

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: P1049565

Luminaire Tested: **GALN-SA9A-727-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049565
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 9xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26675.4 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

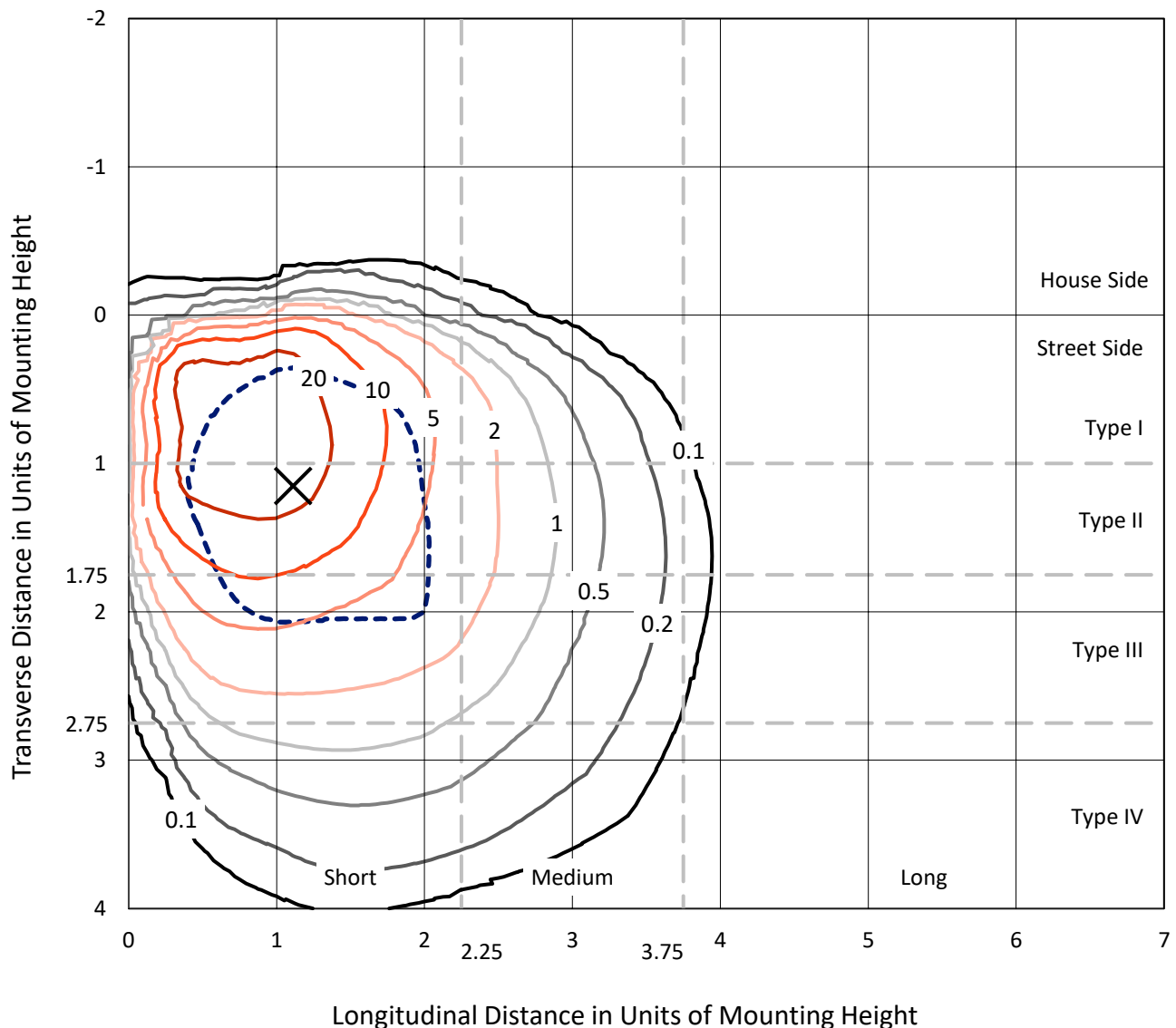
Input Watts (W): 244.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

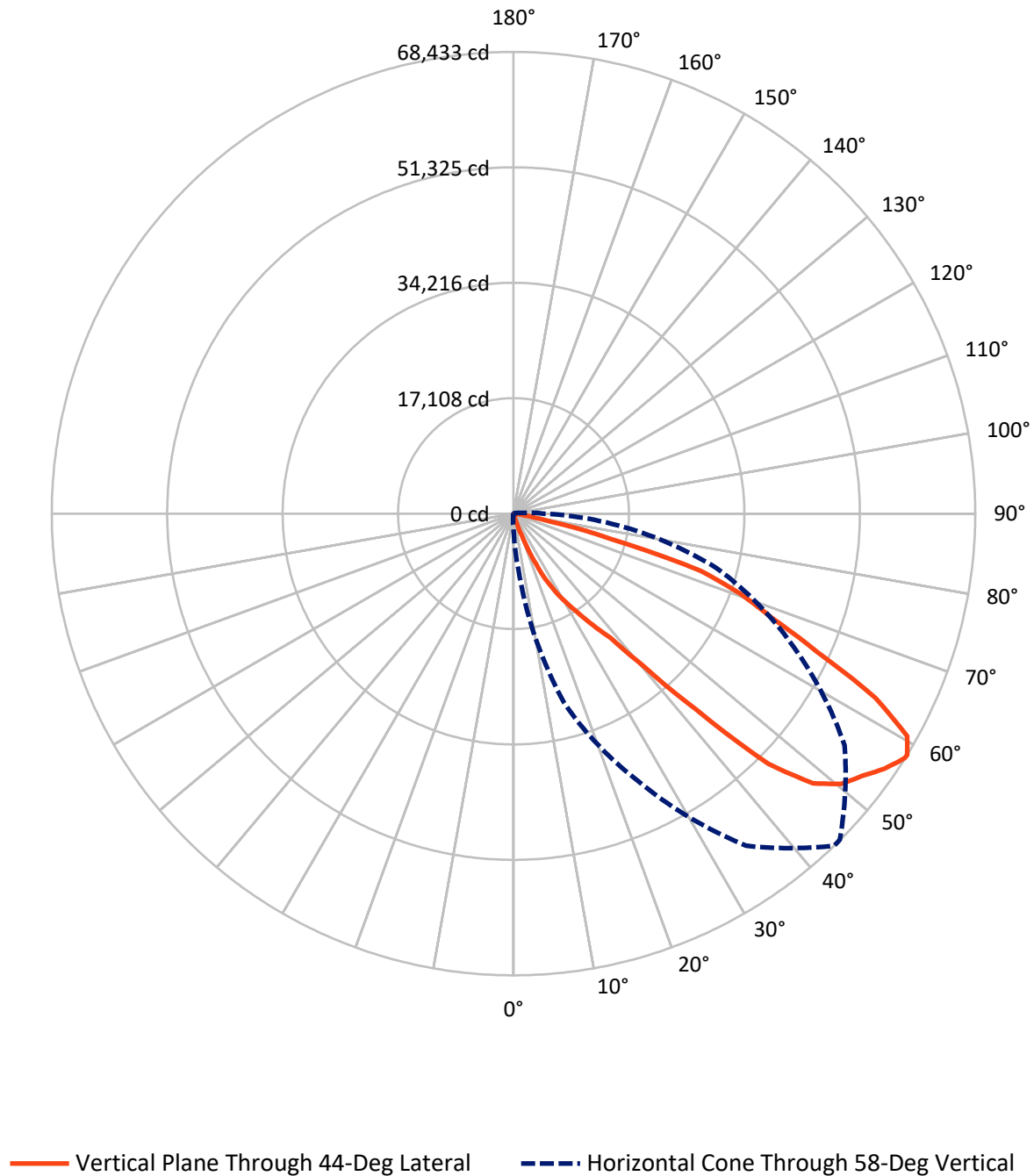
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 46.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	182.1	0.0	182.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	26493.3	0.0	26493.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	26675.4	0.0	26675.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.4	0.0
10°-20°	58.5	0.2
20°-30°	631.9	2.4
30°-40°	1868.9	7.0
40°-50°	5570.3	20.9
50°-60°	8838.7	33.1
60°-70°	7372.5	27.6
70°-80°	2273.8	8.5
80°-90°	50.5	0.2
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°	26675.4	100.0
0°-180°	26675.4	100.0



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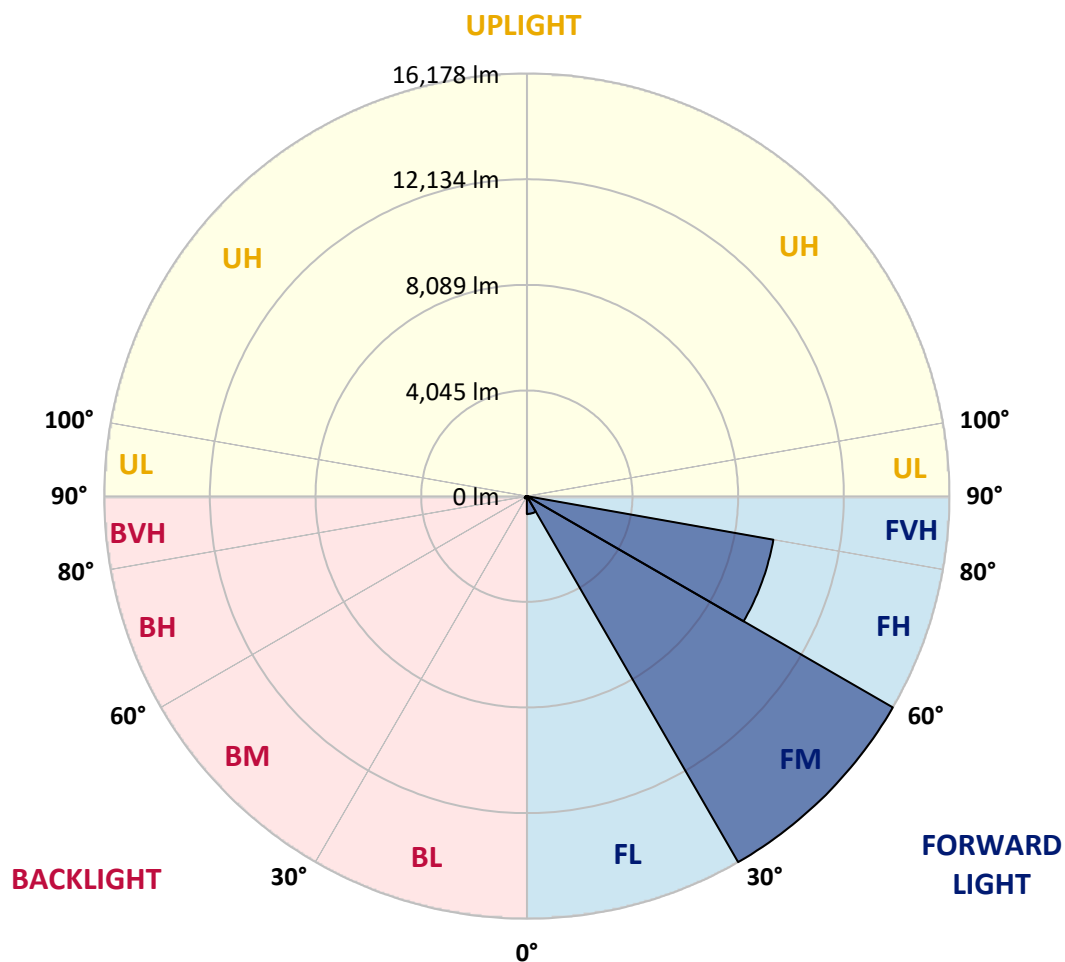
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	683.1	2.6			
FM	(30°-60°)	16178.1	60.6			
FH	(60°-80°)	9584.1	35.9			G4/12000
FVH	(80°-90°)	48.1	0.2			G1/100
BL	(0°-30°)	17.8	0.1	B0/110		
BM	(30°-60°)	99.7	0.4	B0/220		
BH	(60°-80°)	62.2	0.2	B0/110		G0/110
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9
2.5°	151.1	151.1	145.1	137.0	129.0	120.9	118.9	114.9	112.8	110.8	108.8
5°	157.2	157.2	155.2	149.1	141.1	135.0	135.0	129.0	124.9	120.9	116.9
7.5°	161.2	163.2	167.3	165.2	161.2	155.2	155.2	151.1	145.1	135.0	129.0
10°	167.3	173.3	181.4	185.4	187.4	187.4	185.4	183.4	173.3	159.2	143.1
12.5°	173.3	185.4	205.5	225.7	237.8	253.9	251.9	247.9	221.7	191.4	163.2
15°	185.4	203.5	245.8	304.3	395.0	451.4	473.5	453.4	366.7	257.9	189.4
17.5°	199.5	229.7	356.7	636.8	1043.8	1237.3	1354.1	1259.4	834.3	489.7	237.8
20°	213.6	280.1	663.0	1650.4	2708.3	3341.0	3516.4	3242.3	2081.6	933.0	352.6
22.5°	237.8	392.9	1344.1	3411.6	5835.7	6784.9	6964.2	6087.6	3931.5	1841.8	530.0
25°	288.2	570.3	2317.4	5559.7	8709.3	10311.3	10236.7	9088.1	6377.8	2942.1	806.0
27.5°	360.7	830.2	3504.3	7899.2	11461.9	12874.5	13043.8	11623.1	8501.7	4326.4	1144.6
30°	465.5	1150.6	4777.8	9773.3	13668.4	15195.9	15224.1	13755.1	10402.0	5541.5	1559.7
32.5°	566.2	1452.9	5892.2	11584.8	15842.7	17517.3	17642.2	15834.7	11820.6	6807.0	1920.4
35°	642.8	1650.4	7020.6	13176.8	18035.2	20342.5	20334.4	18188.3	13501.2	7937.5	2420.1
37.5°	648.9	1847.9	8042.3	14805.0	20812.0	23395.4	23651.3	21285.5	15532.4	9336.0	3032.7
40°	634.8	2069.5	9336.0	17344.0	25815.5	29779.2	30004.9	27022.5	19607.0	11729.9	3989.9
42.5°	650.9	2454.4	11435.7	22033.1	34123.8	39816.4	40251.7	37116.2	27097.1	16614.5	5696.7
45°	735.5	3177.8	15834.7	29877.9	45966.5	52906.5	52761.5	48245.6	35812.4	24050.3	9074.0
47.5°	1015.6	4949.1	22355.6	37513.2	53535.3	59715.6	59840.5	54321.2	40898.5	29767.1	13622.1
50°	1561.7	7572.8	27834.6	41549.4	56789.7	62990.1	62873.3	56495.4	42831.0	32582.2	16409.0
52.5°	2031.2	9471.0	30583.2	42966.0	57206.8	64608.3	64600.2	57067.7	43131.3	32824.0	16757.6
55°	2148.1	9614.1	30605.4	43042.6	58141.8	66726.1	66992.1	58476.3	43520.2	31768.1	15445.8
57.5°	2101.8	8511.8	29327.8	43485.9	59806.3	68364.4	68378.5	59840.5	44507.6	31121.3	13273.5
58°	2061.5	8338.5	29069.9	43737.8	60092.4	68432.9	68398.7	59903.0	45311.6	31097.1	12932.9
60°	1835.8	7240.3	28064.3	44380.6	59667.2	67026.4	66706.0	58538.8	45192.7	30849.2	11218.1
62.5°	1442.8	5648.3	27074.9	43637.1	55109.1	60217.3	60350.3	51826.5	41198.8	29404.4	9196.9
65°	1148.6	4209.6	25011.5	38276.9	45380.1	49450.6	49946.4	42143.9	34387.7	24898.6	6780.8
67.5°	914.9	3042.8	20981.3	30474.4	35909.1	41271.3	41632.0	35383.2	26641.7	19077.0	4818.1
70°	743.6	2057.4	14482.6	22287.0	29618.0	35647.2	35669.4	29394.3	19885.0	12499.7	3022.7
72.5°	658.9	1424.7	8407.0	16253.8	24016.0	29047.7	28461.3	23852.8	15282.5	7403.5	1801.5
75°	570.3	945.1	4122.9	9936.5	14561.1	14659.9	14883.6	11064.9	7639.3	3520.4	1080.1
77.5°	469.5	671.0	1624.2	2714.3	4366.7	5589.9	5797.5	4392.9	2541.0	866.5	576.3
80°	322.4	318.4	437.3	832.2	1249.4	1565.7	1461.0	1130.5	665.0	332.5	205.5
82.5°	139.0	151.1	197.5	237.8	193.4	187.4	179.3	114.9	88.7	68.5	42.3
85°	44.3	40.3	42.3	42.3	34.3	26.2	26.2	12.1	0.0	0.0	0.0
87.5°	22.2	18.1	18.1	16.1	10.1	4.0	2.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9
2.5°	106.8	106.8	102.8	98.7	96.7	92.7	90.7	88.7	86.6	84.6	82.6
5°	112.8	110.8	104.8	98.7	92.7	86.6	82.6	78.6	74.6	72.5	70.5
7.5°	122.9	118.9	106.8	96.7	88.7	80.6	76.6	70.5	66.5	60.5	58.4
10°	135.0	127.0	110.8	98.7	86.6	76.6	70.5	64.5	58.4	50.4	48.4
12.5°	151.1	137.0	116.9	96.7	82.6	70.5	64.5	56.4	50.4	44.3	40.3
15°	165.2	147.1	118.9	96.7	78.6	64.5	56.4	48.4	42.3	34.3	30.2
17.5°	185.4	155.2	116.9	90.7	72.5	56.4	48.4	42.3	32.2	20.2	16.1
20°	219.6	161.2	112.8	84.6	62.5	46.3	36.3	28.2	14.1	4.0	0.0
22.5°	274.1	177.3	108.8	76.6	54.4	36.3	24.2	10.1	0.0	0.0	0.0
25°	378.8	205.5	108.8	72.5	48.4	26.2	8.1	0.0	0.0	0.0	0.0
27.5°	503.8	243.8	108.8	62.5	38.3	14.1	0.0	0.0	0.0	0.0	0.0
30°	630.7	286.1	108.8	54.4	30.2	2.0	0.0	0.0	0.0	0.0	0.0
32.5°	751.6	322.4	110.8	46.3	20.2	0.0	0.0	0.0	0.0	0.0	0.0
35°	874.6	328.5	108.8	40.3	12.1	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1031.7	316.4	102.8	36.3	6.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1269.5	322.4	96.7	34.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1708.8	348.6	88.7	34.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2954.1	467.5	80.6	36.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4886.6	840.3	78.6	36.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6236.7	1057.9	82.6	38.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6226.7	1178.8	86.6	40.3	8.1	0.0	0.0	0.0	0.0	0.0	0.0
55°	5535.5	1201.0	92.7	44.3	26.2	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4626.7	1096.2	106.8	54.4	48.4	0.0	0.0	0.0	0.0	0.0	0.0
58°	4465.5	1047.9	110.8	56.4	52.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	3659.4	854.4	141.1	70.5	70.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2526.9	745.6	161.2	90.7	72.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	1787.4	673.0	175.3	96.7	58.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1336.0	620.7	193.4	98.7	30.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	1023.7	582.4	237.8	104.8	8.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	834.3	538.0	288.2	108.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	691.2	485.6	278.1	118.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	459.4	376.8	253.9	118.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	161.2	149.1	197.5	104.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.2	20.2	28.2	36.3	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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9
2.5°	82.6	82.6	80.6	82.6	82.6	86.6	96.7	110.8	127.0	133.0	139.0
5°	68.5	66.5	64.5	64.5	64.5	70.5	78.6	94.7	112.8	120.9	124.9
7.5°	56.4	54.4	52.4	50.4	50.4	54.4	64.5	82.6	100.8	108.8	114.9
10°	46.3	42.3	40.3	38.3	38.3	42.3	52.4	70.5	90.7	98.7	106.8
12.5°	38.3	32.2	28.2	26.2	24.2	30.2	40.3	56.4	78.6	88.7	96.7
15°	26.2	20.2	14.1	12.1	10.1	16.1	26.2	44.3	66.5	78.6	86.6
17.5°	14.1	6.0	2.0	0.0	0.0	4.0	12.1	32.2	54.4	64.5	74.6
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	40.3	50.4	60.5
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	24.2	34.3	44.3
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	18.1	26.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	12.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	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	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	12.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	16.1	22.2
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):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9
2.5°	143.1	141.1	137.0	133.0	133.0	133.0	139.0	145.1	151.1	151.1
5°	133.0	133.0	131.0	127.0	127.0	129.0	137.0	147.1	155.2	157.2
7.5°	122.9	127.0	122.9	120.9	122.9	124.9	133.0	145.1	157.2	161.2
10°	116.9	118.9	118.9	116.9	116.9	120.9	129.0	145.1	161.2	167.3
12.5°	108.8	112.8	110.8	110.8	110.8	114.9	124.9	143.1	165.2	173.3
15°	100.8	106.8	106.8	104.8	104.8	106.8	120.9	141.1	171.3	185.4
17.5°	92.7	98.7	100.8	96.7	96.7	100.8	114.9	141.1	175.3	199.5
20°	76.6	86.6	92.7	86.6	86.6	90.7	104.8	133.0	177.3	213.6
22.5°	60.5	70.5	78.6	76.6	76.6	78.6	96.7	127.0	179.3	237.8
25°	44.3	54.4	60.5	64.5	64.5	70.5	88.7	122.9	187.4	288.2
27.5°	26.2	38.3	46.3	50.4	52.4	60.5	82.6	118.9	201.5	360.7
30°	12.1	22.2	32.2	40.3	40.3	54.4	76.6	114.9	219.6	465.5
32.5°	0.0	10.1	16.1	28.2	30.2	44.3	70.5	110.8	245.8	566.2
35°	0.0	0.0	8.1	22.2	22.2	36.3	64.5	106.8	286.1	642.8
37.5°	0.0	0.0	0.0	16.1	18.1	32.2	62.5	104.8	294.2	648.9
40°	0.0	0.0	0.0	12.1	14.1	30.2	62.5	106.8	266.0	634.8
42.5°	0.0	0.0	0.0	8.1	10.1	30.2	62.5	110.8	239.8	650.9
45°	0.0	0.0	0.0	6.0	8.1	32.2	60.5	108.8	225.7	735.5
47.5°	0.0	0.0	0.0	8.1	12.1	32.2	58.4	106.8	227.7	1015.6
50°	0.0	0.0	0.0	10.1	14.1	32.2	60.5	102.8	249.9	1561.7
52.5°	0.0	0.0	0.0	8.1	12.1	36.3	66.5	100.8	272.0	2031.2
55°	0.0	0.0	0.0	2.0	6.0	46.3	72.5	100.8	306.3	2148.1
57.5°	0.0	0.0	0.0	0.0	0.0	52.4	82.6	106.8	362.7	2101.8
58°	0.0	0.0	0.0	0.0	0.0	52.4	84.6	106.8	366.7	2061.5
60°	0.0	0.0	0.0	0.0	0.0	52.4	92.7	118.9	395.0	1835.8
62.5°	0.0	0.0	0.0	0.0	0.0	44.3	110.8	149.1	411.1	1442.8
65°	0.0	0.0	0.0	0.0	0.0	36.3	131.0	163.2	423.2	1148.6
67.5°	0.0	0.0	0.0	0.0	0.0	34.3	135.0	165.2	429.2	914.9
70°	0.0	0.0	0.0	0.0	0.0	36.3	133.0	177.3	449.4	743.6
72.5°	0.0	0.0	0.0	0.0	0.0	40.3	120.9	195.5	449.4	658.9
75°	0.0	0.0	0.0	0.0	0.0	42.3	112.8	219.6	409.1	570.3
77.5°	0.0	0.0	0.0	0.0	0.0	40.3	110.8	255.9	364.7	469.5
80°	4.0	6.0	6.0	4.0	4.0	34.3	108.8	259.9	310.3	322.4
82.5°	12.1	16.1	14.1	10.1	10.1	30.2	96.7	217.6	161.2	139.0
85°	22.2	26.2	26.2	22.2	22.2	28.2	60.5	78.6	54.4	44.3
87.5°	30.2	34.3	34.3	30.2	30.2	28.2	26.2	24.2	22.2	22.2
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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

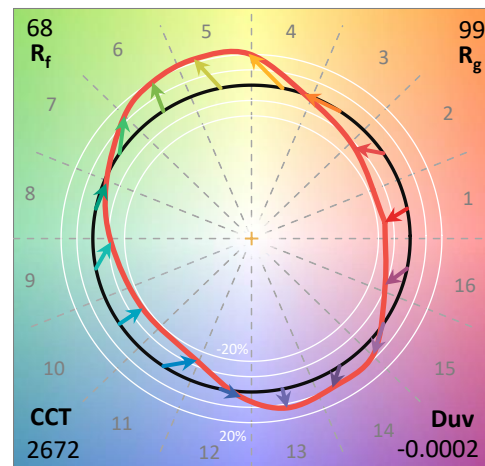
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

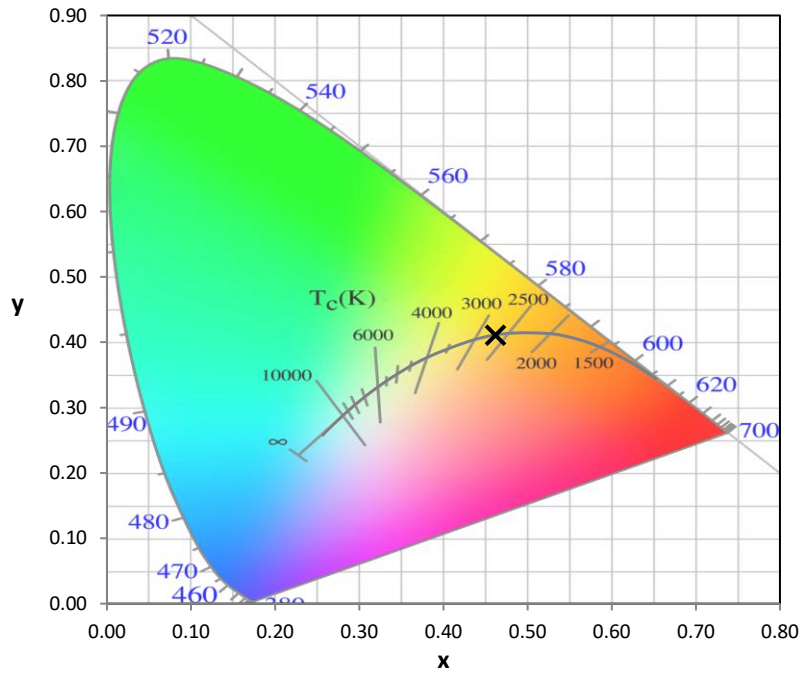
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

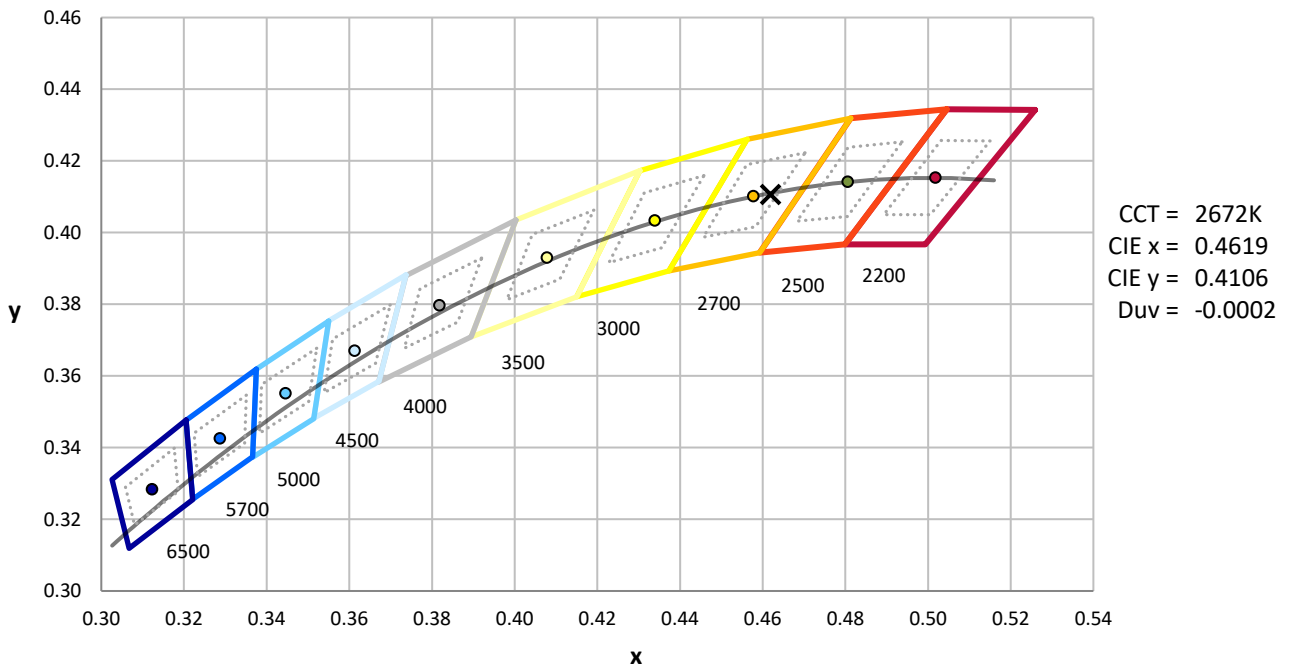
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram

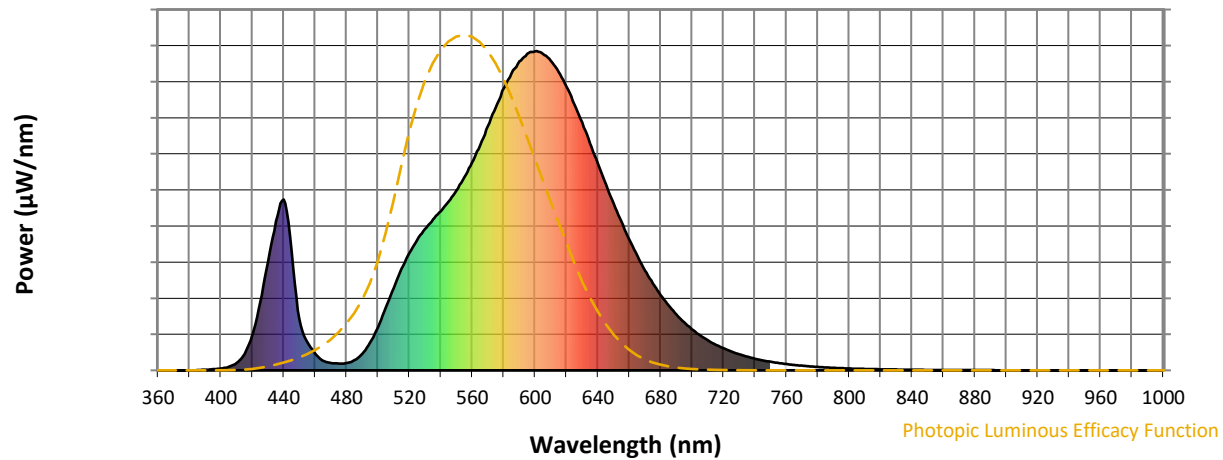


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

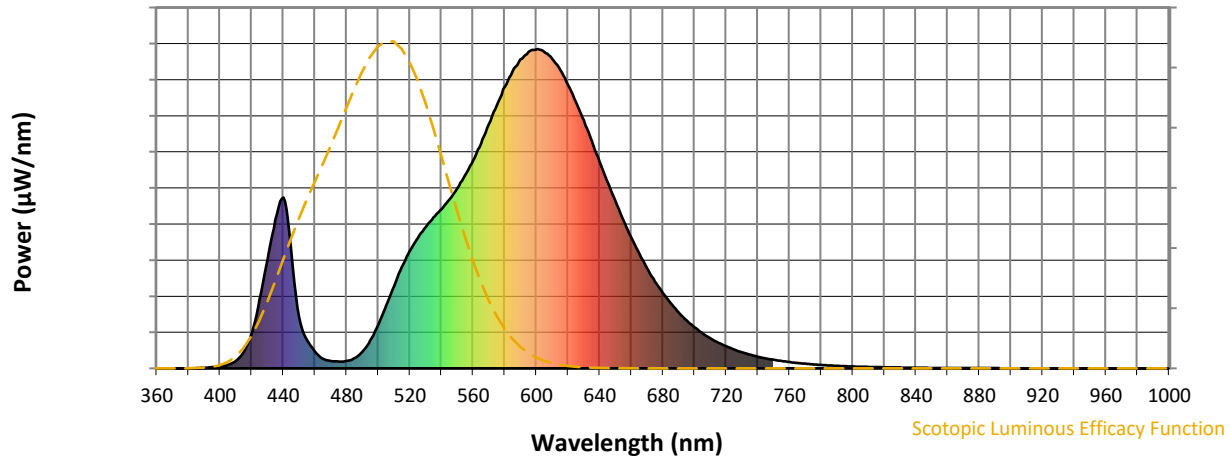


Photopic Lumens: NR

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength



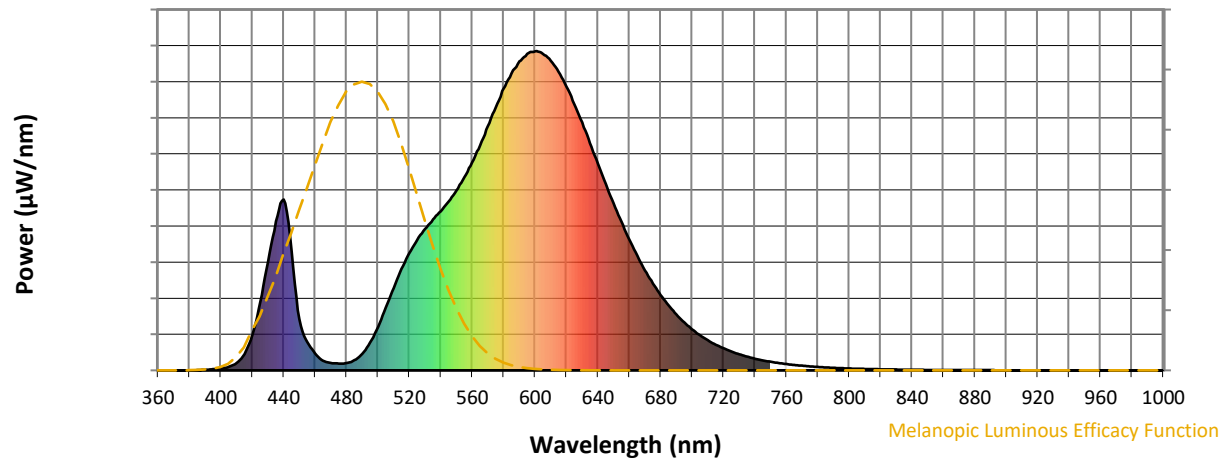
Scotopic Lumens: NR

S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

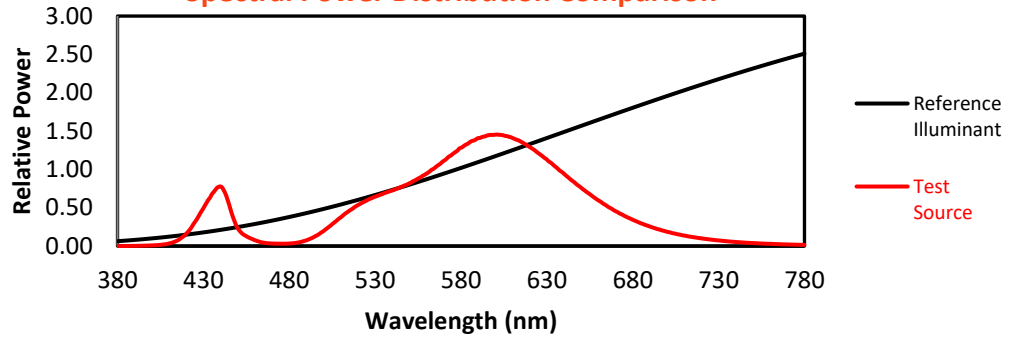
REPORT NUMBER: SP1-2407-184-3

TM-30-18

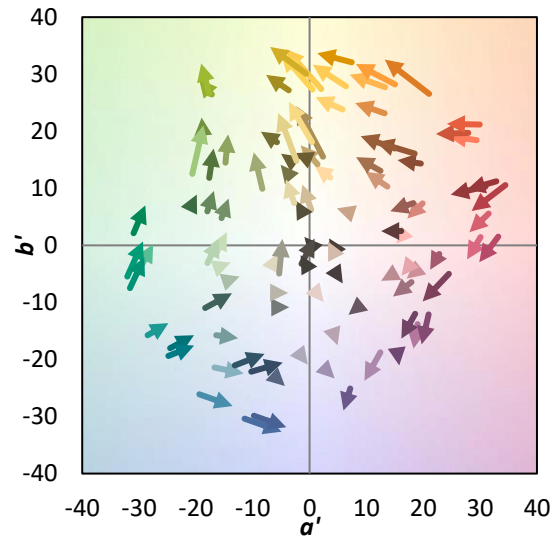
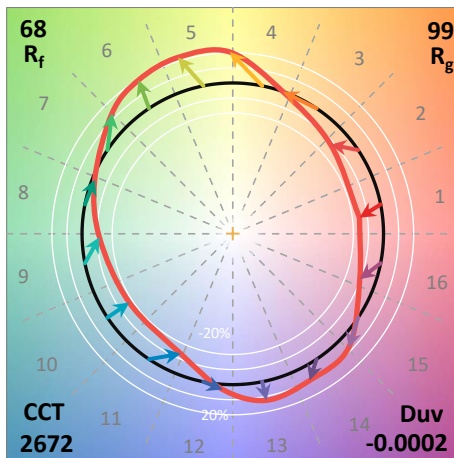
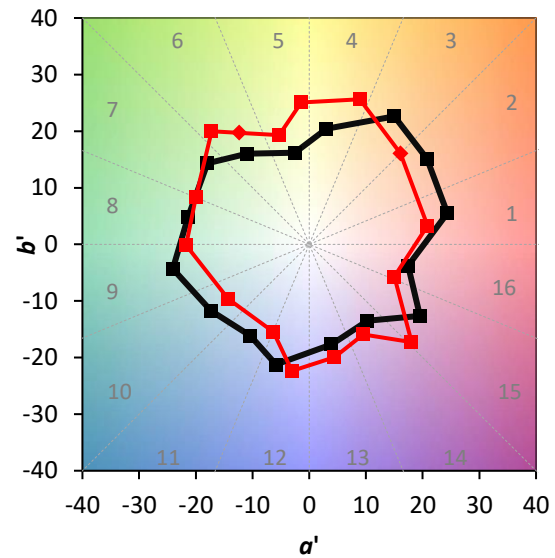
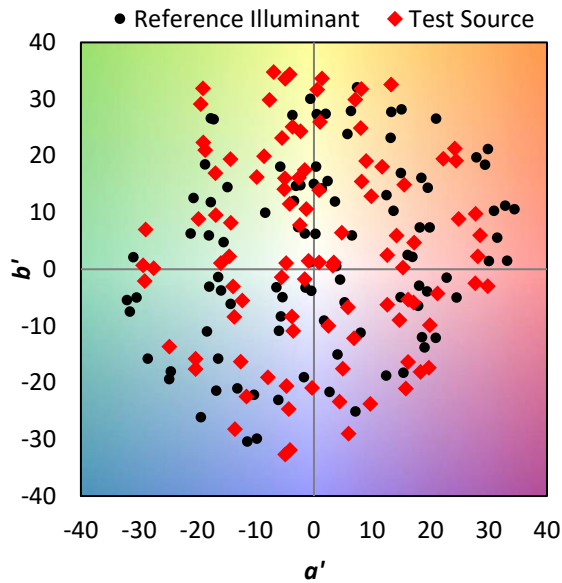
Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison

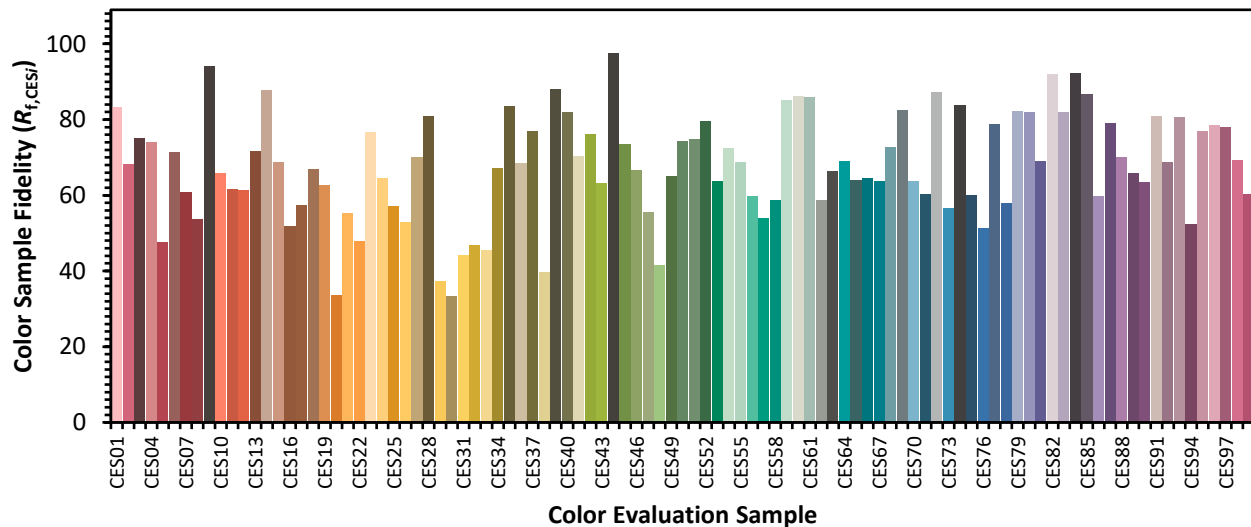


Color Vector Graphics

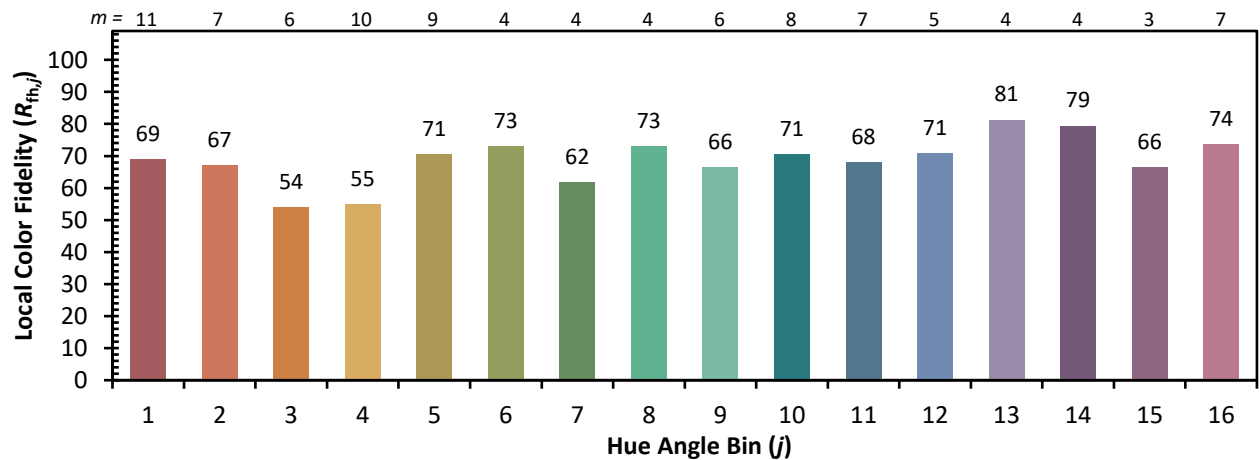
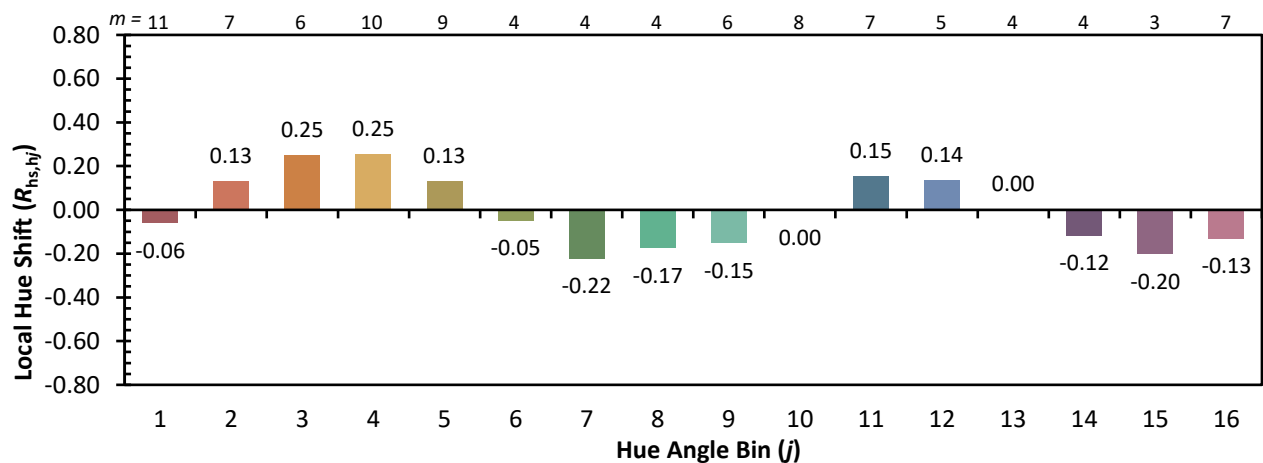
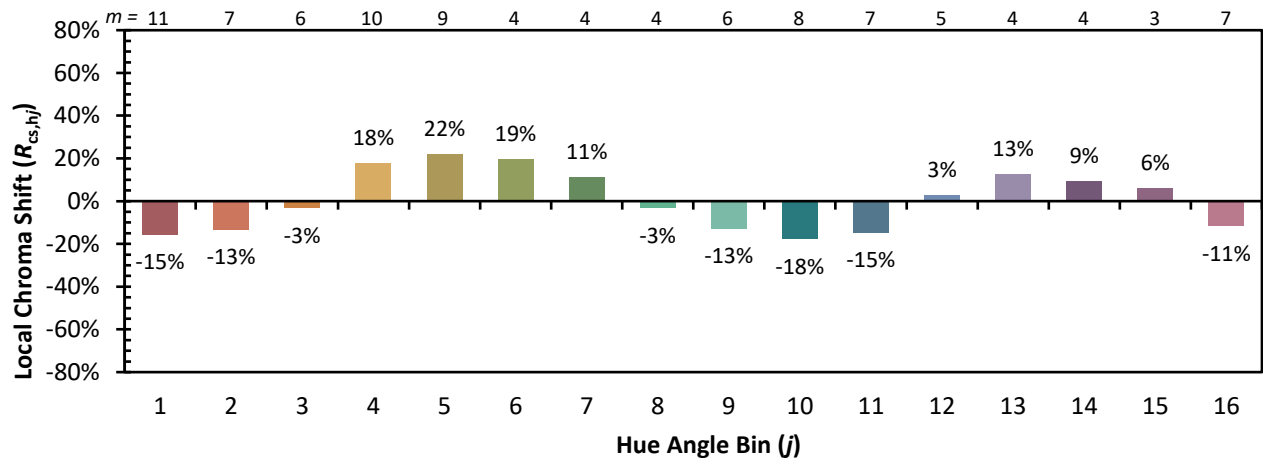


Individual Sample Fidelity Index ($R_{f,i}$)

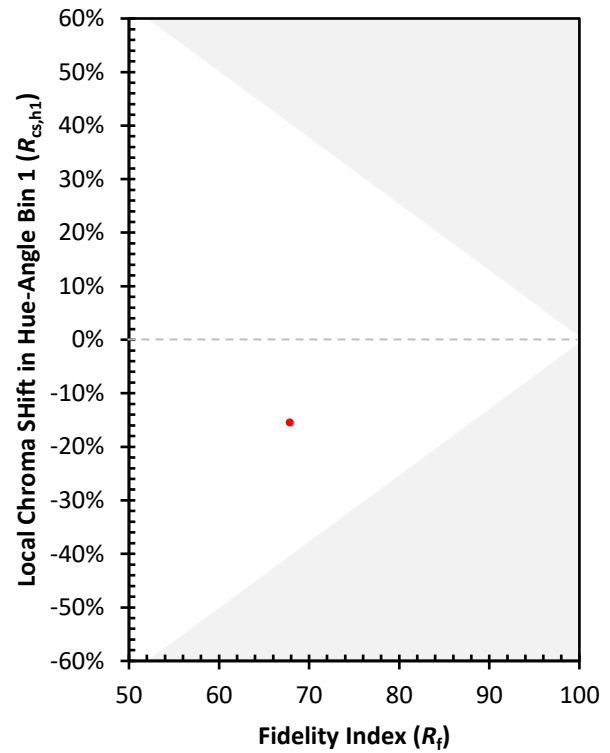
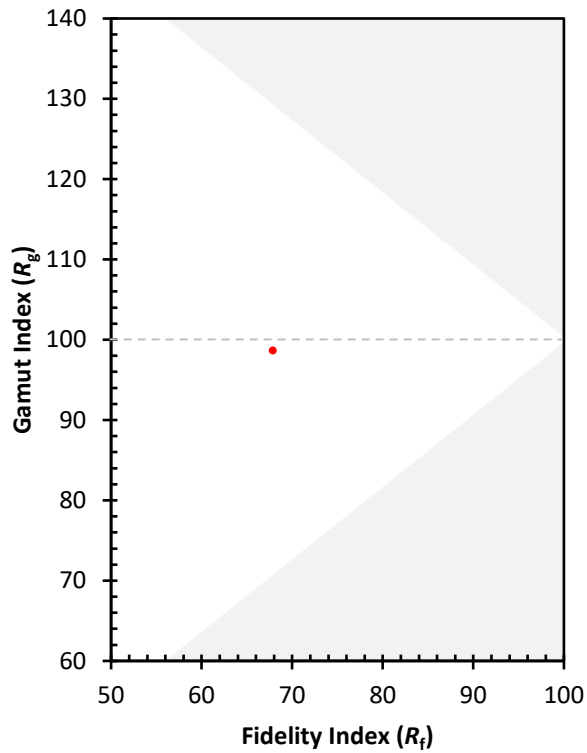
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)