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: 41244 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

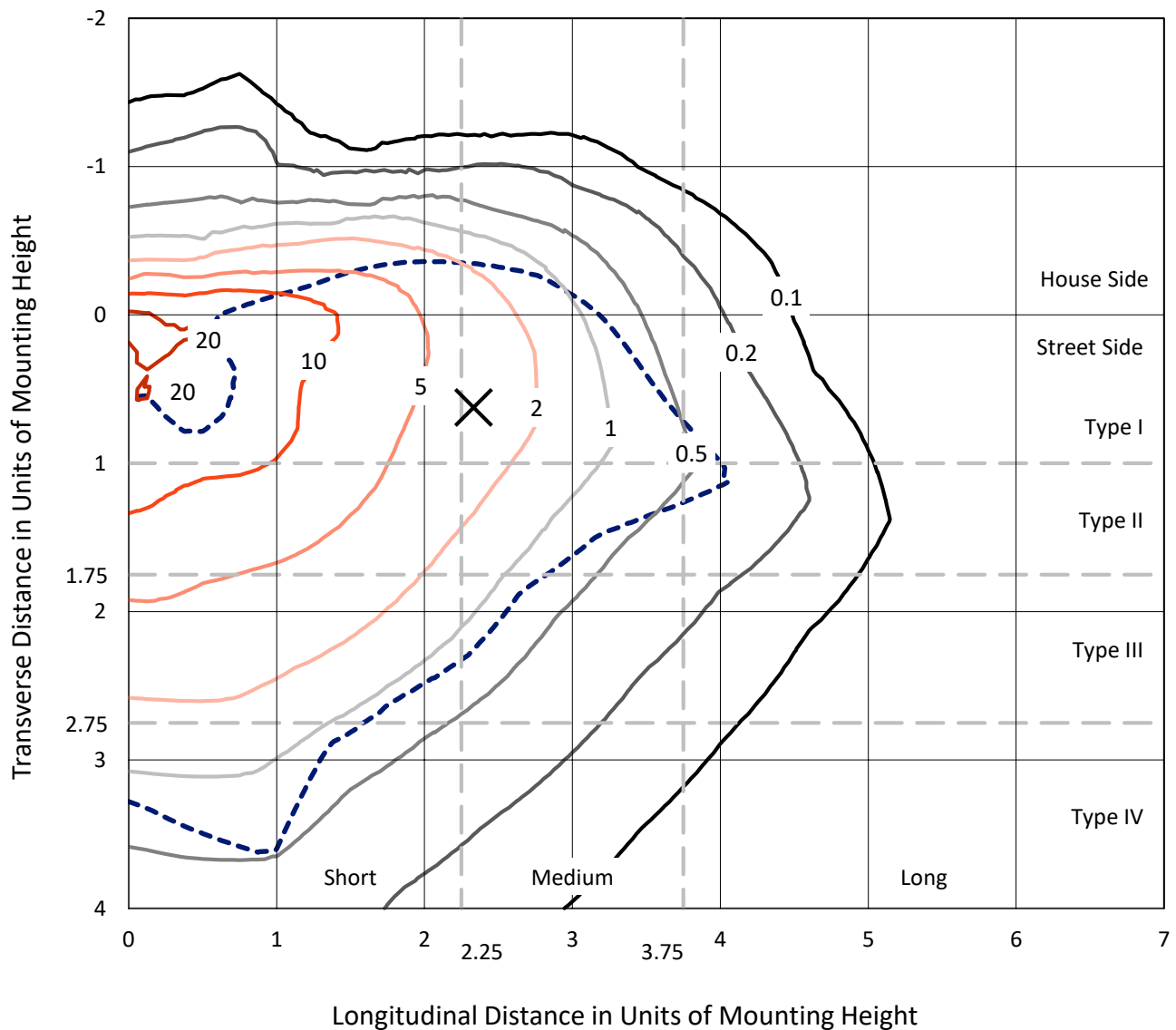
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

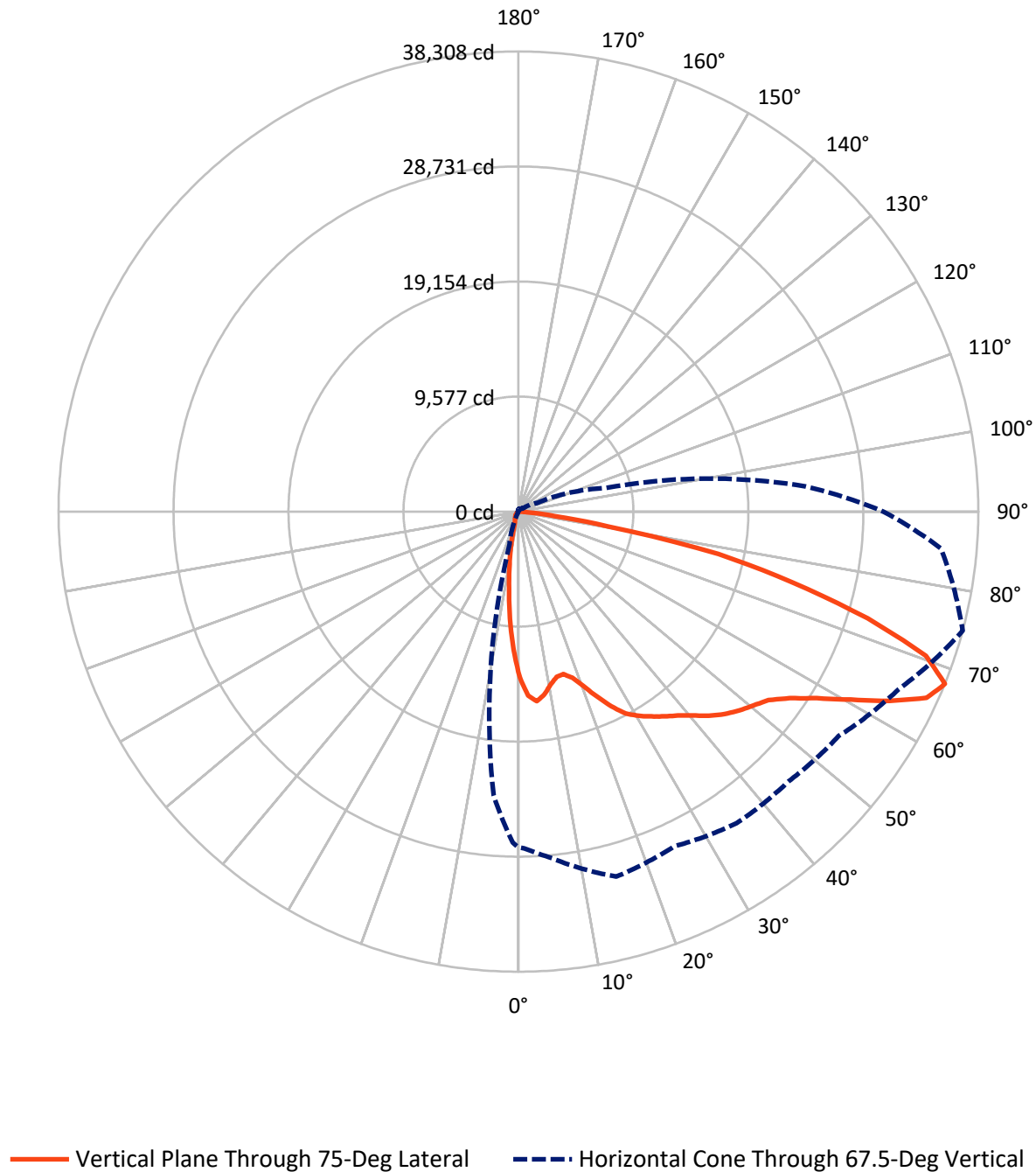
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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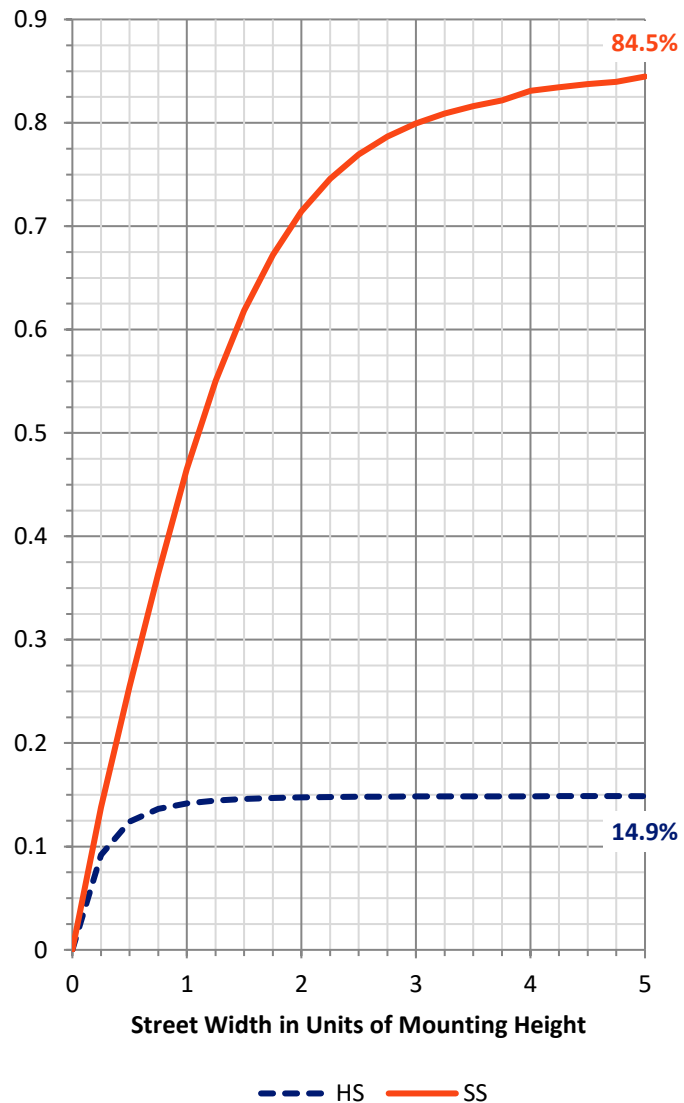
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6189.1	0.0	6189.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	35054.9	0.0	35054.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	41244.0	0.0	41244.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1049.6	2.5
10°-20°	2066.6	5.0
20°-30°	2923.7	7.1
30°-40°	4298.6	10.4
40°-50°	6178.6	15.0
50°-60°	8697.8	21.1
60°-70°	10158.3	24.6
70°-80°	5182.4	12.6
80°-90°	688.4	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°	41244.0	100.0
0°-180°	41244.0	100.0

Coefficient of Utilization



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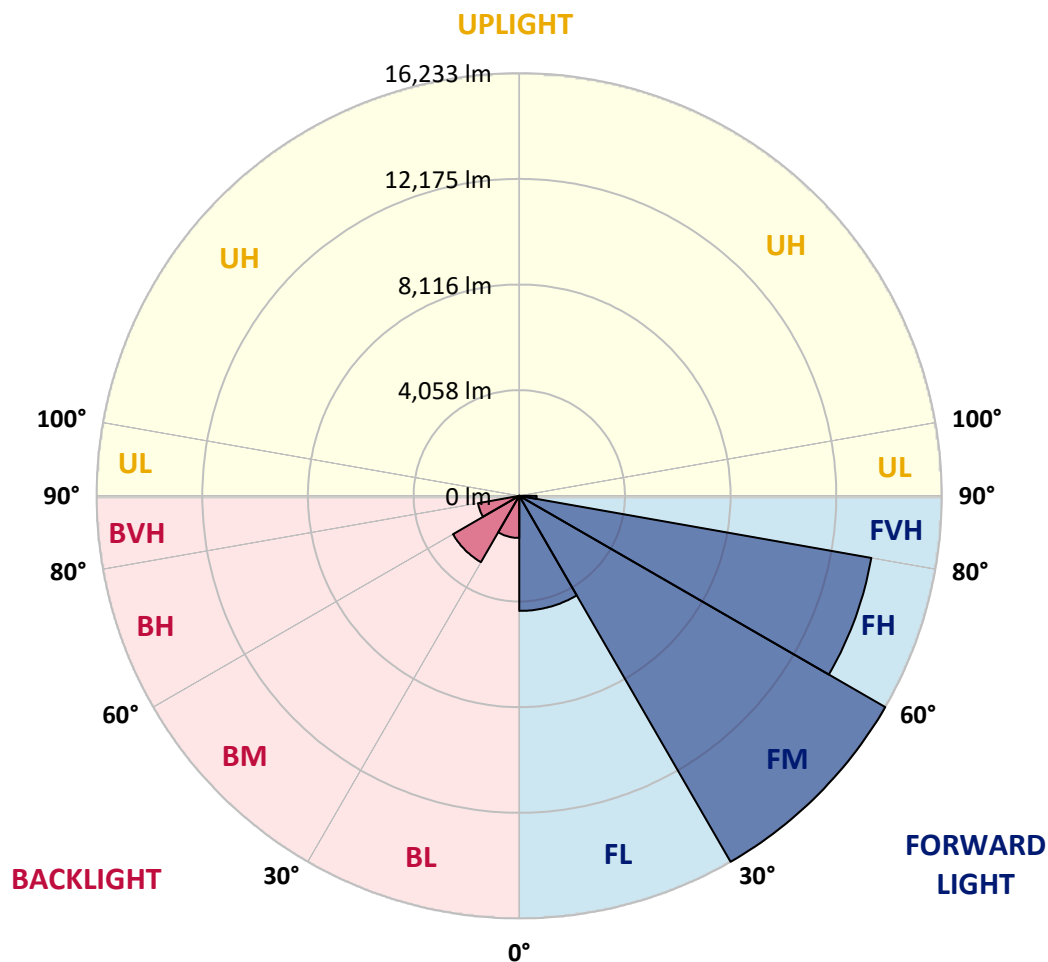
CATALOG NUMBER: GLEON-SA0C-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4421.4	10.7			
FM	(30°-60°)	16232.9	39.4			
FH	(60°-80°)	13733.1	33.3			G5
FVH	(80°-90°)	667.6	1.6			G4/750
BL	(0°-30°)	1618.5	3.9	B3/2500		
BM	(30°-60°)	2942.1	7.1	B3/5000		
BH	(60°-80°)	1607.6	3.9	B3/2500		G3/2500
BVH	(80°-90°)	20.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7
2.5°	14999.2	15022.6	15143.7	15425.1	15731.8	15755.3	15962.4	15749.4	15677.1	15333.3	14977.7
5°	15112.5	15202.3	15618.5	16445.0	17162.0	17392.5	17556.7	17138.5	16698.9	15858.8	14962.0
7.5°	14200.1	14350.5	15005.0	16556.3	17838.0	18404.6	18512.0	17857.5	16781.0	15397.7	14049.6
10°	13031.7	13203.6	13993.0	15899.8	17660.2	18631.2	18779.7	17922.0	16374.6	14651.4	13063.0
12.5°	12086.1	12287.3	13094.2	15161.3	17048.7	18123.2	18416.3	17705.1	16022.9	14121.9	12388.9
15°	11650.4	11880.9	12728.9	14684.6	16370.7	17216.7	17459.0	17152.2	15827.6	14037.9	12232.6
17.5°	11900.5	12150.5	13025.8	14725.6	15733.8	16095.2	16290.6	16415.6	15827.6	14543.9	12689.8
20°	12926.2	13195.8	14121.9	15141.8	15206.3	15071.4	15280.5	15720.1	16011.2	15505.2	13787.8
22.5°	14344.6	14661.2	15706.4	15854.9	14948.4	14438.4	14465.8	15155.5	16345.3	16724.3	15311.8
25°	16073.7	16460.6	17523.4	16917.8	15055.8	14061.3	14051.6	14690.5	16671.6	17945.5	17009.6
27.5°	17791.1	18217.0	19150.9	18215.1	15499.3	13993.0	13973.4	14549.8	16990.1	19031.8	18863.7
30°	19231.0	19645.2	20450.2	19154.8	15978.0	14153.2	14059.4	14700.2	17179.6	19737.1	20215.7
32.5°	20403.3	20735.4	21386.1	19801.5	16489.9	14463.8	14260.6	15102.7	17501.9	20333.0	21458.3
35°	21692.8	22042.5	22302.4	20417.0	17064.3	14911.2	14620.1	15741.6	17998.2	20938.6	22820.1
37.5°	23164.0	23511.8	23480.5	20979.7	17793.1	15651.7	15466.1	16753.6	18769.9	21538.4	24340.2
40°	24603.9	24959.5	24705.5	21595.1	18648.8	16872.8	16736.1	18273.7	19803.5	22306.3	26122.0
42.5°	25952.0	26336.9	25793.8	22177.3	19668.7	18412.4	18646.9	20231.4	21096.9	23251.9	27657.7
45°	27038.3	27431.0	26706.2	22743.9	20743.3	20280.2	20985.5	22400.1	22652.1	24051.0	28695.1
47.5°	27827.7	28198.9	27339.2	23310.5	22118.7	22564.2	23793.1	24674.3	24056.9	24744.6	29431.7
50°	28331.7	28620.9	27524.8	24019.7	23924.0	25229.1	26717.9	27147.7	25379.6	25369.8	30326.5
52.5°	28652.2	28783.1	27661.6	24760.2	25807.5	28130.5	29582.2	29717.0	26741.4	26057.5	31532.0
55°	29756.0	29861.5	28630.7	25657.0	27364.6	30672.4	32172.9	32047.8	28282.9	27403.7	32954.4
57.5°	31639.5	31750.8	30633.3	26946.5	28624.8	32243.2	34050.4	34275.1	30090.1	29294.9	34478.3
60°	32585.1	32792.2	32393.6	28579.9	29845.9	33247.4	35330.2	36047.2	32348.7	31788.0	35955.4
62.5°	31727.4	32028.3	32606.6	30391.0	31059.2	33800.4	35728.7	36682.2	34662.0	34693.2	36865.8
65°	30015.9	30256.2	31237.0	31383.5	31762.6	33732.0	34744.0	35795.2	36078.5	37362.1	36817.0
67.5°	27948.8	28038.7	28871.0	31461.7	30742.7	31676.6	31786.0	32563.6	34959.0	38307.7	35338.0
70°	24973.2	25022.0	25748.8	28845.6	26419.0	26624.1	26462.0	26620.2	30055.0	36004.2	31604.3
72.5°	20098.5	20221.6	21255.2	23955.3	19246.7	18654.7	19928.5	19858.2	23146.4	30418.4	23472.7
75°	14797.9	15010.9	16571.9	19295.5	13508.4	12218.9	13148.9	13397.1	16454.7	23529.3	14678.7
77.5°	10360.9	10519.1	12031.4	14184.4	9776.7	8737.3	8401.2	8696.3	10861.1	17021.3	7395.1
80°	5968.8	6027.4	6992.6	8190.2	6588.1	7537.7	6828.5	7031.6	6508.0	7572.8	3180.8
82.5°	3905.6	3915.4	4292.5	4874.7	4102.9	4767.2	3528.5	4511.3	4003.3	3042.0	1035.5
85°	2110.1	2121.8	2489.1	3460.1	2323.0	1312.9	771.7	1584.5	2475.4	697.5	283.3
87.5°	232.5	213.0	750.3	1258.2	644.7	119.2	41.0	177.8	396.6	44.9	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°	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7
2.5°	14796.0	14633.8	14229.4	13801.5	13457.6	13135.3	12810.9	12414.3	12107.6	12045.0	11943.4
5°	14479.4	13965.6	13117.7	12265.8	11580.0	10714.5	10165.5	9737.6	9319.5	9294.1	9210.1
7.5°	13373.6	12697.6	11503.8	10325.7	9360.6	8536.1	7703.7	7146.9	6709.3	6554.9	6463.1
10°	12310.8	11550.7	10060.0	8715.8	7854.2	7125.4	6539.3	5957.1	5429.5	5066.1	4902.0
12.5°	11568.3	10728.2	9085.1	7926.5	7309.1	6617.4	5902.4	5175.6	4567.9	4130.3	3862.6
15°	11281.1	10384.3	8758.8	7613.9	6851.9	5976.6	5062.2	4231.9	3557.8	3161.2	2920.9
17.5°	11623.0	10579.7	8733.4	7232.9	6168.1	5079.8	4069.7	3088.9	2453.9	2153.1	1998.7
20°	12490.5	11201.0	8723.6	6765.9	5355.3	4017.0	2756.8	2031.9	1647.0	1479.0	1406.7
22.5°	13717.5	11994.2	8801.8	6304.8	4509.3	2870.1	1903.0	1492.7	1295.4	1205.5	1164.5
25°	15296.1	13107.9	9022.5	5886.7	3714.1	2141.3	1482.9	1250.4	1111.7	1041.4	1012.1
27.5°	16978.3	14389.6	9366.4	5523.3	3067.4	1707.6	1270.0	1070.7	971.0	922.2	894.8
30°	18365.5	15874.4	9714.2	5118.9	2598.5	1488.8	1162.5	976.9	861.6	830.4	805.0
32.5°	19578.8	16997.9	9960.4	4753.5	2291.8	1322.7	1051.1	873.3	795.2	734.6	707.3
35°	20835.1	17933.7	9952.5	4497.6	2080.8	1197.7	957.4	781.5	687.7	617.4	595.9
37.5°	22194.9	18990.7	9782.6	4278.8	1988.9	1098.0	904.6	732.7	638.9	568.5	541.2
40°	23787.2	20100.5	9608.7	4073.6	1963.5	1017.9	867.5	693.6	593.9	525.6	498.2
42.5°	25338.5	21100.8	9456.3	3921.2	1854.1	1016.0	834.3	664.3	558.8	492.4	461.1
45°	26579.2	22032.8	9427.0	3829.4	1738.9	1051.1	816.7	644.7	531.4	465.0	435.7
47.5°	27610.8	23044.8	9614.5	3764.9	1629.5	959.3	859.7	631.1	506.0	441.6	408.3
50°	28837.8	24287.4	10056.1	3659.4	1514.2	863.6	984.7	635.0	484.5	418.1	382.9
52.5°	30549.3	26006.7	10704.8	3481.6	1355.9	775.6	969.1	638.9	461.1	392.7	357.5
55°	32467.9	28153.9	11402.2	3186.6	1135.1	660.4	830.4	611.5	416.2	365.4	332.1
57.5°	34484.2	30101.9	11816.5	2834.9	902.6	570.5	664.3	556.8	367.3	328.2	306.7
60°	34800.7	30842.3	11626.9	2403.1	717.0	496.3	492.4	566.6	328.2	289.2	273.5
62.5°	34013.3	29912.3	10710.6	2018.3	599.8	435.7	404.4	494.3	297.0	257.9	242.3
65°	32499.1	27397.8	9225.7	1819.0	556.8	373.2	336.0	347.8	259.9	224.7	211.0
67.5°	30393.0	24041.2	7574.8	1705.6	551.0	320.4	287.2	263.8	224.7	195.4	183.7
70°	26086.8	20028.2	6043.0	1643.1	535.3	269.6	242.3	214.9	187.6	166.1	156.3
72.5°	19199.8	14192.2	4700.8	1574.7	539.2	214.9	211.0	177.8	150.4	128.9	125.0
75°	11093.6	8108.2	3083.1	1275.8	513.8	166.1	175.8	125.0	105.5	89.9	89.9
77.5°	5912.1	4945.0	1174.2	531.4	187.6	105.5	99.6	74.2	66.4	54.7	52.8
80°	2577.0	2176.5	353.6	148.5	103.6	56.7	37.1	33.2	29.3	23.4	21.5
82.5°	912.4	787.4	115.3	72.3	44.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	207.1	148.5	0.0	17.6	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°	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7
2.5°	11736.3	11693.4	11439.4	11449.1	11494.1	11558.6	11406.2	11476.5	11666.0	11847.7	11916.1
5°	9075.3	9085.1	8930.7	9026.5	9112.4	9171.0	8924.9	8928.8	9079.2	9284.4	9391.8
7.5°	6394.7	6379.1	6386.9	6615.5	6777.7	6660.4	6752.3	6433.8	6453.3	6599.9	6490.5
10°	4753.5	4538.6	4417.5	4589.4	4767.2	4702.7	4544.5	4440.9	4513.2	4675.4	4663.7
12.5°	3735.6	3426.9	3245.2	3122.1	3268.7	3147.5	3143.6	3053.8	2956.1	2973.7	3233.5
15°	2809.5	2584.8	2369.9	2172.6	2168.7	2127.7	1918.6	1684.2	1664.6	1676.3	1811.2
17.5°	1932.3	1856.1	1768.2	1598.2	1553.3	1381.3	1178.1	1084.3	1037.5	1058.9	1103.9
20°	1357.9	1328.6	1338.3	1246.5	1182.0	1017.9	898.7	861.6	853.8	875.3	896.8
22.5°	1125.4	1072.6	1066.8	1025.7	961.3	842.1	777.6	756.1	746.3	765.9	781.5
25°	984.7	932.0	910.5	885.1	816.7	734.6	695.5	676.0	666.2	678.0	687.7
27.5°	867.5	818.6	799.1	781.5	715.1	656.5	625.2	607.6	599.8	603.7	613.5
30°	779.6	736.6	711.2	689.7	633.0	592.0	564.6	547.1	539.2	539.2	549.0
32.5°	687.7	664.3	640.8	613.5	560.7	533.4	506.0	486.5	478.7	480.6	488.4
35°	572.5	564.6	570.5	545.1	500.2	476.7	449.4	427.9	422.0	424.0	431.8
37.5°	508.0	472.8	494.3	480.6	455.2	424.0	388.8	369.3	359.5	365.4	369.3
40°	467.0	424.0	408.3	422.0	418.1	367.3	336.0	316.5	308.7	310.7	314.6
42.5°	431.8	381.0	345.8	343.9	367.3	320.4	287.2	269.6	259.9	259.9	263.8
45°	398.6	343.9	300.9	267.7	308.7	271.6	240.3	224.7	213.0	213.0	214.9
47.5°	373.2	312.6	261.8	218.8	232.5	222.7	197.3	181.7	170.0	170.0	171.9
50°	349.7	281.3	226.6	183.7	173.9	183.7	160.2	142.6	134.8	132.9	136.8
52.5°	324.3	250.1	193.4	156.3	136.8	138.7	125.0	113.3	103.6	103.6	107.5
55°	298.9	224.7	168.0	132.9	113.3	103.6	99.6	91.8	84.0	84.0	87.9
57.5°	273.5	197.3	142.6	109.4	89.9	82.1	82.1	76.2	70.3	70.3	74.2
60°	250.1	170.0	117.2	89.9	70.3	68.4	70.3	64.5	60.6	60.6	64.5
62.5°	222.7	144.6	95.7	74.2	56.7	54.7	60.6	56.7	52.8	52.8	56.7
65°	189.5	123.1	76.2	56.7	43.0	43.0	50.8	46.9	43.0	43.0	46.9
67.5°	160.2	103.6	58.6	41.0	31.3	33.2	43.0	39.1	37.1	37.1	41.0
70°	132.9	80.1	41.0	25.4	17.6	25.4	33.2	33.2	33.2	33.2	37.1
72.5°	99.6	54.7	23.4	9.8	7.8	17.6	27.4	31.3	29.3	29.3	35.2
75°	64.5	31.3	7.8	0.0	0.0	9.8	21.5	25.4	25.4	23.4	29.3
77.5°	37.1	9.8	0.0	0.0	0.0	0.0	13.7	11.7	9.8	7.8	13.7
80°	9.8	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

REPORT NUMBER: P324334

CATALOG NUMBER: GLEON-SA0C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7	13836.7
2.5°	12191.6	12422.1	12746.4	13090.3	13619.8	14039.8	14452.1	14805.7	14942.5	14999.2
5°	9649.7	9987.7	10462.5	11072.1	12027.5	12887.1	13758.5	14635.8	15016.7	15112.5
7.5°	6924.2	7356.0	7959.7	8723.6	9843.1	10956.8	12174.0	13461.5	14051.6	14200.1
10°	5124.8	5652.3	6343.9	7148.9	8217.6	9362.5	10689.1	12160.3	12834.4	13031.7
12.5°	3636.0	4349.1	5275.2	6254.0	7180.1	8202.0	9544.2	11165.8	11873.1	12086.1
15°	2135.5	2825.2	3921.2	5232.2	6418.2	7453.7	8817.4	10655.9	11435.5	11650.4
17.5°	1225.0	1568.9	2397.3	3858.7	5468.6	6902.7	8588.8	10782.9	11701.2	11900.5
20°	935.9	1045.3	1381.3	2485.2	4358.9	6361.5	8588.8	11501.9	12633.1	12926.2
22.5°	818.6	898.7	1035.5	1482.9	3208.1	5781.2	8688.5	12541.3	14020.3	14344.6
25°	726.8	799.1	916.3	1115.6	2188.2	5091.5	8924.9	13817.1	15653.7	16073.7
27.5°	650.6	719.0	824.5	976.9	1496.6	4259.2	9243.3	15313.7	17455.1	17791.1
30°	582.2	646.7	742.4	849.9	1154.7	3315.6	9514.9	16724.3	18869.6	19231.0
32.5°	517.8	576.4	662.3	742.4	945.6	2452.0	9544.2	17841.9	20043.8	20403.3
35°	457.2	509.9	588.1	650.6	783.5	1936.2	9089.0	18811.0	21218.0	21692.8
37.5°	398.6	449.4	517.8	564.6	689.7	1578.7	8393.4	19891.4	22724.4	23164.0
40°	343.9	388.8	459.1	490.4	652.6	1213.3	7637.3	21024.6	24201.4	24603.9
42.5°	293.1	336.0	404.4	465.0	572.5	906.6	6820.6	22087.5	25530.0	25952.0
45°	244.2	289.2	357.5	492.4	474.8	678.0	5947.3	22792.8	26579.2	27038.3
47.5°	197.3	248.1	341.9	468.9	379.0	498.2	5255.7	23461.0	27374.4	27827.7
50°	158.3	209.1	384.9	418.1	310.7	381.0	4966.5	24058.8	27896.0	28331.7
52.5°	128.9	175.8	363.4	320.4	259.9	314.6	5122.8	25027.9	28378.6	28652.2
55°	107.5	138.7	218.8	222.7	220.8	267.7	5316.2	26419.0	29627.1	29756.0
57.5°	93.8	111.4	152.4	171.9	185.6	238.4	5320.1	28415.7	31559.4	31639.5
60°	80.1	97.7	127.0	138.7	160.2	213.0	5126.7	29113.2	32319.4	32585.1
62.5°	70.3	86.0	105.5	115.3	134.8	191.5	4673.4	28103.1	31276.1	31727.4
65°	62.5	78.2	87.9	97.7	119.2	171.9	3927.1	26082.9	29545.0	30015.9
67.5°	54.7	68.4	78.2	87.9	107.5	152.4	2891.6	23736.5	27558.0	27948.8
70°	48.8	60.6	70.3	78.2	93.8	128.9	1754.5	20141.5	24811.0	24973.2
72.5°	46.9	54.7	64.5	70.3	82.1	113.3	889.0	14801.8	19834.8	20098.5
75°	41.0	48.8	58.6	62.5	72.3	97.7	361.4	9722.0	14373.9	14797.9
77.5°	33.2	44.9	52.8	56.7	62.5	80.1	183.7	6213.0	10087.4	10360.9
80°	11.7	33.2	44.9	46.9	52.8	58.6	121.1	3401.5	5851.6	5968.8
82.5°	0.0	21.5	35.2	33.2	37.1	44.9	78.2	1617.7	3862.6	3905.6
85°	0.0	9.8	27.4	21.5	15.6	31.3	27.4	353.6	2026.1	2110.1
87.5°	0.0	0.0	2.0	9.8	7.8	11.7	3.9	2.0	183.7	232.5
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.

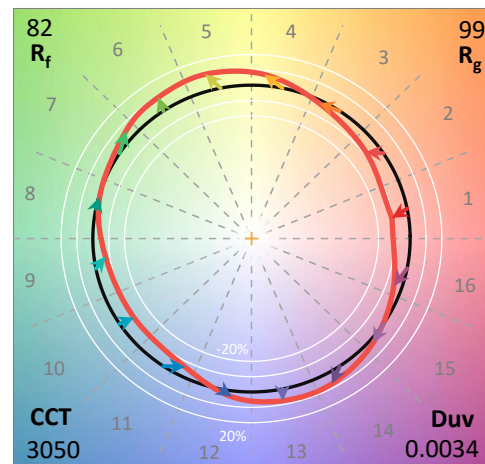
Test Information

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
 Rf: 81.5
 Rg: 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

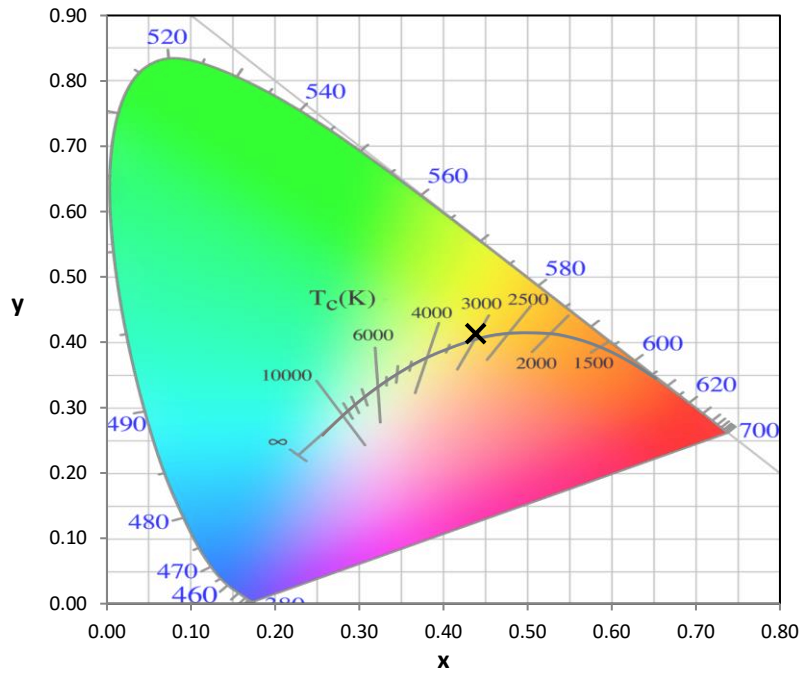
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

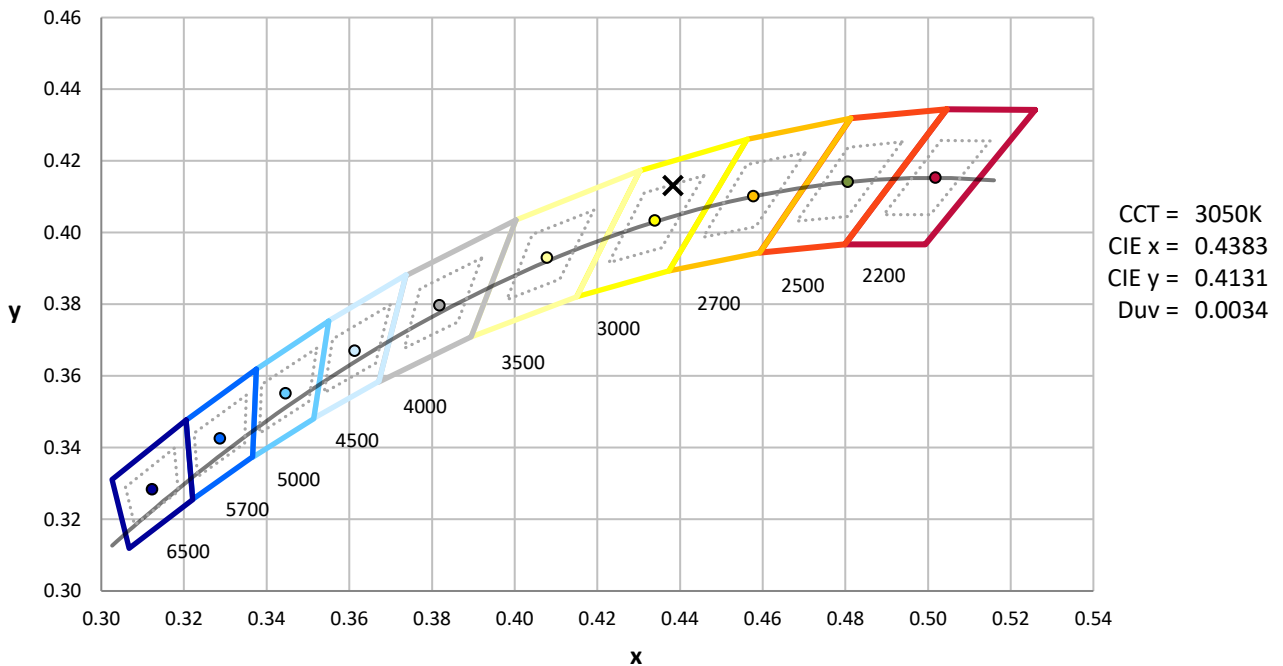
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



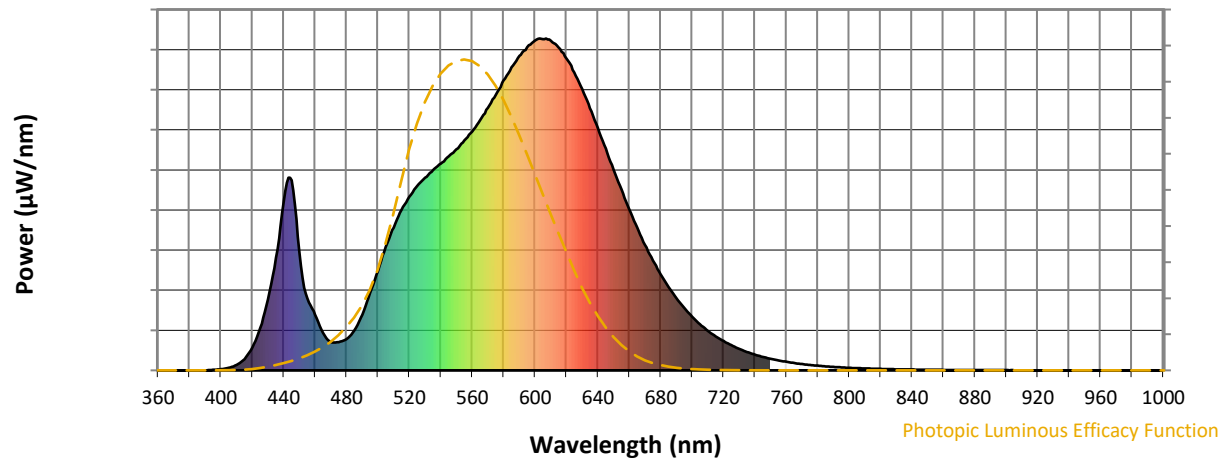
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

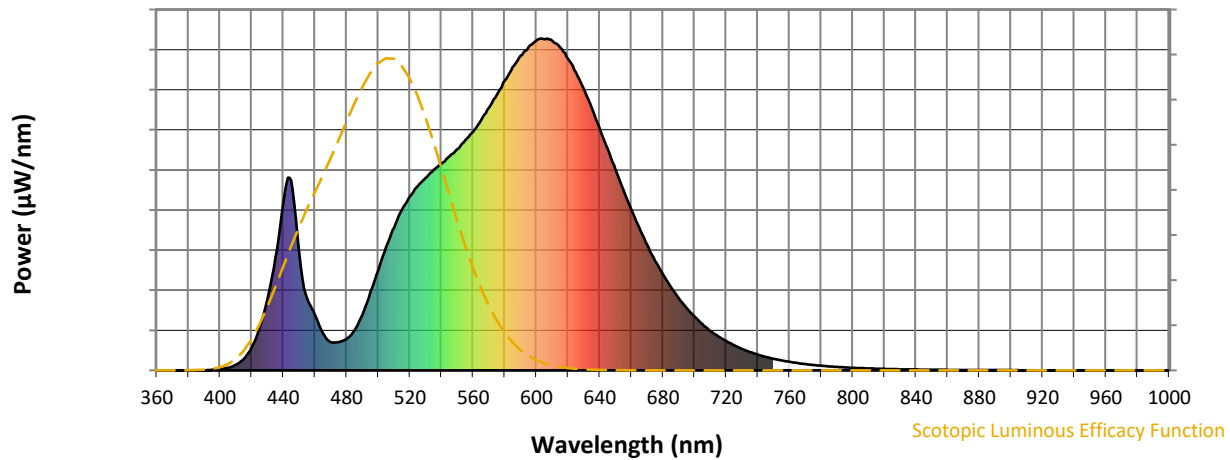


Photopic Lumens: NR

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



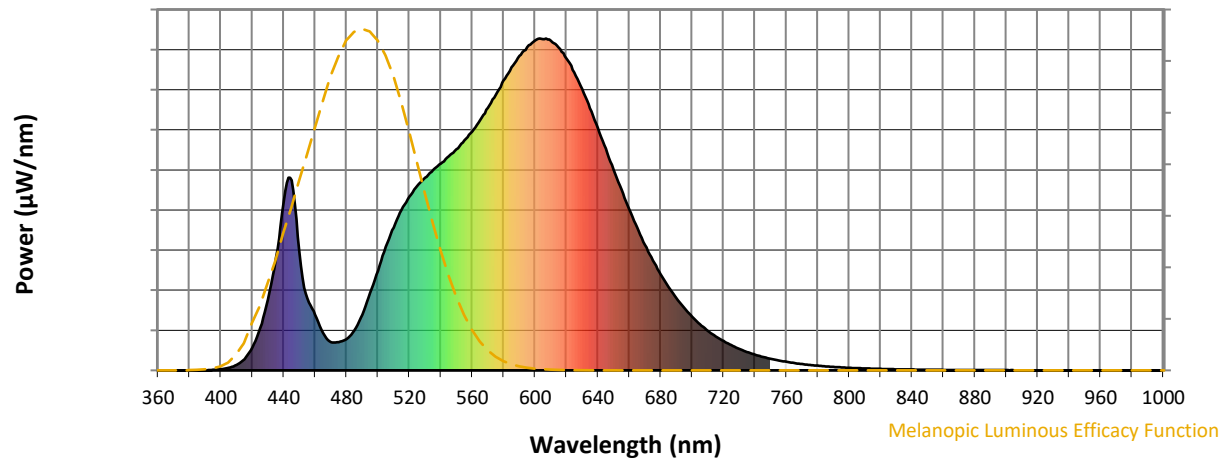
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /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

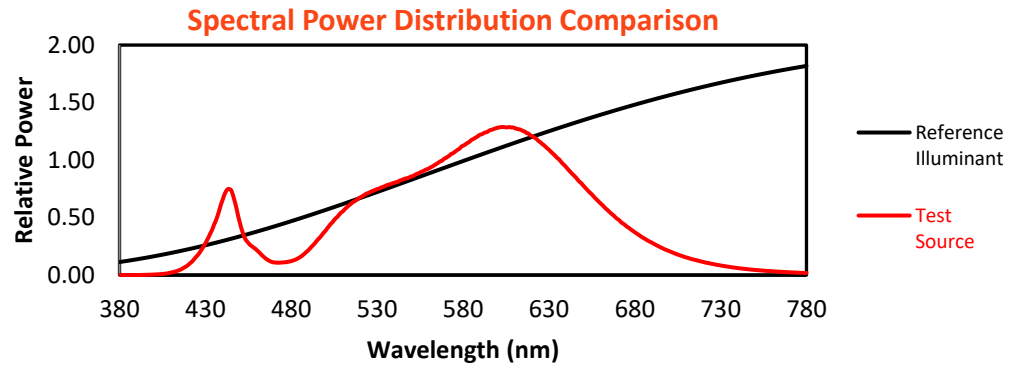
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	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

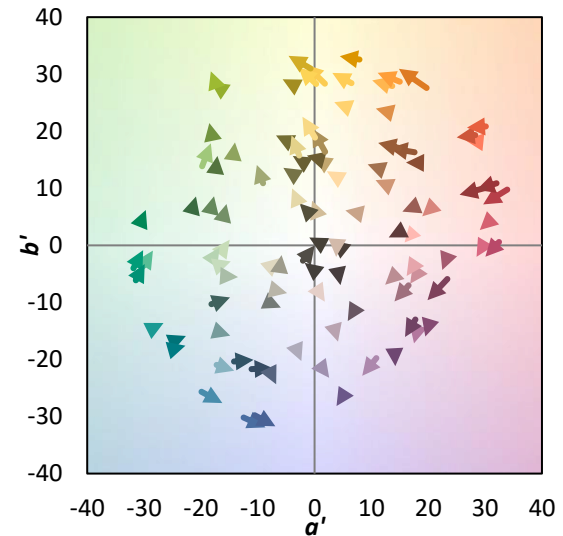
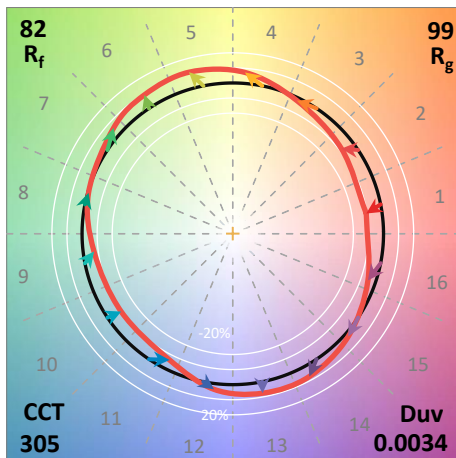
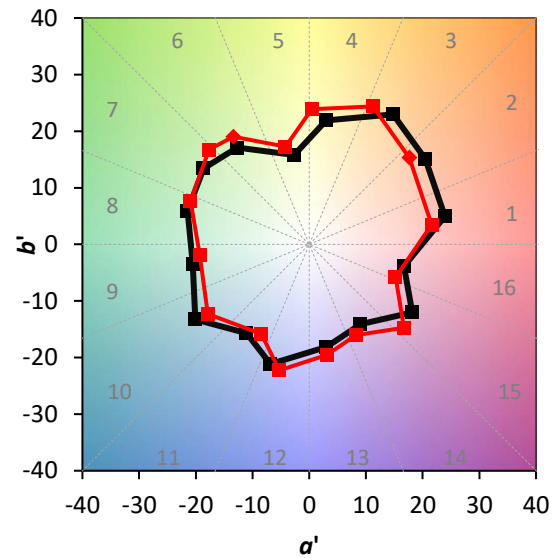
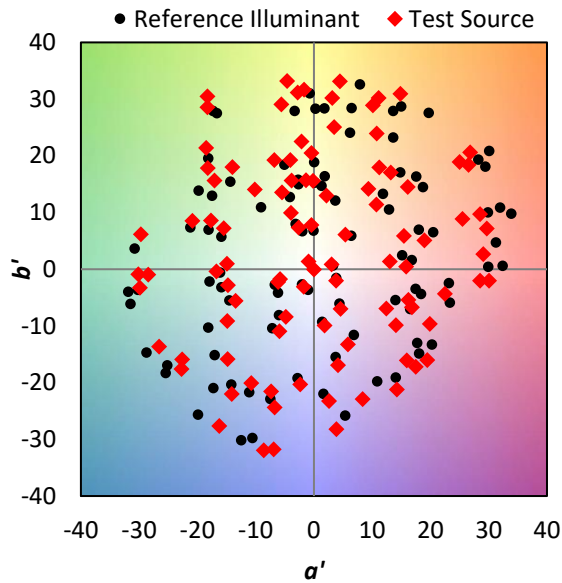
TM-30-18

Summary

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

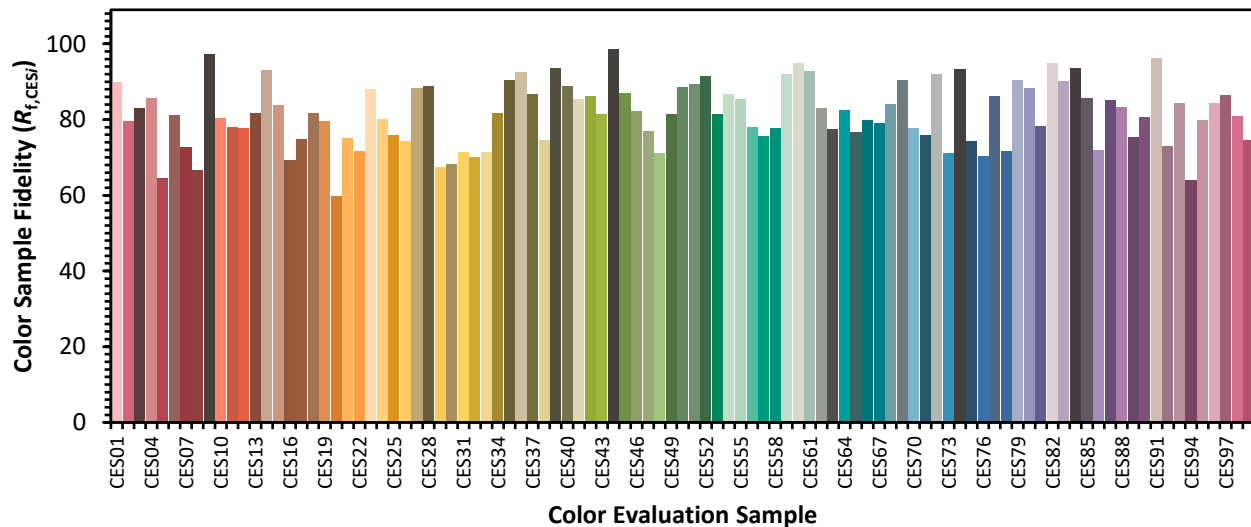


Color Vector Graphics

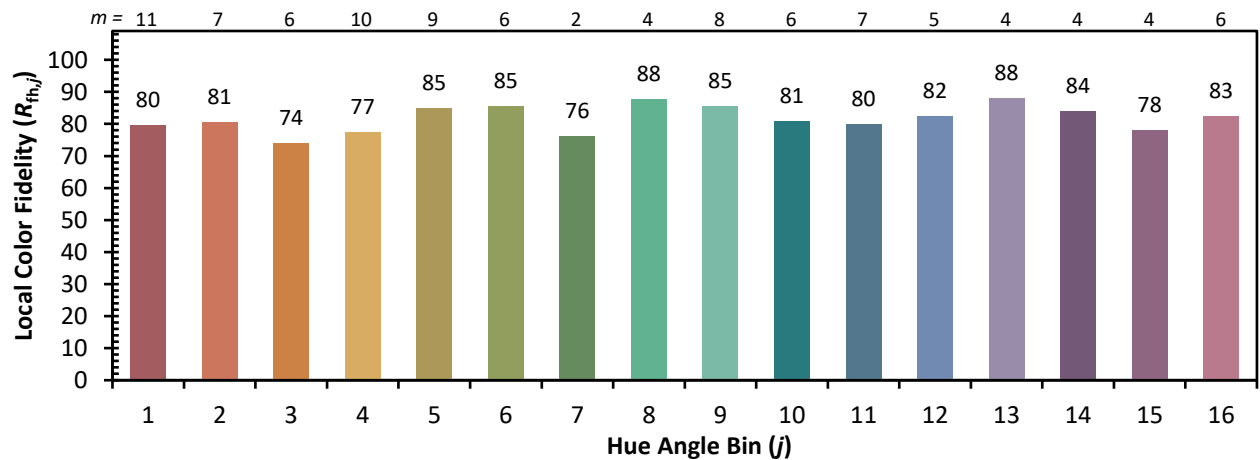
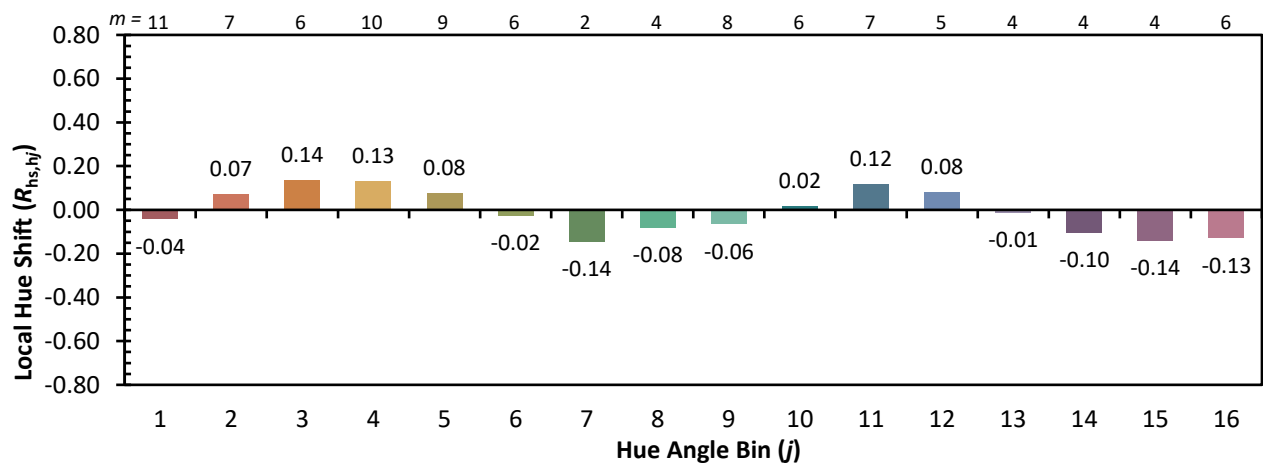
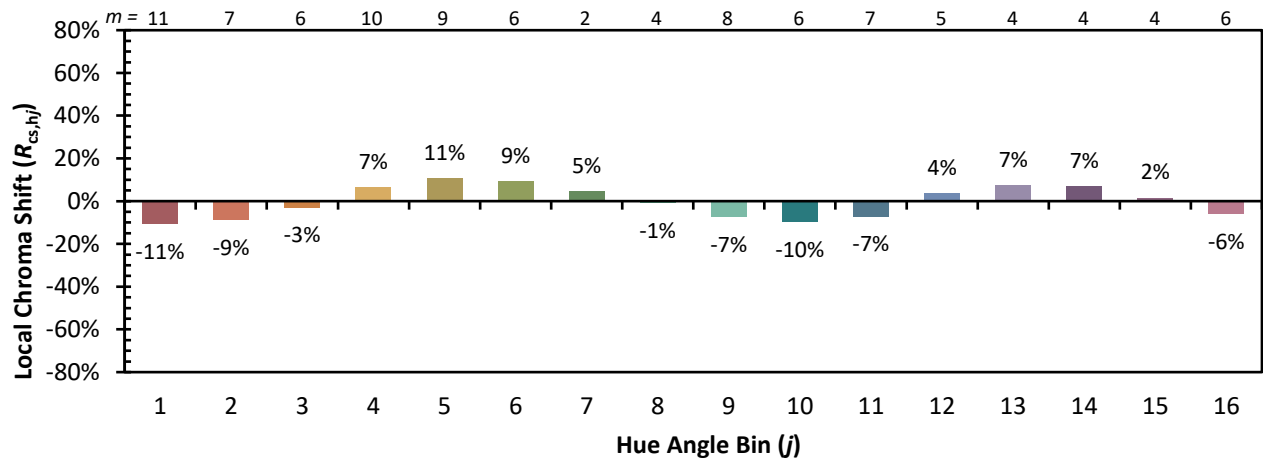


Individual Sample Fidelity Index ($R_{f,i}$)

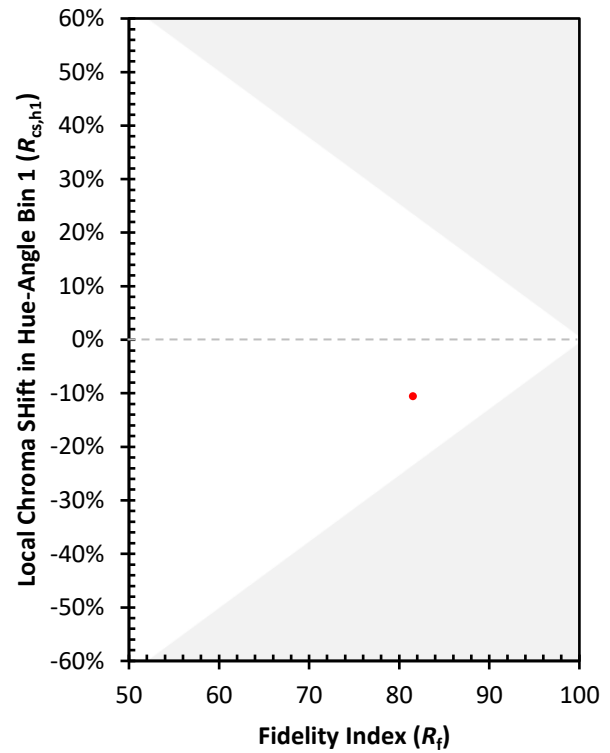
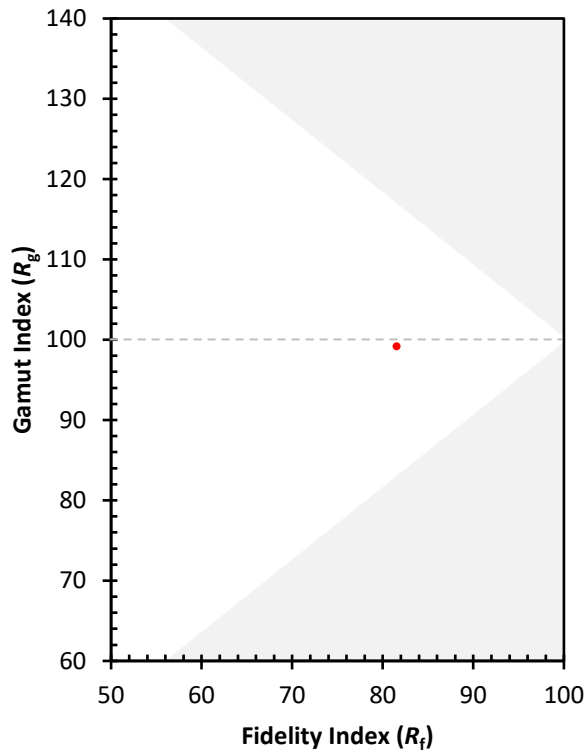
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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)