

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: STREETWORKS

Report Number: P1065706

Luminaire Tested: **GLAN-SA9B-950-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065706
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9B-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 9xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28583.8 lumens
Efficiency: N/A
Efficacy: 91.4 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): 312.7
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

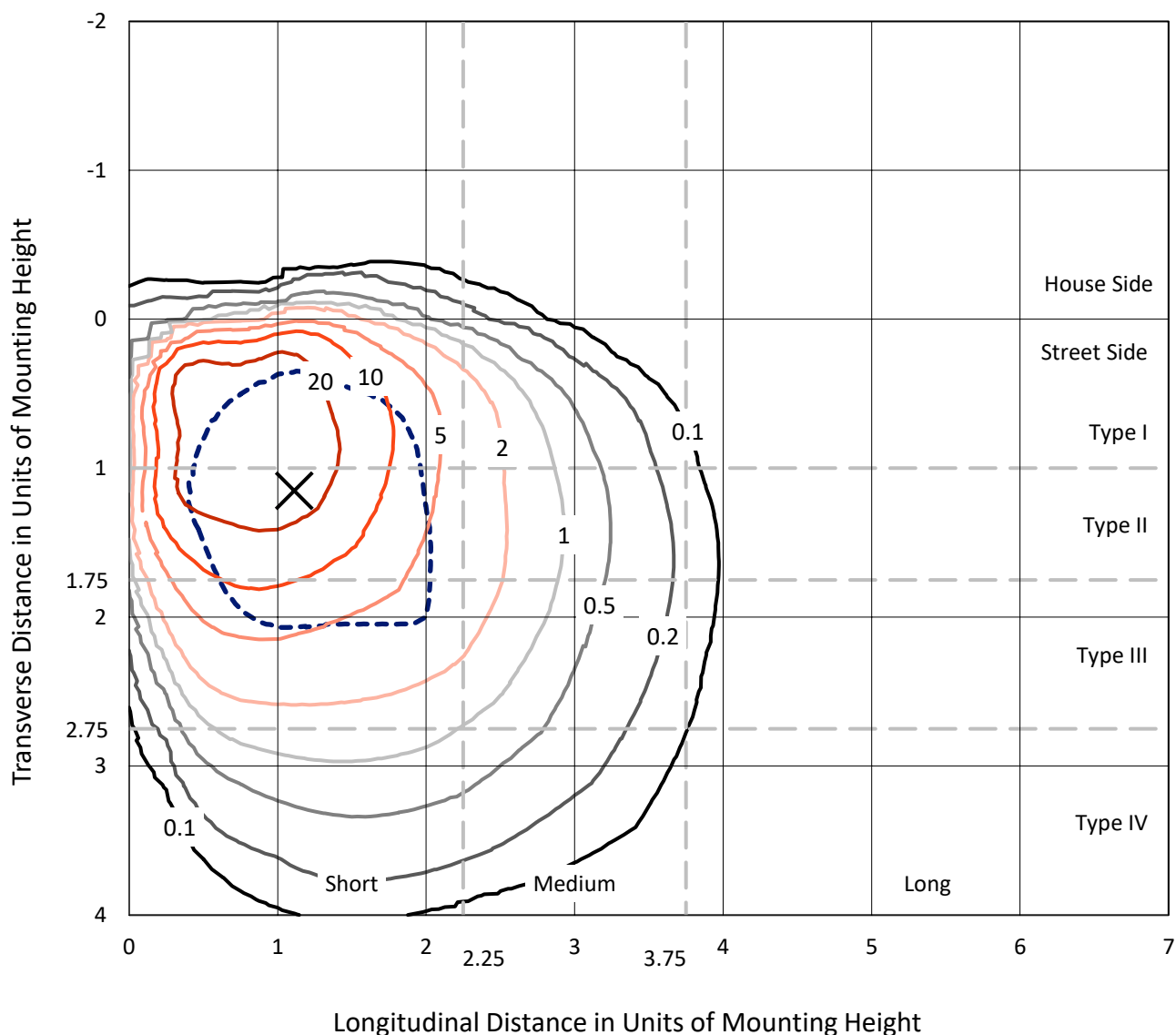
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

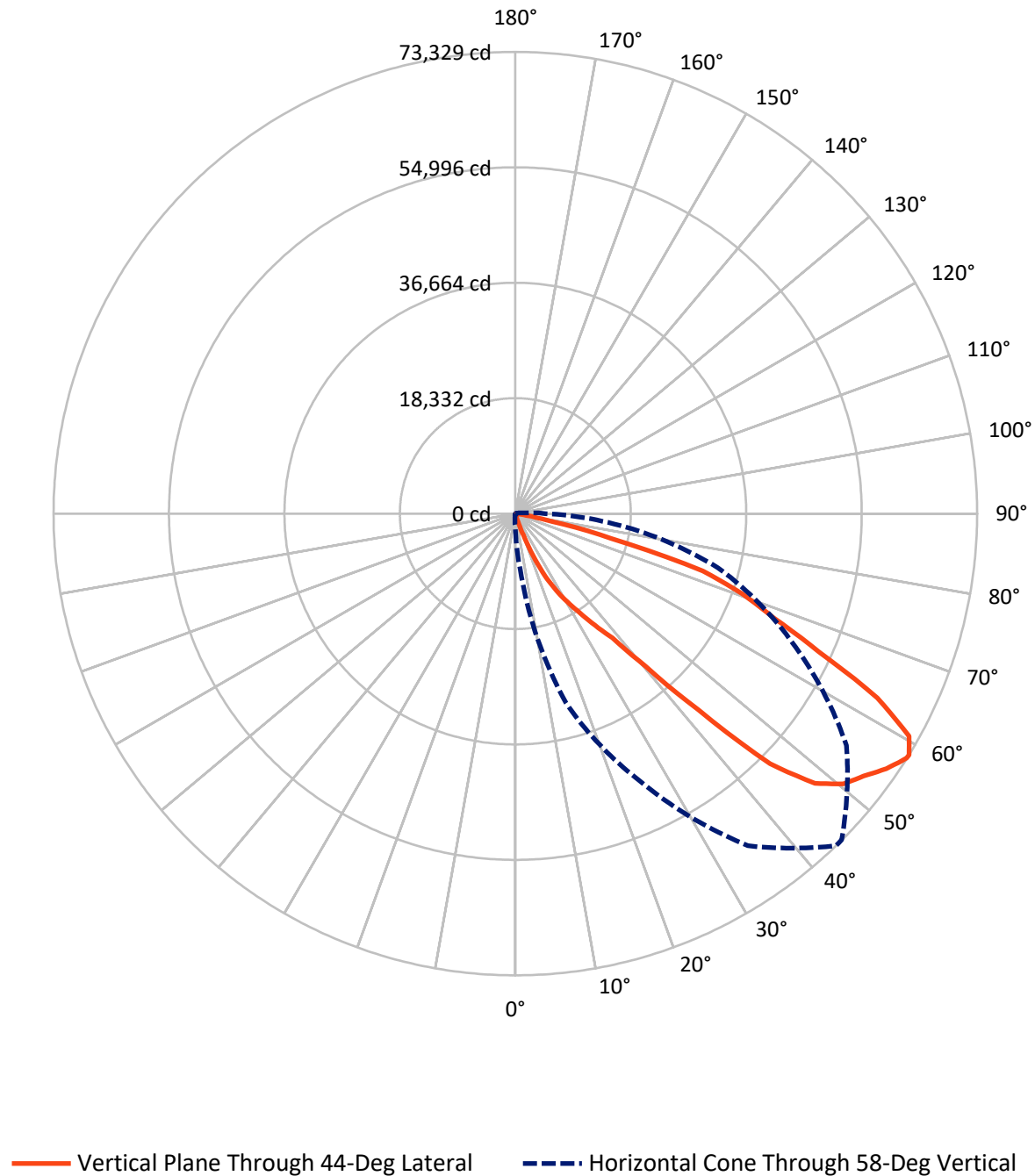


Based on 20 foot mounting height. Maximum calculated value = 49.8 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	195.2	0.0	195.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	28388.6	0.0	28388.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	28583.8	0.0	28583.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	0.0
10°-20°	62.7	0.2
20°-30°	677.1	2.4
30°-40°	2002.6	7.0
40°-50°	5968.8	20.9
50°-60°	9471.0	33.1
60°-70°	7899.9	27.6
70°-80°	2436.5	8.5
80°-90°	54.1	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°	28583.8	100.0
0°-180°	28583.8	100.0



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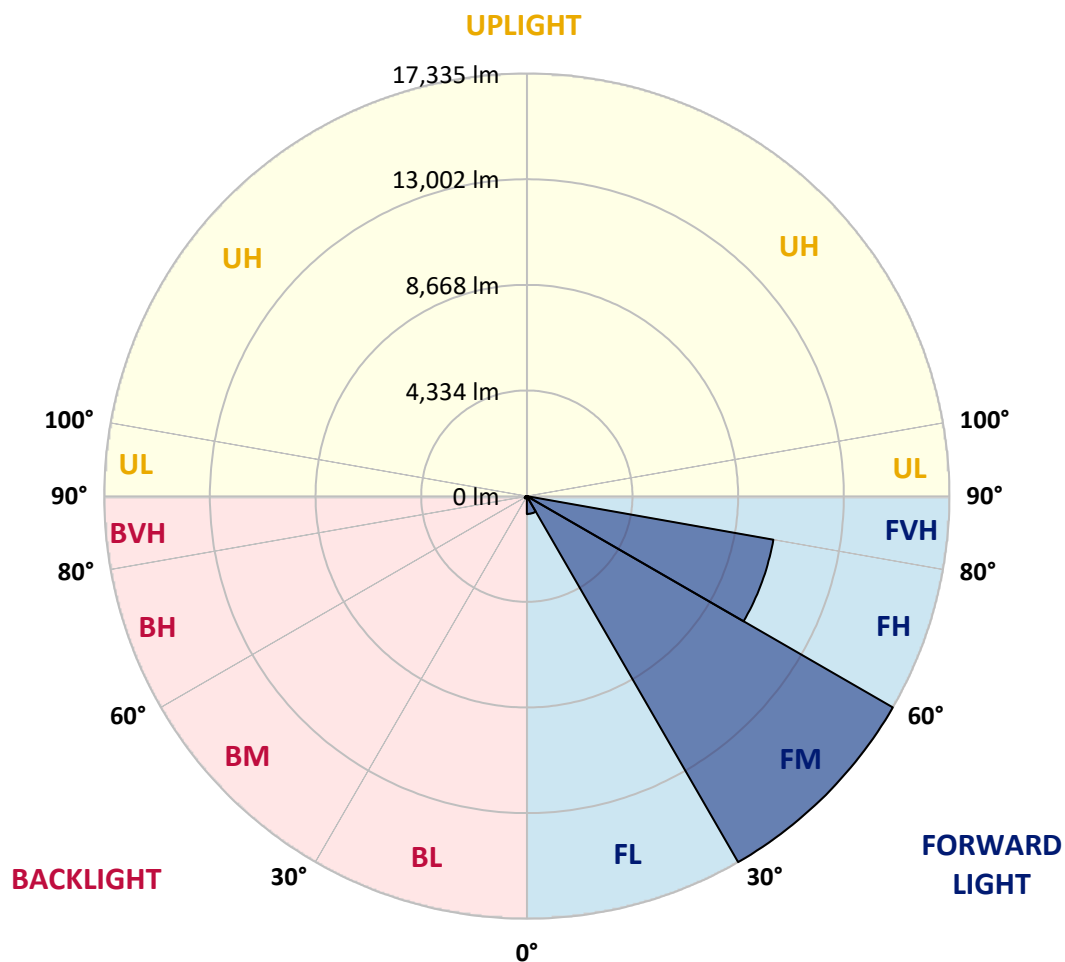
CATALOG NUMBER: GLAN-SA9B-950-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	731.9	2.6			
FM	(30°-60°)	17335.5	60.6			
FH	(60°-80°)	10269.7	35.9			G4/12000
FVH	(80°-90°)	51.5	0.2			G1/100
BL	(0°-30°)	19.1	0.1	B0/110		
BM	(30°-60°)	106.8	0.4	B0/220		
BH	(60°-80°)	66.6	0.2	B0/110		G0/110
BVH	(80°-90°)	2.6	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°	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2
2.5°	161.9	161.9	155.5	146.8	138.2	129.6	127.4	123.1	120.9	118.8
5°	168.4	168.4	166.3	159.8	151.1	144.7	144.7	138.2	133.9	129.6
7.5°	172.7	174.9	179.2	177.1	172.7	166.3	166.3	161.9	155.5	144.7
10°	179.2	185.7	194.3	198.7	200.8	200.8	198.7	196.5	185.7	170.6
12.5°	185.7	198.7	220.2	241.8	254.8	272.1	269.9	265.6	237.5	205.1
15°	198.7	218.1	263.4	326.0	423.2	483.7	507.4	485.8	393.0	276.4
17.5°	213.8	246.2	382.2	682.3	1118.5	1325.8	1451.0	1349.5	893.9	524.7
20°	228.9	300.1	710.4	1768.4	2902.1	3580.1	3767.9	3474.3	2230.5	999.7
22.5°	254.8	421.1	1440.2	3655.6	6253.2	7270.2	7462.4	6523.1	4212.7	1973.6
25°	308.8	611.1	2483.2	5957.4	9332.3	11049.0	10969.1	9738.3	6834.1	3152.5
27.5°	386.5	889.6	3755.0	8464.3	12281.9	13795.5	13976.9	12454.6	9109.9	4635.9
30°	498.8	1232.9	5119.6	10472.4	14646.3	16283.0	16313.2	14739.1	11146.1	5938.0
32.5°	606.8	1556.8	6313.7	12413.6	16976.1	18770.5	18904.4	16967.5	12666.2	7294.0
35°	688.8	1768.4	7522.9	14119.4	19325.4	21797.8	21789.1	19489.5	14467.1	8505.3
37.5°	695.3	1980.0	8617.6	15864.1	22300.9	25069.1	25343.3	22808.3	16643.6	10003.9
40°	680.2	2217.6	10003.9	18584.8	27662.3	31909.6	32151.4	28955.7	21009.6	12569.1
42.5°	697.4	2630.0	12253.8	23609.4	36565.0	42664.9	43131.3	39771.5	29035.6	17803.1
45°	788.1	3405.2	16967.5	32015.4	49255.0	56691.5	56536.0	51697.1	38374.4	25770.8
47.5°	1088.3	5303.2	23954.9	40196.9	57365.2	63987.6	64121.5	58207.3	43824.4	31896.7
50°	1673.4	8114.5	29825.9	44521.9	60852.4	67496.5	67371.2	60537.1	45895.2	34913.1
52.5°	2176.5	10148.5	32771.2	46039.8	61299.4	69230.3	69221.7	61150.4	46216.9	35172.3
55°	2301.8	10301.9	32794.9	46121.9	62301.3	71499.7	71784.7	62659.7	46633.6	34040.8
57.5°	2252.1	9120.7	31425.9	46596.9	64084.8	73255.2	73270.3	64121.5	47691.7	33347.7
58°	2208.9	8935.0	31149.6	46866.8	64391.4	73328.6	73291.9	64188.5	48553.2	33321.8
60°	1967.1	7758.2	30072.1	47555.6	63935.8	71821.5	71478.1	62726.6	48425.8	33056.2
62.5°	1546.0	6052.4	29011.9	46758.9	59051.6	64525.3	64667.8	55534.1	44146.2	31508.0
65°	1230.8	4510.7	26800.8	41015.2	48626.6	52988.4	53519.5	45158.9	36847.8	26679.9
67.5°	980.3	3260.5	22482.3	32654.6	38478.1	44223.9	44610.4	37914.5	28547.6	20441.8
70°	796.8	2204.6	15518.6	23881.5	31736.9	38197.4	38221.1	31497.2	21307.6	13393.9
72.5°	706.1	1526.6	9008.5	17416.6	25734.1	31125.8	30497.5	25559.2	16375.9	7933.1
75°	611.1	1012.7	4417.9	10647.3	15602.8	15708.6	15948.3	11856.5	8185.8	3772.2
77.5°	503.1	719.0	1740.4	2908.5	4679.1	5989.8	6212.2	4707.2	2722.8	928.5
80°	345.5	341.2	468.6	891.8	1338.7	1677.7	1565.5	1211.3	712.6	356.3
82.5°	149.0	161.9	211.6	254.8	207.3	200.8	192.2	123.1	95.0	73.4
85°	47.5	43.2	45.3	45.3	36.7	28.1	28.1	13.0	0.0	0.0
87.5°	23.8	19.4	19.4	17.3	10.8	4.3	2.2	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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CATALOG NUMBER: GLAN-SA9B-950-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
125.2	0°	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2
116.6	2.5°	114.4	114.4	110.1	105.8	103.6	99.3	97.2	95.0	92.8	90.7
125.2	5°	120.9	118.8	112.3	105.8	99.3	92.8	88.5	84.2	79.9	77.7
138.2	7.5°	131.7	127.4	114.4	103.6	95.0	86.4	82.1	75.6	71.3	64.8
153.3	10°	144.7	136.0	118.8	105.8	92.8	82.1	75.6	69.1	62.6	54.0
174.9	12.5°	161.9	146.8	125.2	103.6	88.5	75.6	69.1	60.5	54.0	47.5
203.0	15°	177.1	157.6	127.4	103.6	84.2	69.1	60.5	51.8	45.3	36.7
254.8	17.5°	198.7	166.3	125.2	97.2	77.7	60.5	51.8	45.3	34.5	21.6
377.9	20°	235.4	172.7	120.9	90.7	66.9	49.7	38.9	30.2	15.1	4.3
567.9	22.5°	293.7	190.0	116.6	82.1	58.3	38.9	25.9	10.8	0.0	0.0
863.7	25°	405.9	220.2	116.6	77.7	51.8	28.1	8.6	0.0	0.0	0.0
1226.5	27.5°	539.8	261.3	116.6	66.9	41.0	15.1	0.0	0.0	0.0	0.0
1671.3	30°	675.8	306.6	116.6	58.3	32.4	2.2	0.0	0.0	0.0	0.0
2057.8	32.5°	805.4	345.5	118.8	49.7	21.6	0.0	0.0	0.0	0.0	0.0
2593.3	35°	937.1	352.0	116.6	43.2	13.0	0.0	0.0	0.0	0.0	0.0
3249.7	37.5°	1105.5	339.0	110.1	38.9	6.5	0.0	0.0	0.0	0.0	0.0
4275.3	40°	1360.3	345.5	103.6	36.7	2.2	0.0	0.0	0.0	0.0	0.0
6104.2	42.5°	1831.1	373.6	95.0	36.7	0.0	0.0	0.0	0.0	0.0	0.0
9723.2	45°	3165.5	500.9	86.4	38.9	0.0	0.0	0.0	0.0	0.0	0.0
14596.6	47.5°	5236.2	900.4	84.2	38.9	0.0	0.0	0.0	0.0	0.0	0.0
17582.9	50°	6682.9	1133.6	88.5	41.0	0.0	0.0	0.0	0.0	0.0	0.0
17956.4	52.5°	6672.1	1263.2	92.8	43.2	8.6	0.0	0.0	0.0	0.0	0.0
16550.8	55°	5931.5	1286.9	99.3	47.5	28.1	0.0	0.0	0.0	0.0	0.0
14223.1	57.5°	4957.7	1174.6	114.4	58.3	51.8	0.0	0.0	0.0	0.0	0.0
13858.2	58°	4784.9	1122.8	118.8	60.5	56.1	0.0	0.0	0.0	0.0	0.0
12020.6	60°	3921.2	915.5	151.1	75.6	75.6	0.0	0.0	0.0	0.0	0.0
9854.9	62.5°	2707.7	798.9	172.7	97.2	77.7	0.0	0.0	0.0	0.0	0.0
7265.9	65°	1915.3	721.2	187.9	103.6	62.6	0.0	0.0	0.0	0.0	0.0
5162.8	67.5°	1431.6	665.1	207.3	105.8	32.4	0.0	0.0	0.0	0.0	0.0
3238.9	70°	1096.9	624.0	254.8	112.3	8.6	0.0	0.0	0.0	0.0	0.0
1930.4	72.5°	893.9	576.5	308.8	116.6	0.0	0.0	0.0	0.0	0.0	0.0
1157.4	75°	740.6	520.4	298.0	127.4	0.0	0.0	0.0	0.0	0.0	0.0
617.5	77.5°	492.3	403.8	272.1	127.4	0.0	0.0	0.0	0.0	0.0	0.0
220.2	80°	172.7	159.8	211.6	112.3	0.0	0.0	0.0	0.0	0.0	0.0
45.3	82.5°	25.9	21.6	30.2	38.9	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°
125.2	0°	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2
88.5	2.5°	88.5	88.5	86.4	88.5	88.5	92.8	103.6	118.8	136.0	142.5
75.6	5°	73.4	71.3	69.1	69.1	69.1	75.6	84.2	101.5	120.9	129.6
62.6	7.5°	60.5	58.3	56.1	54.0	54.0	58.3	69.1	88.5	108.0	116.6
51.8	10°	49.7	45.3	43.2	41.0	41.0	45.3	56.1	75.6	97.2	105.8
43.2	12.5°	41.0	34.5	30.2	28.1	25.9	32.4	43.2	60.5	84.2	95.0
32.4	15°	28.1	21.6	15.1	13.0	10.8	17.3	28.1	47.5	71.3	84.2
17.3	17.5°	15.1	6.5	2.2	0.0	0.0	4.3	13.0	34.5	58.3	69.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.3	43.2	54.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	25.9	36.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	19.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
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	6.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	17.3
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°
125.2	0°	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2	125.2
149.0	2.5°	153.3	151.1	146.8	142.5	142.5	142.5	149.0	155.5	161.9	161.9
133.9	5°	142.5	142.5	140.4	136.0	136.0	138.2	146.8	157.6	166.3	168.4
123.1	7.5°	131.7	136.0	131.7	129.6	131.7	133.9	142.5	155.5	168.4	172.7
114.4	10°	125.2	127.4	127.4	125.2	125.2	129.6	138.2	155.5	172.7	179.2
103.6	12.5°	116.6	120.9	118.8	118.8	118.8	123.1	133.9	153.3	177.1	185.7
92.8	15°	108.0	114.4	114.4	112.3	112.3	114.4	129.6	151.1	183.5	198.7
79.9	17.5°	99.3	105.8	108.0	103.6	103.6	108.0	123.1	151.1	187.9	213.8
64.8	20°	82.1	92.8	99.3	92.8	92.8	97.2	112.3	142.5	190.0	228.9
47.5	22.5°	64.8	75.6	84.2	82.1	82.1	84.2	103.6	136.0	192.2	254.8
28.1	25°	47.5	58.3	64.8	69.1	69.1	75.6	95.0	131.7	200.8	308.8
13.0	27.5°	28.1	41.0	49.7	54.0	56.1	64.8	88.5	127.4	215.9	386.5
0.0	30°	13.0	23.8	34.5	43.2	43.2	58.3	82.1	123.1	235.4	498.8
0.0	32.5°	0.0	10.8	17.3	30.2	32.4	47.5	75.6	118.8	263.4	606.8
0.0	35°	0.0	0.0	8.6	23.8	23.8	38.9	69.1	114.4	306.6	688.8
0.0	37.5°	0.0	0.0	0.0	17.3	19.4	34.5	66.9	112.3	315.3	695.3
0.0	40°	0.0	0.0	0.0	13.0	15.1	32.4	66.9	114.4	285.0	680.2
0.0	42.5°	0.0	0.0	0.0	8.6	10.8	32.4	66.9	118.8	257.0	697.4
0.0	45°	0.0	0.0	0.0	6.5	8.6	34.5	64.8	116.6	241.8	788.1
0.0	47.5°	0.0	0.0	0.0	8.6	13.0	34.5	62.6	114.4	244.0	1088.3
0.0	50°	0.0	0.0	0.0	10.8	15.1	34.5	64.8	110.1	267.7	1673.4
0.0	52.5°	0.0	0.0	0.0	8.6	13.0	38.9	71.3	108.0	291.5	2176.5
0.0	55°	0.0	0.0	0.0	2.2	6.5	49.7	77.7	108.0	328.2	2301.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	56.1	88.5	114.4	388.7	2252.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	56.1	90.7	114.4	393.0	2208.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	56.1	99.3	127.4	423.2	1967.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	47.5	118.8	159.8	440.5	1546.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	38.9	140.4	174.9	453.4	1230.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	36.7	144.7	177.1	459.9	980.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	38.9	142.5	190.0	481.5	796.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	43.2	129.6	209.4	481.5	706.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	45.3	120.9	235.4	438.3	611.1
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	43.2	118.8	274.2	390.8	503.1
0.0	80°	4.3	6.5	6.5	4.3	4.3	36.7	116.6	278.5	332.5	345.5
2.2	82.5°	13.0	17.3	15.1	10.8	10.8	32.4	103.6	233.2	172.7	149.0
13.0	85°	23.8	28.1	28.1	23.8	23.8	30.2	64.8	84.2	58.3	47.5
23.8	87.5°	32.4	36.7	36.7	32.4	32.4	30.2	28.1	25.9	23.8	23.8
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: SP1-2407-184-17

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-950-U-5WQ

Data in this report applies to families of products including GSS-SB1A-950-U-5WQ

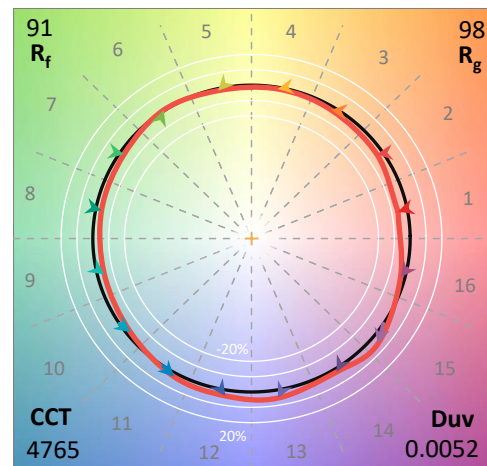
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-17
 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-950-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4765
 CIE u' : 0.2105
 CIE v' : 0.4941
 Duv: 0.0052
 CIE x: 0.3536
 CIE y: 0.3689
 CIE z: 0.2775
 Peak Wavelength (nm): 449
 Dominant Wavelength (nm): 571
 Purity: 16.80041
 R_f: 90.7
 R_g: 98

CRI (Ra): 90.8
 R1: 89.8
 R2: 93.1
 R3: 95.3
 R4: 90.3
 R5: 89.0
 R6: 89.7
 R7: 94.9
 R8: 84.0
 R9: 54.9
 R10: 83.0
 R11: 89.6
 R12: 68.0
 R13: 90.6
 R14: 97.3
 R15: 86.2



Test Conditions

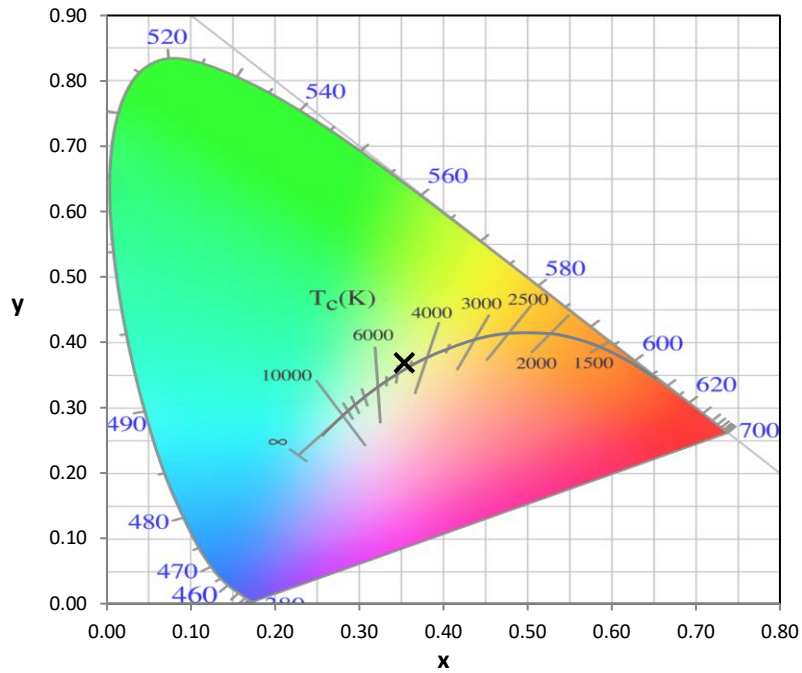
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

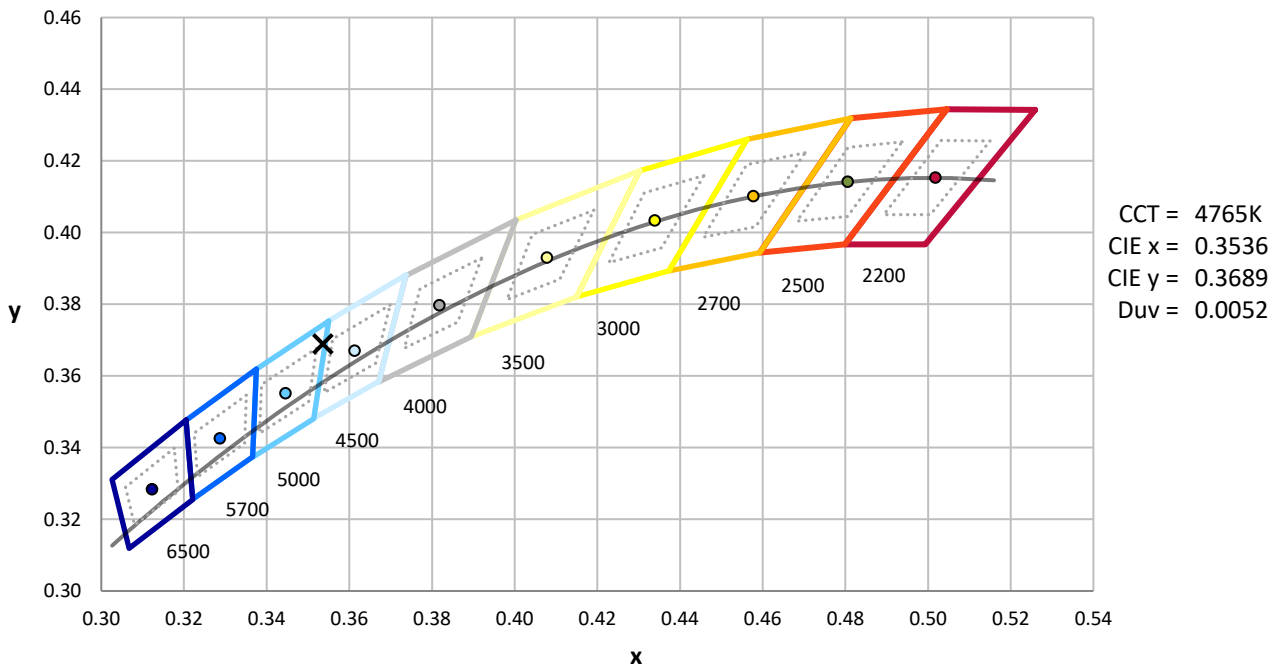
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



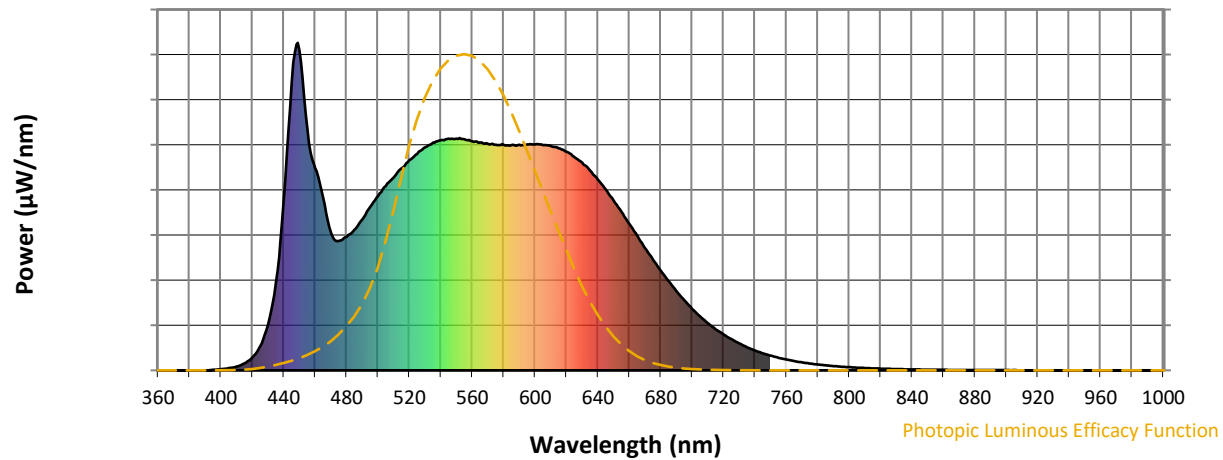
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

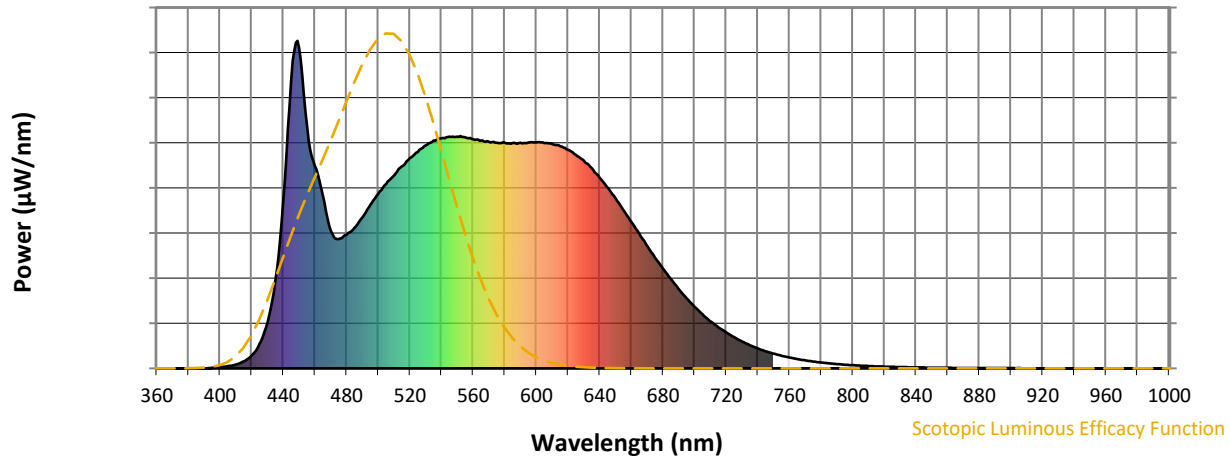


Photopic Lumens: NR

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

Scotopic Flux vs. Wavelength



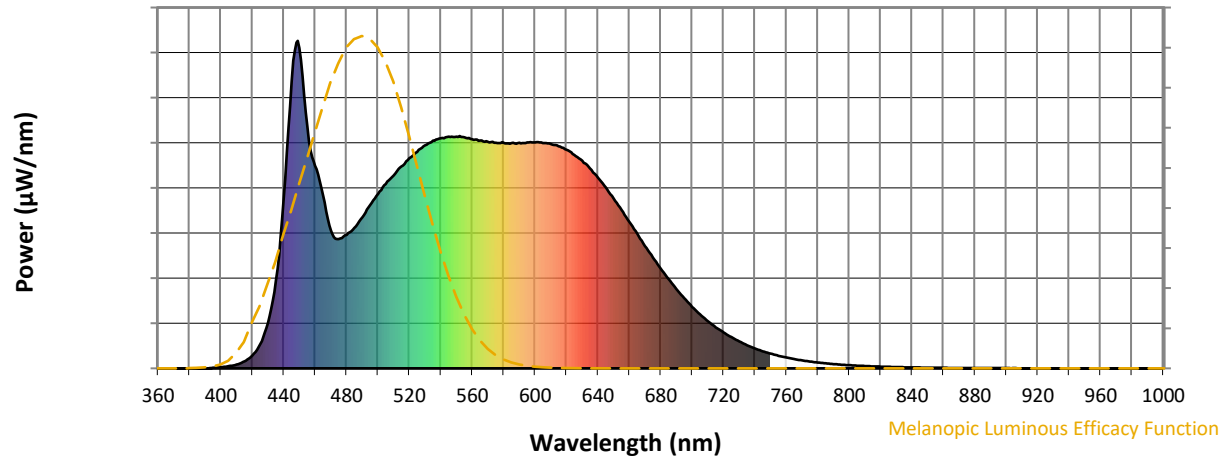
Scotopic Lumens: NR

S/P: 1.99

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 4.22

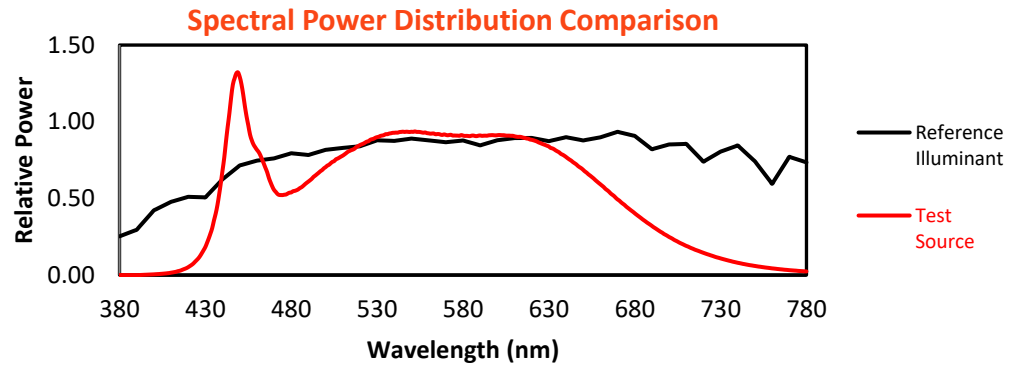
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

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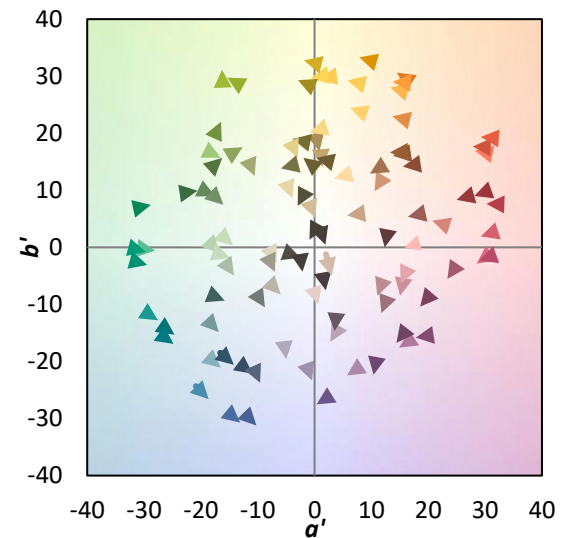
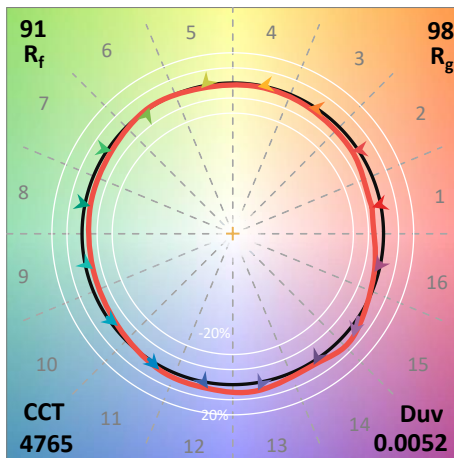
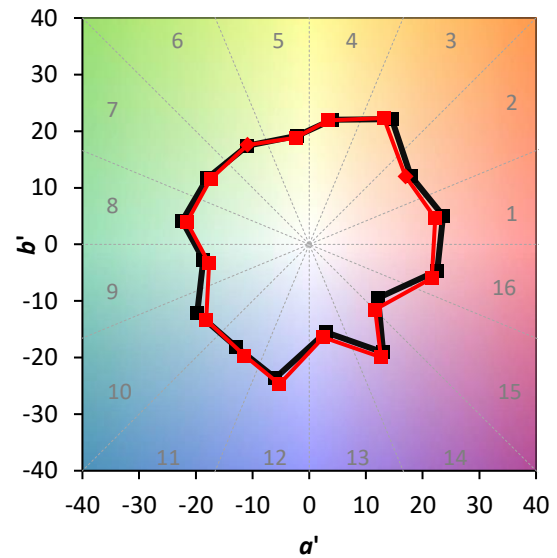
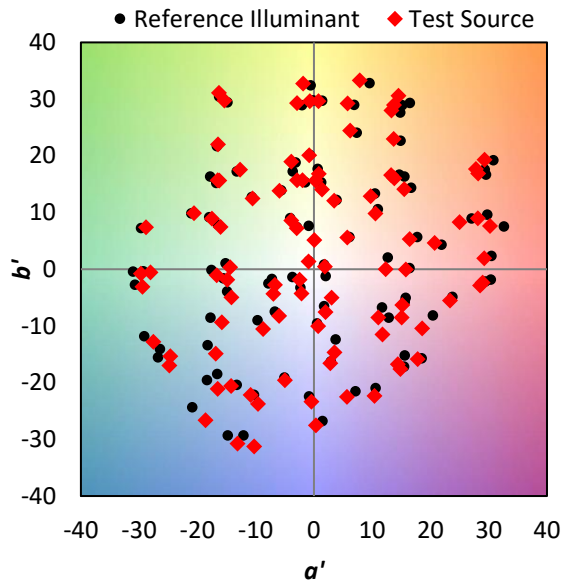
TM-30-18

Summary

$R_f = 90.7$
 $R_g = 98$
 $CIE R_a = 90.8$
 $R_9 = 54.9$

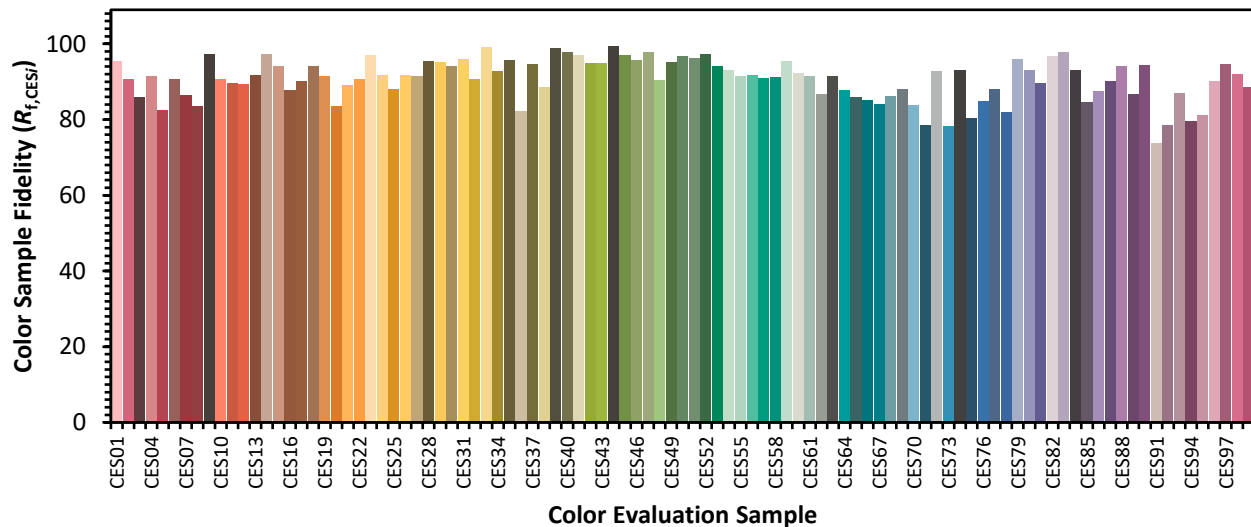


Color Vector Graphics

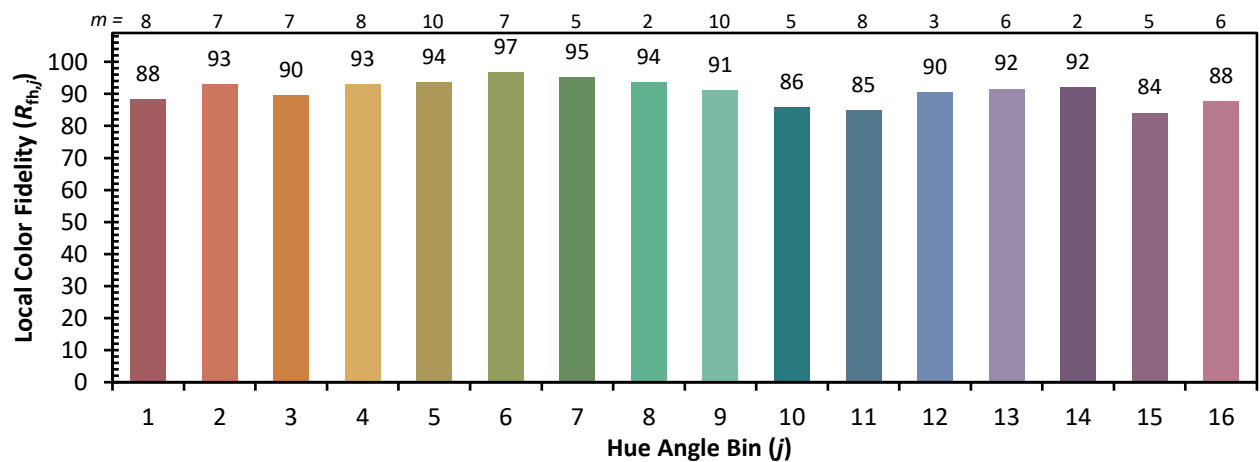
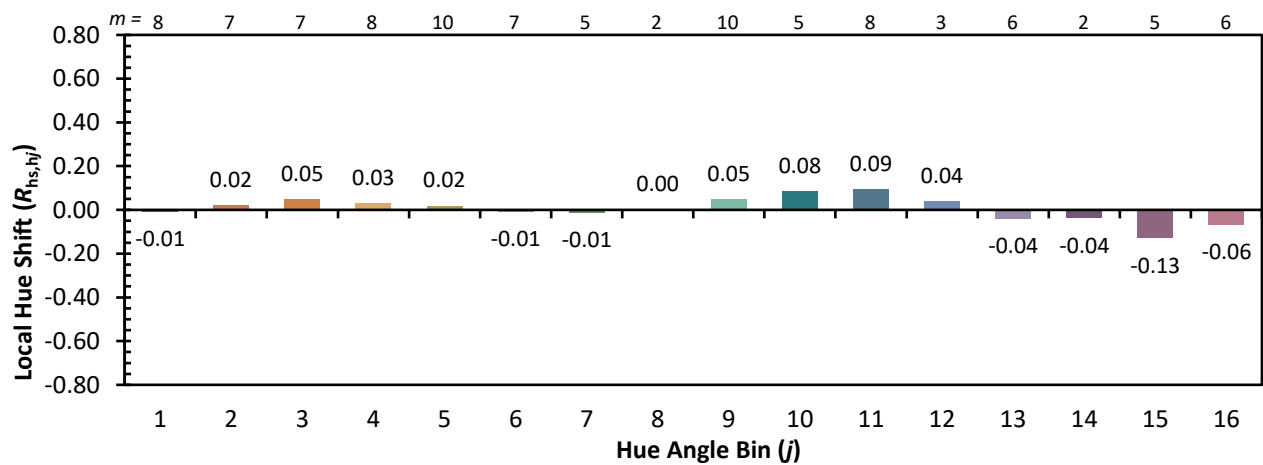
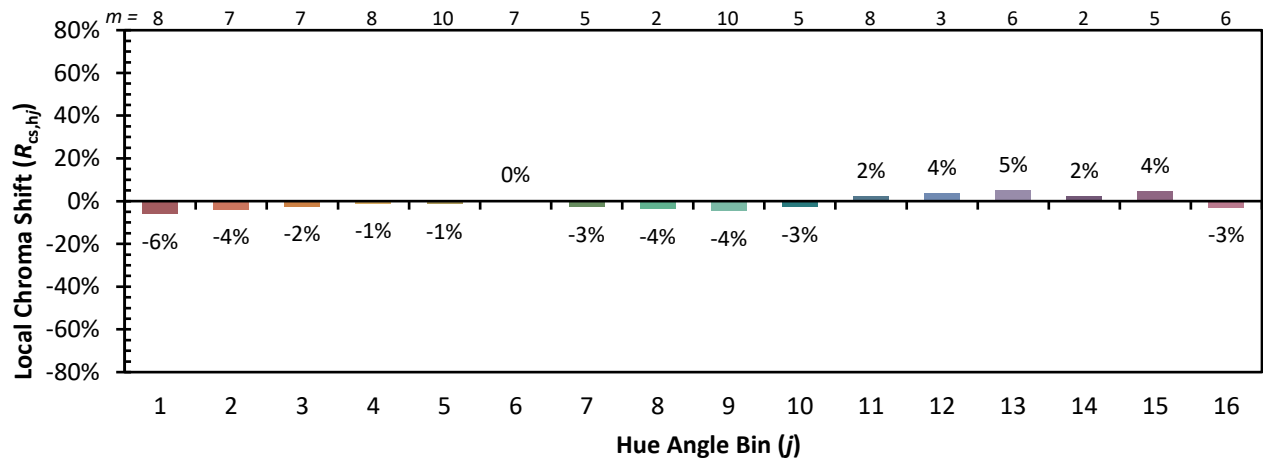


Individual Sample Fidelity Index ($R_{f,i}$)

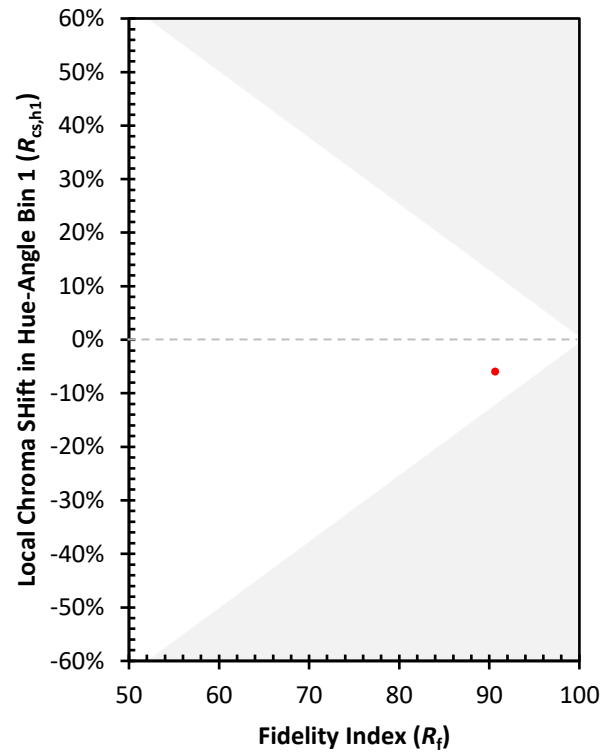
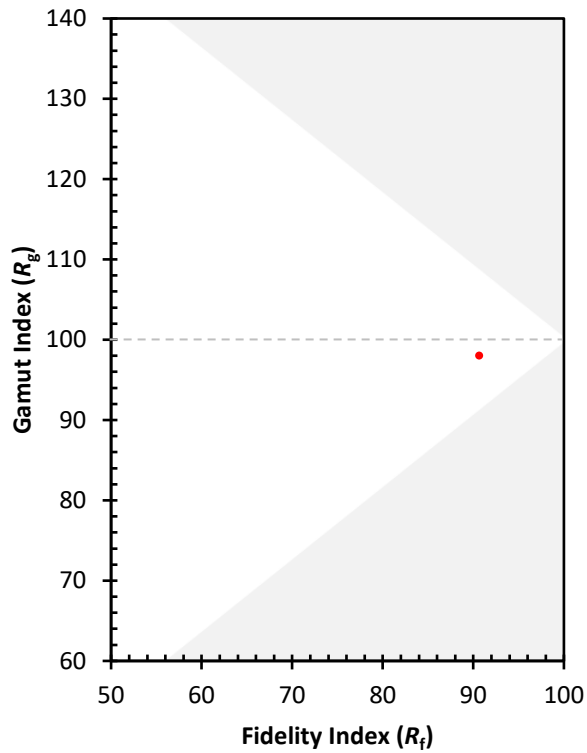
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82 = 97
CES08 = 40	CES33 = 99	CES58 = 91	CES83 = 98
CES09 = 29	CES34 = 93	CES59 = 95	CES84 = 93
CES10 = 73	CES35 = 96	CES60 = 92	CES85 = 85
CES11 = 56	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 62	CES37 = 95	CES62 = 87	CES87 = 90
CES13 = 42	CES38 = 89	CES63 = 91	CES88 = 94
CES14 = 74	CES39 = 99	CES64 = 88	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 86	CES90 = 94
CES16 = 46	CES41 = 97	CES66 = 85	CES91 = 74
CES17 = 48	CES42 = 95	CES67 = 84	CES92 = 78
CES18 = 56	CES43 = 95	CES68 = 86	CES93 = 87
CES19 = 70	CES44 = 100	CES69 = 88	CES94 = 80
CES20 = 65	CES45 = 97	CES70 = 84	CES95 = 81
CES21 = 85	CES46 = 96	CES71 = 79	CES96 = 90
CES22 = 77	CES47 = 98	CES72 = 93	CES97 = 95
CES23 = 91	CES48 = 90	CES73 = 78	CES98 = 92
CES24 = 90	CES49 = 95	CES74 = 93	CES99 = 88
CES25 = 70	CES50 = 97	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)