

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: P1049879

Luminaire Tested: **GALN-SA6C-850-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049879
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-850-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 6xLight Square PACKAGE
80CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27574.8 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

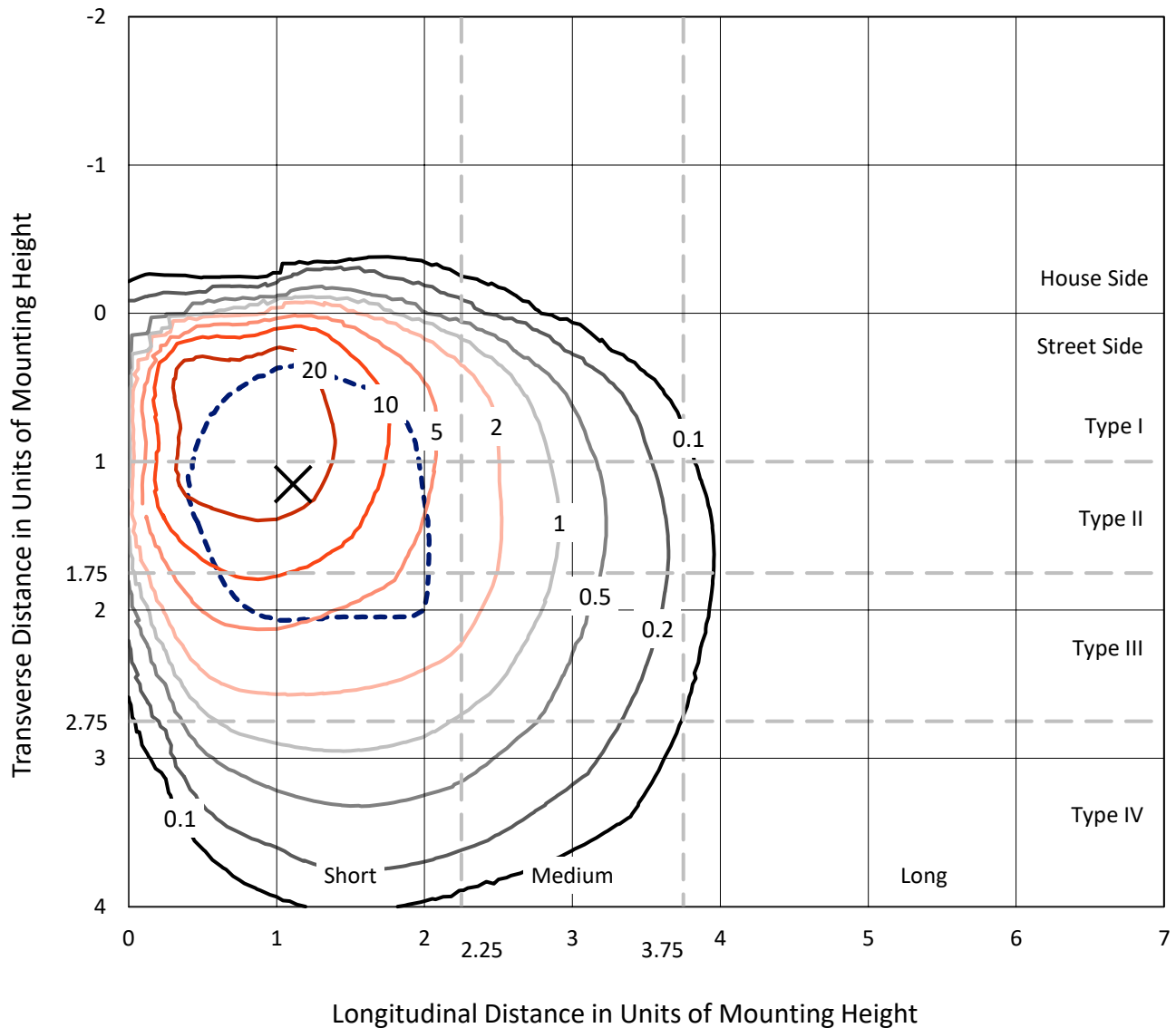
Input Watts (W): 282.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

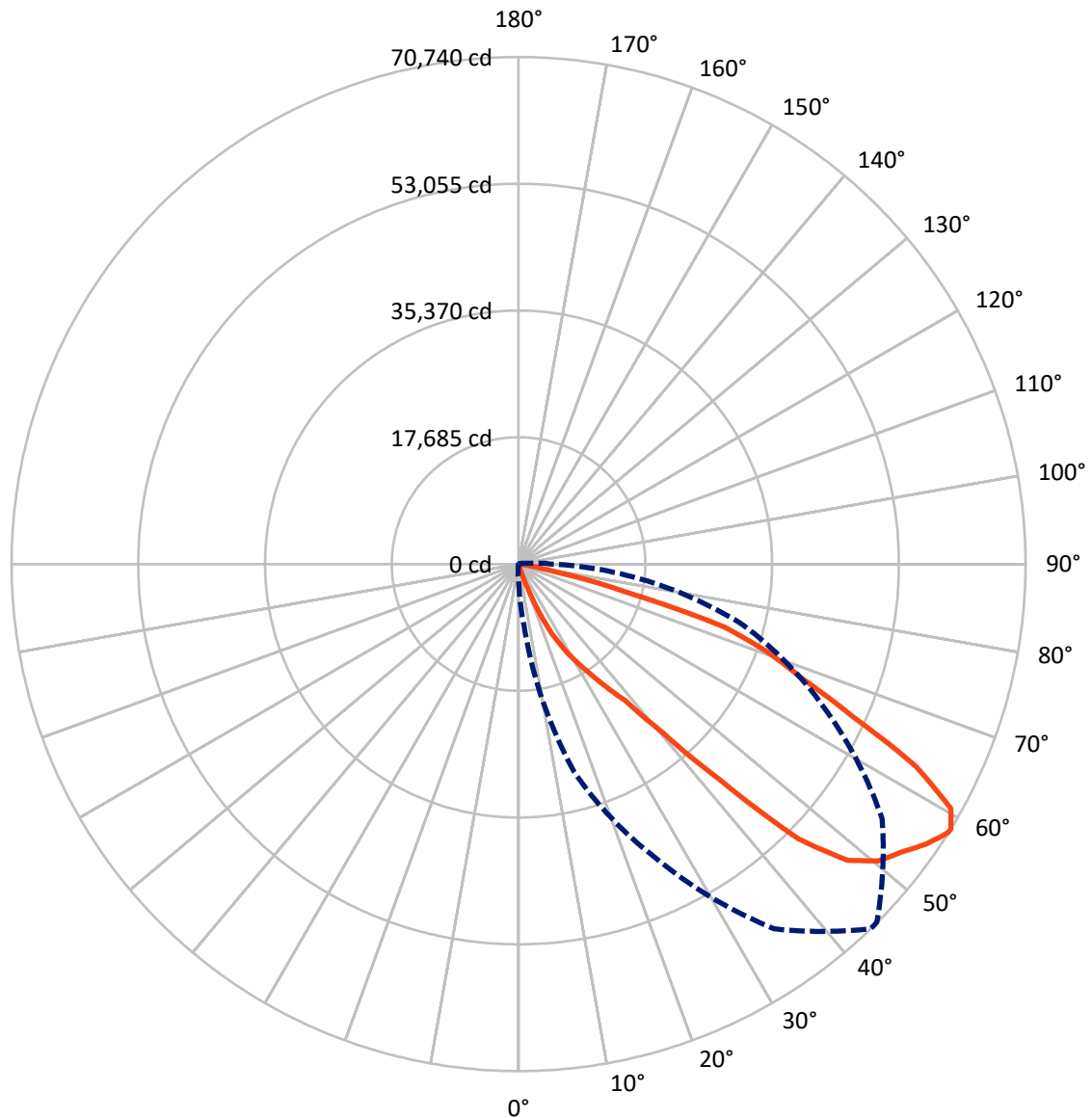


Based on 20 foot mounting height. Maximum calculated value = 48 fc
 Type III - Short - N/A

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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	188.3	0.0	188.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	27386.5	0.0	27386.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	27574.8	0.0	27574.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.8	0.0
10°-20°	60.5	0.2
20°-30°	653.2	2.4
30°-40°	1931.9	7.0
40°-50°	5758.1	20.9
50°-60°	9136.6	33.1
60°-70°	7621.0	27.6
70°-80°	2350.5	8.5
80°-90°	52.2	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°	27574.8	100.0
0°-180°	27574.8	100.0



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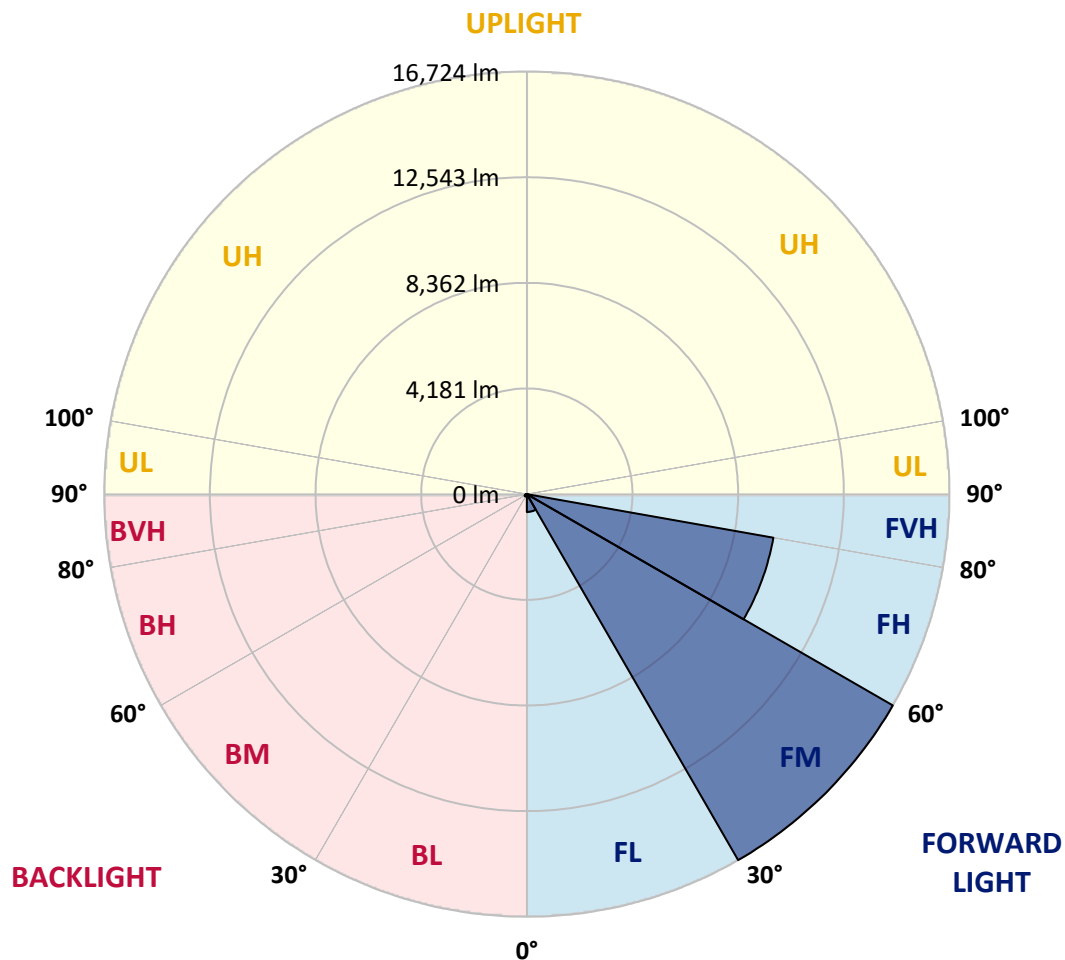
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	706.1	2.6			
FM	(30°-60°)	16723.5	60.6			
FH	(60°-80°)	9907.2	35.9			G4/12000
FVH	(80°-90°)	49.7	0.2			G1/100
BL	(0°-30°)	18.4	0.1	B0/110		
BM	(30°-60°)	103.1	0.4	B0/220		
BH	(60°-80°)	64.3	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	120.8	120.8	120.8	120.8	120.8	120.8	120.8	120.8	120.8	120.8
2.5°	156.2	156.2	150.0	141.6	133.3	125.0	122.9	118.7	116.7	114.6
5°	162.5	162.5	160.4	154.1	145.8	139.6	139.6	133.3	129.1	125.0
7.5°	166.6	168.7	172.9	170.8	166.6	160.4	160.4	156.2	150.0	139.6
10°	172.9	179.1	187.5	191.6	193.7	193.7	191.6	189.6	179.1	164.6
12.5°	179.1	191.6	212.5	233.3	245.8	262.5	260.4	256.2	229.1	197.9
15°	191.6	210.4	254.1	314.5	408.3	466.6	489.5	468.7	379.1	266.6
17.5°	206.2	237.5	368.7	658.2	1079.0	1279.0	1399.8	1301.9	862.4	506.2
20°	220.8	289.5	685.3	1706.0	2799.6	3453.7	3634.9	3351.6	2151.8	964.4
22.5°	245.8	406.2	1389.4	3526.6	6032.5	7013.6	7199.0	6292.9	4064.0	1903.9
25°	297.9	589.5	2395.5	5747.1	9002.9	10658.9	10581.9	9394.5	6592.8	3041.2
27.5°	372.9	858.2	3622.4	8165.5	11848.3	13308.6	13483.5	12015.0	8788.4	4472.3
30°	481.2	1189.4	4938.9	10102.8	14129.3	15708.2	15737.4	14218.8	10752.7	5728.4
32.5°	585.3	1501.9	6090.8	11975.4	16376.9	18107.9	18237.0	16368.5	12219.1	7036.5
35°	664.5	1706.0	7257.3	13621.0	18643.2	21028.3	21020.0	18801.5	13956.4	8205.1
37.5°	670.7	1910.1	8313.4	15304.1	21513.7	24184.1	24448.7	22003.2	16056.1	9650.7
40°	656.2	2139.3	9650.7	17928.7	26685.9	30783.2	31016.5	27933.6	20268.0	12125.4
42.5°	672.8	2537.1	11821.3	22776.0	35274.2	41158.8	41608.8	38367.5	28010.7	17174.7
45°	760.3	3285.0	16368.5	30885.3	47516.3	54690.3	54540.3	49872.2	37019.8	24861.1
47.5°	1049.9	5116.0	23109.3	38777.9	55340.2	61728.9	61858.0	56152.6	42277.4	30770.7
50°	1614.4	7828.1	28773.1	42950.2	58704.3	65113.8	64993.0	58400.2	44275.1	33680.7
52.5°	2099.7	9790.3	31614.3	44414.6	59135.5	66786.5	66778.2	58991.7	44585.4	33930.7
55°	2220.5	9938.2	31637.2	44493.8	60102.0	68975.8	69250.7	60447.8	44987.5	32839.2
57.5°	2172.6	8798.8	30316.6	44952.0	61822.6	70669.3	70683.9	61858.0	46008.1	32170.5
58°	2131.0	8619.6	30050.0	45212.4	62118.4	70740.1	70704.7	61922.6	46839.3	32145.5
60°	1897.7	7484.4	29010.5	45876.9	61678.9	69286.1	68954.9	60512.4	46716.4	31889.3
62.5°	1491.5	5838.8	27987.8	45108.3	56967.0	62247.5	62385.0	53573.8	42587.8	30395.7
65°	1187.3	4351.5	25854.7	39567.4	46910.1	51117.8	51630.3	43564.7	35547.1	25738.1
67.5°	945.7	3145.4	21688.6	31501.8	37119.8	42662.8	43035.6	36576.1	27539.9	19720.2
70°	768.6	2126.8	14970.8	23038.4	30616.6	36849.0	36871.9	30385.3	20555.5	12921.1
72.5°	681.2	1472.7	8690.5	16801.8	24825.7	30027.0	29420.9	24657.0	15797.8	7653.1
75°	589.5	976.9	4261.9	10271.5	15052.1	15154.1	15385.3	11438.0	7896.8	3639.1
77.5°	485.3	693.7	1678.9	2805.9	4514.0	5778.4	5992.9	4541.0	2626.7	895.7
80°	333.3	329.1	452.0	860.3	1291.5	1618.5	1510.2	1168.6	687.4	343.7
82.5°	143.7	156.2	204.1	245.8	200.0	193.7	185.4	118.7	91.7	70.8
85°	45.8	41.7	43.7	43.7	35.4	27.1	27.1	12.5	0.0	0.0
87.5°	22.9	18.7	18.7	16.7	10.4	4.2	2.1	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°
120.8	0°	120.8	120.8	120.8	120.8	120.8	120.8	120.8	120.8	120.8	120.8
112.5	2.5°	110.4	110.4	106.2	102.1	100.0	95.8	93.7	91.7	89.6	87.5
120.8	5°	116.7	114.6	108.3	102.1	95.8	89.6	85.4	81.2	77.1	75.0
133.3	7.5°	127.1	122.9	110.4	100.0	91.7	83.3	79.2	72.9	68.7	62.5
147.9	10°	139.6	131.2	114.6	102.1	89.6	79.2	72.9	66.7	60.4	52.1
168.7	12.5°	156.2	141.6	120.8	100.0	85.4	72.9	66.7	58.3	52.1	45.8
195.8	15°	170.8	152.1	122.9	100.0	81.2	66.7	58.3	50.0	43.7	35.4
245.8	17.5°	191.6	160.4	120.8	93.7	75.0	58.3	50.0	43.7	33.3	20.8
364.5	20°	227.1	166.6	116.7	87.5	64.6	47.9	37.5	29.2	14.6	4.2
547.8	22.5°	283.3	183.3	112.5	79.2	56.2	37.5	25.0	10.4	0.0	0.0
833.2	25°	391.6	212.5	112.5	75.0	50.0	27.1	8.3	0.0	0.0	0.0
1183.2	27.5°	520.8	252.0	112.5	64.6	39.6	14.6	0.0	0.0	0.0	0.0
1612.3	30°	652.0	295.8	112.5	56.2	31.2	2.1	0.0	0.0	0.0	0.0
1985.1	32.5°	777.0	333.3	114.6	47.9	20.8	0.0	0.0	0.0	0.0	0.0
2501.7	35°	904.0	339.5	112.5	41.7	12.5	0.0	0.0	0.0	0.0	0.0
3135.0	37.5°	1066.5	327.0	106.2	37.5	6.2	0.0	0.0	0.0	0.0	0.0
4124.4	40°	1312.3	333.3	100.0	35.4	2.1	0.0	0.0	0.0	0.0	0.0
5888.8	42.5°	1766.4	360.4	91.7	35.4	0.0	0.0	0.0	0.0	0.0	0.0
9379.9	45°	3053.7	483.3	83.3	37.5	0.0	0.0	0.0	0.0	0.0	0.0
14081.4	47.5°	5051.4	868.6	81.2	37.5	0.0	0.0	0.0	0.0	0.0	0.0
16962.2	50°	6447.0	1093.6	85.4	39.6	0.0	0.0	0.0	0.0	0.0	0.0
17322.6	52.5°	6436.6	1218.6	89.6	41.7	8.3	0.0	0.0	0.0	0.0	0.0
15966.5	55°	5722.1	1241.5	95.8	45.8	27.1	0.0	0.0	0.0	0.0	0.0
13721.0	57.5°	4782.7	1133.2	110.4	56.2	50.0	0.0	0.0	0.0	0.0	0.0
13369.0	58°	4616.0	1083.2	114.6	58.3	54.2	0.0	0.0	0.0	0.0	0.0
11596.3	60°	3782.8	883.2	145.8	72.9	72.9	0.0	0.0	0.0	0.0	0.0
9507.0	62.5°	2612.1	770.7	166.6	93.7	75.0	0.0	0.0	0.0	0.0	0.0
7009.4	65°	1847.7	695.7	181.2	100.0	60.4	0.0	0.0	0.0	0.0	0.0
4980.6	67.5°	1381.1	641.6	200.0	102.1	31.2	0.0	0.0	0.0	0.0	0.0
3124.6	70°	1058.2	602.0	245.8	108.3	8.3	0.0	0.0	0.0	0.0	0.0
1862.2	72.5°	862.4	556.2	297.9	112.5	0.0	0.0	0.0	0.0	0.0	0.0
1116.5	75°	714.5	502.0	287.5	122.9	0.0	0.0	0.0	0.0	0.0	0.0
595.7	77.5°	474.9	389.5	262.5	122.9	0.0	0.0	0.0	0.0	0.0	0.0
212.5	80°	166.6	154.1	204.1	108.3	0.0	0.0	0.0	0.0	0.0	0.0
43.7	82.5°	25.0	20.8	29.2	37.5	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°
120.8	0°	120.8	120.8	120.8	120.8	120.8	120.8	120.8	120.8	120.8	120.8
85.4	2.5°	85.4	85.4	83.3	85.4	85.4	89.6	100.0	114.6	131.2	137.5
72.9	5°	70.8	68.7	66.7	66.7	66.7	72.9	81.2	97.9	116.7	125.0
60.4	7.5°	58.3	56.2	54.2	52.1	52.1	56.2	66.7	85.4	104.2	112.5
50.0	10°	47.9	43.7	41.7	39.6	39.6	43.7	54.2	72.9	93.7	102.1
41.7	12.5°	39.6	33.3	29.2	27.1	25.0	31.2	41.7	58.3	81.2	91.7
31.2	15°	27.1	20.8	14.6	12.5	10.4	16.7	27.1	45.8	68.7	81.2
16.7	17.5°	14.6	6.2	2.1	0.0	0.0	4.2	12.5	33.3	56.2	66.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	41.7	52.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	25.0	35.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	18.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
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	6.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.7
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°
120.8	0°	120.8	120.8	120.8	120.8	120.8	120.8	120.8	120.8	120.8	120.8
143.7	2.5°	147.9	145.8	141.6	137.5	137.5	137.5	143.7	150.0	156.2	156.2
129.1	5°	137.5	137.5	135.4	131.2	131.2	133.3	141.6	152.1	160.4	162.5
118.7	7.5°	127.1	131.2	127.1	125.0	127.1	129.1	137.5	150.0	162.5	166.6
110.4	10°	120.8	122.9	122.9	120.8	120.8	125.0	133.3	150.0	166.6	172.9
100.0	12.5°	112.5	116.7	114.6	114.6	114.6	118.7	129.1	147.9	170.8	179.1
89.6	15°	104.2	110.4	110.4	108.3	108.3	110.4	125.0	145.8	177.1	191.6
77.1	17.5°	95.8	102.1	104.2	100.0	100.0	104.2	118.7	145.8	181.2	206.2
62.5	20°	79.2	89.6	95.8	89.6	89.6	93.7	108.3	137.5	183.3	220.8
45.8	22.5°	62.5	72.9	81.2	79.2	79.2	81.2	100.0	131.2	185.4	245.8
27.1	25°	45.8	56.2	62.5	66.7	66.7	72.9	91.7	127.1	193.7	297.9
12.5	27.5°	27.1	39.6	47.9	52.1	54.2	62.5	85.4	122.9	208.3	372.9
0.0	30°	12.5	22.9	33.3	41.7	41.7	56.2	79.2	118.7	227.1	481.2
0.0	32.5°	0.0	10.4	16.7	29.2	31.2	45.8	72.9	114.6	254.1	585.3
0.0	35°	0.0	0.0	8.3	22.9	22.9	37.5	66.7	110.4	295.8	664.5
0.0	37.5°	0.0	0.0	0.0	16.7	18.7	33.3	64.6	108.3	304.1	670.7
0.0	40°	0.0	0.0	0.0	12.5	14.6	31.2	64.6	110.4	275.0	656.2
0.0	42.5°	0.0	0.0	0.0	8.3	10.4	31.2	64.6	114.6	247.9	672.8
0.0	45°	0.0	0.0	0.0	6.2	8.3	33.3	62.5	112.5	233.3	760.3
0.0	47.5°	0.0	0.0	0.0	8.3	12.5	33.3	60.4	110.4	235.4	1049.9
0.0	50°	0.0	0.0	0.0	10.4	14.6	33.3	62.5	106.2	258.3	1614.4
0.0	52.5°	0.0	0.0	0.0	8.3	12.5	37.5	68.7	104.2	281.2	2099.7
0.0	55°	0.0	0.0	0.0	2.1	6.2	47.9	75.0	104.2	316.6	2220.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	54.2	85.4	110.4	374.9	2172.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	54.2	87.5	110.4	379.1	2131.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	54.2	95.8	122.9	408.3	1897.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	45.8	114.6	154.1	424.9	1491.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	37.5	135.4	168.7	437.4	1187.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	35.4	139.6	170.8	443.7	945.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	37.5	137.5	183.3	464.5	768.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	41.7	125.0	202.1	464.5	681.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	43.7	116.7	227.1	422.9	589.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	41.7	114.6	264.5	377.0	485.3
0.0	80°	4.2	6.2	6.2	4.2	4.2	35.4	112.5	268.7	320.8	333.3
2.1	82.5°	12.5	16.7	14.6	10.4	10.4	31.2	100.0	225.0	166.6	143.7
12.5	85°	22.9	27.1	27.1	22.9	22.9	29.2	62.5	81.2	56.2	45.8
22.9	87.5°	31.2	35.4	35.4	31.2	31.2	29.2	27.1	25.0	22.9	22.9
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: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

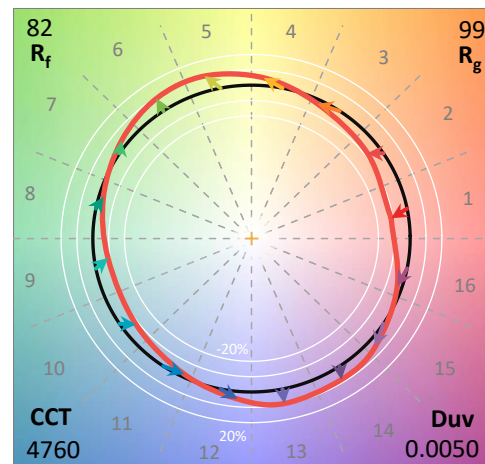
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-12
 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-850-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4760
 CIE u' : 0.2107
 CIE v' : 0.4939
 Duv: 0.0050
 CIE x: 0.3537
 CIE y: 0.3685
 CIE z: 0.2779
 Peak Wavelength (nm): 443
 Dominant Wavelength (nm): 571
 Purity: 16.69598
 R_f: 82
 R_g: 99.4

CRI (Ra): 81.1
 R1: 79.8
 R2: 83.5
 R3: 87.9
 R4: 83.1
 R5: 80.5
 R6: 79.1
 R7: 86.1
 R8: 69.0
 R9: 8.7
 R10: 62.4
 R11: 83.8
 R12: 63.0
 R13: 79.9
 R14: 93.3
 R15: 72.7



Test Conditions

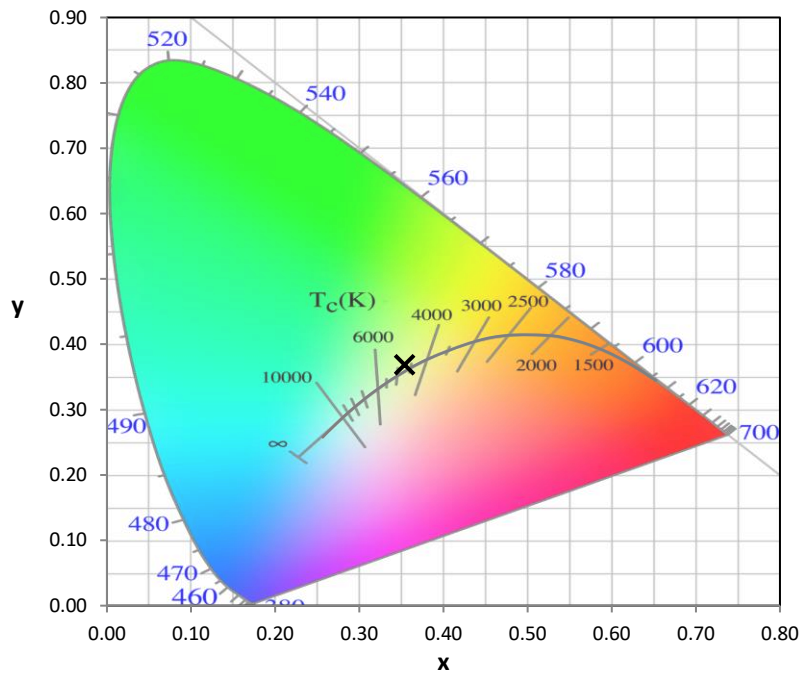
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-12

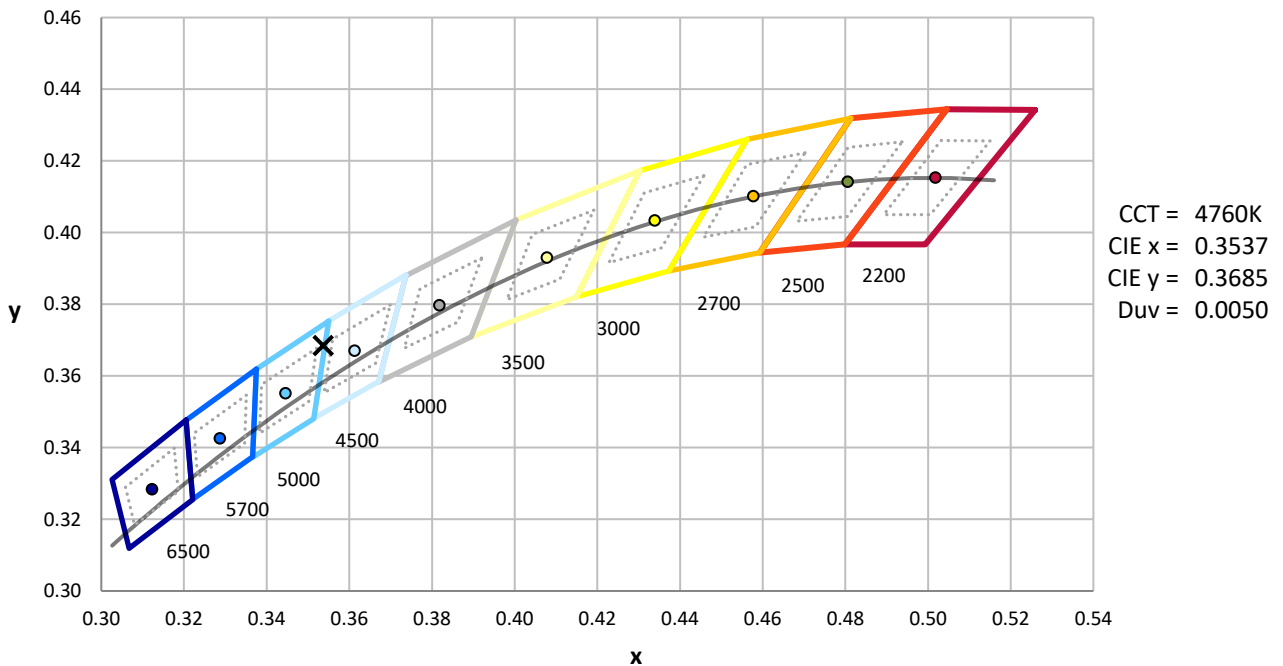
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-12

CIE 1931 Chromaticity Diagram



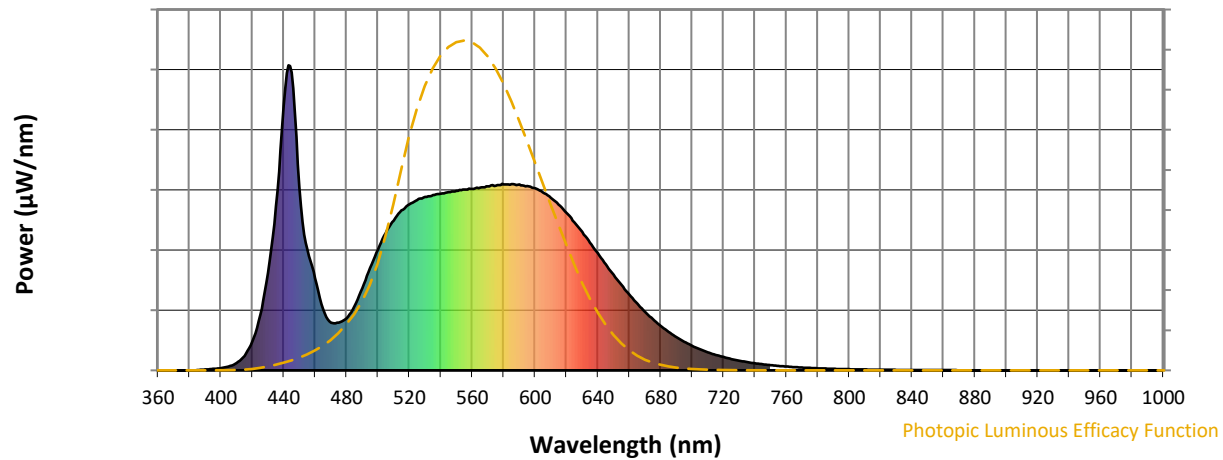
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

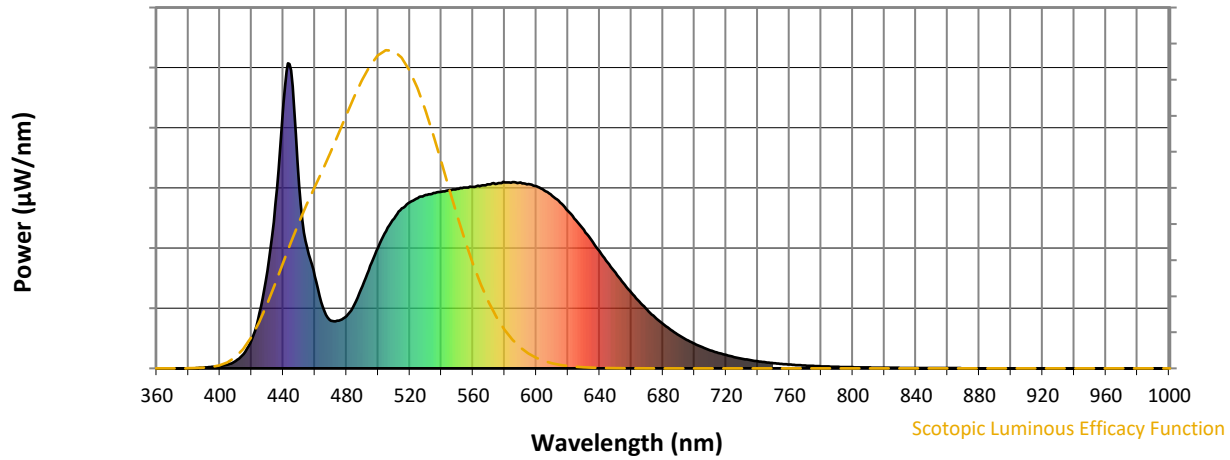


Photopic Lumens: NR

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Scotopic Flux vs. Wavelength



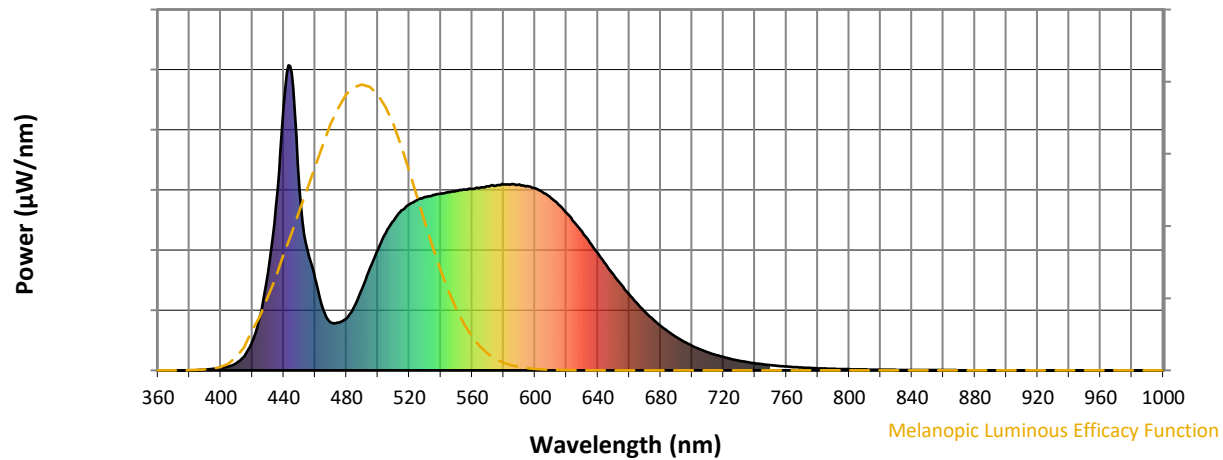
Scotopic Lumens: NR

S/P: 1.83

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

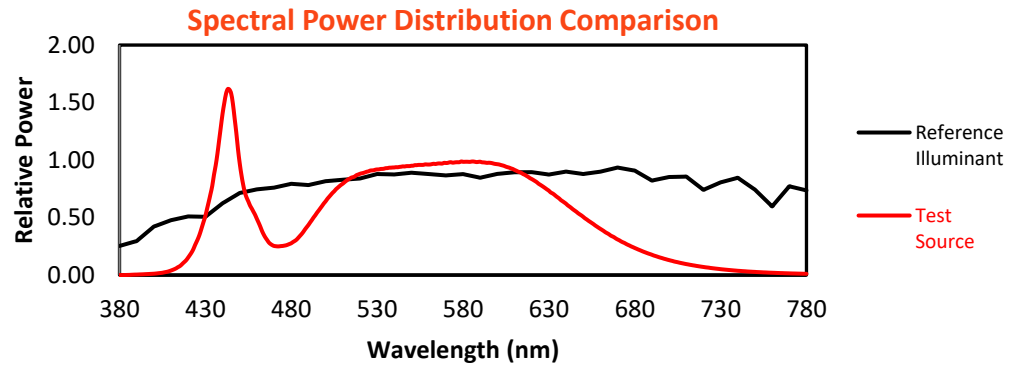
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

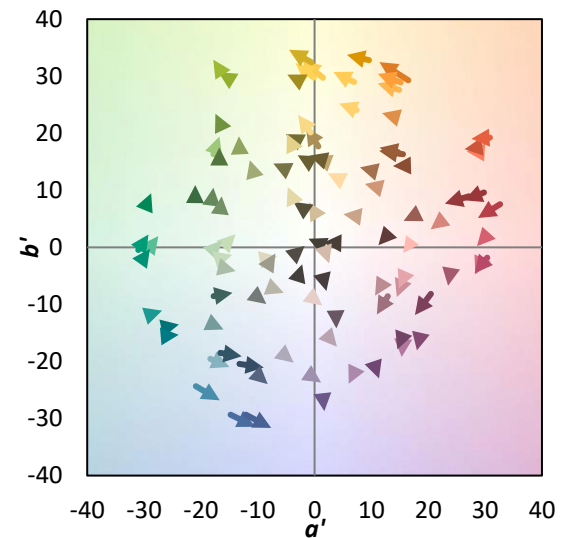
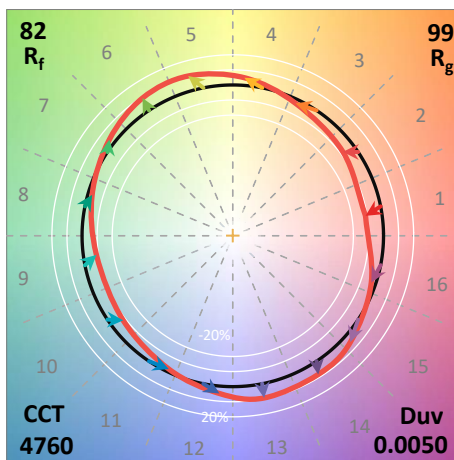
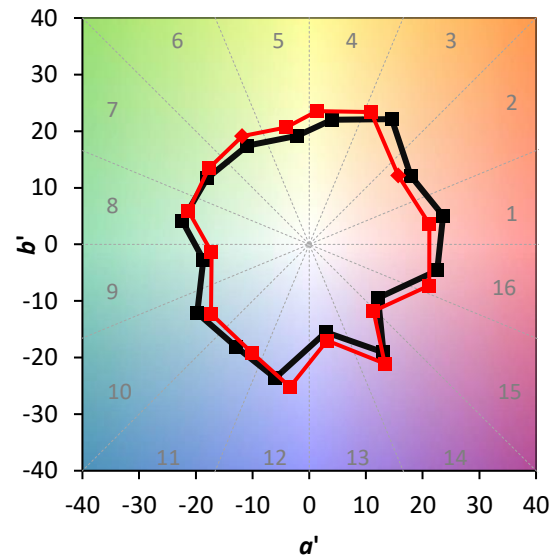
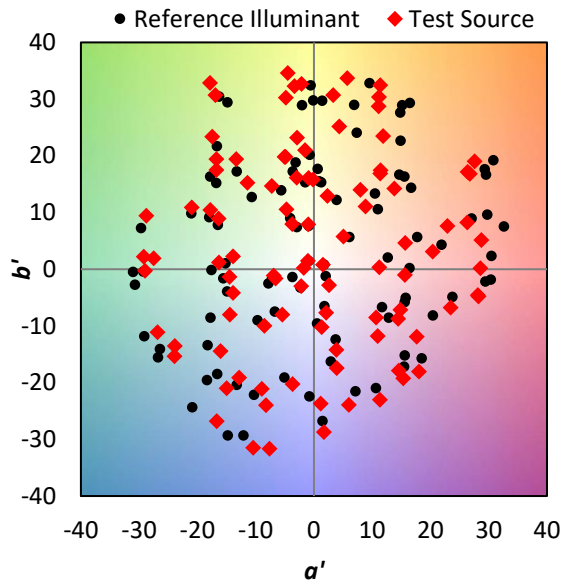
TM-30-18

Summary

$R_f = 82$
 $R_g = 99.4$
 $CIE R_a = 81.1$
 $R_9 = 8.7$

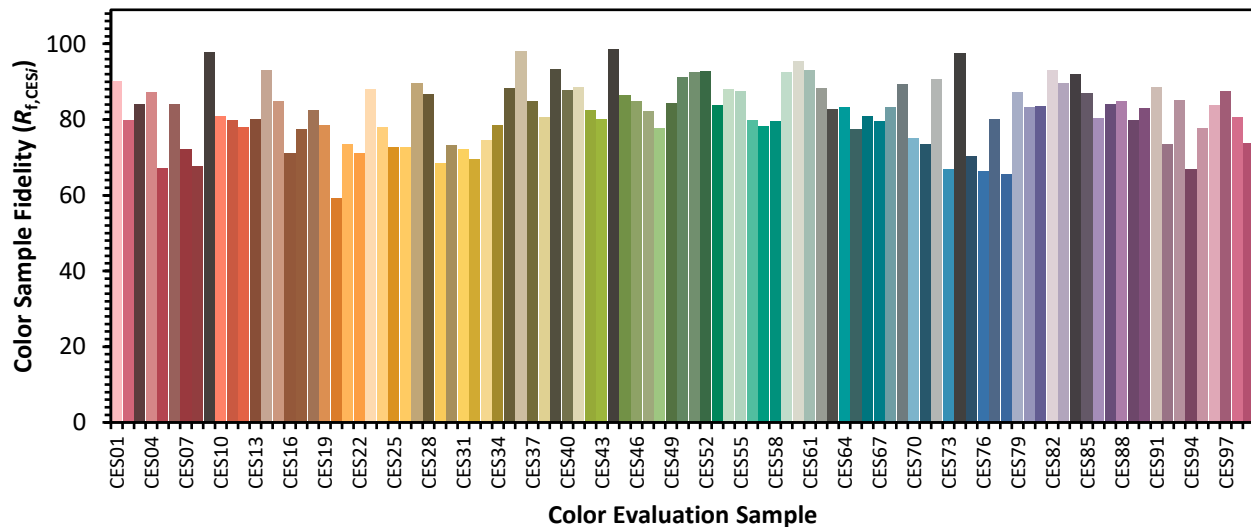


Color Vector Graphics

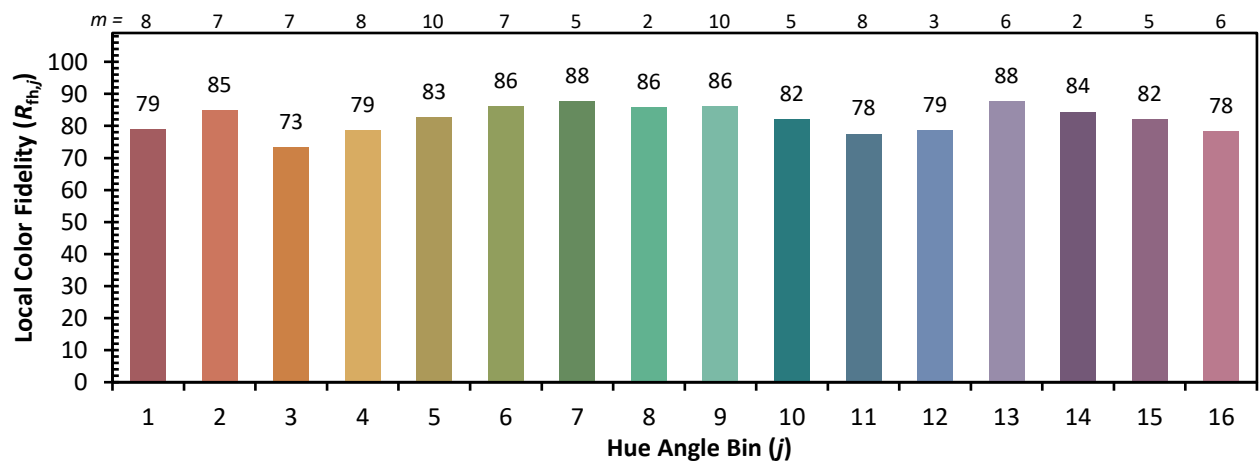
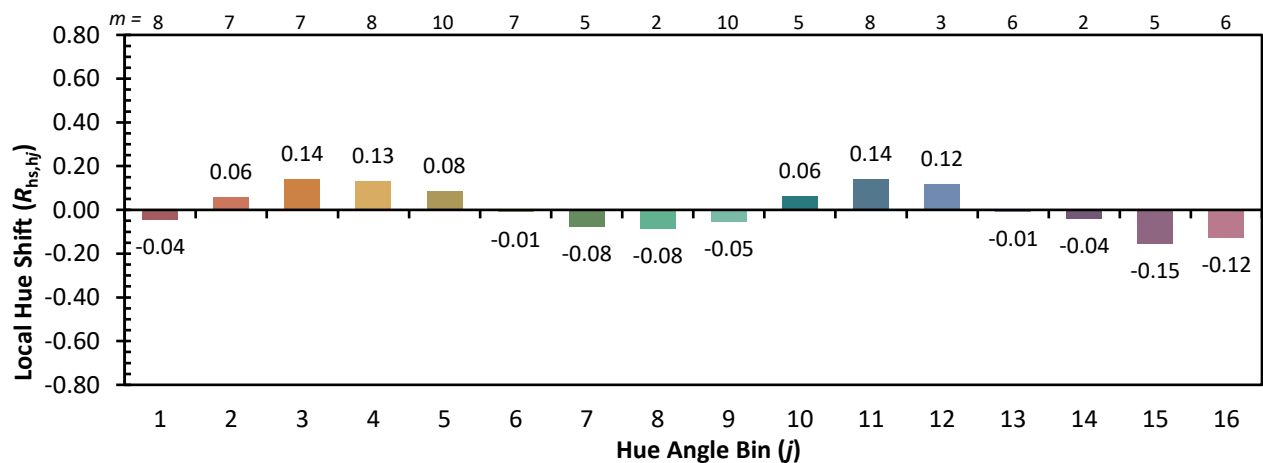
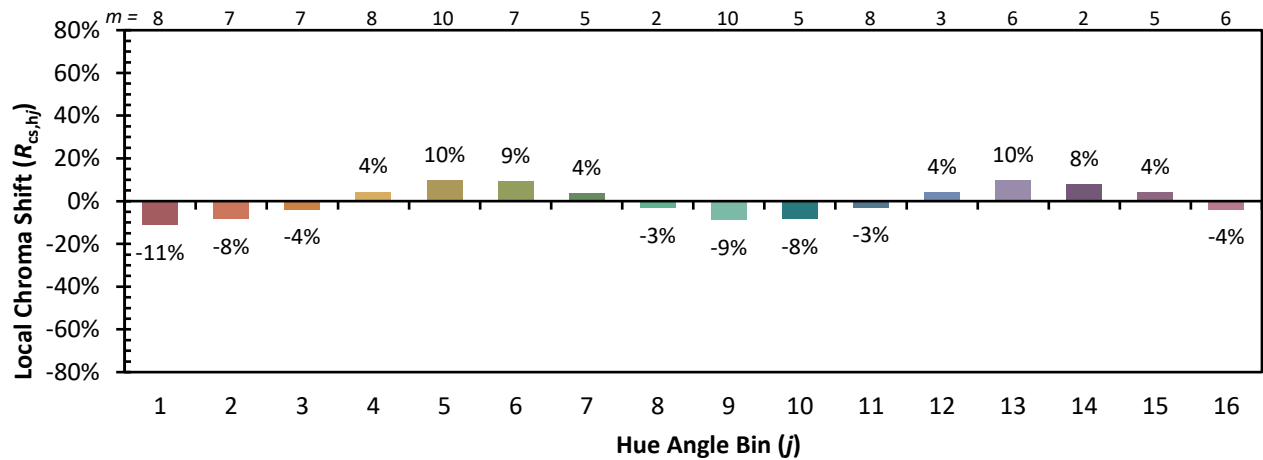


Individual Sample Fidelity Index ($R_{f,i}$)

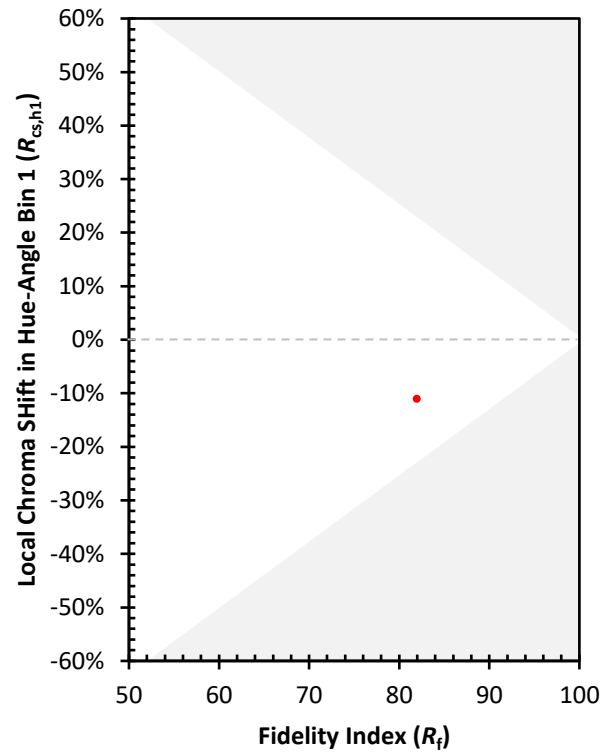
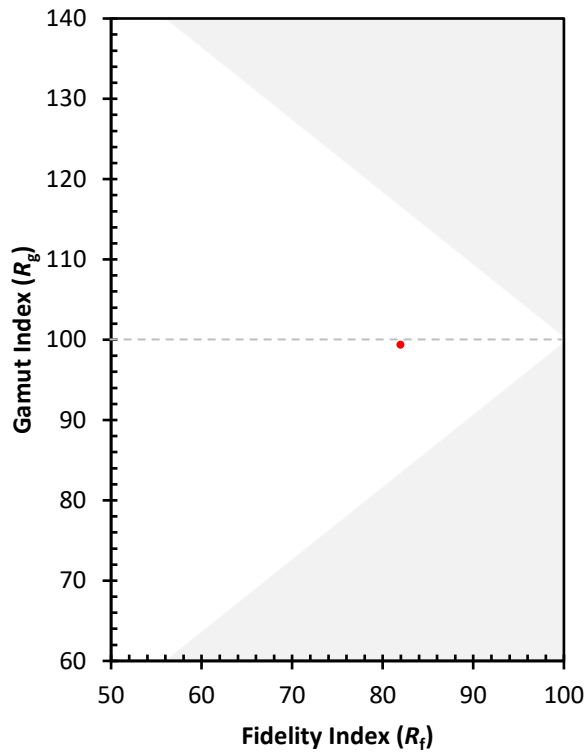
CES01 = 85	CES26 = 73	CES51 = 92	CES76 = 66
CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 93
CES08 = 39	CES33 = 75	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 78	CES59 = 93	CES84 = 92
CES10 = 73	CES35 = 88	CES60 = 95	CES85 = 87
CES11 = 56	CES36 = 98	CES61 = 93	CES86 = 80
CES12 = 62	CES37 = 85	CES62 = 88	CES87 = 84
CES13 = 42	CES38 = 81	CES63 = 83	CES88 = 85
CES14 = 74	CES39 = 93	CES64 = 83	CES89 = 80
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 83
CES16 = 46	CES41 = 89	CES66 = 81	CES91 = 89
CES17 = 48	CES42 = 82	CES67 = 80	CES92 = 73
CES18 = 55	CES43 = 80	CES68 = 83	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 89	CES94 = 67
CES20 = 64	CES45 = 87	CES70 = 75	CES95 = 78
CES21 = 85	CES46 = 85	CES71 = 73	CES96 = 84
CES22 = 77	CES47 = 82	CES72 = 91	CES97 = 87
CES23 = 91	CES48 = 78	CES73 = 67	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 74
CES25 = 71	CES50 = 91	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)