

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: P324322

Luminaire Tested: **GLEON-SA8B-830-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324322
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-SA8B-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 26981 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

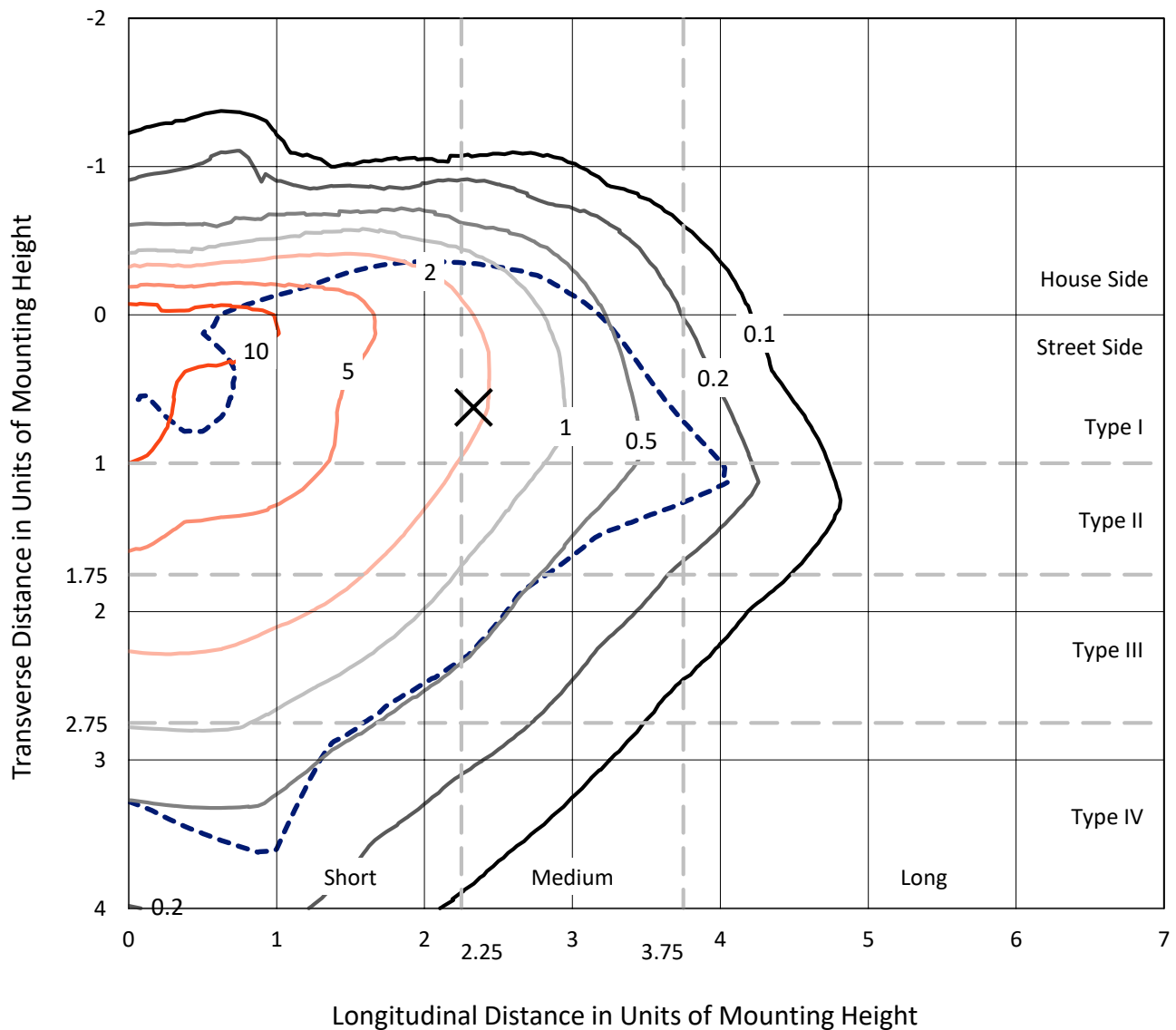
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

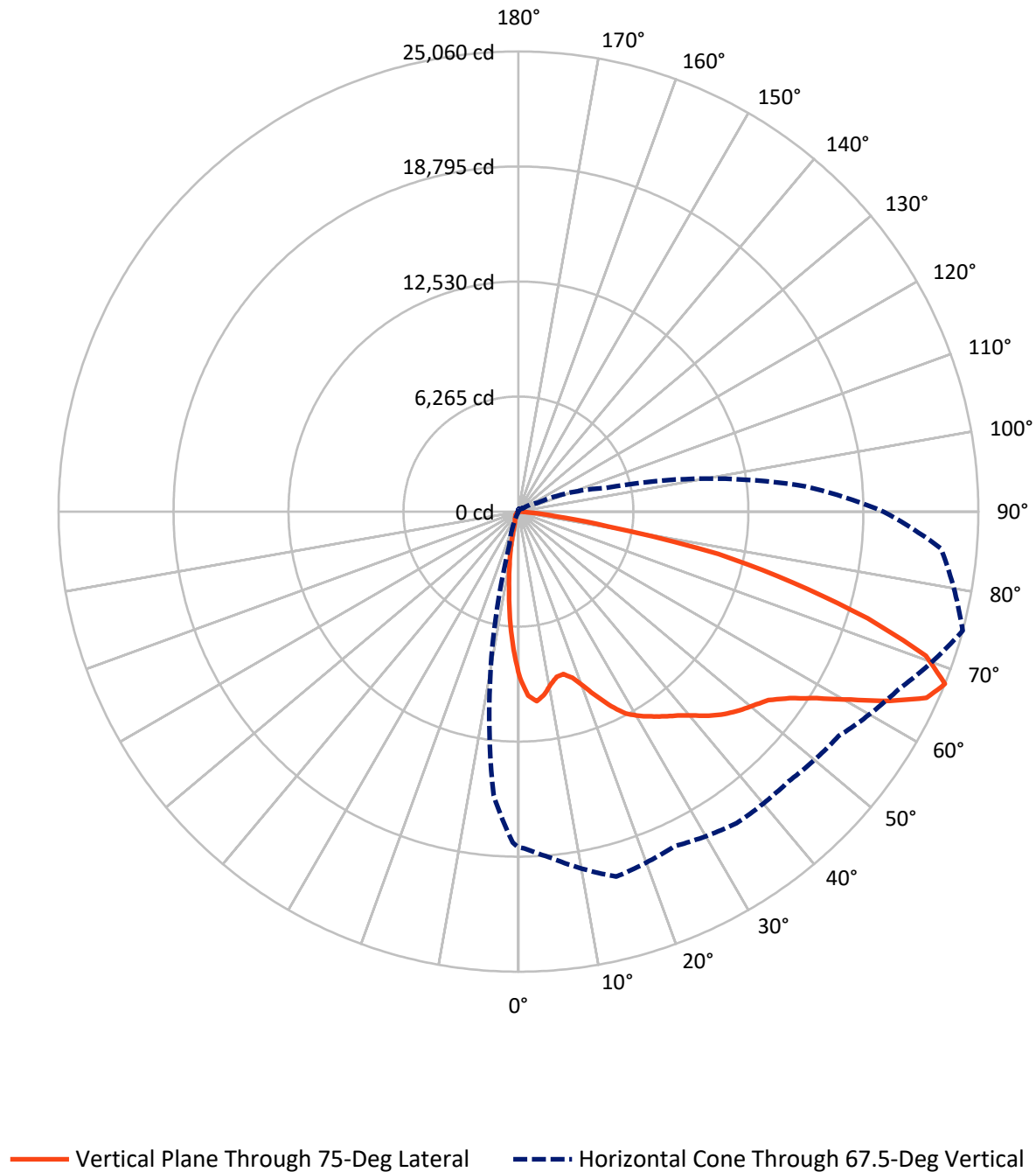
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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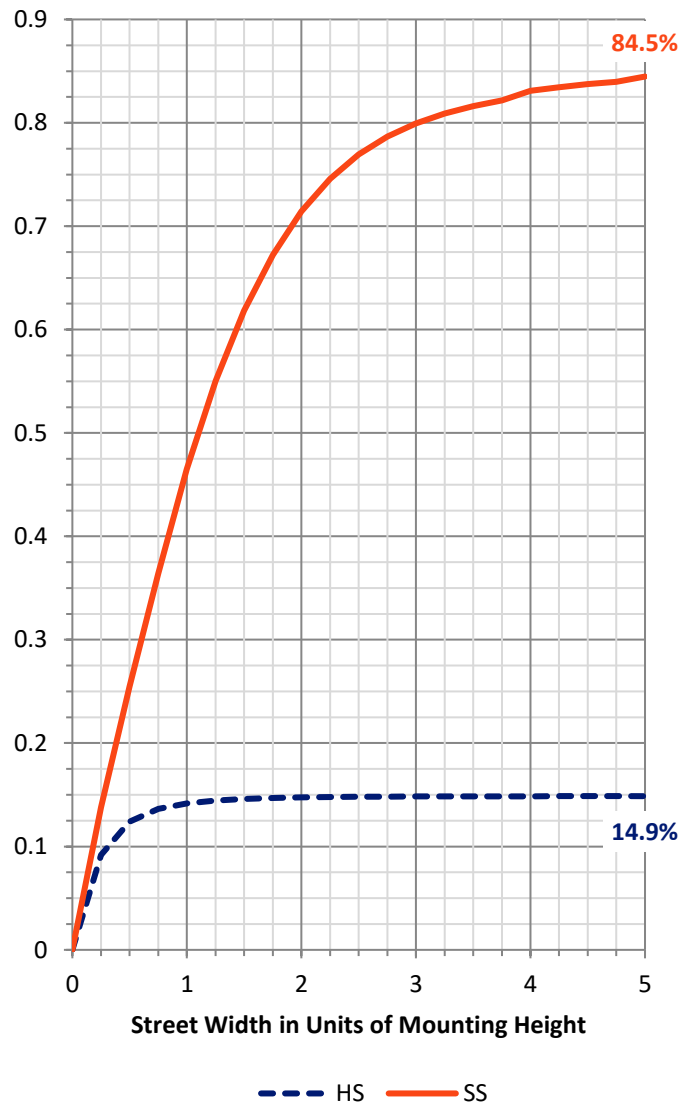
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4048.8	0.0	4048.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	22932.2	0.0	22932.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	26981.0	0.0	26981.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.6	2.5
10°-20°	1351.9	5.0
20°-30°	1912.6	7.1
30°-40°	2812.1	10.4
40°-50°	4041.9	15.0
50°-60°	5689.9	21.1
60°-70°	6645.3	24.6
70°-80°	3390.2	12.6
80°-90°	450.4	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°	26981.0	100.0
0°-180°	26981.0	100.0

Coefficient of Utilization



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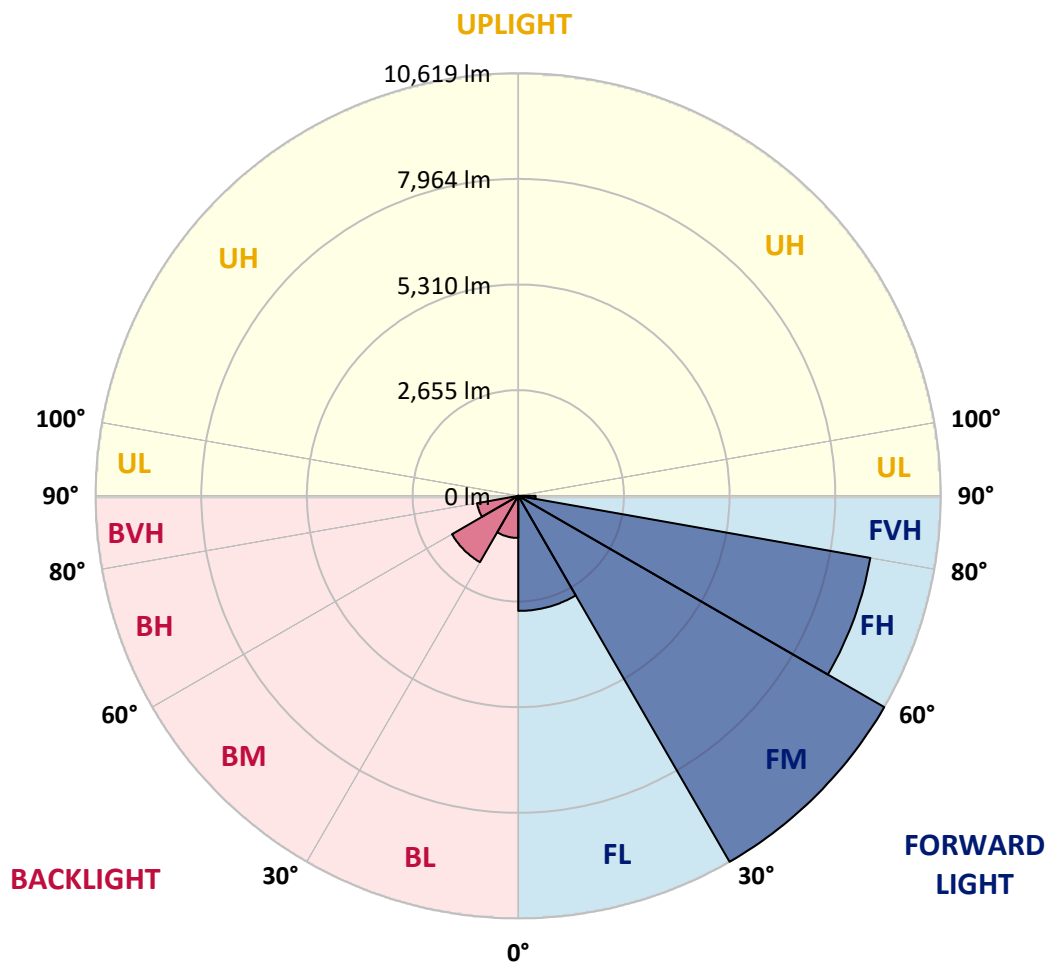
CATALOG NUMBER: GLEON-SA8B-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2892.4	10.7			
FM	(30°-60°)	10619.2	39.4			
FH	(60°-80°)	8983.9	33.3			G4/12000
FVH	(80°-90°)	436.7	1.6			G3/500
BL	(0°-30°)	1058.8	3.9	B3/2500		
BM	(30°-60°)	1924.7	7.1	B2/2500		
BH	(60°-80°)	1051.7	3.9	B3/2500		G3/2500
BVH	(80°-90°)	13.7	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7
2.5°	9812.1	9827.5	9906.7	10090.8	10291.4	10306.8	10442.3	10302.9	10255.7	10030.7	9798.1
5°	9886.3	9945.1	10217.3	10758.0	11227.0	11377.8	11485.2	11211.7	10924.1	10374.5	9787.9
7.5°	9289.4	9387.8	9816.0	10830.8	11669.3	12039.9	12110.2	11682.0	10977.8	10072.9	9191.0
10°	8525.1	8637.6	9153.9	10401.4	11552.9	12188.2	12285.3	11724.2	10711.9	9584.6	8545.5
12.5°	7906.5	8038.1	8566.0	9918.2	11152.9	11855.9	12047.6	11582.3	10481.9	9238.3	8104.6
15°	7621.4	7772.3	8327.0	9606.4	10709.4	11262.8	11421.3	11220.6	10354.1	9183.3	8002.3
17.5°	7785.0	7948.6	8521.2	9633.2	10292.7	10529.2	10657.0	10738.8	10354.1	9514.3	8301.4
20°	8456.1	8632.4	9238.3	9905.4	9947.6	9859.4	9996.2	10283.8	10474.2	10143.2	9019.7
22.5°	9384.0	9591.0	10274.8	10372.0	9778.9	9445.3	9463.2	9914.4	10692.8	10940.7	10016.6
25°	10515.1	10768.2	11463.5	11067.3	9849.2	9198.6	9192.3	9610.2	10906.2	11739.6	11127.3
27.5°	11638.6	11917.2	12528.2	11915.9	10139.3	9153.9	9141.1	9518.2	11114.6	12450.2	12340.3
30°	12580.6	12851.5	13378.1	12530.7	10452.5	9258.7	9197.4	9616.6	11238.5	12911.6	13224.7
32.5°	13347.4	13564.7	13990.3	12953.8	10787.4	9461.9	9329.0	9879.9	11449.4	13301.4	14037.6
35°	14191.0	14419.8	14589.8	13356.4	11163.1	9754.6	9564.2	10297.8	11774.1	13697.6	14928.5
37.5°	15153.4	15380.9	15360.5	13724.5	11639.9	10239.0	10117.6	10959.9	12278.9	14090.0	15922.9
40°	16095.4	16328.0	16161.9	14127.1	12199.7	11037.9	10948.4	11954.3	12955.1	14592.3	17088.5
42.5°	16977.3	17229.1	16873.8	14508.0	12866.9	12045.0	12198.4	13235.0	13801.2	15210.9	18093.1
45°	17687.9	17944.8	17470.7	14878.6	13569.8	13266.9	13728.3	14653.7	14818.6	15733.7	18771.8
47.5°	18204.3	18447.1	17884.8	15249.3	14469.6	14761.0	15565.0	16141.4	15737.5	16187.4	19253.6
50°	18534.1	18723.2	18006.2	15713.2	15650.6	16504.4	17478.3	17759.5	16602.8	16596.4	19839.0
52.5°	18743.7	18829.3	18095.7	16197.6	16882.7	18402.4	19352.1	19440.2	17493.7	17046.3	20627.6
55°	19465.8	19534.8	18729.6	16784.3	17901.4	20065.2	21046.8	20965.0	18502.1	17926.9	21558.1
57.5°	20697.9	20770.8	20039.7	17627.9	18725.8	21092.9	22275.1	22422.1	19684.4	19164.2	22555.0
60°	21316.5	21452.0	21191.3	18696.4	19524.6	21749.8	23112.3	23581.4	21161.9	20795.1	23521.3
62.5°	20755.4	20952.3	21330.6	19881.2	20318.3	22111.5	23373.0	23996.8	22675.2	22695.6	24116.9
65°	19635.8	19793.0	20434.6	20530.5	20778.4	22066.8	22728.9	23416.5	23601.8	24441.5	24084.9
67.5°	18283.5	18342.3	18886.8	20581.6	20111.3	20722.2	20793.8	21302.5	22869.4	25060.1	23117.4
70°	16337.0	16368.9	16844.4	18870.2	17282.8	17417.0	17310.9	17414.4	19661.4	23553.2	20674.9
72.5°	13148.0	13228.6	13904.7	15671.1	12590.8	12203.5	13036.9	12990.8	15141.9	19899.1	15355.4
75°	9680.5	9819.8	10841.0	12622.7	8836.9	7993.4	8601.8	8764.1	10764.3	15392.4	9602.5
77.5°	6777.9	6881.4	7870.7	9279.2	6395.7	5715.8	5495.9	5688.9	7105.1	11135.0	4837.7
80°	3904.7	3943.0	4574.4	5357.9	4309.8	4931.0	4467.0	4600.0	4257.4	4954.0	2080.8
82.5°	2555.0	2561.4	2808.0	3188.9	2684.1	3118.6	2308.3	2951.2	2618.9	1990.0	677.4
85°	1380.4	1388.0	1628.3	2263.6	1519.7	858.9	504.9	1036.6	1619.4	456.3	185.3
87.5°	152.1	139.3	490.8	823.1	421.8	78.0	26.8	116.3	259.5	29.4	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7
2.5°	9679.2	9573.1	9308.6	9028.7	8803.7	8592.8	8380.6	8121.2	7920.5	7879.6	7813.2
5°	9472.2	9136.0	8581.3	8024.1	7575.4	7009.2	6650.1	6370.2	6096.6	6080.0	6025.1
7.5°	8748.7	8306.5	7525.6	6754.9	6123.5	5584.1	5039.6	4675.4	4389.1	4288.1	4228.0
10°	8053.5	7556.3	6581.1	5701.7	5138.1	4661.3	4277.9	3897.0	3551.9	3314.2	3206.8
12.5°	7567.8	7018.2	5943.3	5185.3	4781.5	4329.0	3861.2	3385.7	2988.3	2702.0	2526.8
15°	7379.9	6793.2	5729.8	4980.8	4482.4	3909.8	3311.6	2768.4	2327.5	2068.0	1910.8
17.5°	7603.6	6921.0	5713.2	4731.6	4035.0	3323.1	2662.3	2020.7	1605.3	1408.5	1307.5
20°	8171.0	7327.5	5706.8	4426.1	3503.3	2627.8	1803.4	1329.2	1077.5	967.5	920.2
22.5°	8973.7	7846.4	5757.9	4124.5	2949.9	1877.6	1244.9	976.5	847.4	788.6	761.8
25°	10006.4	8574.9	5902.4	3851.0	2429.7	1400.8	970.1	818.0	727.3	681.2	662.1
27.5°	11106.9	9413.4	6127.3	3613.3	2006.7	1117.1	830.8	700.4	635.2	603.3	585.4
30°	12014.4	10384.7	6354.8	3348.7	1699.9	973.9	760.5	639.1	563.7	543.2	526.6
32.5°	12808.1	11119.7	6515.9	3109.7	1499.2	865.3	687.6	571.3	520.2	480.6	462.7
35°	13629.9	11731.9	6510.8	2942.2	1361.2	783.5	626.3	511.2	449.9	403.9	389.8
37.5°	14519.5	12423.4	6399.6	2799.1	1301.1	718.3	591.8	479.3	417.9	371.9	354.0
40°	15561.1	13149.3	6285.8	2664.9	1284.5	665.9	567.5	453.7	388.5	343.8	325.9
42.5°	16576.0	13803.7	6186.1	2565.2	1212.9	664.6	545.8	434.6	365.5	322.1	301.6
45°	17387.6	14413.4	6166.9	2505.1	1137.5	687.6	534.3	421.8	347.6	304.2	285.0
47.5°	18062.4	15075.5	6289.6	2462.9	1066.0	627.6	562.4	412.8	331.0	288.9	267.1
50°	18865.1	15888.3	6578.5	2393.9	990.5	564.9	644.2	415.4	317.0	273.5	250.5
52.5°	19984.7	17013.1	7002.8	2277.6	887.0	507.4	633.9	417.9	301.6	256.9	233.9
55°	21239.8	18417.7	7459.1	2084.6	742.6	432.0	543.2	400.1	272.2	239.0	217.3
57.5°	22558.9	19692.0	7730.1	1854.6	590.5	373.2	434.6	364.3	240.3	214.7	200.7
60°	22765.9	20176.4	7606.1	1572.1	469.1	324.6	322.1	370.7	214.7	189.2	178.9
62.5°	22250.8	19568.1	7006.7	1320.3	392.4	285.0	264.6	323.4	194.3	168.7	158.5
65°	21260.3	17923.1	6035.3	1189.9	364.3	244.1	219.8	227.5	170.0	147.0	138.0
67.5°	19882.5	15727.3	4955.3	1115.8	360.4	209.6	187.9	172.5	147.0	127.8	120.1
70°	17065.5	13102.0	3953.2	1074.9	350.2	176.4	158.5	140.6	122.7	108.6	102.2
72.5°	12560.1	9284.3	3075.2	1030.2	352.8	140.6	138.0	116.3	98.4	84.4	81.8
75°	7257.2	5304.2	2016.9	834.6	336.1	108.6	115.0	81.8	69.0	58.8	58.8
77.5°	3867.6	3234.9	768.2	347.6	122.7	69.0	65.2	48.6	43.5	35.8	34.5
80°	1685.8	1423.8	231.3	97.1	67.7	37.1	24.3	21.7	19.2	15.3	14.1
82.5°	596.9	515.1	75.4	47.3	29.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	135.5	97.1	0.0	11.5	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°	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7
2.5°	7677.7	7649.6	7483.4	7489.8	7519.2	7561.4	7461.7	7507.7	7631.7	7750.5	7795.3
5°	5936.9	5943.3	5842.3	5904.9	5961.2	5999.5	5838.5	5841.0	5939.4	6073.6	6143.9
7.5°	4183.3	4173.1	4178.2	4327.7	4433.8	4357.1	4417.2	4208.9	4221.6	4317.5	4245.9
10°	3109.7	2969.1	2889.8	3002.3	3118.6	3076.4	2972.9	2905.2	2952.5	3058.5	3050.9
12.5°	2443.8	2241.8	2123.0	2042.4	2138.3	2059.1	2056.5	1997.7	1933.8	1945.3	2115.3
15°	1837.9	1691.0	1550.4	1421.3	1418.7	1391.9	1255.1	1101.7	1089.0	1096.6	1184.8
17.5°	1264.1	1214.2	1156.7	1045.5	1016.1	903.6	770.7	709.4	678.7	692.7	722.1
20°	888.3	869.1	875.5	815.4	773.3	665.9	587.9	563.7	558.5	572.6	586.7
22.5°	736.2	701.7	697.9	671.0	628.8	550.9	508.7	494.6	488.2	501.0	511.2
25°	644.2	609.7	595.6	579.0	534.3	480.6	455.0	442.2	435.8	443.5	449.9
27.5°	567.5	535.5	522.8	511.2	467.8	429.4	409.0	397.5	392.4	394.9	401.3
30°	510.0	481.9	465.2	451.2	414.1	387.3	369.4	357.9	352.8	352.8	359.2
32.5°	449.9	434.6	419.2	401.3	366.8	348.9	331.0	318.3	313.1	314.4	319.5
35°	374.5	369.4	373.2	356.6	327.2	311.9	294.0	279.9	276.1	277.4	282.5
37.5°	332.3	309.3	323.4	314.4	297.8	277.4	254.3	241.6	235.2	239.0	241.6
40°	305.5	277.4	267.1	276.1	273.5	240.3	219.8	207.1	201.9	203.2	205.8
42.5°	282.5	249.2	226.2	224.9	240.3	209.6	187.9	176.4	170.0	170.0	172.5
45°	260.7	224.9	196.8	175.1	201.9	177.7	157.2	147.0	139.3	139.3	140.6
47.5°	244.1	204.5	171.3	143.1	152.1	145.7	129.1	118.9	111.2	111.2	112.5
50°	228.8	184.0	148.3	120.1	113.8	120.1	104.8	93.3	88.2	86.9	89.5
52.5°	212.2	163.6	126.5	102.2	89.5	90.7	81.8	74.1	67.7	67.7	70.3
55°	195.6	147.0	109.9	86.9	74.1	67.7	65.2	60.1	55.0	55.0	57.5
57.5°	178.9	129.1	93.3	71.6	58.8	53.7	53.7	49.8	46.0	46.0	48.6
60°	163.6	111.2	76.7	58.8	46.0	44.7	46.0	42.2	39.6	39.6	42.2
62.5°	145.7	94.6	62.6	48.6	37.1	35.8	39.6	37.1	34.5	34.5	37.1
65°	124.0	80.5	49.8	37.1	28.1	28.1	33.2	30.7	28.1	28.1	30.7
67.5°	104.8	67.7	38.3	26.8	20.4	21.7	28.1	25.6	24.3	24.3	26.8
70°	86.9	52.4	26.8	16.6	11.5	16.6	21.7	21.7	21.7	21.7	24.3
72.5°	65.2	35.8	15.3	6.4	5.1	11.5	17.9	20.4	19.2	19.2	23.0
75°	42.2	20.4	5.1	0.0	0.0	6.4	14.1	16.6	16.6	15.3	19.2
77.5°	24.3	6.4	0.0	0.0	0.0	0.0	8.9	7.7	6.4	5.1	8.9
80°	6.4	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



REPORT NUMBER: P324322

CATALOG NUMBER: GLEON-SA8B-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7	9051.7
2.5°	7975.5	8126.3	8338.5	8563.4	8909.8	9184.6	9454.3	9685.6	9775.1	9812.1
5°	6312.6	6533.8	6844.3	7243.1	7868.1	8430.5	9000.5	9574.4	9823.7	9886.3
7.5°	4529.7	4812.1	5207.1	5706.8	6439.2	7167.7	7964.0	8806.3	9192.3	9289.4
10°	3352.5	3697.6	4150.1	4676.7	5375.8	6124.8	6992.6	7955.0	8396.0	8525.1
12.5°	2378.6	2845.1	3450.9	4091.3	4697.1	5365.6	6243.6	7304.5	7767.2	7906.5
15°	1397.0	1848.2	2565.2	3422.8	4198.6	4876.0	5768.2	6970.9	7480.9	7621.4
17.5°	801.4	1026.3	1568.3	2524.3	3577.5	4515.6	5618.6	7054.0	7654.7	7785.0
20°	612.2	683.8	903.6	1625.8	2851.5	4161.6	5618.6	7524.3	8264.3	8456.1
22.5°	535.5	587.9	677.4	970.1	2098.7	3782.0	5683.8	8204.3	9171.8	9384.0
25°	475.5	522.8	599.4	729.8	1431.5	3330.8	5838.5	9038.9	10240.3	10515.1
27.5°	425.6	470.3	539.4	639.1	979.0	2786.3	6046.8	10017.9	11418.7	11638.6
30°	380.9	423.1	485.7	556.0	755.4	2169.0	6224.5	10940.7	12344.1	12580.6
32.5°	338.7	377.0	433.3	485.7	618.6	1604.0	6243.6	11671.8	13112.3	13347.4
35°	299.1	333.6	384.7	425.6	512.5	1266.6	5945.8	12305.8	13880.4	14191.0
37.5°	260.7	294.0	338.7	369.4	451.2	1032.7	5490.8	13012.6	14865.8	15153.4
40°	224.9	254.3	300.4	320.8	426.9	793.7	4996.2	13753.9	15832.1	16095.4
42.5°	191.7	219.8	264.6	304.2	374.5	593.0	4461.9	14449.2	16701.2	16977.3
45°	159.8	189.2	233.9	322.1	310.6	443.5	3890.6	14910.6	17387.6	17687.9
47.5°	129.1	162.3	223.7	306.7	248.0	325.9	3438.1	15347.7	17907.8	18204.3
50°	103.5	136.8	251.8	273.5	203.2	249.2	3249.0	15738.8	18249.0	18534.1
52.5°	84.4	115.0	237.7	209.6	170.0	205.8	3351.2	16372.8	18564.7	18743.7
55°	70.3	90.7	143.1	145.7	144.4	175.1	3477.8	17282.8	19381.5	19465.8
57.5°	61.3	72.9	99.7	112.5	121.4	155.9	3480.3	18589.0	20645.5	20697.9
60°	52.4	63.9	83.1	90.7	104.8	139.3	3353.8	19045.3	21142.7	21316.5
62.5°	46.0	56.2	69.0	75.4	88.2	125.3	3057.3	18384.5	20460.2	20755.4
65°	40.9	51.1	57.5	63.9	78.0	112.5	2569.0	17062.9	19327.8	19635.8
67.5°	35.8	44.7	51.1	57.5	70.3	99.7	1891.6	15527.9	18027.9	18283.5
70°	32.0	39.6	46.0	51.1	61.3	84.4	1147.8	13176.2	16230.9	16337.0
72.5°	30.7	35.8	42.2	46.0	53.7	74.1	581.5	9683.1	12975.5	13148.0
75°	26.8	32.0	38.3	40.9	47.3	63.9	236.5	6359.9	9403.1	9680.5
77.5°	21.7	29.4	34.5	37.1	40.9	52.4	120.1	4064.4	6598.9	6777.9
80°	7.7	21.7	29.4	30.7	34.5	38.3	79.2	2225.2	3828.0	3904.7
82.5°	0.0	14.1	23.0	21.7	24.3	29.4	51.1	1058.3	2526.8	2555.0
85°	0.0	6.4	17.9	14.1	10.2	20.4	17.9	231.3	1325.4	1380.4
87.5°	0.0	0.0	1.3	6.4	5.1	7.7	2.6	1.3	120.1	152.1
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.

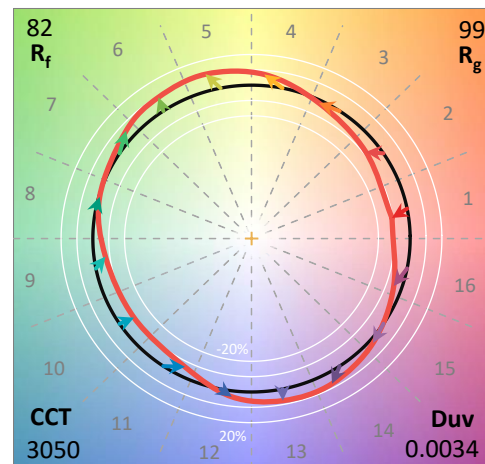
Test Information

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

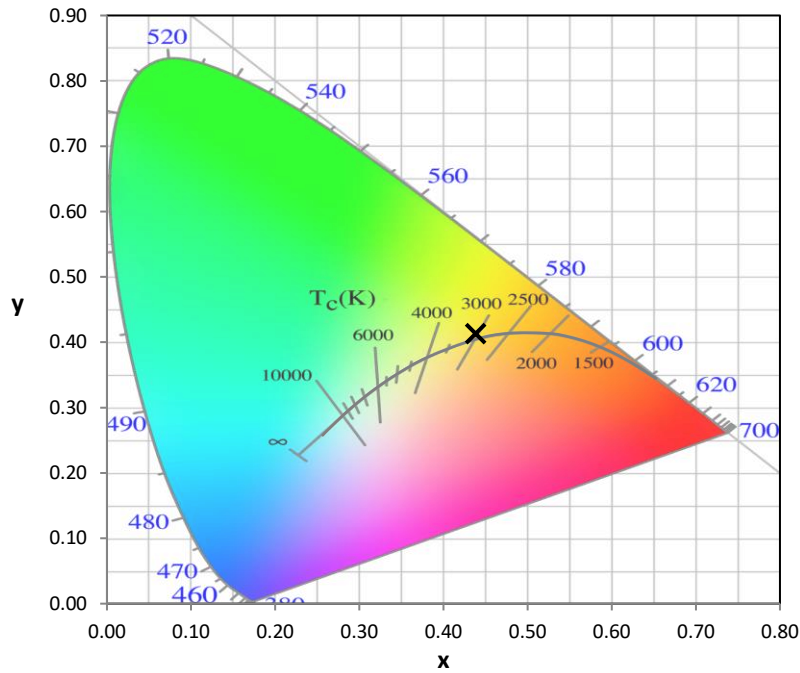
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

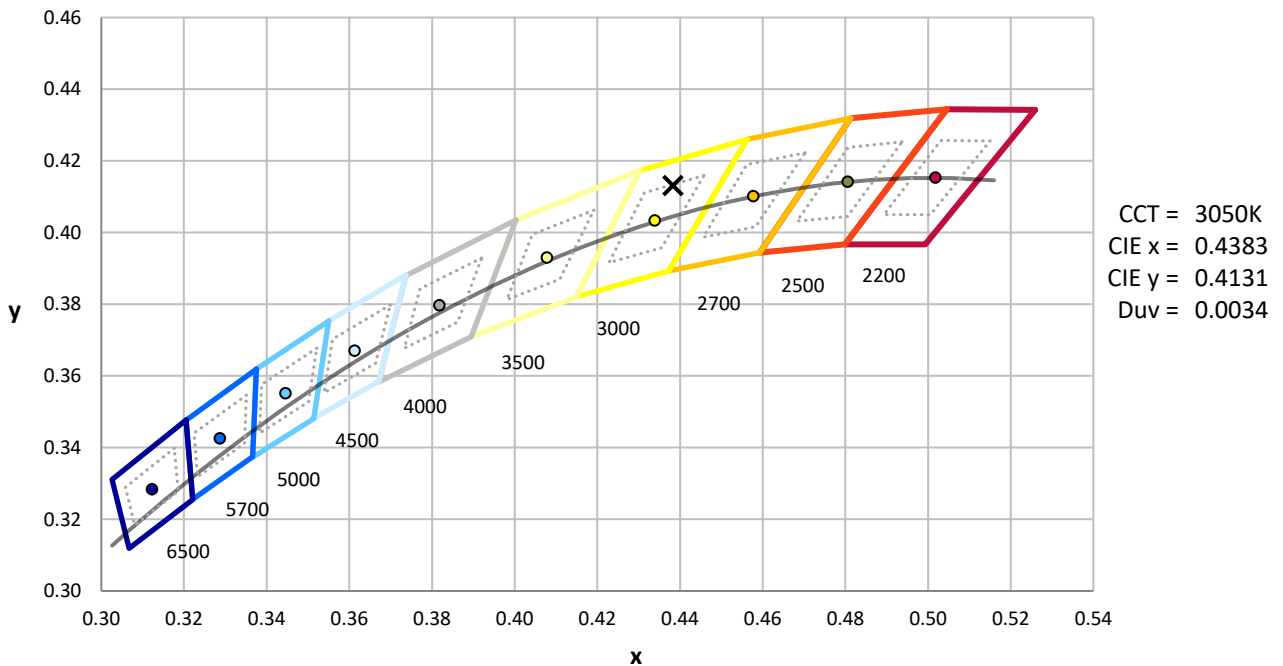
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



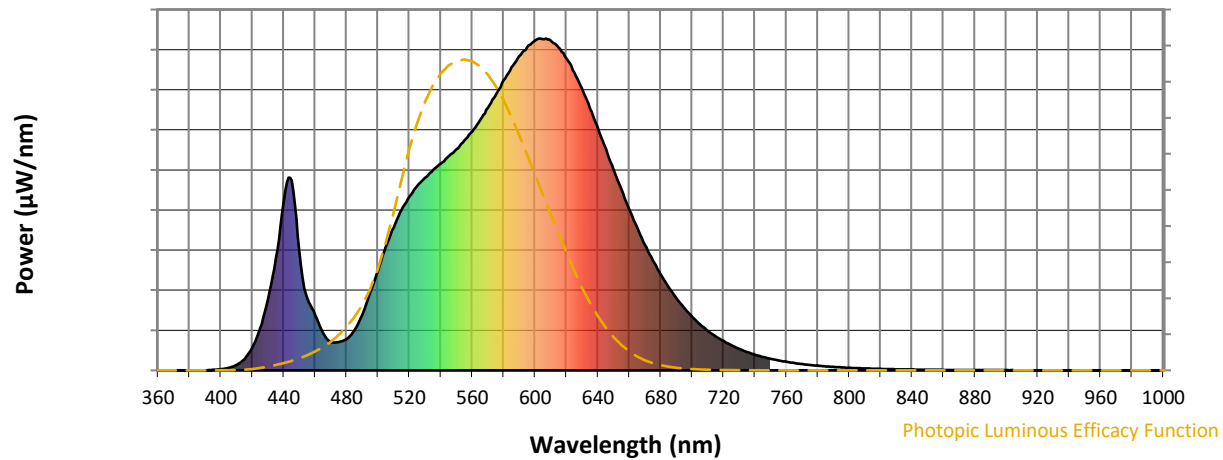
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

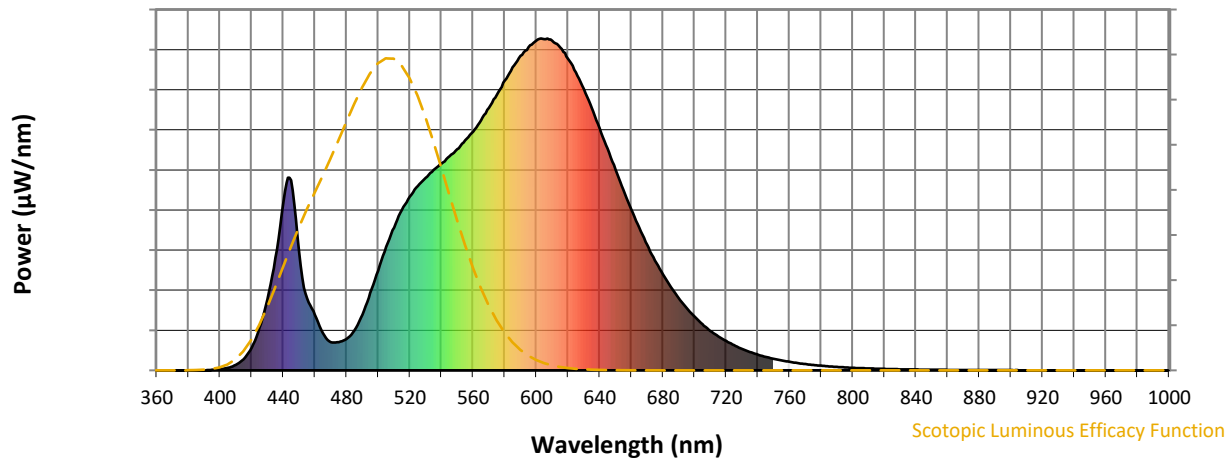


Photopic Lumens: NR

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



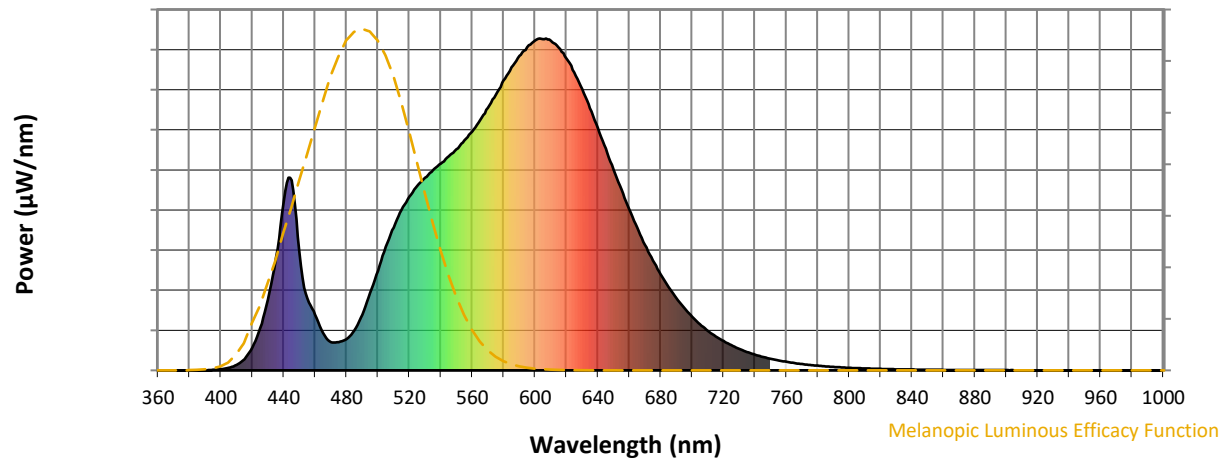
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /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	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

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

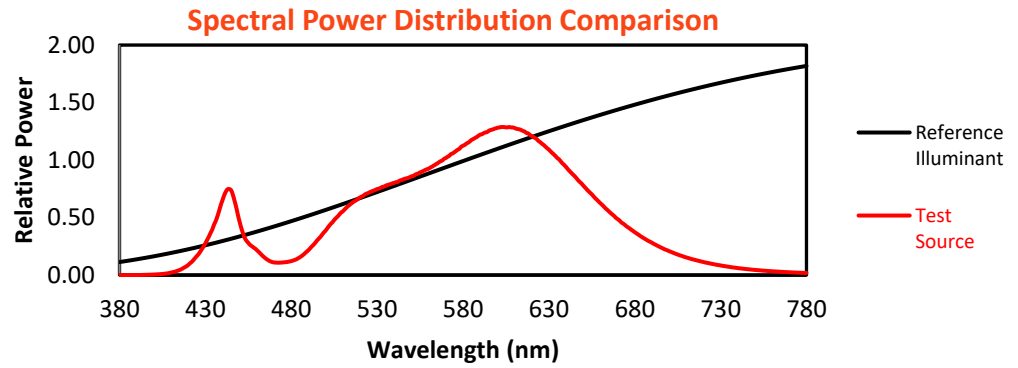
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168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

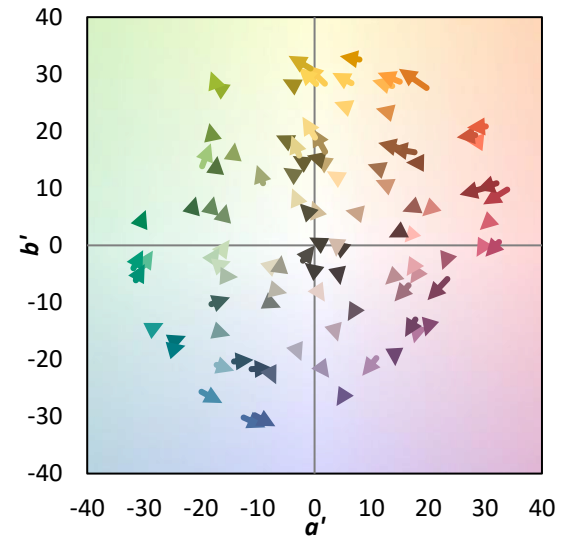
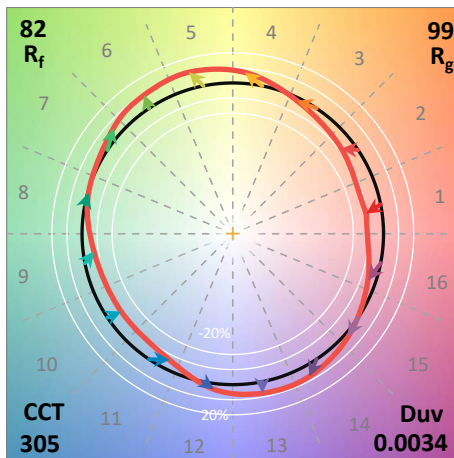
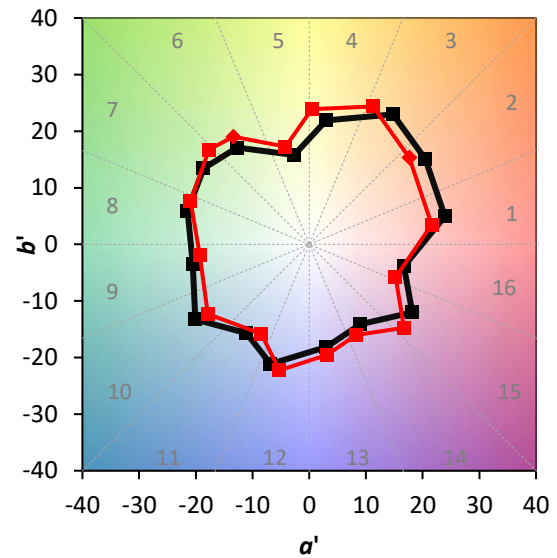
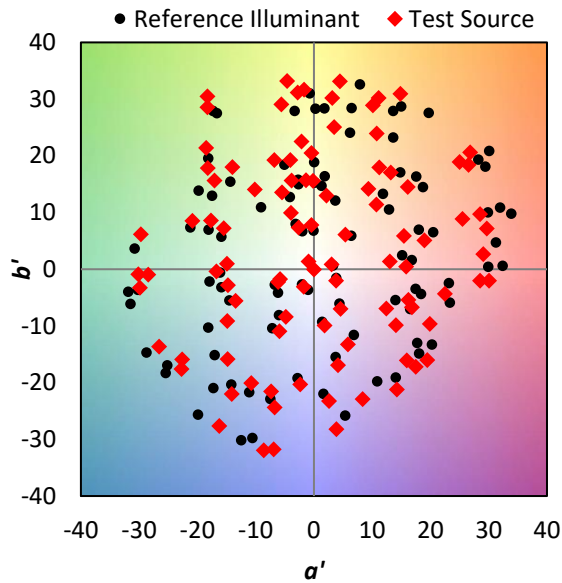
TM-30-18

Summary

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

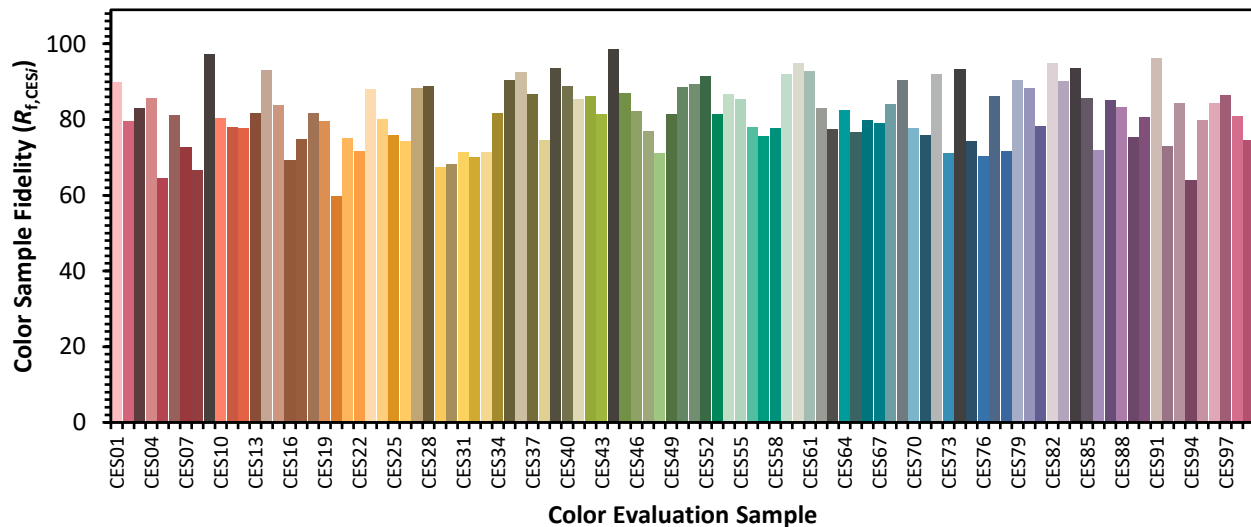


Color Vector Graphics

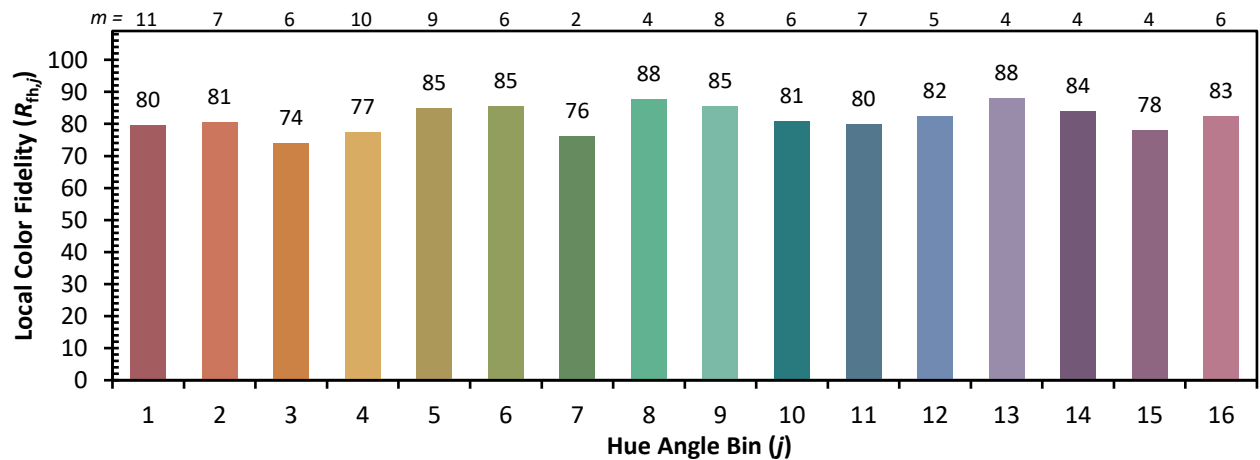
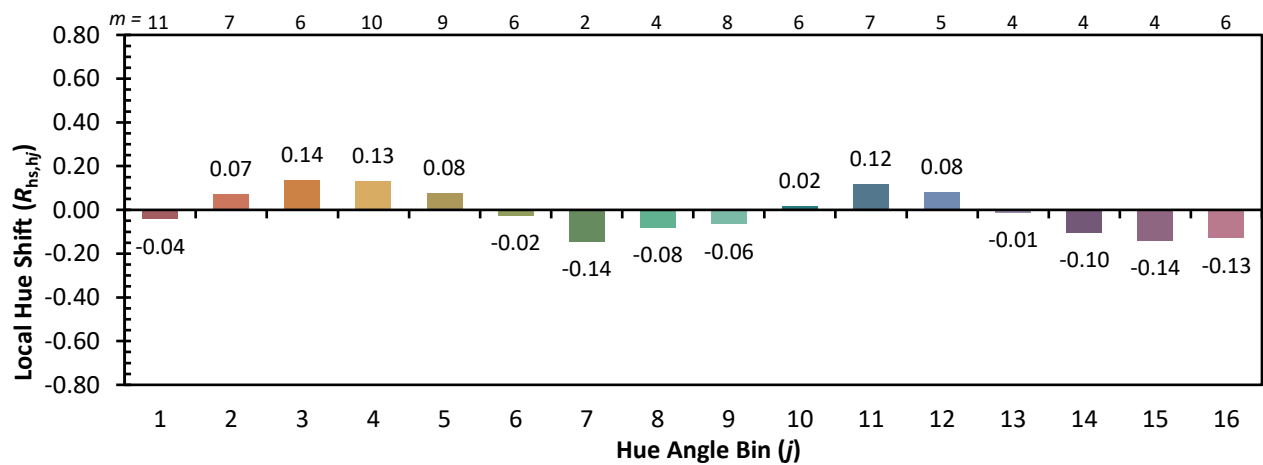
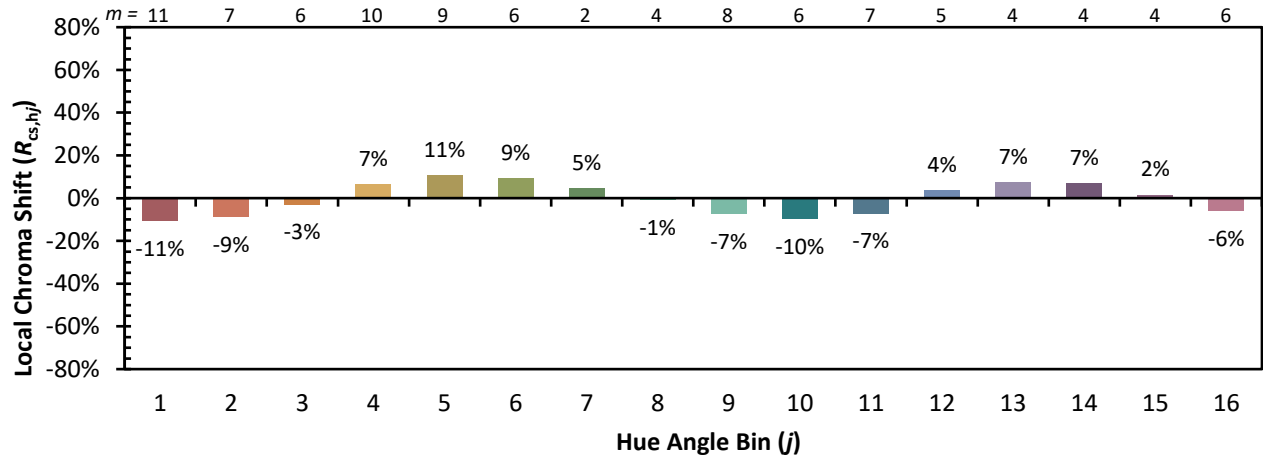


Individual Sample Fidelity Index ($R_{f,i}$)

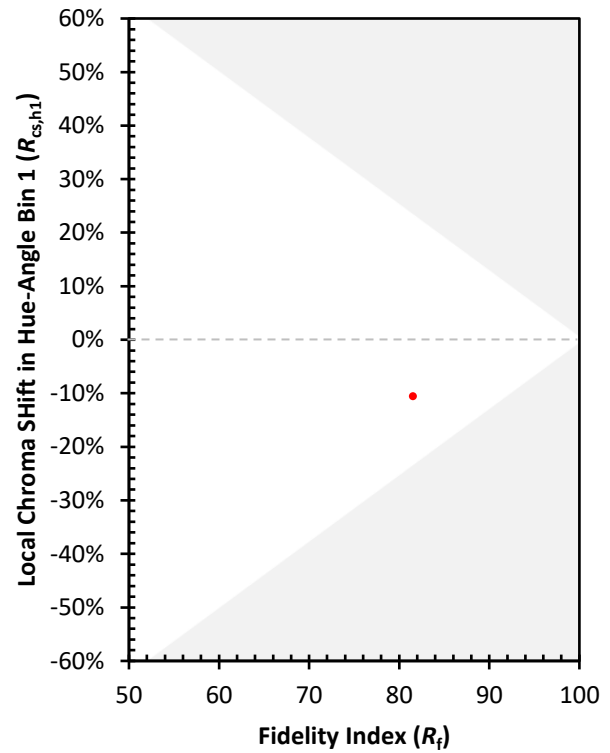
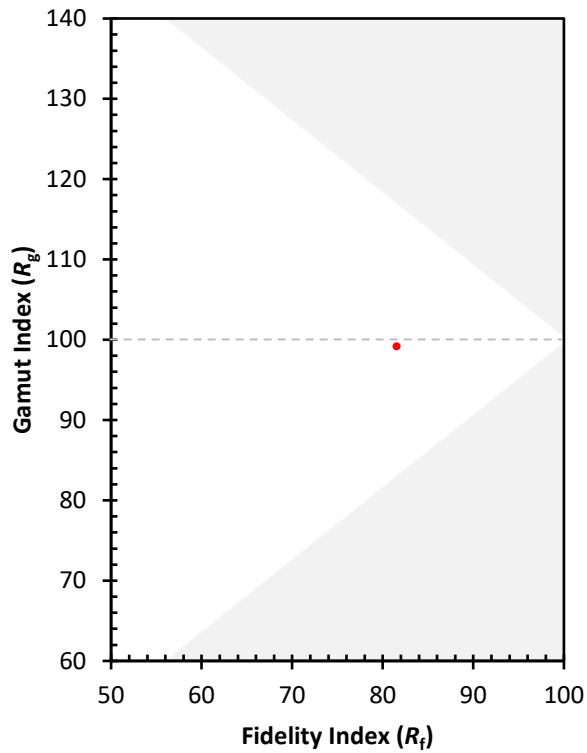
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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