

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: P1049835

Luminaire Tested: **GALN-SA4C-840-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049835
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 4xLight Square PACKAGE
80CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

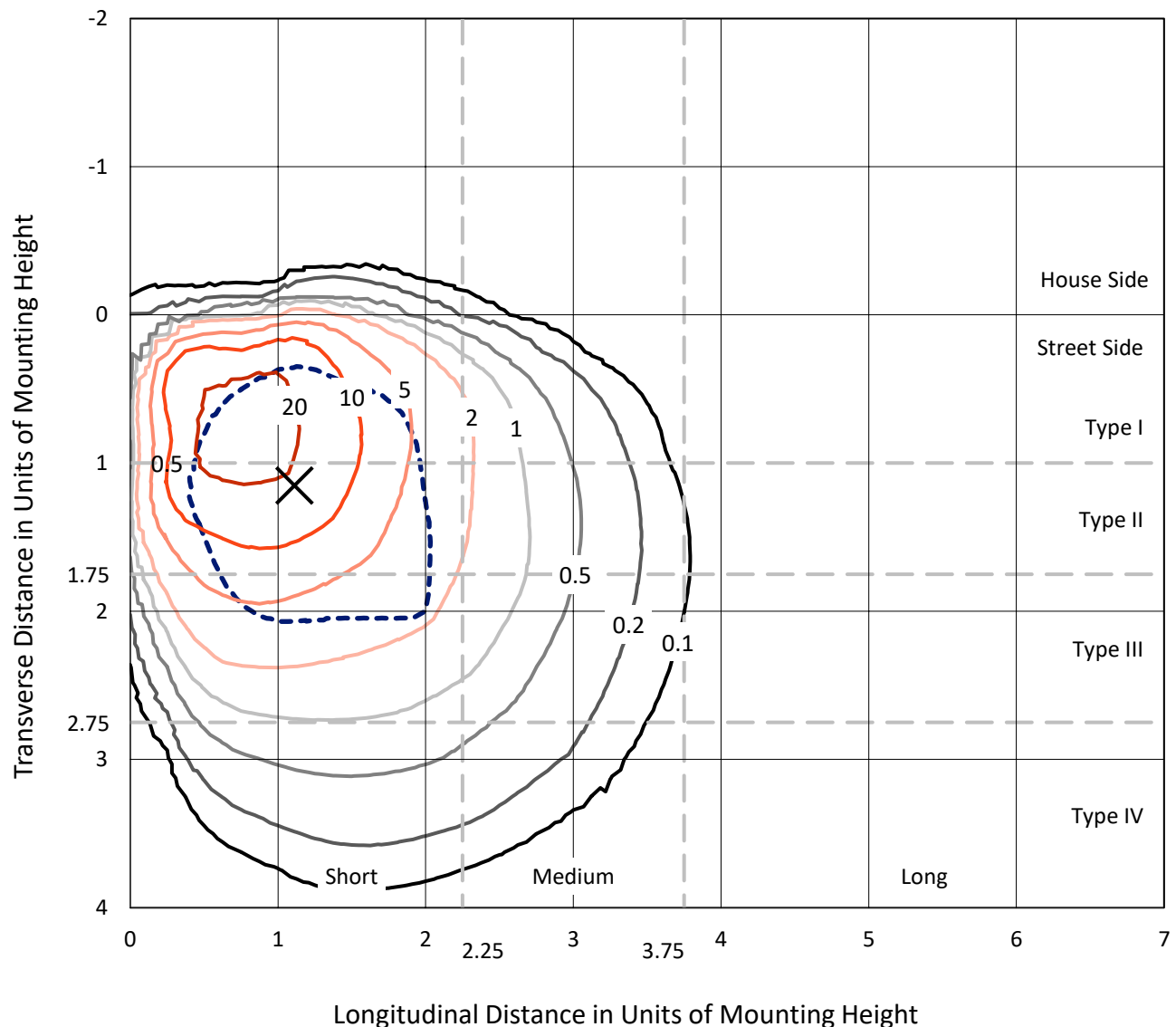
Lumens per Lamp: N/A
Luminaire Lumens: 18687.1 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 190.4
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

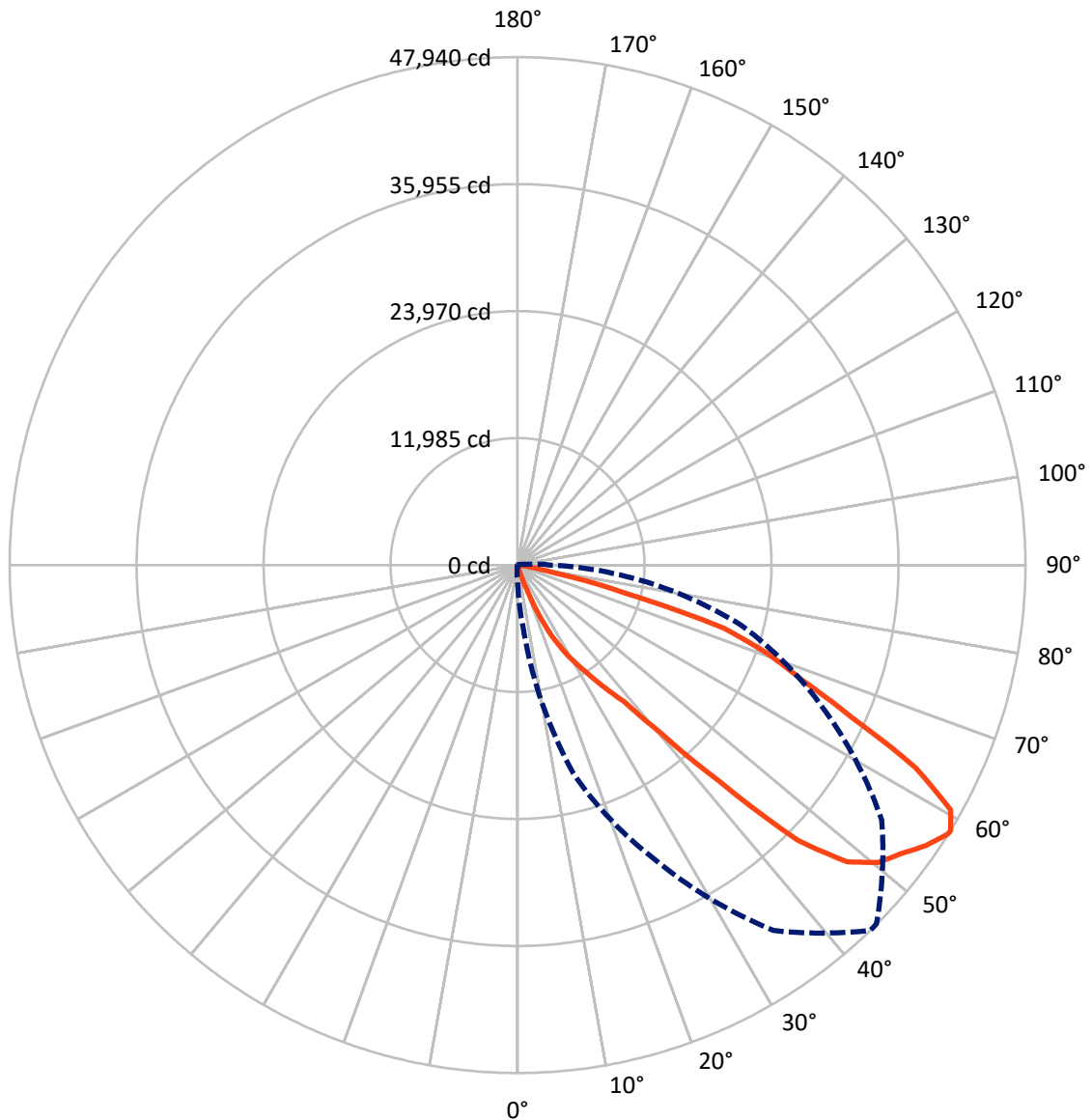
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 32.5 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	127.6	0.0	127.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	18559.6	0.0	18559.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	18687.1	0.0	18687.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	0.0
10°-20°	41.0	0.2
20°-30°	442.7	2.4
30°-40°	1309.2	7.0
40°-50°	3902.2	20.9
50°-60°	6191.8	33.1
60°-70°	5164.7	27.6
70°-80°	1592.9	8.5
80°-90°	35.4	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°	18687.1	100.0
0°-180°	18687.1	100.0



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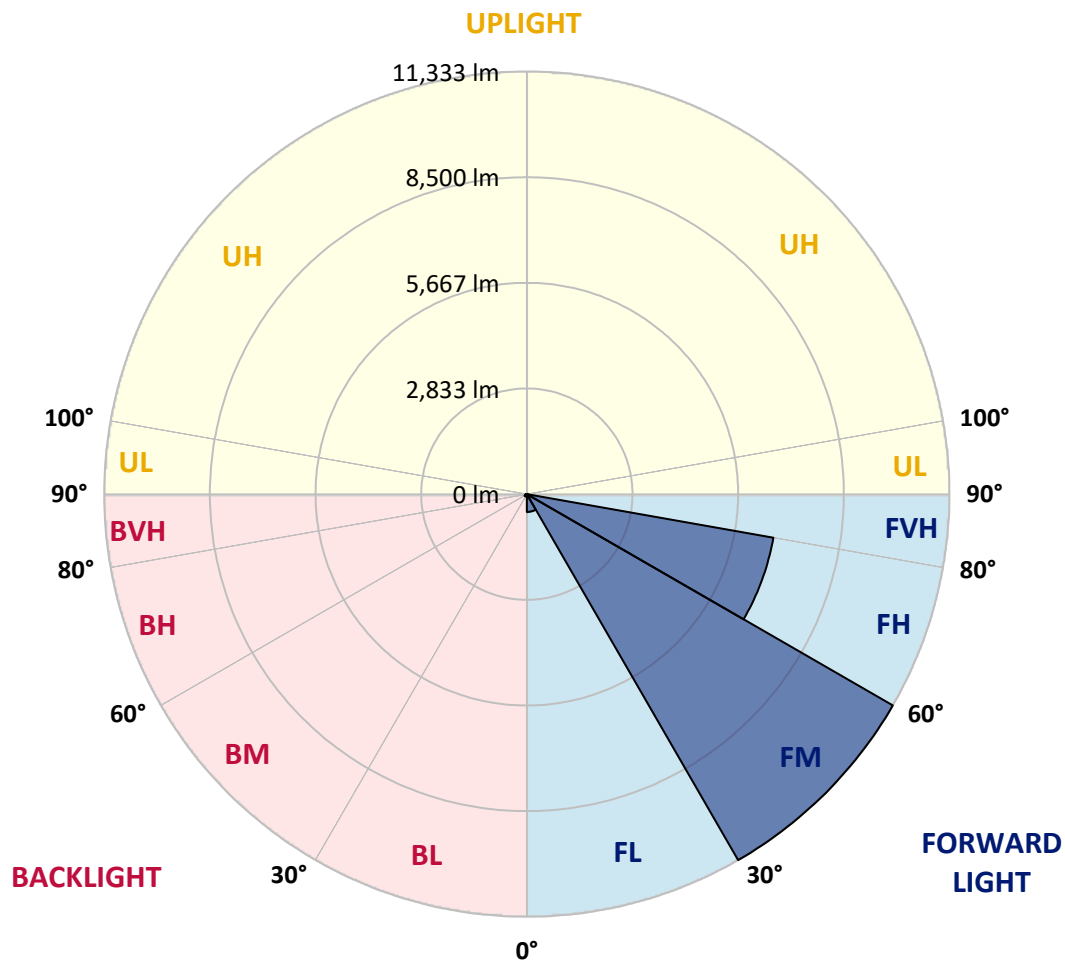
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	478.5	2.6			
FM	(30°-60°)	11333.4	60.6			
FH	(60°-80°)	6714.0	35.9			G3/7500
FVH	(80°-90°)	33.7	0.2			G1/100
BL	(0°-30°)	12.5	0.1	B0/110		
BM	(30°-60°)	69.8	0.4	B0/220		
BH	(60°-80°)	43.6	0.2	B0/110		G0/110
BVH	(80°-90°)	1.7	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
2.5°	105.9	105.9	101.6	96.0	90.3	84.7	83.3	80.5	79.1	77.6
5°	110.1	110.1	108.7	104.5	98.8	94.6	94.6	90.3	87.5	84.7
7.5°	112.9	114.3	117.2	115.8	112.9	108.7	108.7	105.9	101.6	94.6
10°	117.2	121.4	127.0	129.9	131.3	131.3	129.9	128.5	121.4	111.5
12.5°	121.4	129.9	144.0	158.1	166.6	177.9	176.5	173.6	155.3	134.1
15°	129.9	142.6	172.2	213.2	276.7	316.2	331.7	317.6	256.9	180.7
17.5°	139.8	160.9	249.9	446.1	731.2	866.8	948.6	882.3	584.4	343.0
20°	149.6	196.2	464.4	1156.1	1897.3	2340.5	2463.3	2271.4	1458.2	653.6
22.5°	166.6	275.3	941.6	2389.9	4088.2	4753.0	4878.7	4264.6	2754.1	1290.3
25°	201.9	399.5	1623.4	3894.8	6101.2	7223.4	7171.2	6366.6	4467.9	2061.0
27.5°	252.7	581.6	2454.9	5533.7	8029.5	9019.1	9137.6	8142.4	5955.8	3030.8
30°	326.1	806.1	3347.0	6846.5	9575.3	10645.3	10665.1	9636.0	7287.0	3882.1
32.5°	396.7	1017.8	4127.7	8115.6	11098.4	12271.5	12359.0	11092.8	8280.8	4768.6
35°	450.3	1156.1	4918.2	9230.8	12634.3	14250.7	14245.0	12741.6	9458.1	5560.5
37.5°	454.6	1294.5	5633.9	10371.4	14579.6	16389.3	16568.6	14911.3	10881.0	6540.2
40°	444.7	1449.8	6540.2	12150.1	18084.7	20861.4	21019.5	18930.3	13735.4	8217.2
42.5°	456.0	1719.4	8011.1	15435.0	23905.0	27892.9	28197.8	26001.3	18982.5	11639.1
45°	515.3	2226.2	11092.8	20930.6	32201.3	37063.0	36961.4	33797.8	25087.9	16848.1
47.5°	711.5	3467.0	15660.9	26279.4	37503.4	41833.0	41920.5	38054.0	28651.0	20853.0
50°	1094.0	5305.0	19499.2	29106.9	39783.3	44126.9	44045.1	39577.2	30004.7	22825.1
52.5°	1422.9	6634.8	21424.7	30099.3	40075.5	45260.5	45254.8	39978.1	30215.1	22994.5
55°	1504.8	6735.0	21440.2	30153.0	40730.5	46744.1	46930.5	40964.8	30487.5	22254.7
57.5°	1472.4	5962.8	20545.2	30463.5	41896.5	47891.8	47901.7	41920.5	31179.2	21801.6
58°	1444.1	5841.4	20364.5	30640.0	42097.0	47939.8	47915.8	41964.3	31742.5	21784.7
60°	1286.0	5072.1	19660.1	31090.3	41799.1	46954.5	46730.0	41008.6	31659.2	21611.0
62.5°	1010.7	3956.9	18967.0	30569.4	38605.9	42184.5	42277.7	36306.4	28861.3	20598.9
65°	804.6	2948.9	17521.5	26814.4	31790.5	34642.0	34989.3	29523.4	24089.9	17442.4
67.5°	640.9	2131.6	14698.2	21348.5	25155.7	28912.1	29164.8	24787.3	18663.5	13364.1
70°	520.9	1441.3	10145.6	15612.9	20748.5	24972.2	24987.7	20591.8	13930.2	8756.5
72.5°	461.6	998.0	5889.4	11386.4	16824.1	20349.0	19938.2	16709.8	10706.0	5186.4
75°	399.5	662.1	2888.2	6960.9	10200.6	10269.8	10426.5	7751.4	5351.6	2466.2
77.5°	328.9	470.1	1137.8	1901.5	3059.1	3915.9	4061.3	3077.4	1780.1	607.0
80°	225.9	223.0	306.3	583.0	875.2	1096.9	1023.5	791.9	465.8	232.9
82.5°	97.4	105.9	138.3	166.6	135.5	131.3	125.6	80.5	62.1	48.0
85°	31.1	28.2	29.6	29.6	24.0	18.4	18.4	8.5	0.0	0.0
87.5°	15.5	12.7	12.7	11.3	7.1	2.8	1.4	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°
81.9	0°	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
76.2	2.5°	74.8	74.8	72.0	69.2	67.8	64.9	63.5	62.1	60.7	59.3
81.9	5°	79.1	77.6	73.4	69.2	64.9	60.7	57.9	55.1	52.2	50.8
90.3	7.5°	86.1	83.3	74.8	67.8	62.1	56.5	53.6	49.4	46.6	42.3
100.2	10°	94.6	88.9	77.6	69.2	60.7	53.6	49.4	45.2	40.9	35.3
114.3	12.5°	105.9	96.0	81.9	67.8	57.9	49.4	45.2	39.5	35.3	31.1
132.7	15°	115.8	103.1	83.3	67.8	55.1	45.2	39.5	33.9	29.6	24.0
166.6	17.5°	129.9	108.7	81.9	63.5	50.8	39.5	33.9	29.6	22.6	14.1
247.0	20°	153.9	112.9	79.1	59.3	43.8	32.5	25.4	19.8	9.9	2.8
371.3	22.5°	192.0	124.2	76.2	53.6	38.1	25.4	16.9	7.1	0.0	0.0
564.7	25°	265.4	144.0	76.2	50.8	33.9	18.4	5.6	0.0	0.0	0.0
801.8	27.5°	352.9	170.8	76.2	43.8	26.8	9.9	0.0	0.0	0.0	0.0
1092.6	30°	441.8	200.5	76.2	38.1	21.2	1.4	0.0	0.0	0.0	0.0
1345.3	32.5°	526.5	225.9	77.6	32.5	14.1	0.0	0.0	0.0	0.0	0.0
1695.4	35°	612.7	230.1	76.2	28.2	8.5	0.0	0.0	0.0	0.0	0.0
2124.5	37.5°	722.8	221.6	72.0	25.4	4.2	0.0	0.0	0.0	0.0	0.0
2795.1	40°	889.3	225.9	67.8	24.0	1.4	0.0	0.0	0.0	0.0	0.0
3990.7	42.5°	1197.1	244.2	62.1	24.0	0.0	0.0	0.0	0.0	0.0	0.0
6356.7	45°	2069.5	327.5	56.5	25.4	0.0	0.0	0.0	0.0	0.0	0.0
9542.8	47.5°	3423.3	588.7	55.1	25.4	0.0	0.0	0.0	0.0	0.0	0.0
11495.1	50°	4369.1	741.1	57.9	26.8	0.0	0.0	0.0	0.0	0.0	0.0
11739.3	52.5°	4362.0	825.8	60.7	28.2	5.6	0.0	0.0	0.0	0.0	0.0
10820.3	55°	3877.8	841.3	64.9	31.1	18.4	0.0	0.0	0.0	0.0	0.0
9298.6	57.5°	3241.2	767.9	74.8	38.1	33.9	0.0	0.0	0.0	0.0	0.0
9060.0	58°	3128.2	734.1	77.6	39.5	36.7	0.0	0.0	0.0	0.0	0.0
7858.7	60°	2563.6	598.5	98.8	49.4	49.4	0.0	0.0	0.0	0.0	0.0
6442.8	62.5°	1770.2	522.3	112.9	63.5	50.8	0.0	0.0	0.0	0.0	0.0
4750.2	65°	1252.1	471.5	122.8	67.8	40.9	0.0	0.0	0.0	0.0	0.0
3375.3	67.5°	935.9	434.8	135.5	69.2	21.2	0.0	0.0	0.0	0.0	0.0
2117.5	70°	717.1	408.0	166.6	73.4	5.6	0.0	0.0	0.0	0.0	0.0
1262.0	72.5°	584.4	376.9	201.9	76.2	0.0	0.0	0.0	0.0	0.0	0.0
756.6	75°	484.2	340.2	194.8	83.3	0.0	0.0	0.0	0.0	0.0	0.0
403.7	77.5°	321.9	264.0	177.9	83.3	0.0	0.0	0.0	0.0	0.0	0.0
144.0	80°	112.9	104.5	138.3	73.4	0.0	0.0	0.0	0.0	0.0	0.0
29.6	82.5°	16.9	14.1	19.8	25.4	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
81.9	0°	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
57.9	2.5°	57.9	57.9	56.5	57.9	57.9	60.7	67.8	77.6	88.9	93.2
49.4	5°	48.0	46.6	45.2	45.2	45.2	49.4	55.1	66.3	79.1	84.7
40.9	7.5°	39.5	38.1	36.7	35.3	35.3	38.1	45.2	57.9	70.6	76.2
33.9	10°	32.5	29.6	28.2	26.8	26.8	29.6	36.7	49.4	63.5	69.2
28.2	12.5°	26.8	22.6	19.8	18.4	16.9	21.2	28.2	39.5	55.1	62.1
21.2	15°	18.4	14.1	9.9	8.5	7.1	11.3	18.4	31.1	46.6	55.1
11.3	17.5°	9.9	4.2	1.4	0.0	0.0	2.8	8.5	22.6	38.1	45.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	28.2	35.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	16.9	24.0
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	12.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
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	4.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	11.3
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°
81.9	0°	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
97.4	2.5°	100.2	98.8	96.0	93.2	93.2	93.2	97.4	101.6	105.9	105.9
87.5	5°	93.2	93.2	91.8	88.9	88.9	90.3	96.0	103.1	108.7	110.1
80.5	7.5°	86.1	88.9	86.1	84.7	86.1	87.5	93.2	101.6	110.1	112.9
74.8	10°	81.9	83.3	83.3	81.9	81.9	84.7	90.3	101.6	112.9	117.2
67.8	12.5°	76.2	79.1	77.6	77.6	77.6	80.5	87.5	100.2	115.8	121.4
60.7	15°	70.6	74.8	74.8	73.4	73.4	74.8	84.7	98.8	120.0	129.9
52.2	17.5°	64.9	69.2	70.6	67.8	67.8	70.6	80.5	98.8	122.8	139.8
42.3	20°	53.6	60.7	64.9	60.7	60.7	63.5	73.4	93.2	124.2	149.6
31.1	22.5°	42.3	49.4	55.1	53.6	53.6	55.1	67.8	88.9	125.6	166.6
18.4	25°	31.1	38.1	42.3	45.2	45.2	49.4	62.1	86.1	131.3	201.9
8.5	27.5°	18.4	26.8	32.5	35.3	36.7	42.3	57.9	83.3	141.2	252.7
0.0	30°	8.5	15.5	22.6	28.2	28.2	38.1	53.6	80.5	153.9	326.1
0.0	32.5°	0.0	7.1	11.3	19.8	21.2	31.1	49.4	77.6	172.2	396.7
0.0	35°	0.0	0.0	5.6	15.5	15.5	25.4	45.2	74.8	200.5	450.3
0.0	37.5°	0.0	0.0	0.0	11.3	12.7	22.6	43.8	73.4	206.1	454.6
0.0	40°	0.0	0.0	0.0	8.5	9.9	21.2	43.8	74.8	186.3	444.7
0.0	42.5°	0.0	0.0	0.0	5.6	7.1	21.2	43.8	77.6	168.0	456.0
0.0	45°	0.0	0.0	0.0	4.2	5.6	22.6	42.3	76.2	158.1	515.3
0.0	47.5°	0.0	0.0	0.0	5.6	8.5	22.6	40.9	74.8	159.5	711.5
0.0	50°	0.0	0.0	0.0	7.1	9.9	22.6	42.3	72.0	175.0	1094.0
0.0	52.5°	0.0	0.0	0.0	5.6	8.5	25.4	46.6	70.6	190.6	1422.9
0.0	55°	0.0	0.0	0.0	1.4	4.2	32.5	50.8	70.6	214.6	1504.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	36.7	57.9	74.8	254.1	1472.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	36.7	59.3	74.8	256.9	1444.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	36.7	64.9	83.3	276.7	1286.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	31.1	77.6	104.5	288.0	1010.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	25.4	91.8	114.3	296.4	804.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	24.0	94.6	115.8	300.7	640.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	25.4	93.2	124.2	314.8	520.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	28.2	84.7	136.9	314.8	461.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	29.6	79.1	153.9	286.6	399.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	28.2	77.6	179.3	255.5	328.9
0.0	80°	2.8	4.2	4.2	2.8	2.8	24.0	76.2	182.1	217.4	225.9
1.4	82.5°	8.5	11.3	9.9	7.1	7.1	21.2	67.8	152.5	112.9	97.4
8.5	85°	15.5	18.4	18.4	15.5	15.5	19.8	42.3	55.1	38.1	31.1
15.5	87.5°	21.2	24.0	24.0	21.2	21.2	19.8	18.4	16.9	15.5	15.5
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

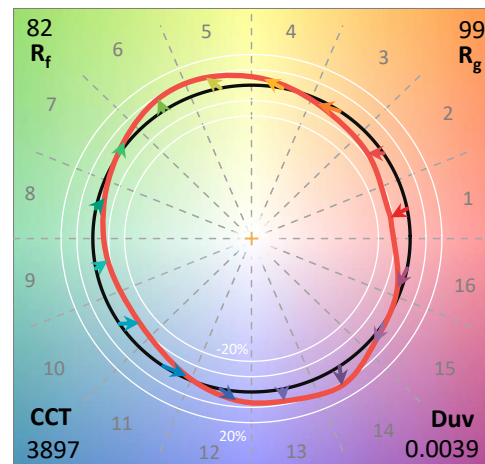
Test Information

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

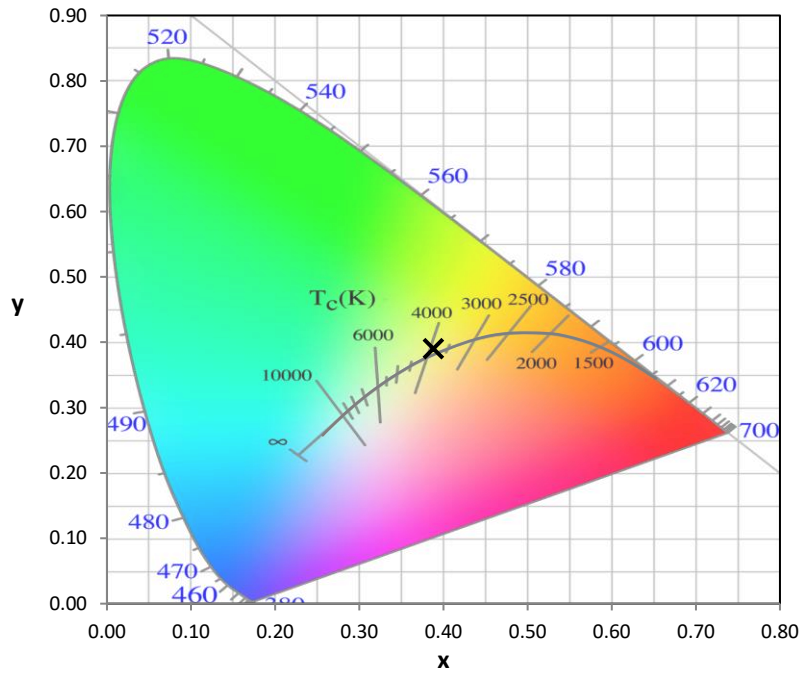
Stabilization Time: 24M
 Operation Time: 1H 24M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-11

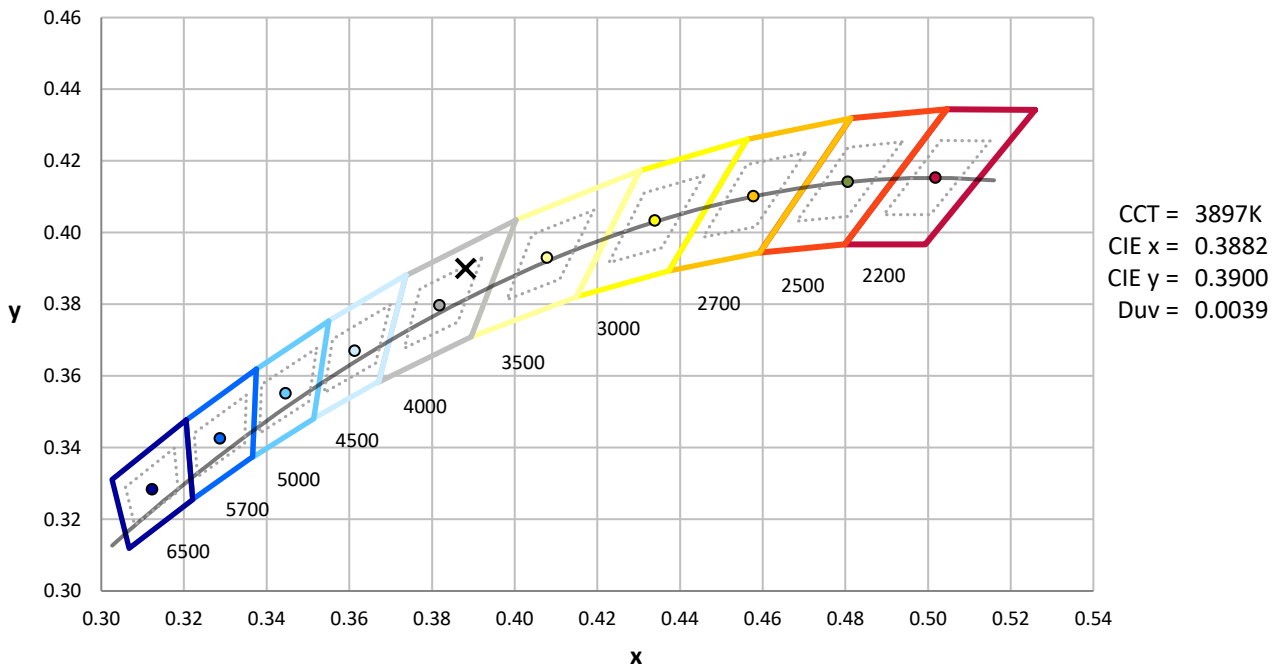
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

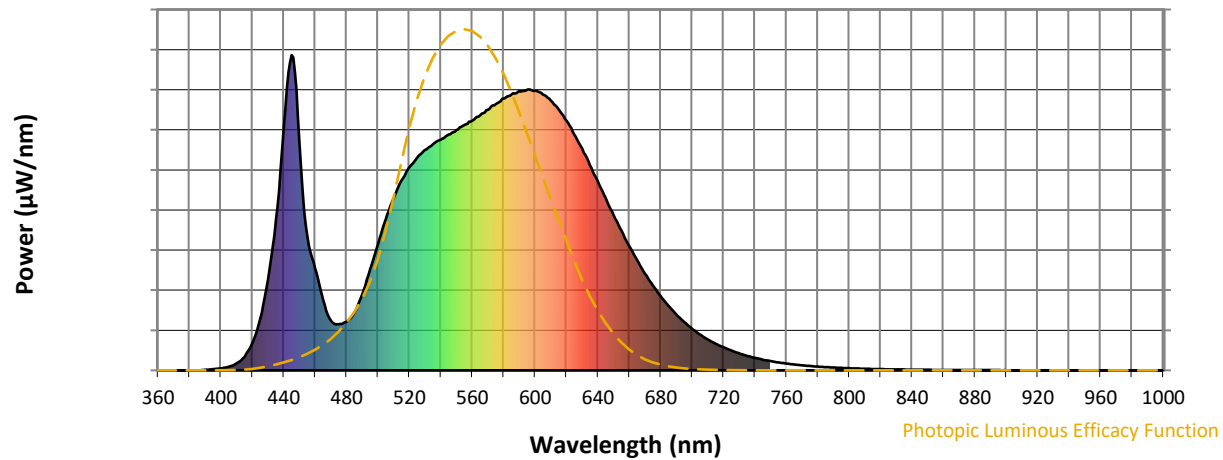


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

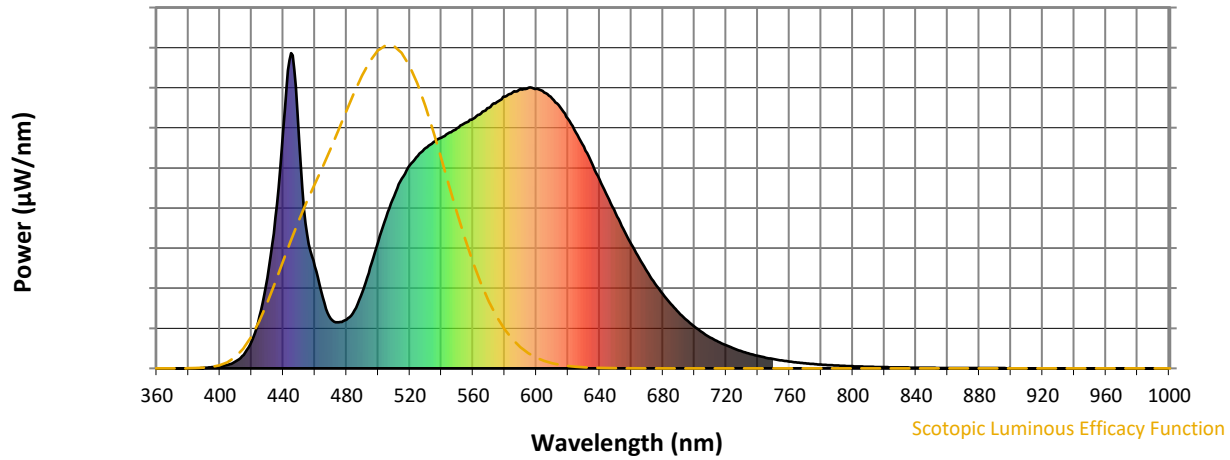
REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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

Scotopic Flux vs. Wavelength



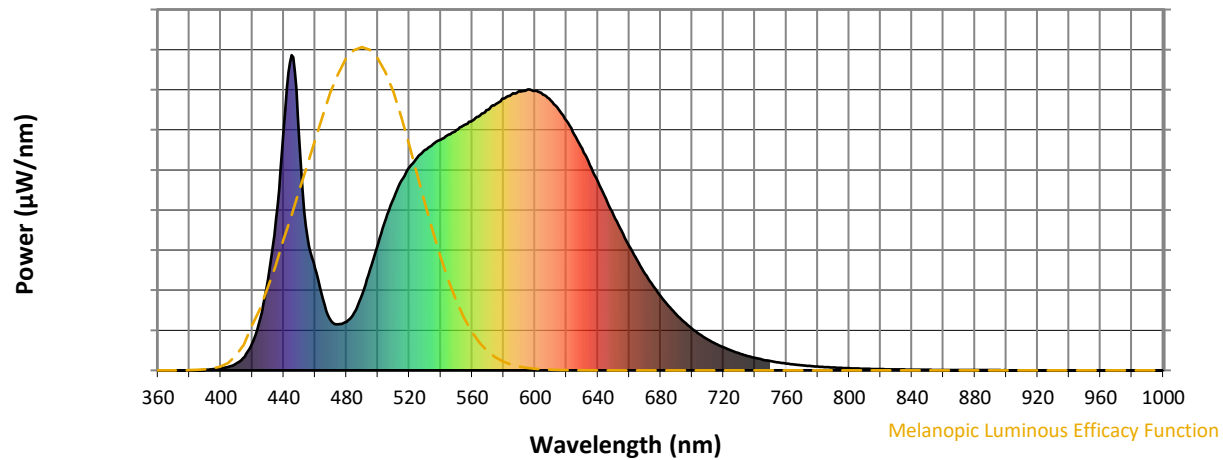
Scotopic Lumens: NR

S/P: 1.57

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	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

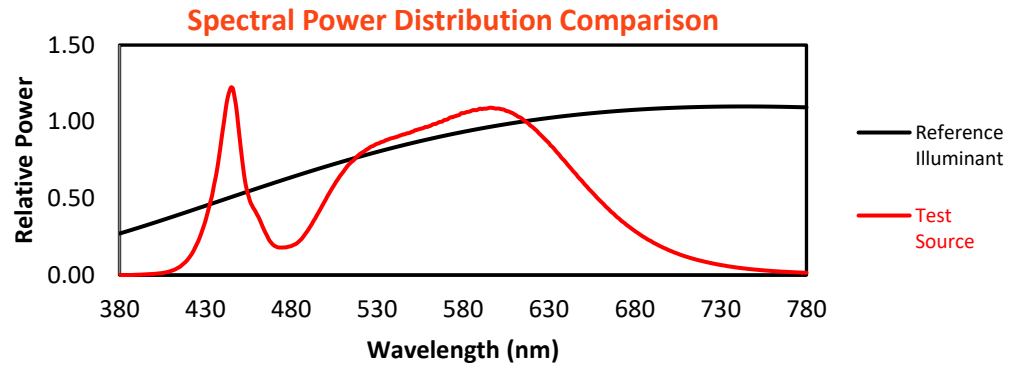
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	242	NR	620	792	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

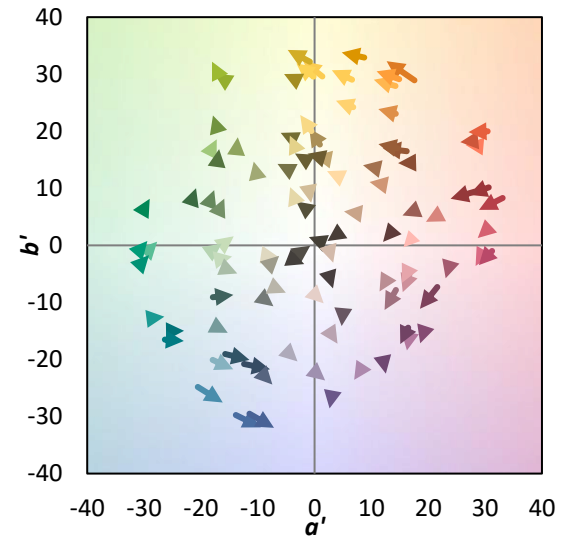
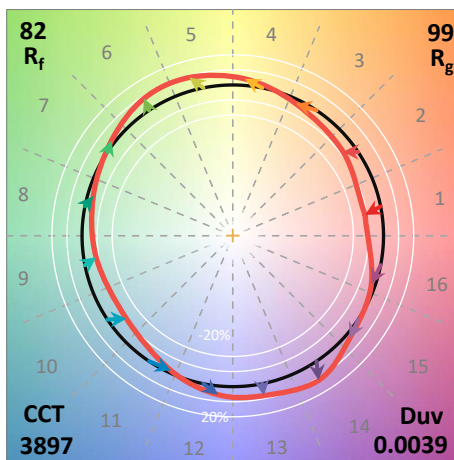
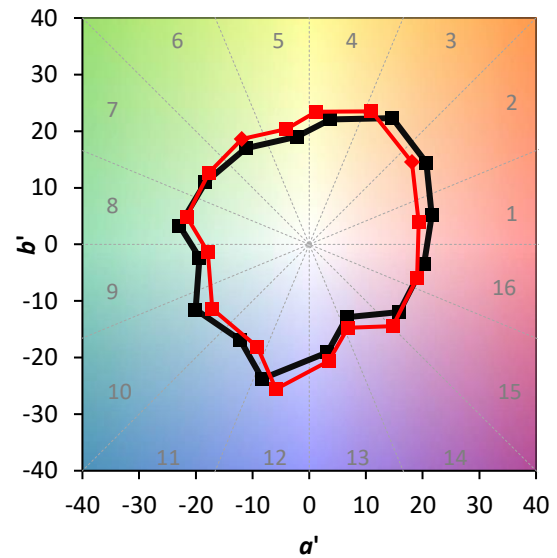
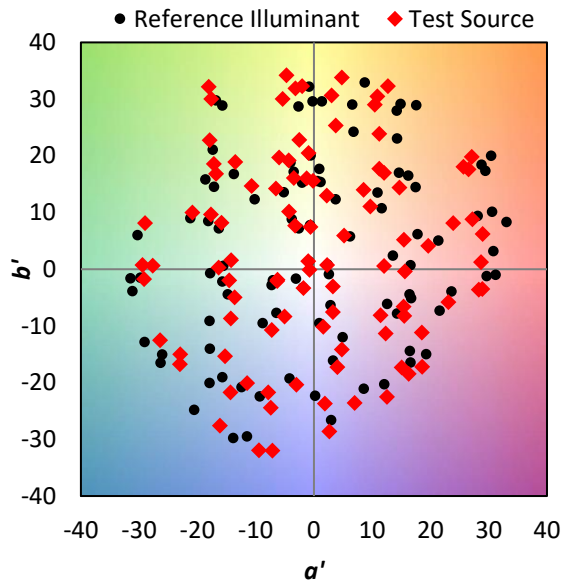
TM-30-18

Summary

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

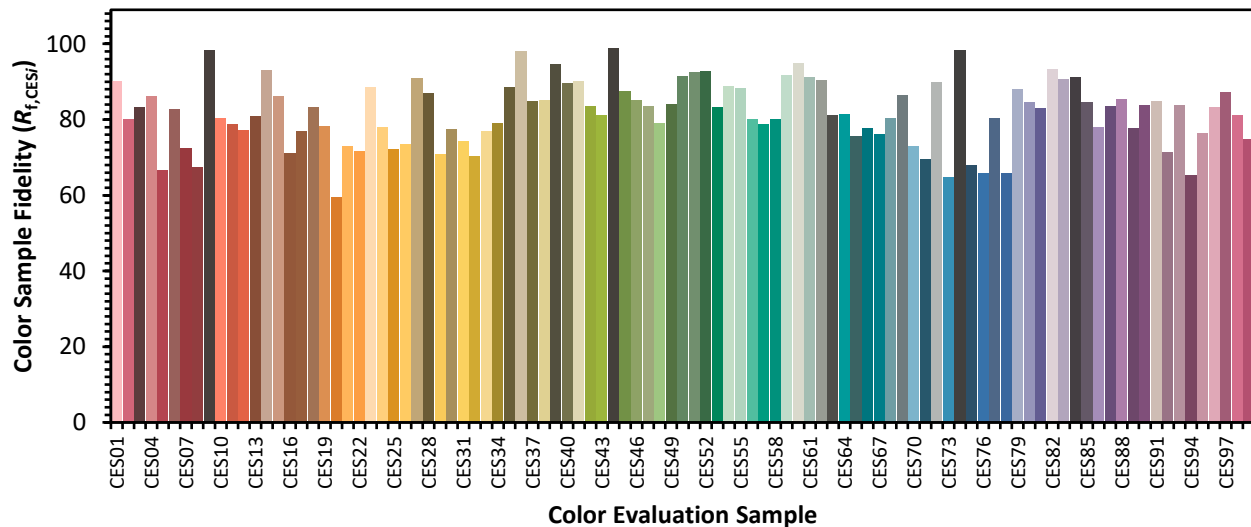


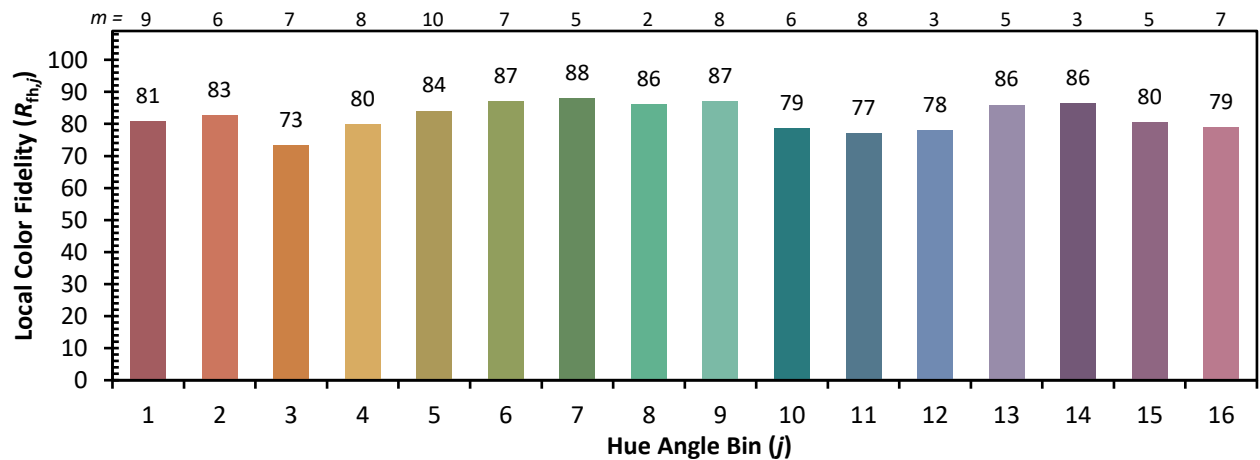
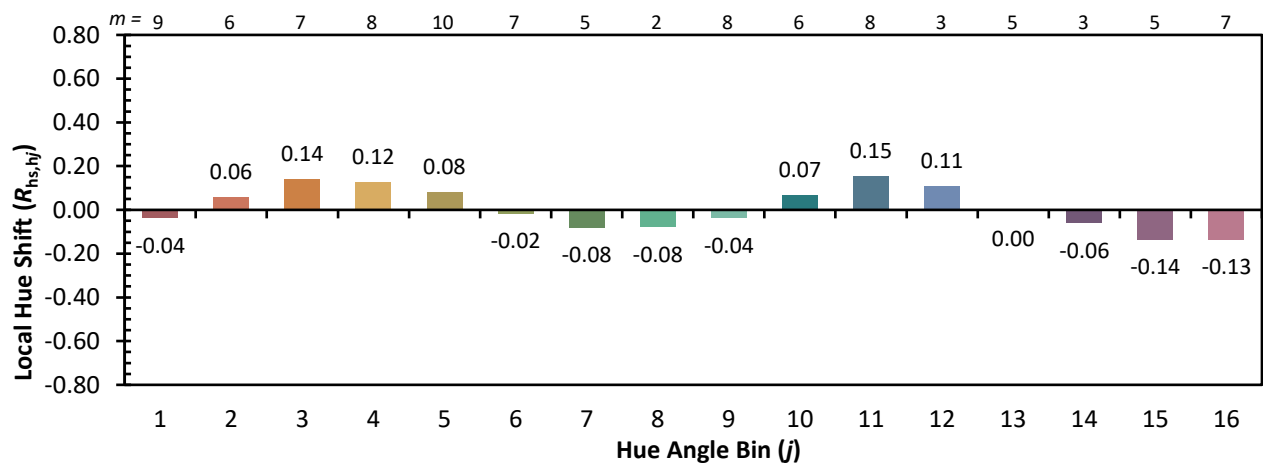
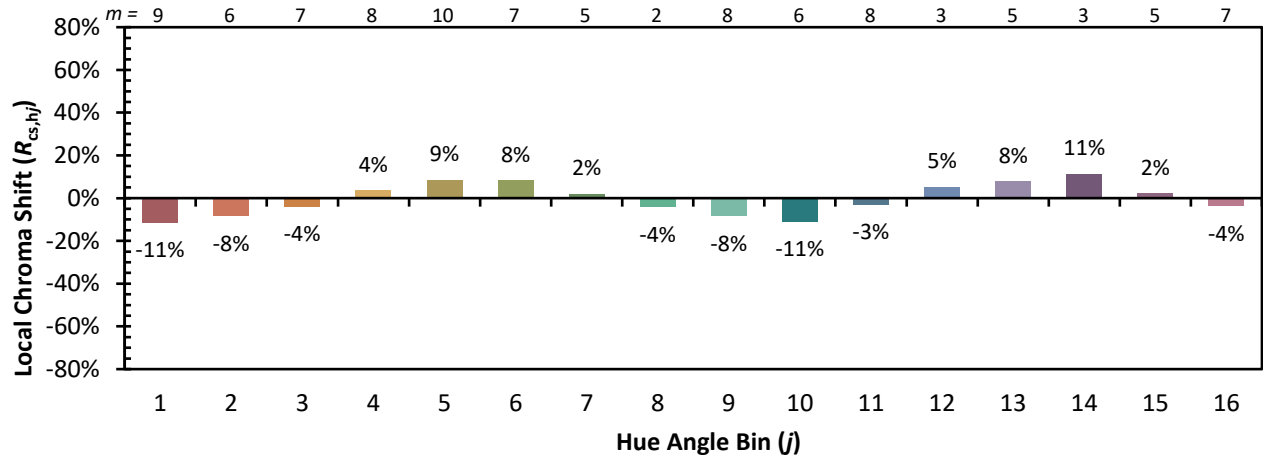
Color Vector Graphics

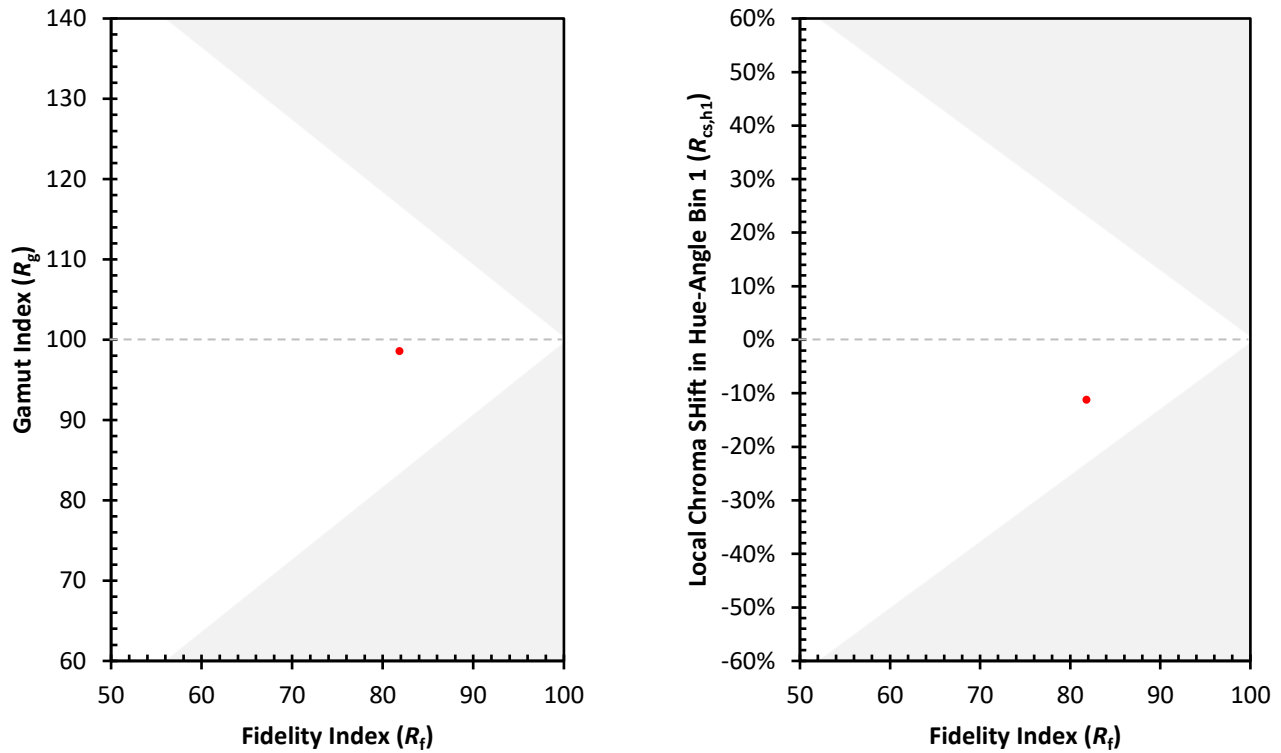


Individual Sample Fidelity Index ($R_{f,i}$)

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)