

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: P1049853

Luminaire Tested: **GALN-SA9A-840-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049853
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-840-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 9xLight Square PACKAGE
80CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26751.8 lumens
Efficiency: N/A
Efficacy: 109.4 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

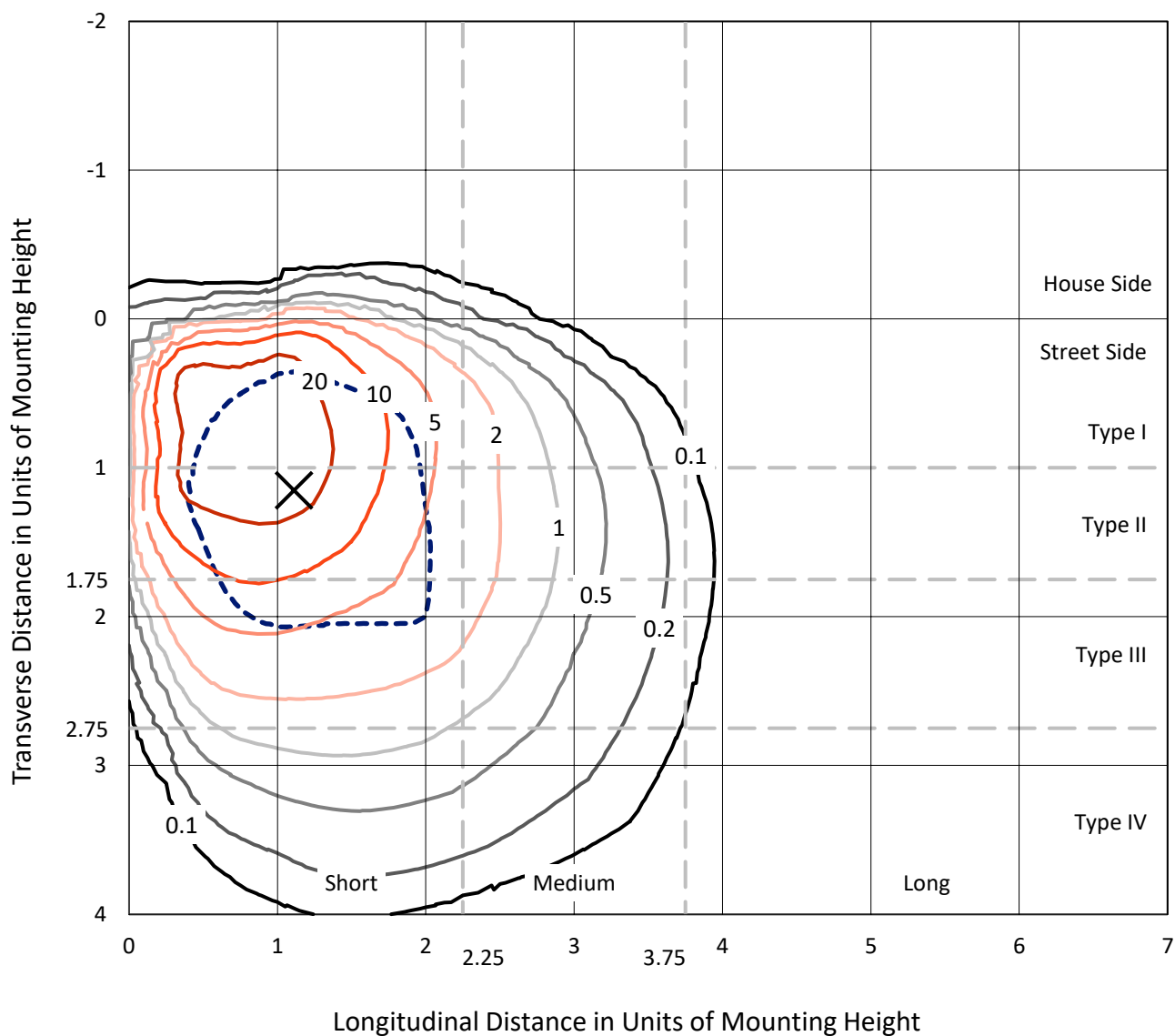
REPORT NUMBER: P1049853

CATALOG NUMBER: GALN-SA9A-840-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

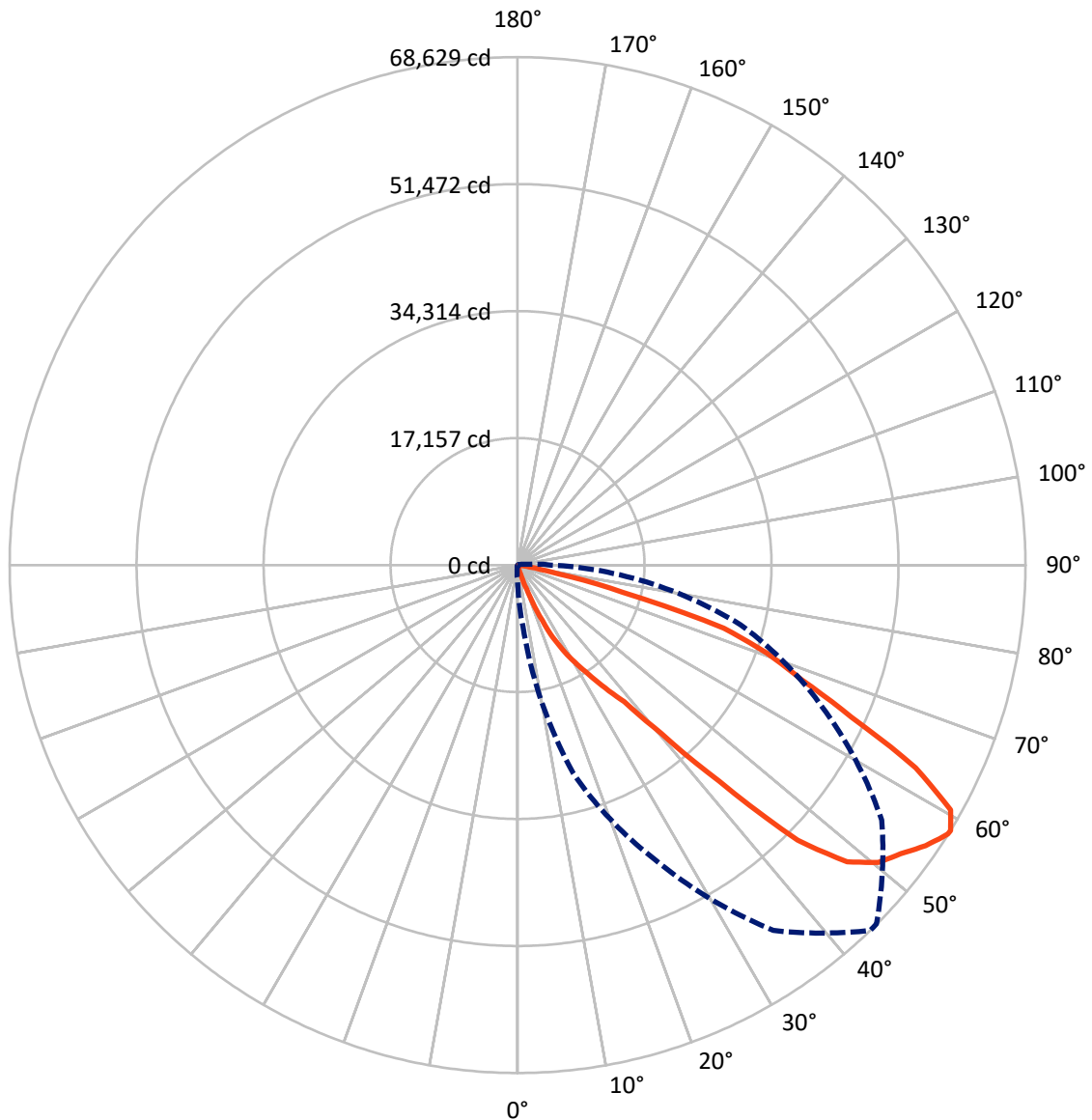


Based on 20 foot mounting height. Maximum calculated value = 46.6 fc

Type III - Short - N/A

REPORT NUMBER: P1049853
CATALOG NUMBER: GALN-SA9A-840-U-LBC

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

REPORT NUMBER: P1049853

CATALOG NUMBER: GALN-SA9A-840-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	182.7	0.0	182.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	26569.1	0.0	26569.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	26751.8	0.0	26751.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.0
10°-20°	58.7	0.2
20°-30°	633.7	2.4
30°-40°	1874.2	7.0
40°-50°	5586.2	20.9
50°-60°	8863.9	33.1
60°-70°	7393.6	27.6
70°-80°	2280.3	8.5
80°-90°	50.6	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°	26751.8	100.0
0°-180°	26751.8	100.0



REPORT NUMBER: P1049853

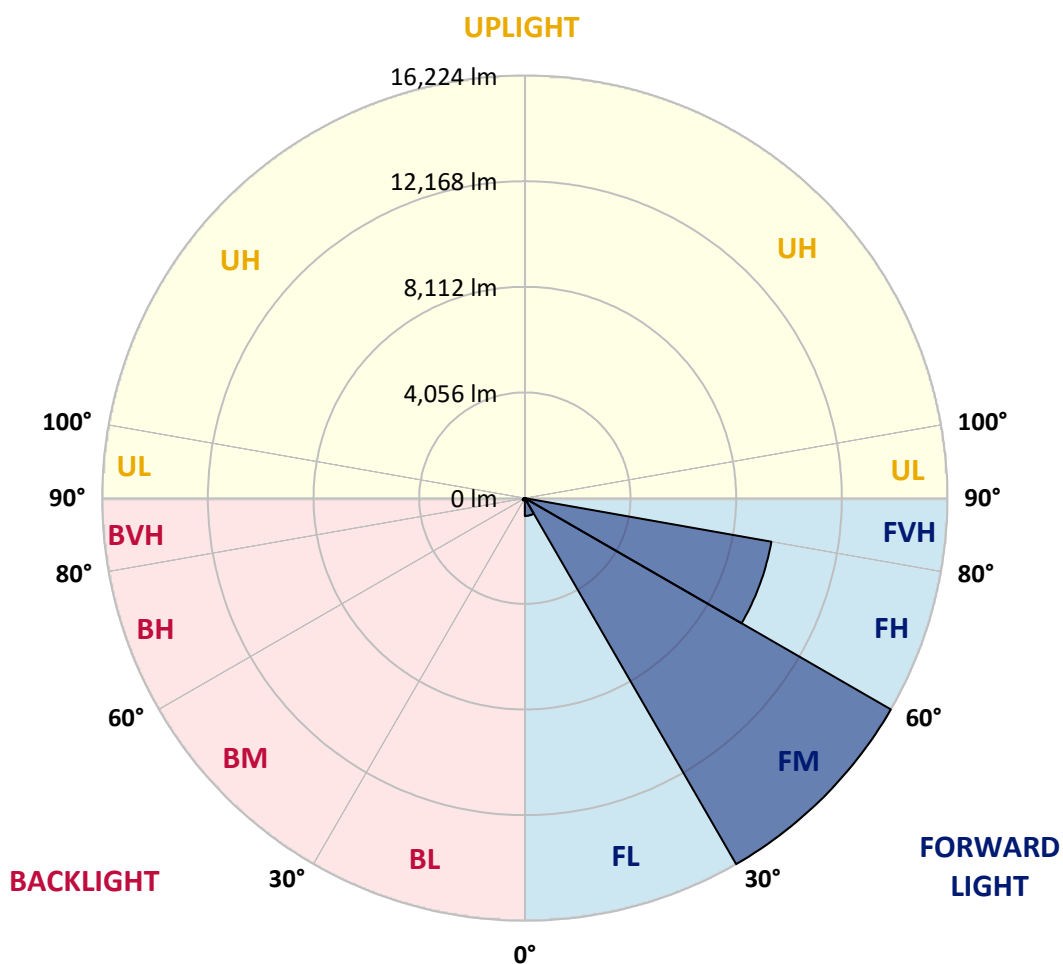
CATALOG NUMBER: GALN-SA9A-840-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	685.0	2.6			
FM	(30°-60°)	16224.4	60.6			
FH	(60°-80°)	9611.5	35.9			G4/12000
FVH	(80°-90°)	48.2	0.2			G1/100
BL	(0°-30°)	17.9	0.1	B0/110		
BM	(30°-60°)	100.0	0.4	B0/220		
BH	(60°-80°)	62.4	0.2	B0/110		G0/110
BVH	(80°-90°)	2.5	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



REPORT NUMBER: P1049853

CATALOG NUMBER: GALN-SA9A-840-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	117.2	117.2	117.2	117.2	117.2	117.2	117.2	117.2	117.2	117.2
2.5°	151.6	151.6	145.5	137.4	129.3	121.3	119.2	115.2	113.2	111.1
5°	157.6	157.6	155.6	149.5	141.5	135.4	135.4	129.3	125.3	121.3
7.5°	161.7	163.7	167.7	165.7	161.7	155.6	155.6	151.6	145.5	135.4
10°	167.7	173.8	181.9	185.9	187.9	187.9	185.9	183.9	173.8	159.6
12.5°	173.8	185.9	206.1	226.3	238.5	254.6	252.6	248.6	222.3	192.0
15°	185.9	204.1	246.5	305.2	396.1	452.7	474.9	454.7	367.8	258.7
17.5°	200.1	230.4	357.7	638.6	1046.8	1240.8	1358.0	1263.0	836.6	491.1
20°	214.2	280.9	664.9	1655.1	2716.0	3350.6	3526.4	3251.6	2087.6	935.7
22.5°	238.5	394.1	1347.9	3421.3	5852.4	6804.3	6984.1	6105.0	3942.7	1847.1
25°	289.0	571.9	2324.0	5575.6	8734.2	10340.8	10266.0	9114.1	6396.0	2950.5
27.5°	361.7	832.6	3514.3	7921.8	11494.7	12911.3	13081.1	11656.4	8526.0	4338.8
30°	466.8	1153.9	4791.5	9801.2	13707.6	15239.4	15267.7	13794.5	10431.7	5557.4
32.5°	567.9	1457.0	5909.0	11618.0	15888.1	17567.4	17692.7	15880.0	11854.4	6826.5
35°	644.7	1655.1	7040.7	13214.5	18086.8	20400.7	20392.6	18240.4	13539.8	7960.2
37.5°	650.7	1853.1	8065.3	14847.3	20871.5	23462.3	23718.9	21346.4	15576.9	9362.7
40°	636.6	2075.4	9362.7	17393.6	25889.3	29864.4	30090.7	27099.8	19663.1	11763.5
42.5°	652.7	2461.4	11468.4	22096.2	34221.4	39930.3	40366.9	37222.4	27174.6	16662.1
45°	737.6	3186.9	15880.0	29963.4	46098.0	53057.9	52912.4	48383.6	35914.9	24119.1
47.5°	1018.5	4963.3	22419.5	37620.5	53688.4	59886.4	60011.7	54476.6	41015.6	29852.3
50°	1566.2	7594.4	27914.3	41668.3	56952.1	63170.3	63053.1	56657.1	42953.6	32675.4
52.5°	2037.0	9498.1	30670.7	43089.0	57370.4	64793.1	64785.0	57231.0	43254.7	32917.9
55°	2154.2	9641.6	30693.0	43165.8	58308.1	66917.0	67183.8	58643.6	43644.7	31859.0
57.5°	2107.8	8536.1	29411.7	43610.3	59977.4	68560.0	68574.1	60011.7	44634.9	31210.3
58°	2067.3	8362.4	29153.1	43863.0	60264.3	68628.7	68594.3	60074.4	45441.3	31186.0
60°	1841.0	7261.0	28144.6	44507.6	59837.9	67218.1	66896.8	58706.2	45322.0	30937.5
62.5°	1446.9	5664.5	27152.4	43761.9	55266.7	60389.6	60523.0	51974.7	41316.7	29488.5
65°	1151.9	4221.6	25083.0	38386.4	45510.0	49592.1	50089.3	42264.4	34486.1	24969.9
67.5°	917.5	3051.5	21041.3	30561.6	36011.9	41389.4	41751.1	35484.4	26717.9	19131.6
70°	745.7	2063.3	14524.0	22350.8	29702.7	35749.2	35771.4	29478.4	19941.9	12535.4
72.5°	660.8	1428.8	8431.1	16300.3	24084.7	29130.8	28542.8	23921.0	15326.3	7424.7
75°	571.9	947.8	4134.7	9964.9	14602.8	14701.8	14926.1	11096.6	7661.1	3530.5
77.5°	470.9	672.9	1628.8	2722.1	4379.2	5605.9	5814.0	4405.5	2548.3	869.0
80°	323.3	319.3	438.5	834.6	1252.9	1570.2	1465.1	1133.7	666.9	333.4
82.5°	139.4	151.6	198.0	238.5	194.0	187.9	179.9	115.2	88.9	68.7
85°	44.5	40.4	42.4	42.4	34.4	26.3	26.3	12.1	0.0	0.0
87.5°	22.2	18.2	18.2	16.2	10.1	4.0	2.0	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



REPORT NUMBER: P1049853

CATALOG NUMBER: GALN-SA9A-840-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
117.2	0°	117.2	117.2	117.2	117.2	117.2	117.2	117.2	117.2	117.2	117.2
109.1	2.5°	107.1	107.1	103.1	99.0	97.0	93.0	90.9	88.9	86.9	84.9
117.2	5°	113.2	111.1	105.1	99.0	93.0	86.9	82.9	78.8	74.8	72.8
129.3	7.5°	123.3	119.2	107.1	97.0	88.9	80.8	76.8	70.7	66.7	60.6
143.5	10°	135.4	127.3	111.1	99.0	86.9	76.8	70.7	64.7	58.6	50.5
163.7	12.5°	151.6	137.4	117.2	97.0	82.9	70.7	64.7	56.6	50.5	44.5
190.0	15°	165.7	147.5	119.2	97.0	78.8	64.7	56.6	48.5	42.4	34.4
238.5	17.5°	185.9	155.6	117.2	90.9	72.8	56.6	48.5	42.4	32.3	20.2
353.7	20°	220.3	161.7	113.2	84.9	62.6	46.5	36.4	28.3	14.1	4.0
531.5	22.5°	274.8	177.8	109.1	76.8	54.6	36.4	24.3	10.1	0.0	0.0
808.3	25°	379.9	206.1	109.1	72.8	48.5	26.3	8.1	0.0	0.0	0.0
1147.9	27.5°	505.2	244.5	109.1	62.6	38.4	14.1	0.0	0.0	0.0	0.0
1564.2	30°	632.5	287.0	109.1	54.6	30.3	2.0	0.0	0.0	0.0	0.0
1925.9	32.5°	753.8	323.3	111.1	46.5	20.2	0.0	0.0	0.0	0.0	0.0
2427.1	35°	877.1	329.4	109.1	40.4	12.1	0.0	0.0	0.0	0.0	0.0
3041.4	37.5°	1034.7	317.3	103.1	36.4	6.1	0.0	0.0	0.0	0.0	0.0
4001.3	40°	1273.1	323.3	97.0	34.4	2.0	0.0	0.0	0.0	0.0	0.0
5713.0	42.5°	1713.7	349.6	88.9	34.4	0.0	0.0	0.0	0.0	0.0	0.0
9100.0	45°	2962.6	468.8	80.8	36.4	0.0	0.0	0.0	0.0	0.0	0.0
13661.1	47.5°	4900.6	842.7	78.8	36.4	0.0	0.0	0.0	0.0	0.0	0.0
16455.9	50°	6254.6	1061.0	82.9	38.4	0.0	0.0	0.0	0.0	0.0	0.0
16805.5	52.5°	6244.5	1182.2	86.9	40.4	8.1	0.0	0.0	0.0	0.0	0.0
15490.0	55°	5551.3	1204.4	93.0	44.5	26.3	0.0	0.0	0.0	0.0	0.0
13311.5	57.5°	4639.9	1099.4	107.1	54.6	48.5	0.0	0.0	0.0	0.0	0.0
12969.9	58°	4478.2	1050.9	111.1	56.6	52.5	0.0	0.0	0.0	0.0	0.0
11250.2	60°	3669.9	856.8	141.5	70.7	70.7	0.0	0.0	0.0	0.0	0.0
9223.2	62.5°	2534.2	747.7	161.7	90.9	72.8	0.0	0.0	0.0	0.0	0.0
6800.2	65°	1792.5	675.0	175.8	97.0	58.6	0.0	0.0	0.0	0.0	0.0
4831.9	67.5°	1339.8	622.4	194.0	99.0	30.3	0.0	0.0	0.0	0.0	0.0
3031.3	70°	1026.6	584.0	238.5	105.1	8.1	0.0	0.0	0.0	0.0	0.0
1806.7	72.5°	836.6	539.6	289.0	109.1	0.0	0.0	0.0	0.0	0.0	0.0
1083.2	75°	693.2	487.0	278.9	119.2	0.0	0.0	0.0	0.0	0.0	0.0
578.0	77.5°	460.8	377.9	254.6	119.2	0.0	0.0	0.0	0.0	0.0	0.0
206.1	80°	161.7	149.5	198.0	105.1	0.0	0.0	0.0	0.0	0.0	0.0
42.4	82.5°	24.3	20.2	28.3	36.4	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

REPORT NUMBER: P1049853

CATALOG NUMBER: GALN-SA9A-840-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
117.2	0°	117.2	117.2	117.2	117.2	117.2	117.2	117.2	117.2	117.2	117.2
82.9	2.5°	82.9	82.9	80.8	82.9	82.9	86.9	97.0	111.1	127.3	133.4
70.7	5°	68.7	66.7	64.7	64.7	64.7	70.7	78.8	95.0	113.2	121.3
58.6	7.5°	56.6	54.6	52.5	50.5	50.5	54.6	64.7	82.9	101.0	109.1
48.5	10°	46.5	42.4	40.4	38.4	38.4	42.4	52.5	70.7	90.9	99.0
40.4	12.5°	38.4	32.3	28.3	26.3	24.3	30.3	40.4	56.6	78.8	88.9
30.3	15°	26.3	20.2	14.1	12.1	10.1	16.2	26.3	44.5	66.7	78.8
16.2	17.5°	14.1	6.1	2.0	0.0	0.0	4.0	12.1	32.3	54.6	64.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2	40.4	50.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	24.3	34.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	18.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
0.0	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
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	16.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1049853

CATALOG NUMBER: GALN-SA9A-840-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
117.2	0°	117.2	117.2	117.2	117.2	117.2	117.2	117.2	117.2	117.2	117.2
139.4	2.5°	143.5	141.5	137.4	133.4	133.4	133.4	139.4	145.5	151.6	151.6
125.3	5°	133.4	133.4	131.4	127.3	127.3	129.3	137.4	147.5	155.6	157.6
115.2	7.5°	123.3	127.3	123.3	121.3	123.3	125.3	133.4	145.5	157.6	161.7
107.1	10°	117.2	119.2	119.2	117.2	117.2	121.3	129.3	145.5	161.7	167.7
97.0	12.5°	109.1	113.2	111.1	111.1	111.1	115.2	125.3	143.5	165.7	173.8
86.9	15°	101.0	107.1	107.1	105.1	105.1	107.1	121.3	141.5	171.8	185.9
74.8	17.5°	93.0	99.0	101.0	97.0	97.0	101.0	115.2	141.5	175.8	200.1
60.6	20°	76.8	86.9	93.0	86.9	86.9	90.9	105.1	133.4	177.8	214.2
44.5	22.5°	60.6	70.7	78.8	76.8	76.8	78.8	97.0	127.3	179.9	238.5
26.3	25°	44.5	54.6	60.6	64.7	64.7	70.7	88.9	123.3	187.9	289.0
12.1	27.5°	26.3	38.4	46.5	50.5	52.5	60.6	82.9	119.2	202.1	361.7
0.0	30°	12.1	22.2	32.3	40.4	40.4	54.6	76.8	115.2	220.3	466.8
0.0	32.5°	0.0	10.1	16.2	28.3	30.3	44.5	70.7	111.1	246.5	567.9
0.0	35°	0.0	0.0	8.1	22.2	22.2	36.4	64.7	107.1	287.0	644.7
0.0	37.5°	0.0	0.0	0.0	16.2	18.2	32.3	62.6	105.1	295.0	650.7
0.0	40°	0.0	0.0	0.0	12.1	14.1	30.3	62.6	107.1	266.8	636.6
0.0	42.5°	0.0	0.0	0.0	8.1	10.1	30.3	62.6	111.1	240.5	652.7
0.0	45°	0.0	0.0	0.0	6.1	8.1	32.3	60.6	109.1	226.3	737.6
0.0	47.5°	0.0	0.0	0.0	8.1	12.1	32.3	58.6	107.1	228.4	1018.5
0.0	50°	0.0	0.0	0.0	10.1	14.1	32.3	60.6	103.1	250.6	1566.2
0.0	52.5°	0.0	0.0	0.0	8.1	12.1	36.4	66.7	101.0	272.8	2037.0
0.0	55°	0.0	0.0	0.0	2.0	6.1	46.5	72.8	101.0	307.2	2154.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	52.5	82.9	107.1	363.8	2107.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	52.5	84.9	107.1	367.8	2067.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	52.5	93.0	119.2	396.1	1841.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	44.5	111.1	149.5	412.3	1446.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	36.4	131.4	163.7	424.4	1151.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	34.4	135.4	165.7	430.4	917.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	36.4	133.4	177.8	450.7	745.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	40.4	121.3	196.0	450.7	660.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	42.4	113.2	220.3	410.2	571.9
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	40.4	111.1	256.7	365.8	470.9
0.0	80°	4.0	6.1	6.1	4.0	4.0	34.4	109.1	260.7	311.2	323.3
2.0	82.5°	12.1	16.2	14.1	10.1	10.1	30.3	97.0	218.3	161.7	139.4
12.1	85°	22.2	26.3	26.3	22.2	22.2	28.3	60.6	78.8	54.6	44.5
22.2	87.5°	30.3	34.4	34.4	30.3	30.3	28.3	26.3	24.3	22.2	22.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

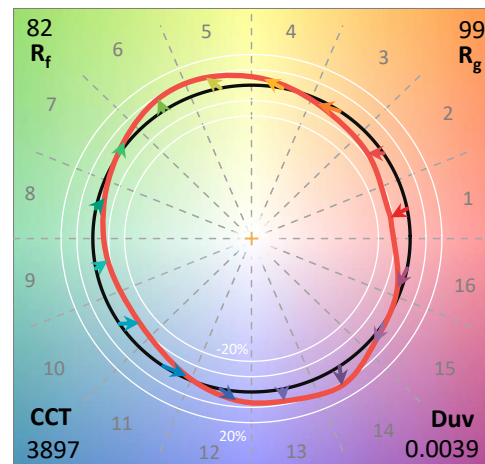
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-11
 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-840-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3897
 CIE u' : 0.2249
 CIE v' : 0.5084
 Duv: 0.0039
 CIE x: 0.3882
 CIE y: 0.3900
 CIE z: 0.2218
 Peak Wavelength (nm): 445
 Dominant Wavelength (nm): 577
 Purity: 33.54925
 R_f: 81.8
 R_g: 98.6

CRI (Ra): 80.2
 R1: 78.9
 R2: 83.5
 R3: 88.3
 R4: 82.1
 R5: 78.8
 R6: 78.4
 R7: 85.8
 R8: 65.8
 R9: 6.7
 R10: 61.9
 R11: 81.9
 R12: 58.9
 R13: 79.2
 R14: 93.2
 R15: 71.9



Test Conditions

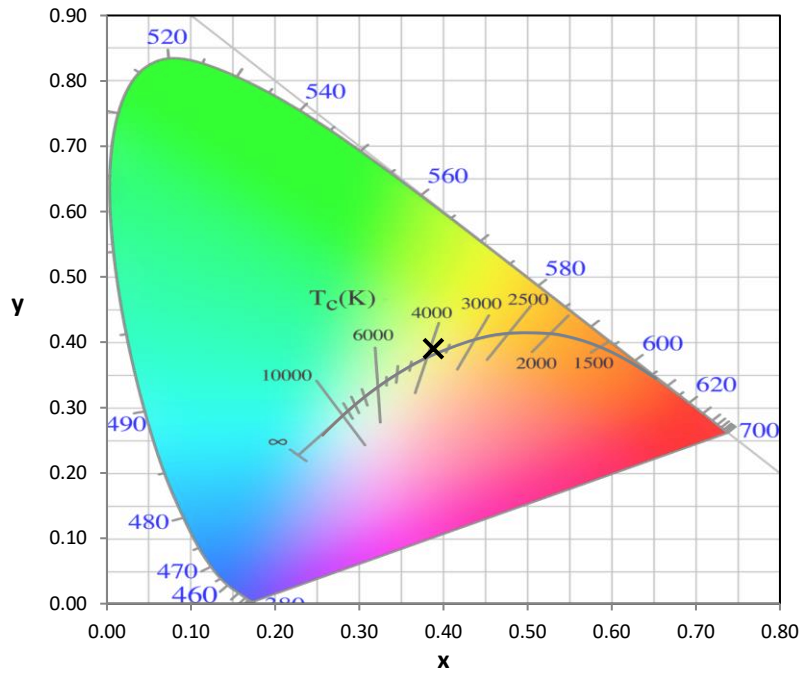
Stabilization Time: 24M
 Operation Time: 1H 24M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-11

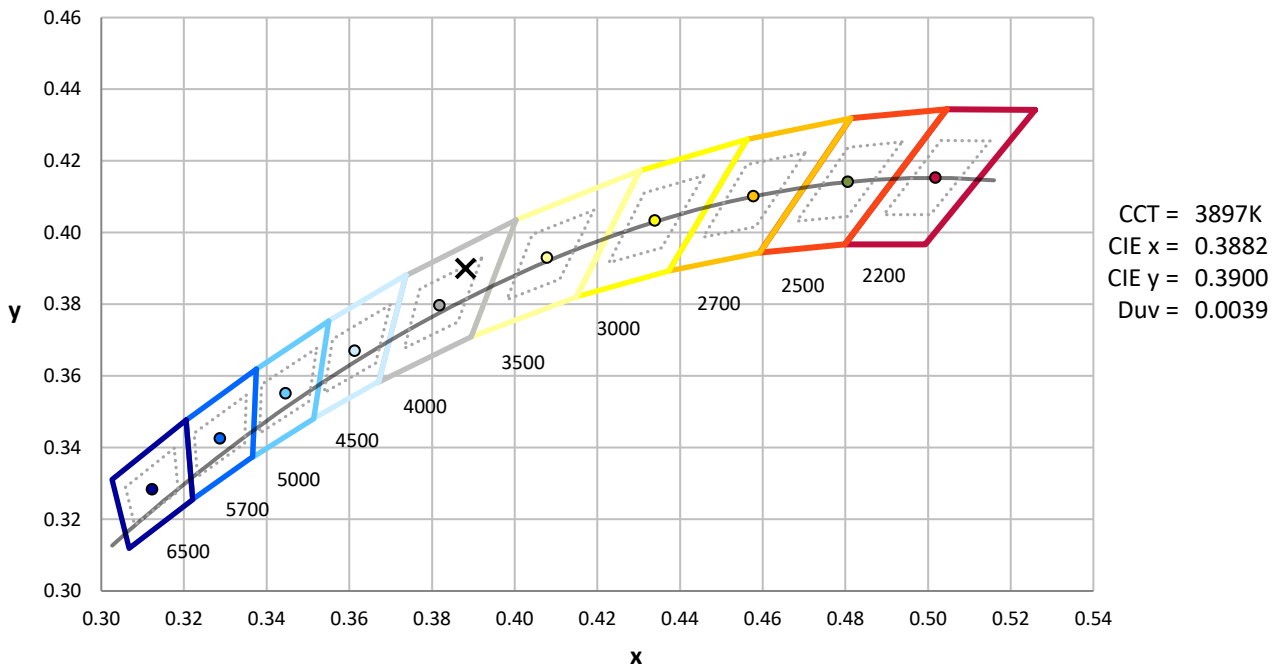
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-11

CIE 1931 Chromaticity Diagram



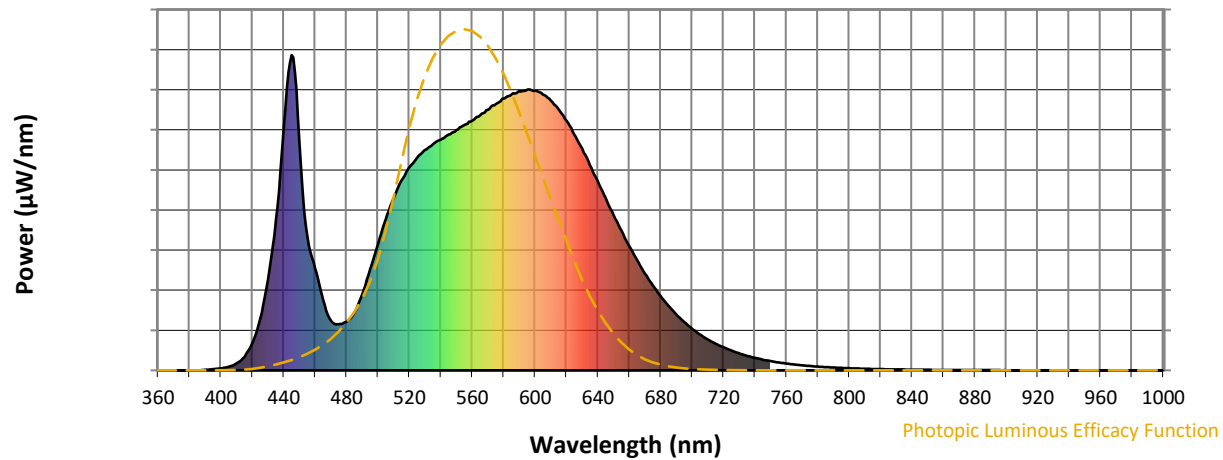
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

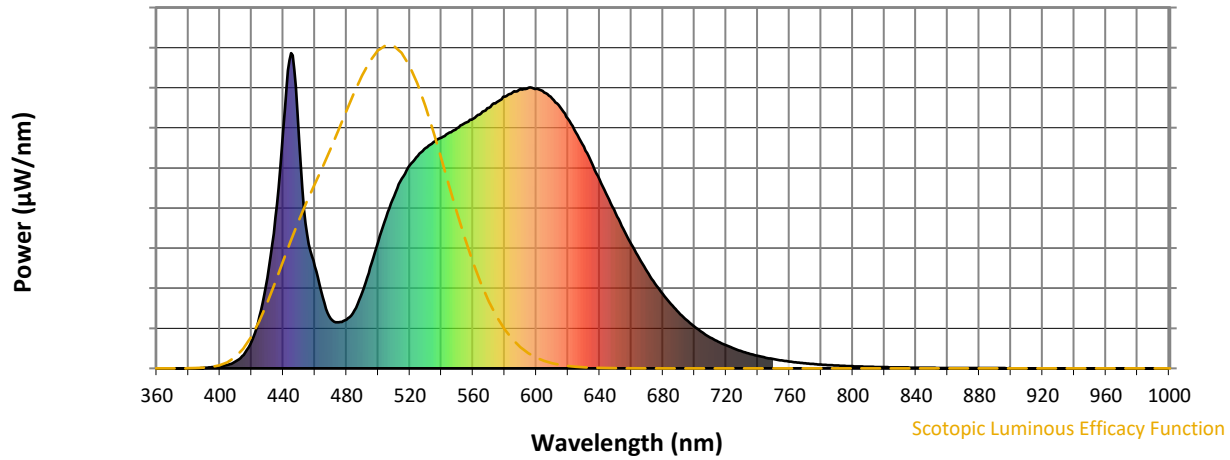


Photopic Lumens: NR

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

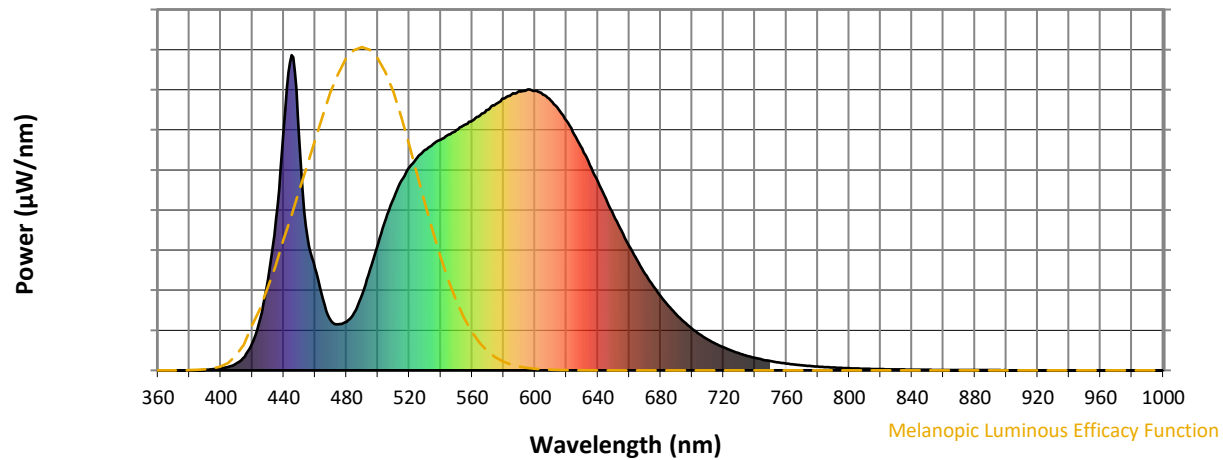
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.57

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.06

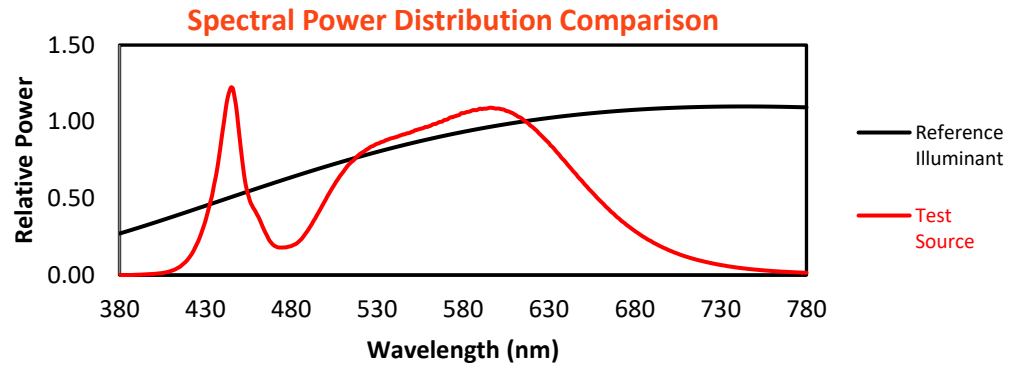
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

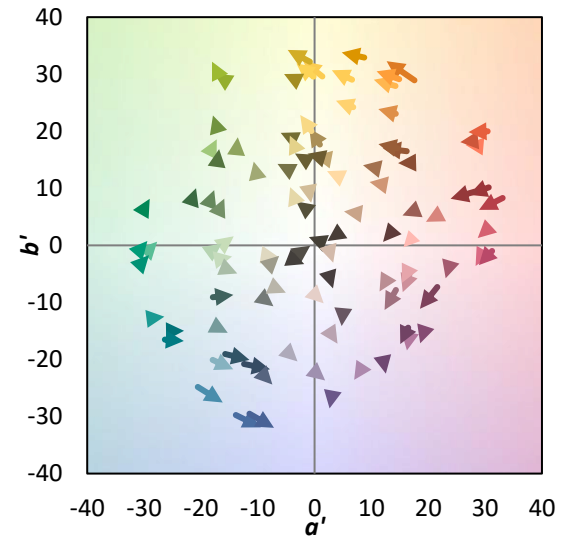
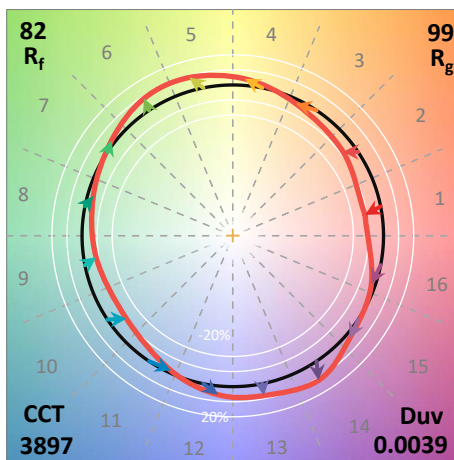
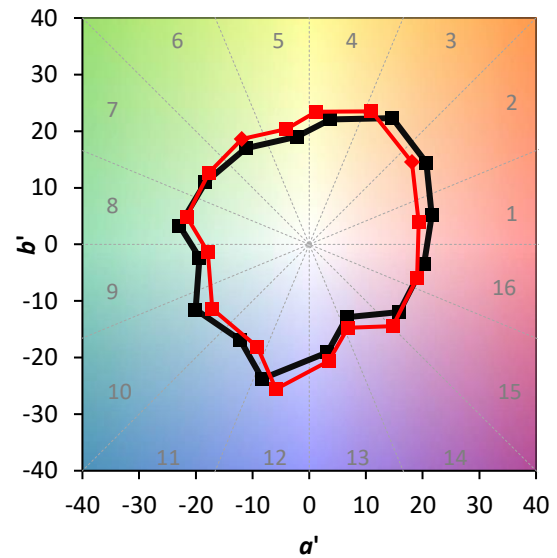
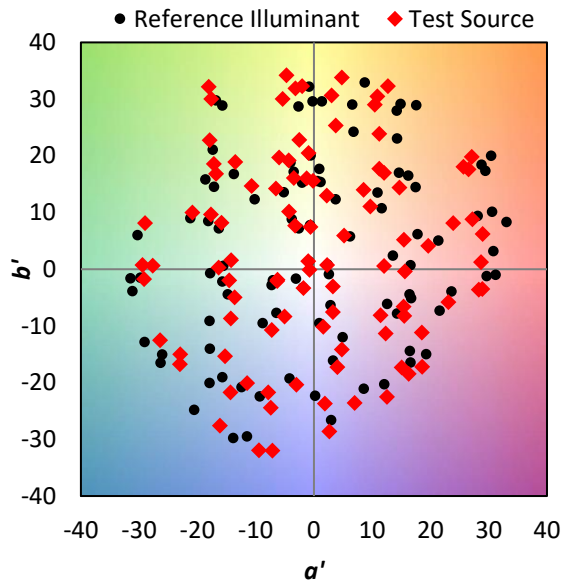
TM-30-18

Summary

$R_f = 81.8$
 $R_g = 98.6$
 CIE $R_a = 80.2$
 $R_9 = 6.7$

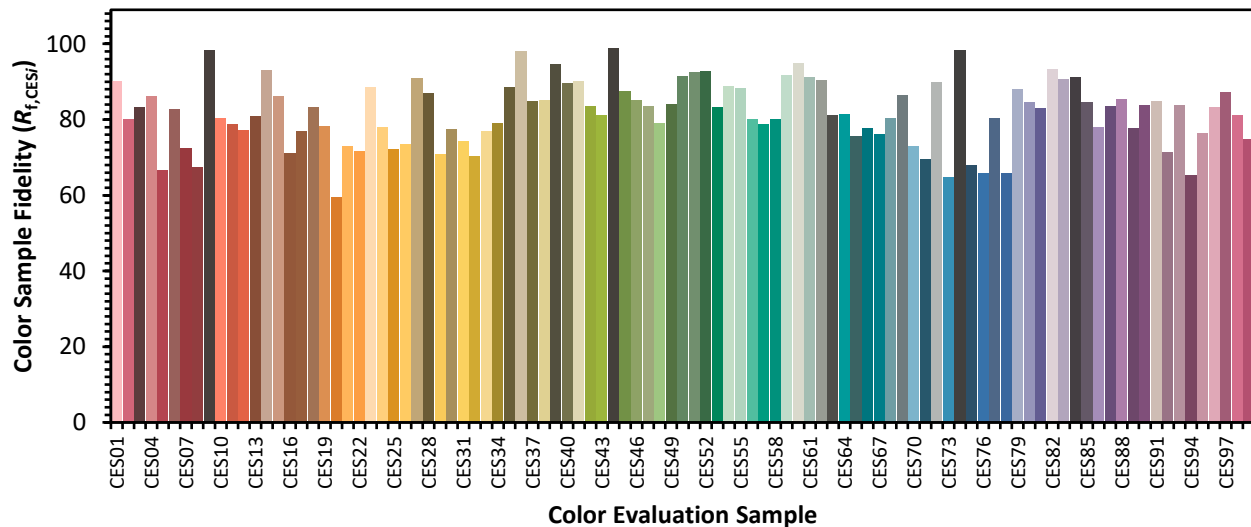


Color Vector Graphics

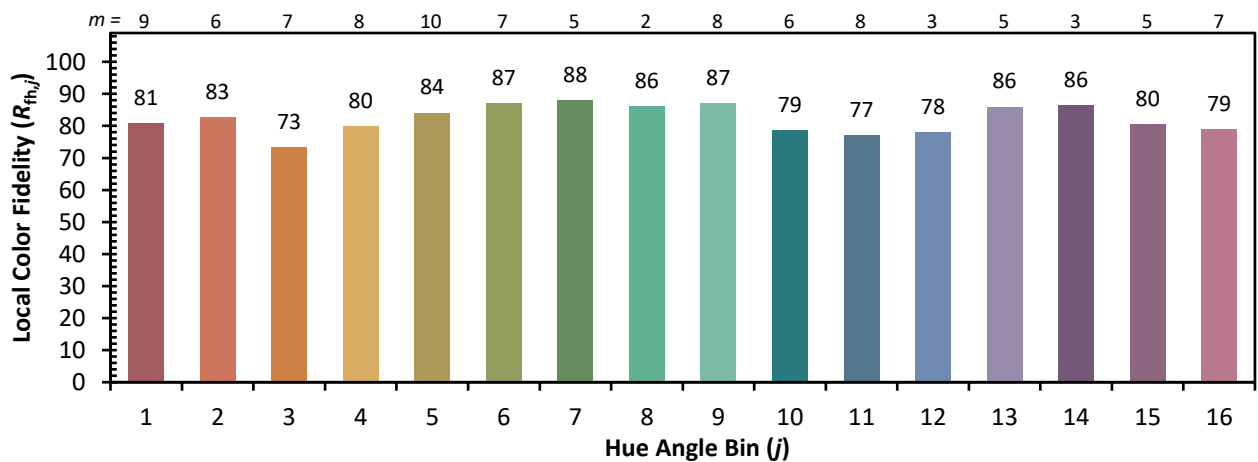
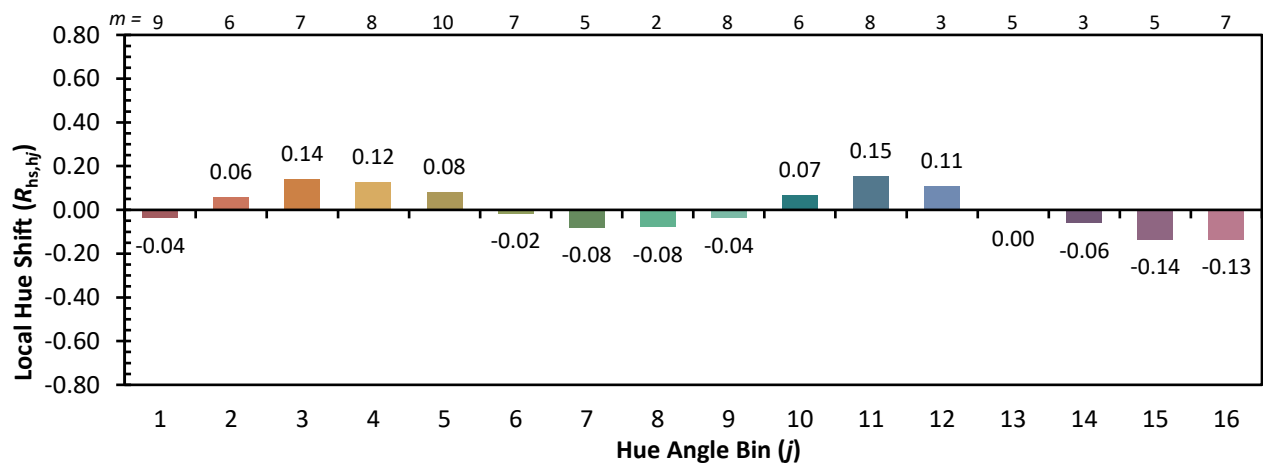
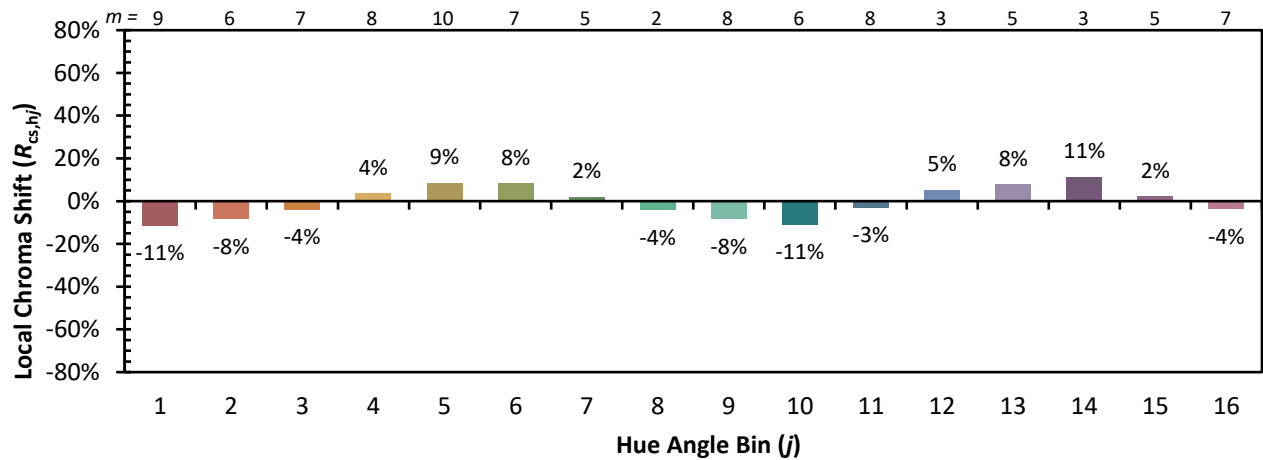


Individual Sample Fidelity Index ($R_{f,i}$)

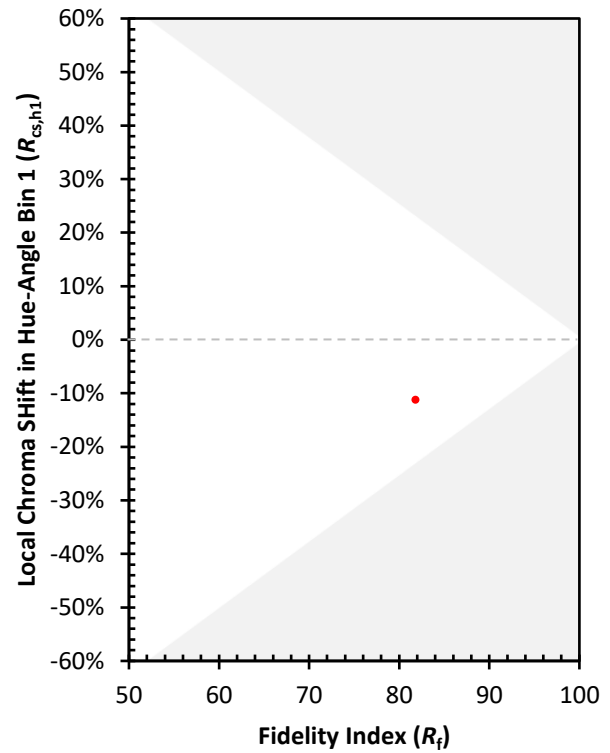
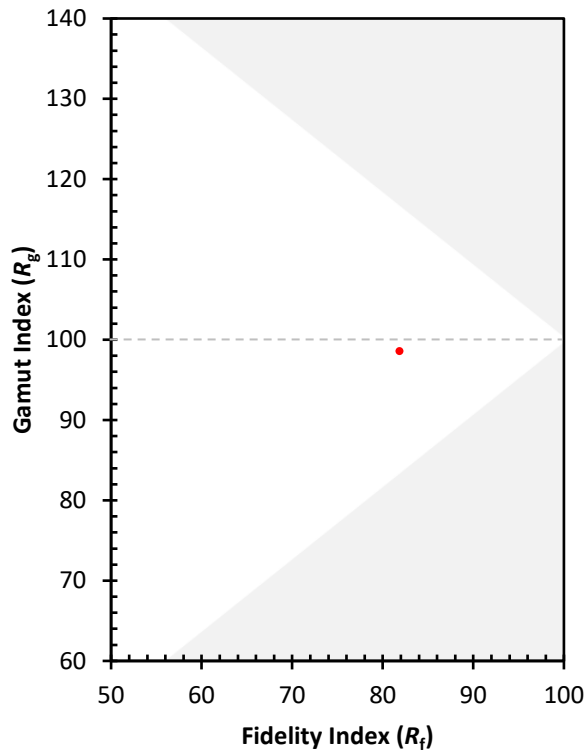
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
CES25 = 71	CES50 = 91	CES75 = 68	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)