

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: P1049817

Luminaire Tested: **GALN-SA9A-835-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049817
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-835-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 9xLight Square PACKAGE
80CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26381.9 lumens
Efficiency: N/A
Efficacy: 107.9 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

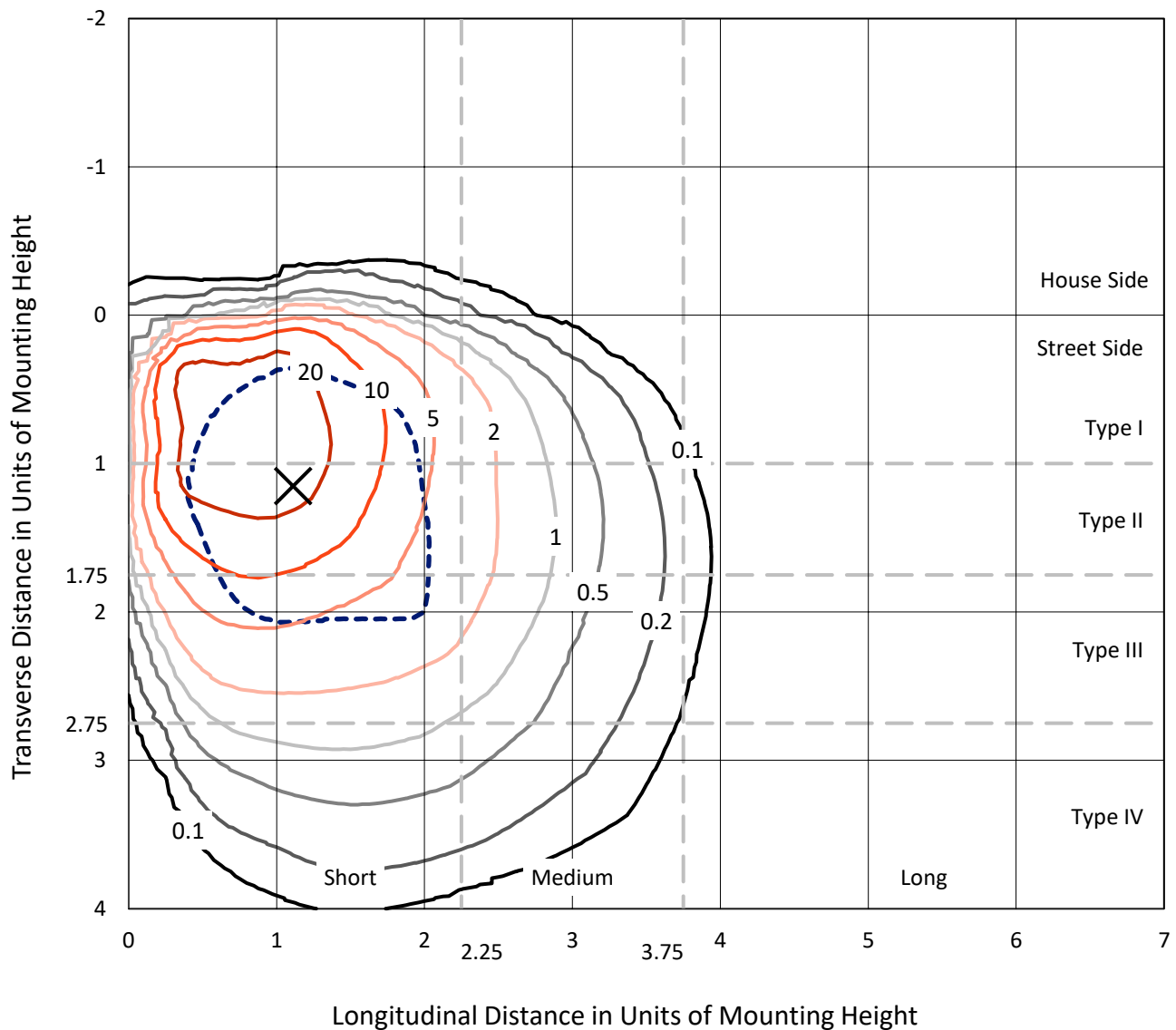
Input Watts (W): 244.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

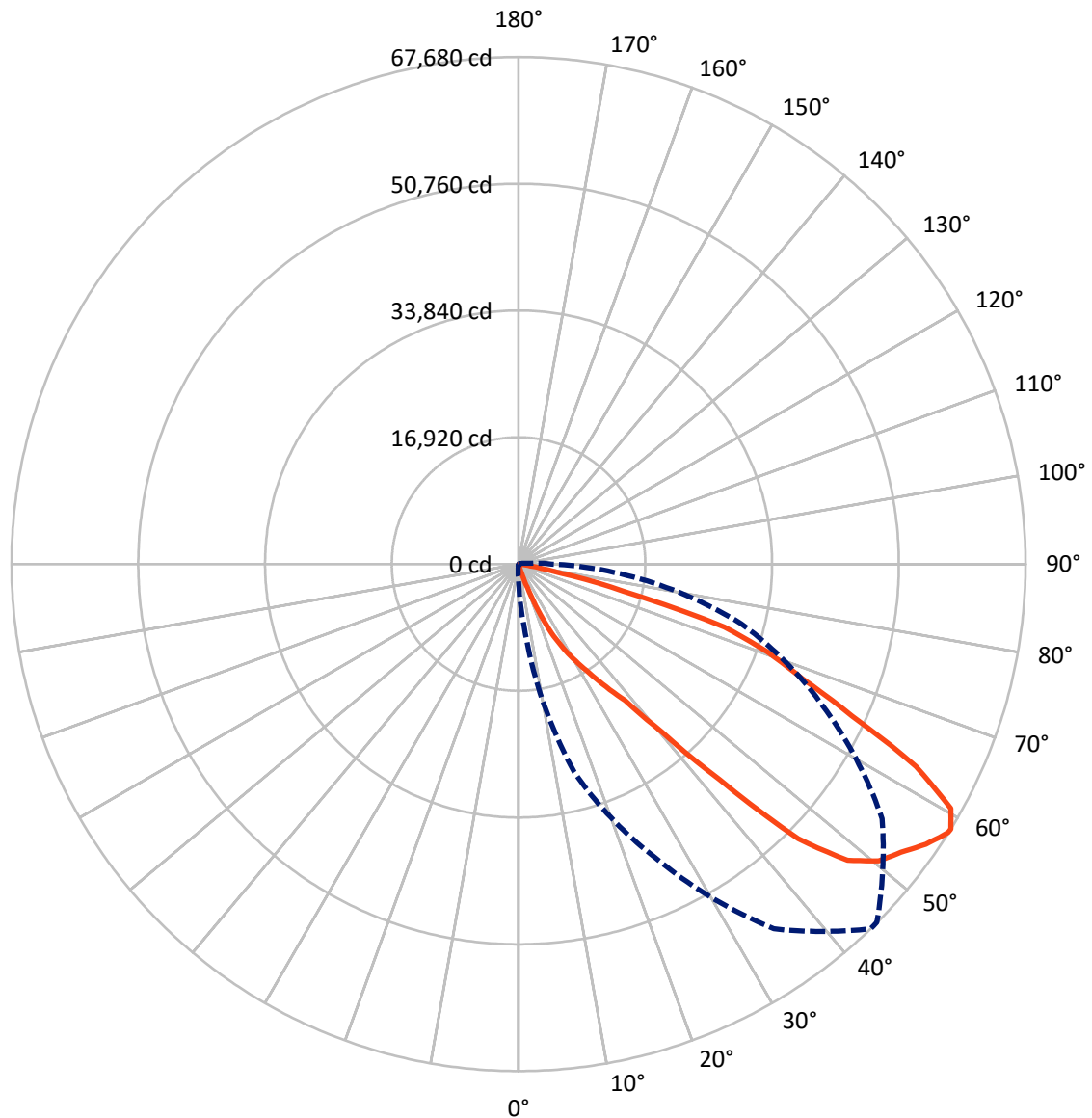
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	180.1	0.0	180.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	26201.8	0.0	26201.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	26381.9	0.0	26381.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.0
10°-20°	57.9	0.2
20°-30°	625.0	2.4
30°-40°	1848.3	7.0
40°-50°	5509.0	20.9
50°-60°	8741.4	33.1
60°-70°	7291.4	27.6
70°-80°	2248.8	8.5
80°-90°	50.0	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°	26381.9	100.0
0°-180°	26381.9	100.0



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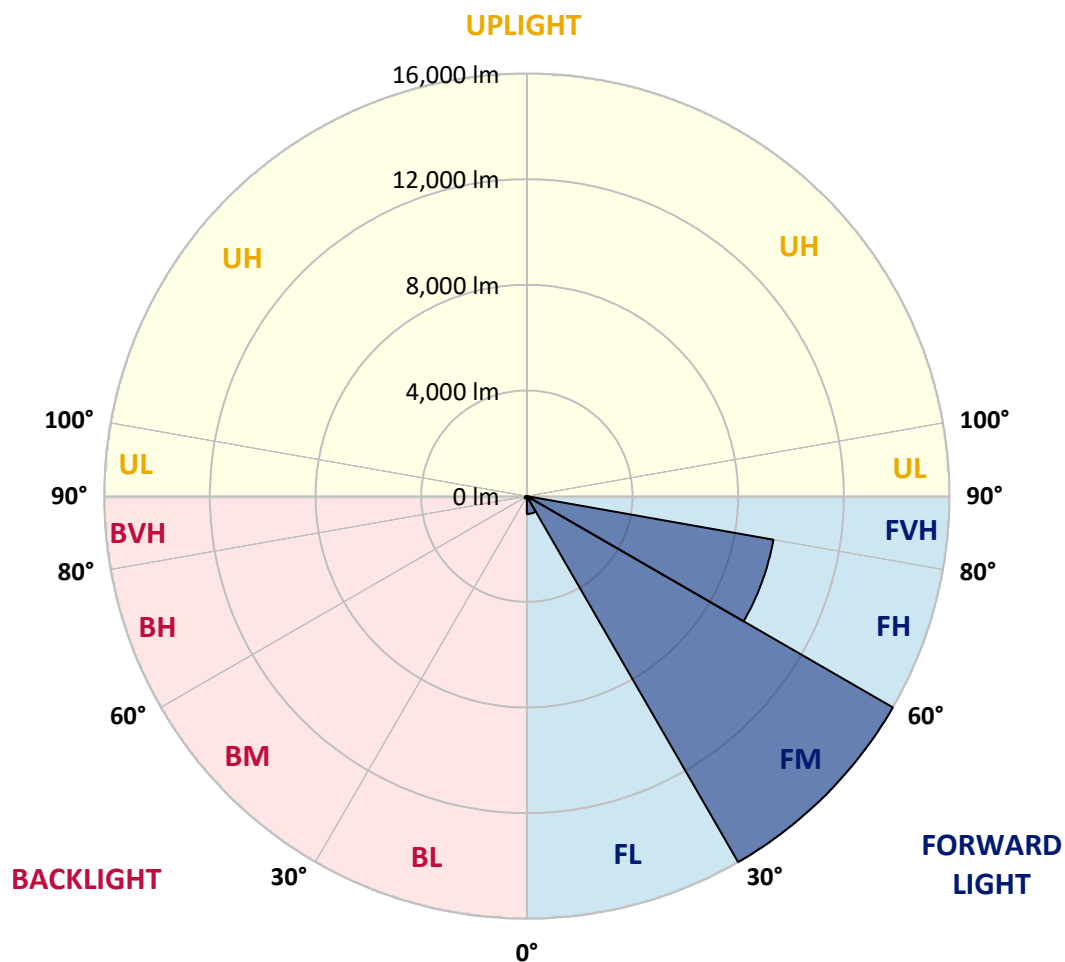
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	675.5	2.6			
FM	(30°-60°)	16000.1	60.6			
FH	(60°-80°)	9478.6	35.9			G4/12000
FVH	(80°-90°)	47.5	0.2			G1/100
BL	(0°-30°)	17.6	0.1	B0/110		
BM	(30°-60°)	98.6	0.4	B0/220		
BH	(60°-80°)	61.5	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°
0°	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6
2.5°	149.5	149.5	143.5	135.5	127.5	119.6	117.6	113.6	111.6	109.6
5°	155.4	155.4	153.5	147.5	139.5	133.5	133.5	127.5	123.6	119.6
7.5°	159.4	161.4	165.4	163.4	159.4	153.5	153.5	149.5	143.5	133.5
10°	165.4	171.4	179.4	183.3	185.3	185.3	183.3	181.4	171.4	157.4
12.5°	171.4	183.3	203.3	223.2	235.2	251.1	249.1	245.1	219.2	189.3
15°	183.3	201.3	243.1	300.9	390.6	446.4	468.3	448.4	362.7	255.1
17.5°	197.3	227.2	352.7	629.8	1032.3	1223.7	1339.2	1245.6	825.1	484.3
20°	211.3	277.0	655.7	1632.2	2678.5	3304.3	3477.7	3206.6	2058.7	922.7
22.5°	235.2	388.6	1329.3	3374.0	5771.5	6710.2	6887.6	6020.6	3888.2	1821.5
25°	285.0	564.0	2291.9	5498.5	8613.4	10197.8	10124.1	8988.1	6307.6	2909.7
27.5°	356.7	821.1	3465.7	7812.3	11335.8	12732.8	12900.2	11495.2	8408.2	4278.8
30°	460.4	1138.0	4725.2	9665.7	13518.0	15028.7	15056.6	13603.7	10287.5	5480.6
32.5°	560.0	1436.9	5827.3	11457.4	15668.4	17324.5	17448.1	15660.4	11690.5	6732.1
35°	635.7	1632.2	6943.4	13031.8	17836.7	20118.6	20110.7	17988.2	13352.6	7850.2
37.5°	641.7	1827.5	7953.8	14642.1	20583.0	23137.9	23391.0	21051.3	15361.5	9233.2
40°	627.8	2046.7	9233.2	17153.2	25531.4	29451.5	29674.7	26725.2	19391.2	11600.8
42.5°	643.7	2427.4	11309.9	21790.7	33748.3	39378.3	39808.8	36707.8	26798.9	16431.7
45°	727.4	3142.9	15660.4	29549.2	45460.7	52324.4	52180.9	47714.7	35418.4	23785.6
47.5°	1004.4	4894.6	22109.6	37100.4	52946.2	59058.5	59182.1	53723.4	40448.5	29439.6
50°	1544.5	7489.4	27528.3	41092.2	56164.8	62297.0	62181.4	55873.8	42359.7	32223.7
52.5°	2008.9	9366.8	30246.7	42493.3	56577.3	63897.3	63889.4	56439.8	42656.7	32462.8
55°	2124.5	9508.3	30268.6	42569.0	57502.0	65991.9	66255.0	57832.8	43041.3	31418.5
57.5°	2078.6	8418.1	29005.1	43007.4	59148.2	67612.2	67626.1	59182.1	44017.9	30778.8
58°	2038.8	8246.7	28750.0	43256.6	59431.2	67679.9	67646.0	59243.8	44813.0	30754.9
60°	1815.6	7160.6	27755.5	43892.3	59010.7	66288.9	65972.0	57894.6	44695.5	30509.8
62.5°	1426.9	5586.2	26777.0	43156.9	54502.7	59554.7	59686.3	51256.2	40745.5	29080.8
65°	1136.0	4163.2	24736.3	37855.7	44880.8	48906.5	49396.8	41680.1	34009.4	24624.6
67.5°	904.8	3009.3	20750.4	30139.1	35514.0	40817.2	41173.9	34993.9	26348.5	18867.1
70°	735.4	2034.8	14323.2	22041.8	29292.1	35254.9	35276.9	29070.9	19666.2	12362.1
72.5°	651.7	1409.0	8314.5	16075.0	23751.7	28728.1	28148.1	23590.3	15114.4	7322.0
75°	564.0	934.7	4077.5	9827.1	14400.9	14498.6	14719.8	10943.2	7555.2	3481.6
77.5°	464.4	663.6	1606.3	2684.5	4318.7	5528.4	5733.7	4344.6	2513.1	857.0
80°	318.9	314.9	432.5	823.1	1235.6	1548.5	1444.9	1118.0	657.7	328.8
82.5°	137.5	149.5	195.3	235.2	191.3	185.3	177.4	113.6	87.7	67.8
85°	43.8	39.9	41.9	41.9	33.9	25.9	25.9	12.0	0.0	0.0
87.5°	21.9	17.9	17.9	15.9	10.0	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

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
115.6	0°	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6
107.6	2.5°	105.6	105.6	101.6	97.7	95.7	91.7	89.7	87.7	85.7	83.7
115.6	5°	111.6	109.6	103.6	97.7	91.7	85.7	81.7	77.7	73.7	71.7
127.5	7.5°	121.6	117.6	105.6	95.7	87.7	79.7	75.7	69.8	65.8	59.8
141.5	10°	133.5	125.6	109.6	97.7	85.7	75.7	69.8	63.8	57.8	49.8
161.4	12.5°	149.5	135.5	115.6	95.7	81.7	69.8	63.8	55.8	49.8	43.8
187.3	15°	163.4	145.5	117.6	95.7	77.7	63.8	55.8	47.8	41.9	33.9
235.2	17.5°	183.3	153.5	115.6	89.7	71.7	55.8	47.8	41.9	31.9	19.9
348.8	20°	217.2	159.4	111.6	83.7	61.8	45.8	35.9	27.9	14.0	4.0
524.1	22.5°	271.0	175.4	107.6	75.7	53.8	35.9	23.9	10.0	0.0	0.0
797.2	25°	374.7	203.3	107.6	71.7	47.8	25.9	8.0	0.0	0.0	0.0
1132.0	27.5°	498.2	241.1	107.6	61.8	37.9	14.0	0.0	0.0	0.0	0.0
1542.5	30°	623.8	283.0	107.6	53.8	29.9	2.0	0.0	0.0	0.0	0.0
1899.3	32.5°	743.4	318.9	109.6	45.8	19.9	0.0	0.0	0.0	0.0	0.0
2393.5	35°	864.9	324.8	107.6	39.9	12.0	0.0	0.0	0.0	0.0	0.0
2999.4	37.5°	1020.4	312.9	101.6	35.9	6.0	0.0	0.0	0.0	0.0	0.0
3946.0	40°	1255.5	318.9	95.7	33.9	2.0	0.0	0.0	0.0	0.0	0.0
5634.0	42.5°	1690.0	344.8	87.7	33.9	0.0	0.0	0.0	0.0	0.0	0.0
8974.2	45°	2921.6	462.4	79.7	35.9	0.0	0.0	0.0	0.0	0.0	0.0
13472.2	47.5°	4832.9	831.1	77.7	35.9	0.0	0.0	0.0	0.0	0.0	0.0
16228.4	50°	6168.1	1046.3	81.7	37.9	0.0	0.0	0.0	0.0	0.0	0.0
16573.2	52.5°	6158.2	1165.9	85.7	39.9	8.0	0.0	0.0	0.0	0.0	0.0
15275.8	55°	5474.6	1187.8	91.7	43.8	25.9	0.0	0.0	0.0	0.0	0.0
13127.4	57.5°	4575.8	1084.2	105.6	53.8	47.8	0.0	0.0	0.0	0.0	0.0
12790.6	58°	4416.3	1036.3	109.6	55.8	51.8	0.0	0.0	0.0	0.0	0.0
11094.6	60°	3619.2	845.0	139.5	69.8	69.8	0.0	0.0	0.0	0.0	0.0
9095.7	62.5°	2499.1	737.4	159.4	89.7	71.7	0.0	0.0	0.0	0.0	0.0
6706.2	65°	1767.7	665.6	173.4	95.7	57.8	0.0	0.0	0.0	0.0	0.0
4765.1	67.5°	1321.3	613.8	191.3	97.7	29.9	0.0	0.0	0.0	0.0	0.0
2989.4	70°	1012.4	576.0	235.2	103.6	8.0	0.0	0.0	0.0	0.0	0.0
1781.7	72.5°	825.1	532.1	285.0	107.6	0.0	0.0	0.0	0.0	0.0	0.0
1068.2	75°	683.6	480.3	275.0	117.6	0.0	0.0	0.0	0.0	0.0	0.0
570.0	77.5°	454.4	372.7	251.1	117.6	0.0	0.0	0.0	0.0	0.0	0.0
203.3	80°	159.4	147.5	195.3	103.6	0.0	0.0	0.0	0.0	0.0	0.0
41.9	82.5°	23.9	19.9	27.9	35.9	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



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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
115.6	0°	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6
81.7	2.5°	81.7	81.7	79.7	81.7	81.7	85.7	95.7	109.6	125.6	131.5
69.8	5°	67.8	65.8	63.8	63.8	63.8	69.8	77.7	93.7	111.6	119.6
57.8	7.5°	55.8	53.8	51.8	49.8	49.8	53.8	63.8	81.7	99.6	107.6
47.8	10°	45.8	41.9	39.9	37.9	37.9	41.9	51.8	69.8	89.7	97.7
39.9	12.5°	37.9	31.9	27.9	25.9	23.9	29.9	39.9	55.8	77.7	87.7
29.9	15°	25.9	19.9	14.0	12.0	10.0	15.9	25.9	43.8	65.8	77.7
15.9	17.5°	14.0	6.0	2.0	0.0	0.0	4.0	12.0	31.9	53.8	63.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	39.9	49.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	23.9	33.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	17.9
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	6.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	15.9
0.0	90°	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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
115.6	0°	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6	115.6
137.5	2.5°	141.5	139.5	135.5	131.5	131.5	131.5	137.5	143.5	149.5	149.5
123.6	5°	131.5	131.5	129.5	125.6	125.6	127.5	135.5	145.5	153.5	155.4
113.6	7.5°	121.6	125.6	121.6	119.6	121.6	123.6	131.5	143.5	155.4	159.4
105.6	10°	115.6	117.6	117.6	115.6	115.6	119.6	127.5	143.5	159.4	165.4
95.7	12.5°	107.6	111.6	109.6	109.6	109.6	113.6	123.6	141.5	163.4	171.4
85.7	15°	99.6	105.6	105.6	103.6	103.6	105.6	119.6	139.5	169.4	183.3
73.7	17.5°	91.7	97.7	99.6	95.7	95.7	99.6	113.6	139.5	173.4	197.3
59.8	20°	75.7	85.7	91.7	85.7	85.7	89.7	103.6	131.5	175.4	211.3
43.8	22.5°	59.8	69.8	77.7	75.7	75.7	77.7	95.7	125.6	177.4	235.2
25.9	25°	43.8	53.8	59.8	63.8	63.8	69.8	87.7	121.6	185.3	285.0
12.0	27.5°	25.9	37.9	45.8	49.8	51.8	59.8	81.7	117.6	199.3	356.7
0.0	30°	12.0	21.9	31.9	39.9	39.9	53.8	75.7	113.6	217.2	460.4
0.0	32.5°	0.0	10.0	15.9	27.9	29.9	43.8	69.8	109.6	243.1	560.0
0.0	35°	0.0	0.0	8.0	21.9	21.9	35.9	63.8	105.6	283.0	635.7
0.0	37.5°	0.0	0.0	0.0	15.9	17.9	31.9	61.8	103.6	291.0	641.7
0.0	40°	0.0	0.0	0.0	12.0	14.0	29.9	61.8	105.6	263.1	627.8
0.0	42.5°	0.0	0.0	0.0	8.0	10.0	29.9	61.8	109.6	237.2	643.7
0.0	45°	0.0	0.0	0.0	6.0	8.0	31.9	59.8	107.6	223.2	727.4
0.0	47.5°	0.0	0.0	0.0	8.0	12.0	31.9	57.8	105.6	225.2	1004.4
0.0	50°	0.0	0.0	0.0	10.0	14.0	31.9	59.8	101.6	247.1	1544.5
0.0	52.5°	0.0	0.0	0.0	8.0	12.0	35.9	65.8	99.6	269.0	2008.9
0.0	55°	0.0	0.0	0.0	2.0	6.0	45.8	71.7	99.6	302.9	2124.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	51.8	81.7	105.6	358.7	2078.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	51.8	83.7	105.6	362.7	2038.8
0.0	60°	0.0	0.0	0.0	0.0	0.0	51.8	91.7	117.6	390.6	1815.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	43.8	109.6	147.5	406.6	1426.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	35.9	129.5	161.4	418.5	1136.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	33.9	133.5	163.4	424.5	904.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	35.9	131.5	175.4	444.4	735.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	39.9	119.6	193.3	444.4	651.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	41.9	111.6	217.2	404.6	564.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	39.9	109.6	253.1	360.7	464.4
0.0	80°	4.0	6.0	6.0	4.0	4.0	33.9	107.6	257.1	306.9	318.9
2.0	82.5°	12.0	15.9	14.0	10.0	10.0	29.9	95.7	215.2	159.4	137.5
12.0	85°	21.9	25.9	25.9	21.9	21.9	27.9	59.8	77.7	53.8	43.8
21.9	87.5°	29.9	33.9	33.9	29.9	29.9	27.9	25.9	23.9	21.9	21.9
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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

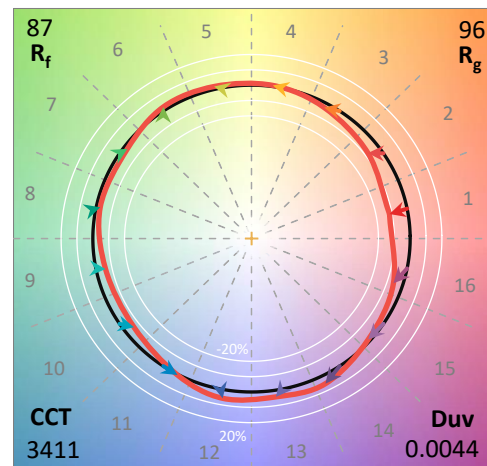
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-10
 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-835-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3411
 CIE u' : 0.2360
 CIE v' : 0.5189
 Duv: 0.0044
 CIE x: 0.4154
 CIE y: 0.4059
 CIE z: 0.1787
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 579
 Purity: 46.51914
 R_f: 86.6
 R_g: 95.9

CRI (Ra): 83.5
 R1: 81.1
 R2: 88.9
 R3: 97.2
 R4: 83.8
 R5: 81.7
 R6: 86.9
 R7: 86.1
 R8: 62.2
 R9: 6.3
 R10: 75.4
 R11: 84.1
 R12: 69.7
 R13: 82.8
 R14: 98.5
 R15: 72.6



Test Conditions

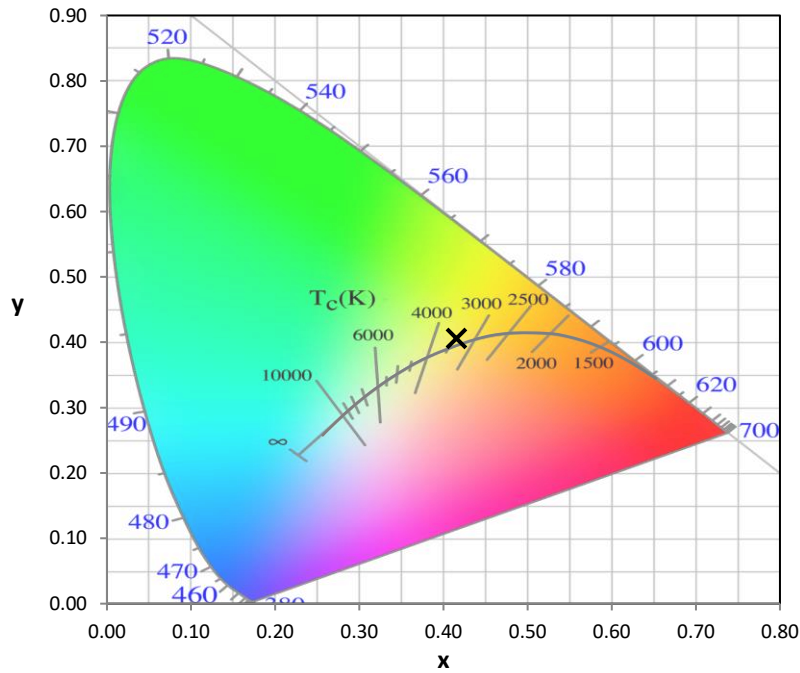
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-10

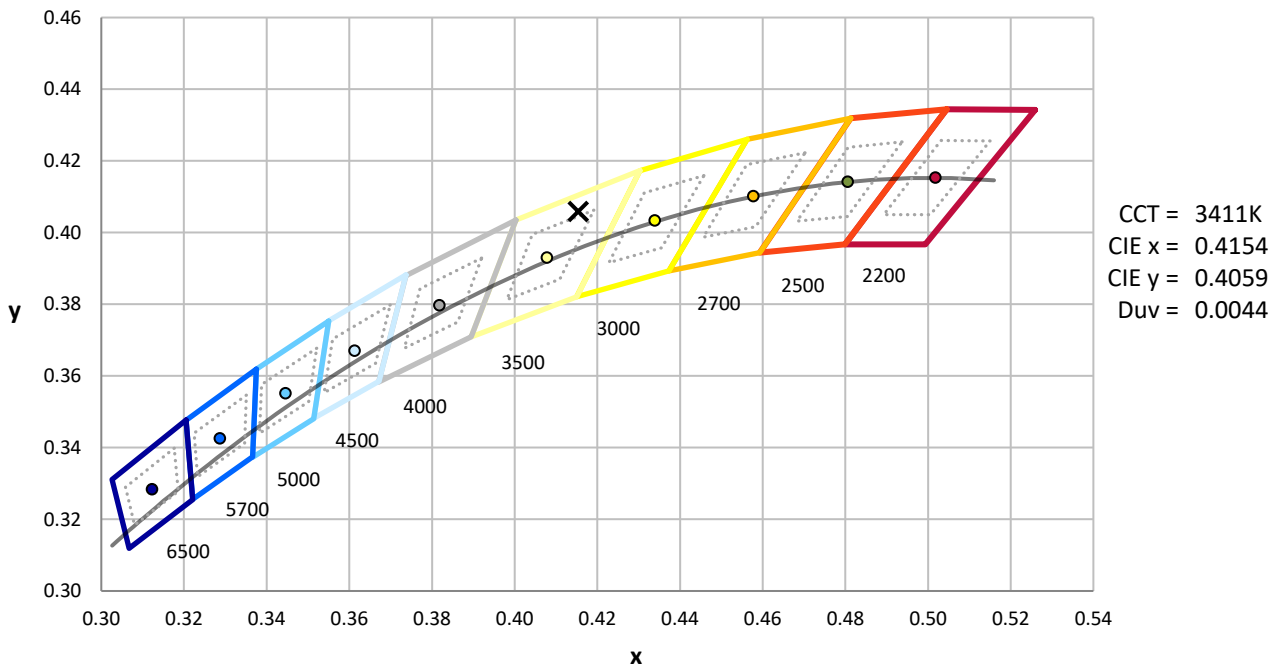
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-10

CIE 1931 Chromaticity Diagram



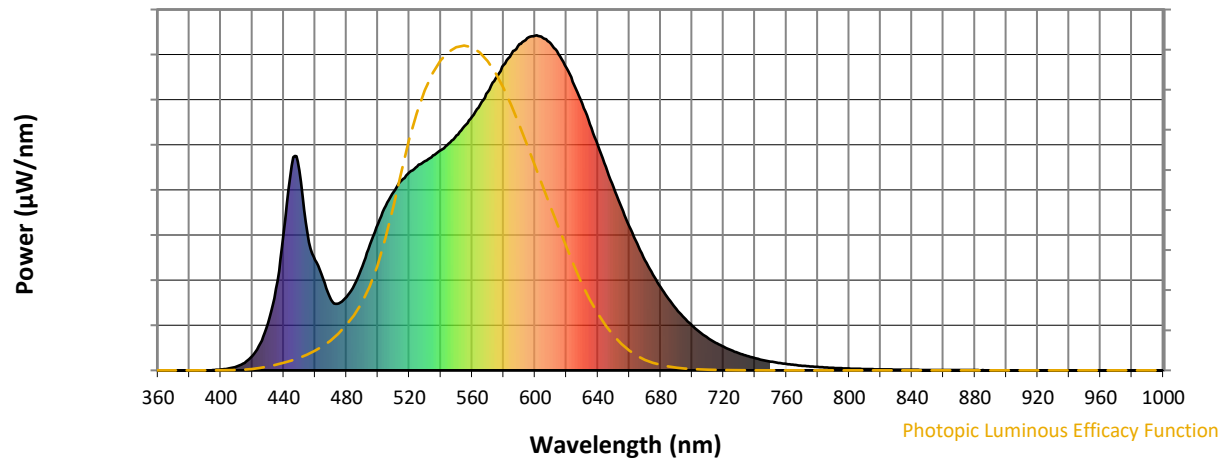
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

Photopic Flux vs. Wavelength

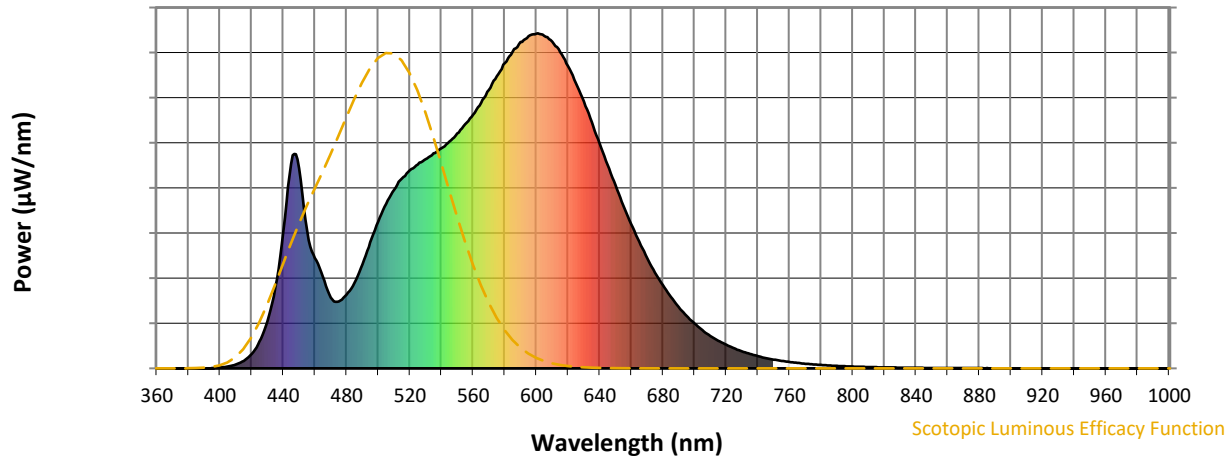


Photopic Lumens: NR

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength



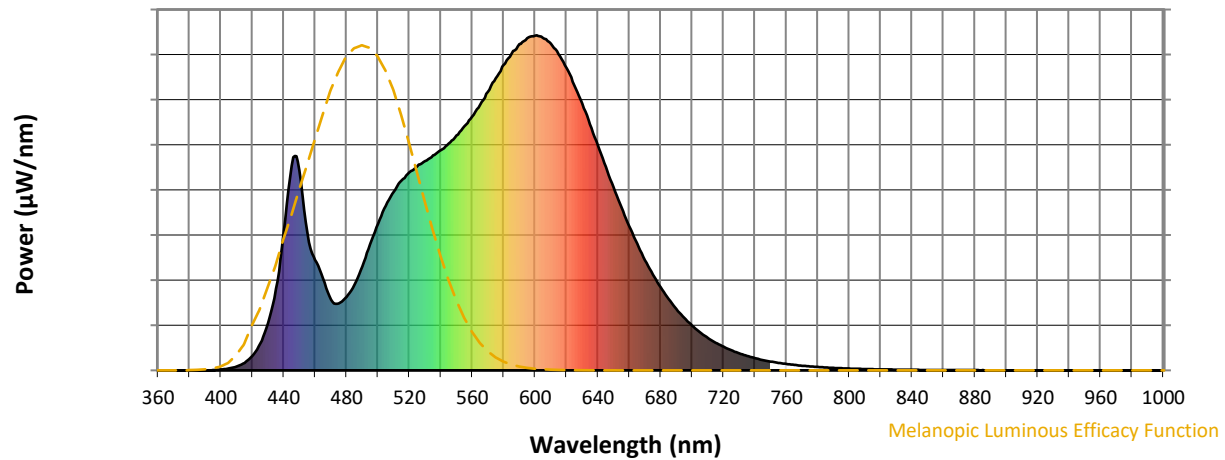
Scotopic Lumens: NR

S/P: 1.48

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.88

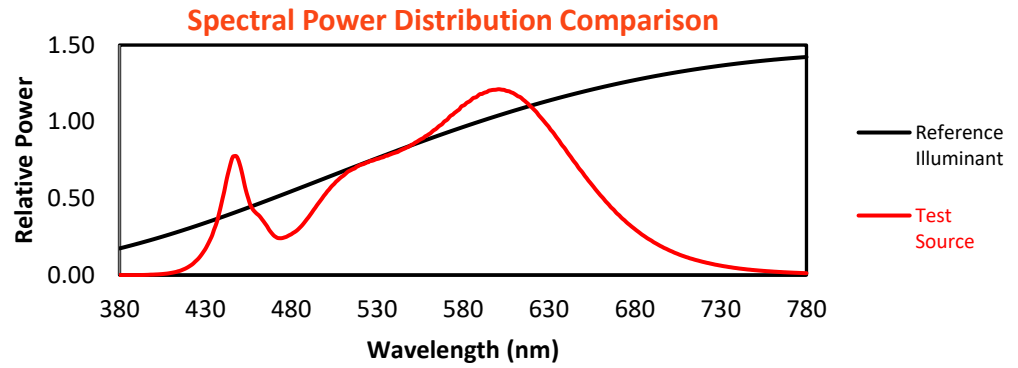
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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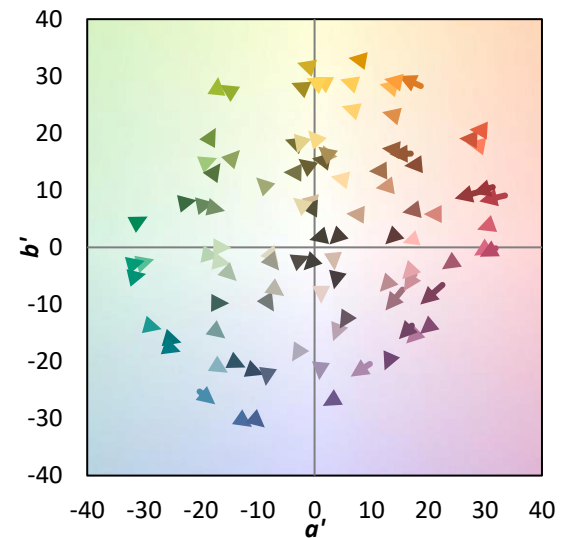
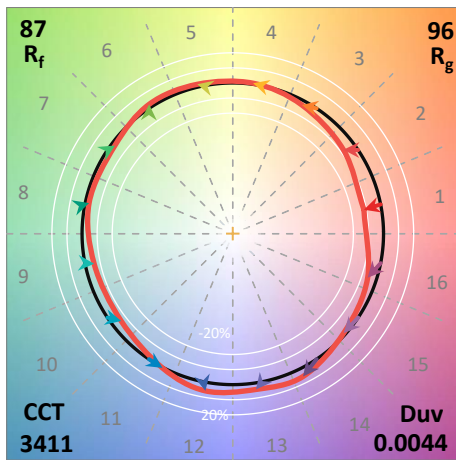
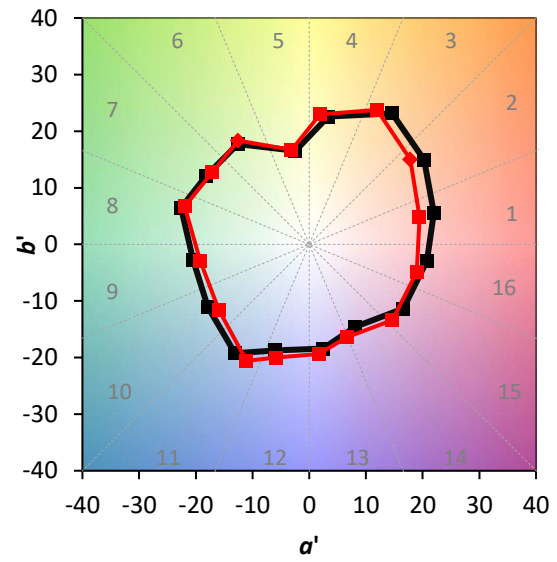
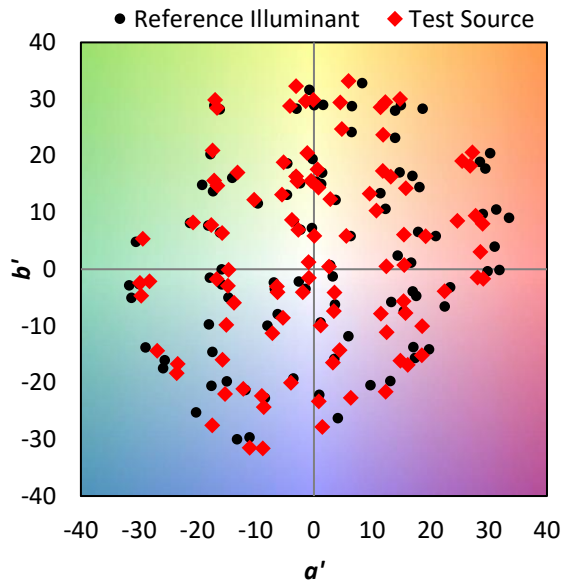
TM-30-18

Summary

$R_f = 86.6$
 $R_g = 95.9$
 $CIE R_a = 83.5$
 $R_9 = 6.3$

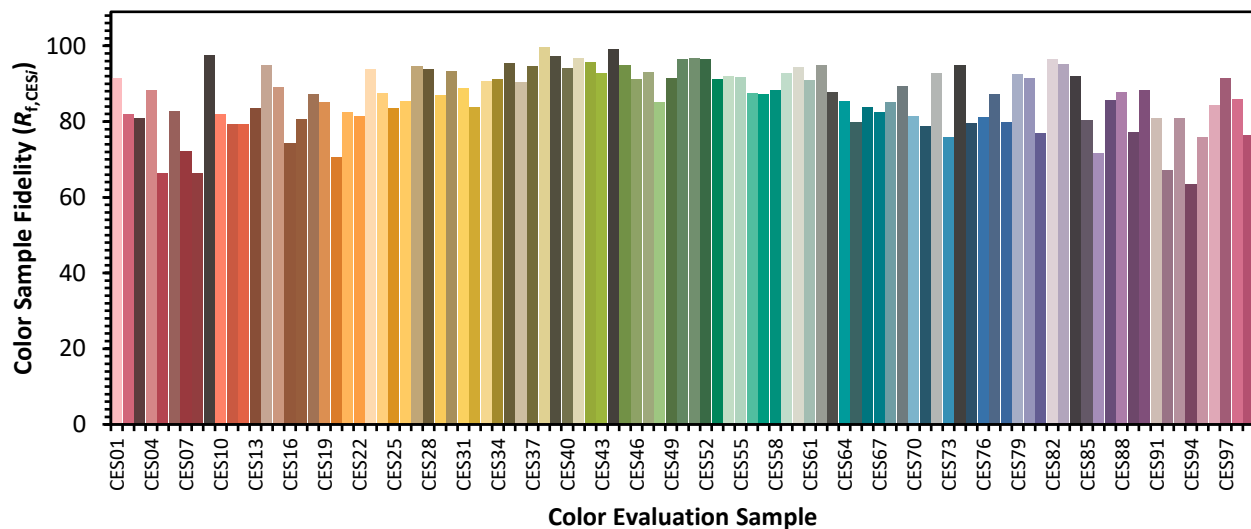


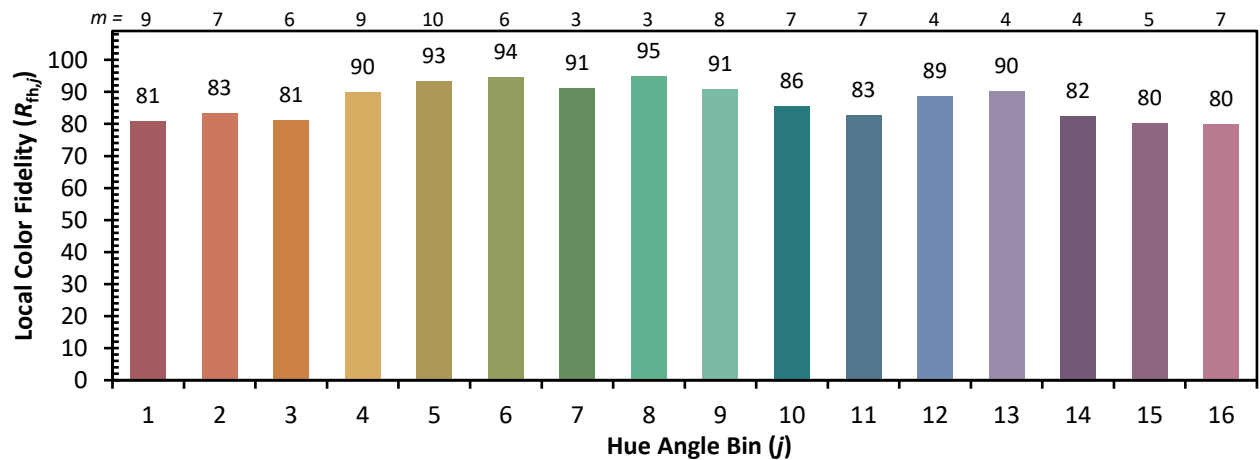
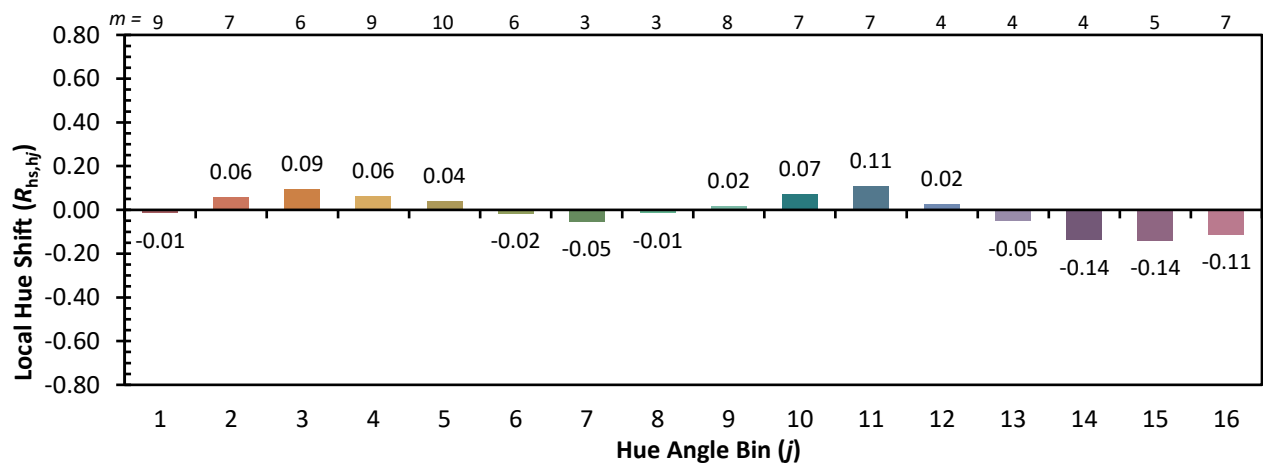
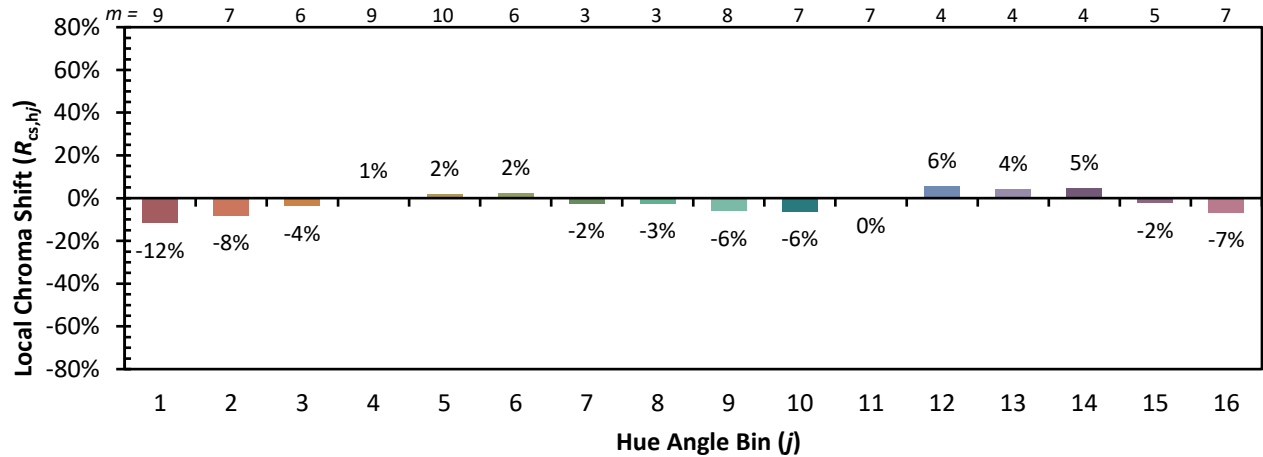
Color Vector Graphics



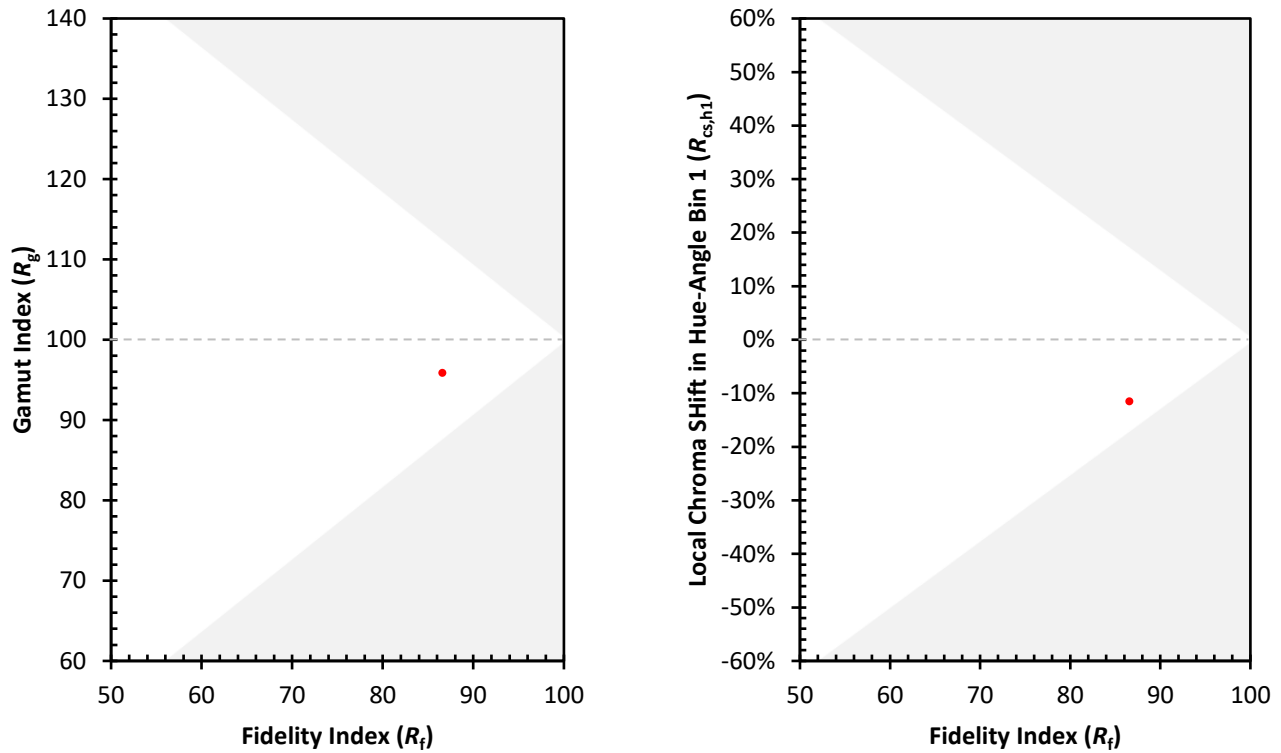
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 85	CES51 = 97	CES76 = 81
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)