

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: LUMARK

Report Number: P1067927

Luminaire Tested: **NAV-SA3C-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067927
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3C-727-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 3xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11970.7 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 140.4
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



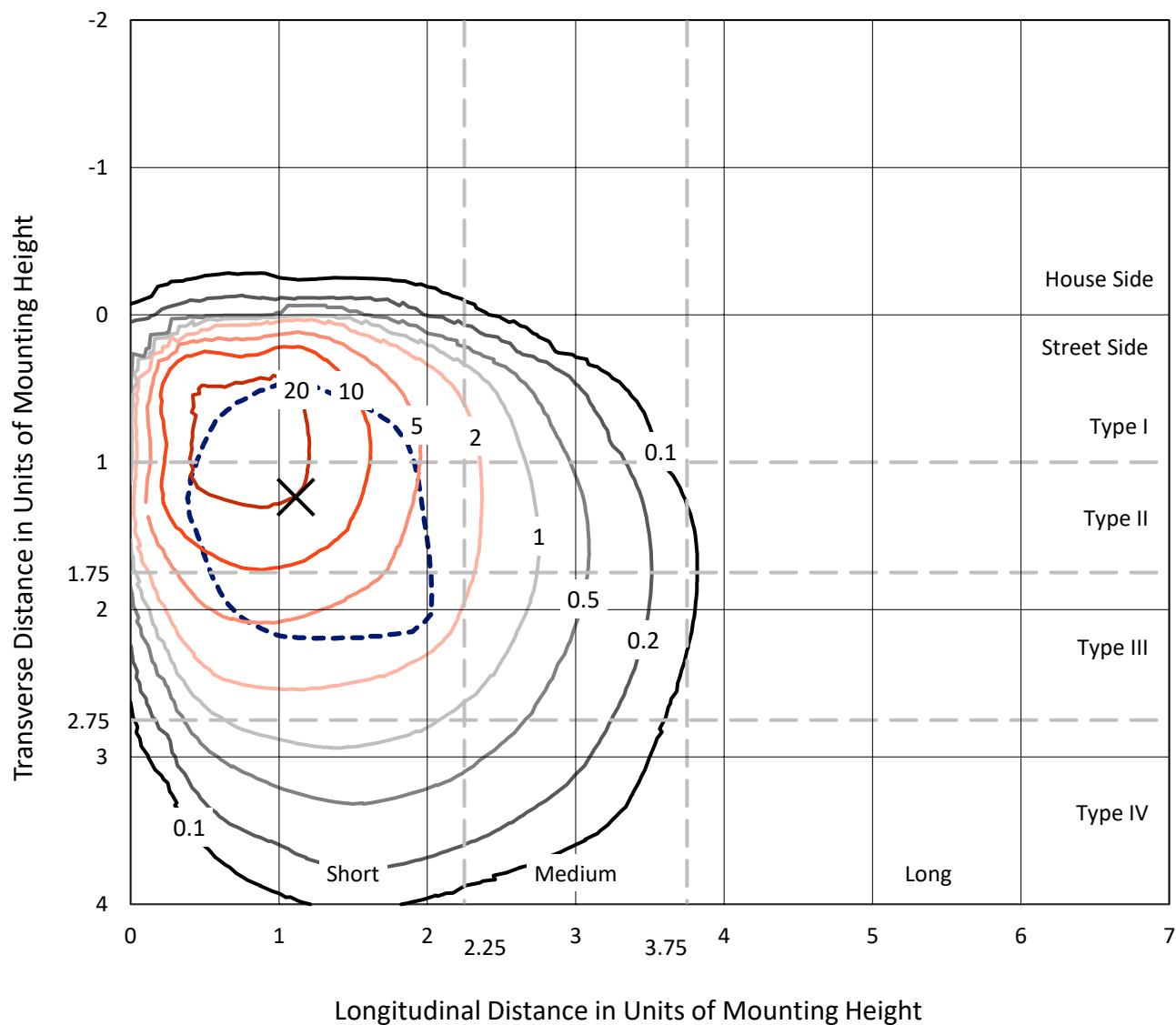
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

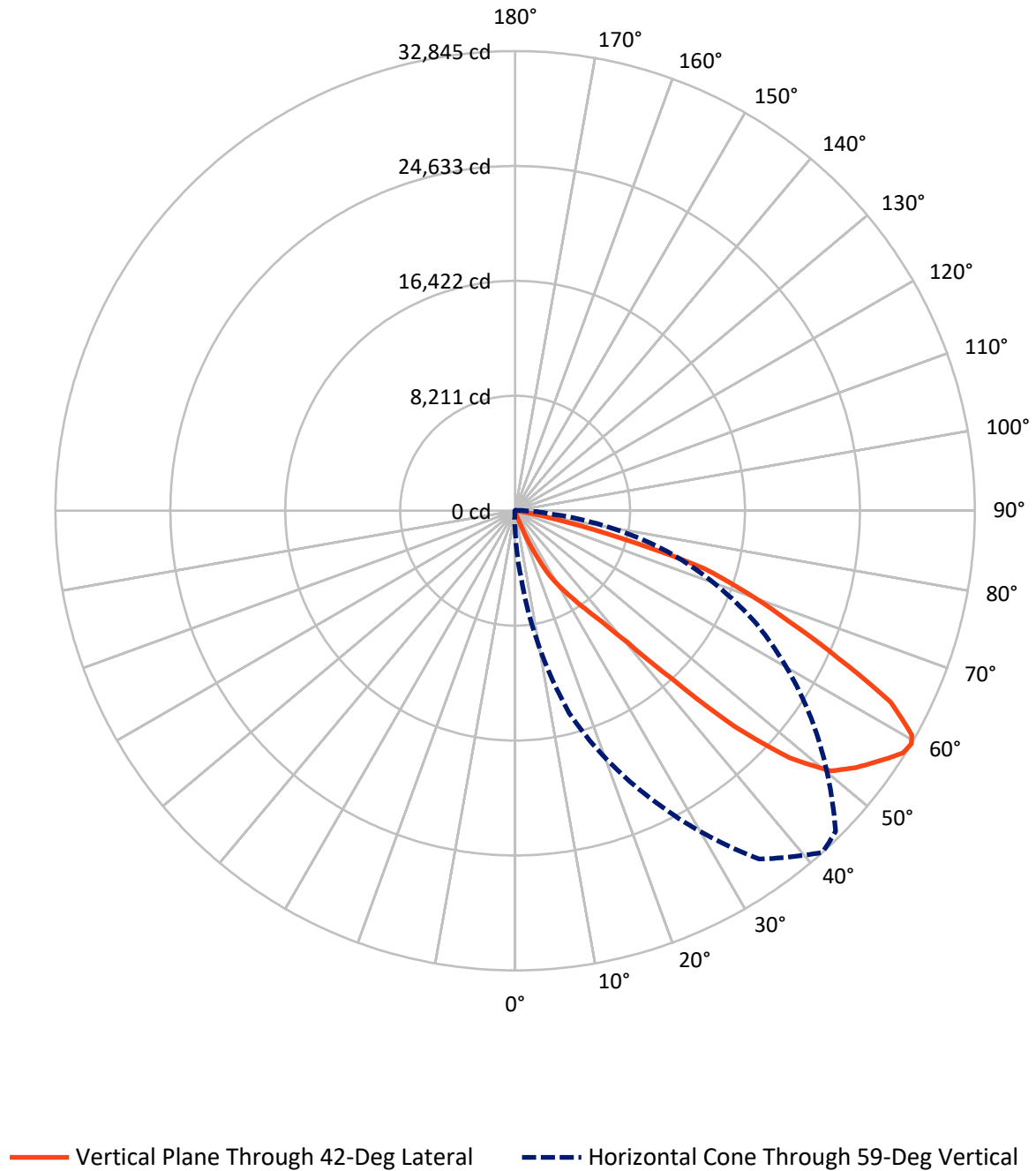


Based on 15 foot mounting height. Maximum calculated value = 35.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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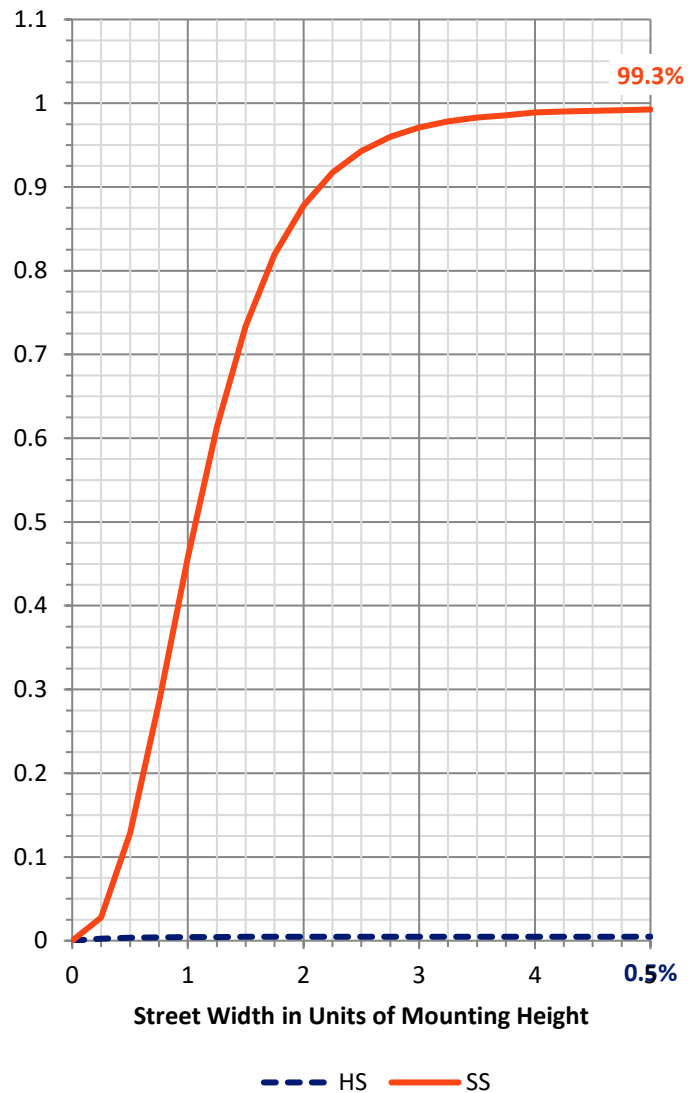
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	57.7	0.0	57.7
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	11913.1	0.0	11913.1
	% Fixture	99.5	0.0	99.5
Total	Lumens	11970.7	0.0	11970.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.0
10°-20°	17.5	0.1
20°-30°	223.3	1.9
30°-40°	752.8	6.3
40°-50°	2273.8	19.0
50°-60°	4013.8	33.5
60°-70°	3534.2	29.5
70°-80°	1125.0	9.4
80°-90°	26.9	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°	11970.7	100.0
0°-180°	11970.7	100.0



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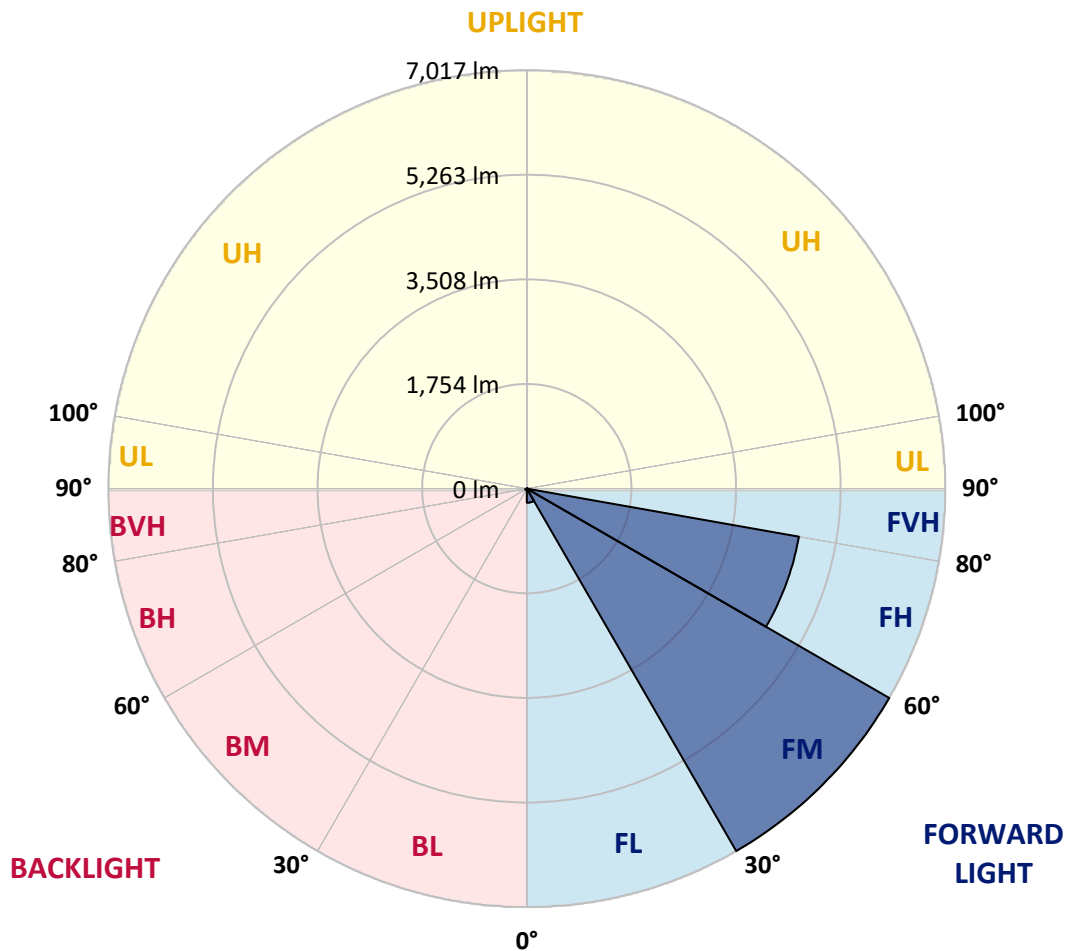
CATALOG NUMBER: NAV-SA3C-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	237.8	2.0			
FM	(30°-60°)	7016.8	58.6			
FH	(60°-80°)	4632.8	38.7			G2/5000
FVH	(80°-90°)	25.6	0.2			G1/100
BL	(0°-30°)	6.4	0.1	B0/110		
BM	(30°-60°)	23.6	0.2	B0/220		
BH	(60°-80°)	26.4	0.2	B0/110		G0/110
BVH	(80°-90°)	1.3	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
2.5°	52.5	52.5	48.8	45.0	41.3	37.5	37.5	37.5	33.8	33.8	30.0
5°	60.1	60.1	56.3	52.5	52.5	48.8	48.8	45.0	41.3	41.3	37.5
7.5°	63.8	63.8	63.8	63.8	60.1	60.1	60.1	56.3	52.5	48.8	45.0
10°	67.6	71.3	75.1	75.1	75.1	75.1	75.1	71.3	63.8	60.1	52.5
12.5°	75.1	78.8	86.3	93.8	93.8	97.6	93.8	90.1	82.6	71.3	60.1
15°	82.6	90.1	101.3	116.3	131.4	135.1	135.1	123.9	108.8	86.3	71.3
17.5°	93.8	105.1	135.1	183.9	236.5	277.7	277.7	247.7	172.6	112.6	82.6
20°	101.3	123.9	217.7	442.9	675.6	848.2	814.4	720.6	386.6	176.4	90.1
22.5°	112.6	157.6	461.6	1163.5	1801.5	2116.8	2041.8	1550.1	867.0	315.3	108.8
25°	127.6	228.9	915.8	2180.6	3347.9	3689.4	3640.6	2893.7	1580.1	529.2	138.9
27.5°	157.6	337.8	1467.5	3306.6	4939.2	5232.0	5213.2	4237.4	2525.9	852.0	180.2
30°	198.9	491.7	2176.9	4492.6	5993.9	6290.4	6196.6	5220.7	3407.9	1302.4	232.7
32.5°	247.7	686.8	2818.7	5367.1	6966.0	7356.3	7243.7	6076.5	4117.3	1685.2	345.3
35°	322.8	878.3	3453.0	6140.3	8088.2	8583.6	8396.0	6958.5	4729.1	2116.8	416.6
37.5°	360.3	990.9	4034.7	6981.0	9349.3	10024.9	9882.2	8073.2	5352.1	2668.5	510.4
40°	364.1	1126.0	4639.0	8076.9	11132.1	12336.8	12081.6	9987.3	6511.8	3377.9	656.8
42.5°	375.3	1328.6	5423.4	9946.0	14633.8	16364.1	16075.1	13507.9	9142.9	4800.4	930.8
45°	427.9	1711.5	7022.3	13440.3	19441.7	21978.9	21644.8	18413.3	12817.3	7476.4	1587.6
47.5°	611.8	2574.7	9825.9	17212.3	24358.4	26381.4	26298.8	22279.1	16146.4	10220.0	2691.1
50°	983.3	3952.1	13016.2	20383.8	27488.6	29226.4	29019.9	23893.0	18045.5	12092.9	3449.2
52.5°	1313.6	5269.5	15020.4	21551.0	28423.2	30494.9	30243.5	24482.3	18544.7	12644.6	3659.4
55°	1396.2	5746.2	15617.2	21911.3	29042.4	31568.4	31204.3	24876.4	18608.5	12250.5	3310.3
57.5°	1354.9	5295.8	15230.6	22264.1	29905.7	32671.8	32187.7	25645.8	18822.4	11582.4	2754.9
59°	1283.6	4740.3	14990.4	22545.6	30382.4	32844.5	32390.3	25814.7	18965.0	11278.4	2417.1
60°	1201.0	4365.0	14802.7	22729.5	30352.3	32574.2	32105.1	25735.9	19021.3	11015.7	2255.7
62.5°	927.0	3483.0	14532.5	22598.2	28456.9	30108.4	29841.9	23806.7	18195.6	10175.0	1779.0
65°	720.6	2664.8	13541.6	20154.8	24215.8	25326.8	25244.2	20158.6	15313.2	8771.3	1283.6
67.5°	570.5	1944.2	11451.1	16322.8	19483.0	21063.1	21003.0	16364.1	11623.7	6703.3	923.3
70°	465.4	1384.9	7851.7	12306.8	15583.4	17572.6	17486.3	13170.1	8613.6	4252.4	671.8
72.5°	394.1	885.8	4762.8	9278.0	13004.9	14142.1	13890.7	10625.4	6264.1	2315.7	533.0
75°	334.0	544.2	2360.8	5783.7	7746.7	7739.1	7487.7	5626.1	3362.9	1133.5	424.1
77.5°	270.2	382.8	927.0	1587.6	2443.3	3025.1	2976.3	1993.0	1005.9	330.3	262.7
80°	176.4	180.2	247.7	435.4	671.8	743.1	844.5	608.0	292.8	157.6	108.8
82.5°	78.8	86.3	112.6	142.6	142.6	131.4	116.3	86.3	63.8	52.5	26.3
85°	18.8	26.3	18.8	22.5	18.8	15.0	15.0	7.5	0.0	0.0	0.0
87.5°	3.8	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
2.5°	30.0	30.0	30.0	26.3	26.3	26.3	22.5	22.5	22.5	18.8	18.8
5°	37.5	33.8	30.0	30.0	26.3	26.3	22.5	18.8	18.8	18.8	15.0
7.5°	41.3	37.5	33.8	30.0	26.3	22.5	22.5	18.8	15.0	15.0	15.0
10°	48.8	45.0	37.5	30.0	26.3	22.5	18.8	18.8	15.0	11.3	11.3
12.5°	56.3	48.8	41.3	33.8	26.3	22.5	18.8	18.8	15.0	11.3	7.5
15°	63.8	56.3	45.0	33.8	26.3	22.5	18.8	18.8	11.3	7.5	3.8
17.5°	71.3	60.1	45.0	37.5	26.3	22.5	18.8	15.0	7.5	3.8	0.0
20°	75.1	63.8	48.8	37.5	26.3	22.5	18.8	11.3	3.8	0.0	0.0
22.5°	82.6	71.3	52.5	37.5	26.3	18.8	11.3	3.8	0.0	0.0	0.0
25°	97.6	75.1	52.5	37.5	26.3	18.8	7.5	0.0	0.0	0.0	0.0
27.5°	108.8	82.6	52.5	37.5	26.3	15.0	3.8	0.0	0.0	0.0	0.0
30°	127.6	90.1	56.3	37.5	26.3	11.3	3.8	0.0	0.0	0.0	0.0
32.5°	157.6	97.6	56.3	37.5	22.5	11.3	0.0	0.0	0.0	0.0	0.0
35°	191.4	112.6	56.3	37.5	22.5	11.3	0.0	0.0	0.0	0.0	0.0
37.5°	195.2	120.1	56.3	37.5	22.5	7.5	0.0	0.0	0.0	0.0	0.0
40°	202.7	112.6	60.1	37.5	22.5	7.5	0.0	0.0	0.0	0.0	0.0
42.5°	232.7	105.1	63.8	37.5	22.5	7.5	0.0	0.0	0.0	0.0	0.0
45°	345.3	108.8	63.8	41.3	22.5	11.3	0.0	0.0	0.0	0.0	0.0
47.5°	600.5	112.6	60.1	41.3	22.5	11.3	0.0	0.0	0.0	0.0	0.0
50°	769.4	131.4	60.1	45.0	26.3	7.5	0.0	0.0	0.0	0.0	0.0
52.5°	818.2	153.9	60.1	48.8	33.8	3.8	0.0	0.0	0.0	0.0	0.0
55°	795.7	180.2	63.8	52.5	41.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	735.6	195.2	67.6	56.3	45.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	671.8	206.4	78.8	60.1	45.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	619.3	217.7	82.6	63.8	45.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	499.2	232.7	90.1	75.1	37.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	435.4	244.0	93.8	82.6	33.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	397.8	251.5	101.3	86.3	30.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	367.8	247.7	108.8	82.6	26.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	334.0	236.5	131.4	75.1	22.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	300.3	213.9	142.6	67.6	15.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	217.7	180.2	131.4	60.1	7.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	93.8	97.6	93.8	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.8	22.5	18.8	11.3	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	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
2.5°	18.8	18.8	18.8	18.8	22.5	22.5	30.0	37.5	45.0	48.8	48.8
5°	15.0	15.0	15.0	15.0	15.0	18.8	22.5	30.0	41.3	45.0	45.0
7.5°	11.3	11.3	11.3	11.3	11.3	11.3	18.8	26.3	37.5	41.3	45.0
10°	11.3	7.5	7.5	3.8	3.8	7.5	11.3	22.5	33.8	37.5	41.3
12.5°	7.5	3.8	3.8	0.0	0.0	3.8	7.5	18.8	30.0	33.8	37.5
15°	3.8	0.0	0.0	0.0	0.0	0.0	3.8	15.0	26.3	30.0	37.5
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	22.5	30.0	33.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	18.8	26.3	30.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	15.0	22.5	26.3
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	15.0	18.8
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	11.3	15.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	11.3	15.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.5	11.3
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.5	11.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.5	7.5
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.5
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.5
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.5
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.5
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.5
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8
90°	0.0	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):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
2.5°	52.5	52.5	48.8	45.0	45.0	45.0	48.8	52.5	52.5	52.5
5°	48.8	48.8	45.0	45.0	45.0	45.0	48.8	56.3	60.1	60.1
7.5°	48.8	48.8	45.0	45.0	45.0	45.0	48.8	56.3	60.1	63.8
10°	45.0	45.0	45.0	45.0	41.3	45.0	48.8	56.3	67.6	67.6
12.5°	45.0	45.0	45.0	45.0	41.3	45.0	52.5	60.1	71.3	75.1
15°	45.0	45.0	45.0	41.3	41.3	45.0	52.5	63.8	75.1	82.6
17.5°	41.3	45.0	45.0	41.3	41.3	45.0	52.5	63.8	82.6	93.8
20°	37.5	41.3	45.0	41.3	41.3	41.3	52.5	63.8	86.3	101.3
22.5°	33.8	37.5	41.3	41.3	37.5	41.3	52.5	67.6	93.8	112.6
25°	30.0	33.8	33.8	37.5	37.5	41.3	52.5	67.6	97.6	127.6
27.5°	22.5	26.3	30.0	33.8	33.8	41.3	52.5	71.3	105.1	157.6
30°	18.8	22.5	26.3	30.0	33.8	41.3	52.5	71.3	112.6	198.9
32.5°	18.8	22.5	26.3	30.0	33.8	37.5	52.5	75.1	123.9	247.7
35°	15.0	18.8	22.5	30.0	30.0	37.5	52.5	75.1	135.1	322.8
37.5°	15.0	18.8	22.5	30.0	30.0	37.5	52.5	75.1	165.1	360.3
40°	11.3	15.0	18.8	30.0	30.0	37.5	56.3	78.8	168.9	364.1
42.5°	11.3	15.0	18.8	26.3	30.0	37.5	56.3	78.8	157.6	375.3
45°	11.3	15.0	18.8	30.0	33.8	41.3	56.3	82.6	153.9	427.9
47.5°	11.3	15.0	18.8	30.0	37.5	41.3	56.3	82.6	157.6	611.8
50°	11.3	15.0	18.8	30.0	41.3	41.3	56.3	82.6	172.6	983.3
52.5°	7.5	11.3	15.0	26.3	33.8	45.0	60.1	78.8	183.9	1313.6
55°	7.5	7.5	11.3	22.5	30.0	48.8	63.8	78.8	213.9	1396.2
57.5°	7.5	7.5	11.3	18.8	26.3	52.5	67.6	78.8	247.7	1354.9
59°	7.5	7.5	7.5	18.8	22.5	52.5	67.6	82.6	251.5	1283.6
60°	7.5	7.5	7.5	15.0	22.5	52.5	71.3	86.3	255.2	1201.0
62.5°	3.8	3.8	3.8	15.0	18.8	52.5	78.8	105.1	262.7	927.0
65°	7.5	7.5	3.8	11.3	18.8	45.0	90.1	112.6	266.5	720.6
67.5°	7.5	7.5	7.5	15.0	18.8	45.0	93.8	116.3	266.5	570.5
70°	7.5	7.5	7.5	15.0	22.5	45.0	93.8	120.1	262.7	465.4
72.5°	7.5	7.5	7.5	15.0	22.5	41.3	86.3	123.9	251.5	394.1
75°	7.5	7.5	7.5	11.3	18.8	37.5	82.6	135.1	228.9	334.0
77.5°	7.5	7.5	7.5	7.5	15.0	30.0	75.1	150.1	202.7	270.2
80°	11.3	7.5	7.5	7.5	11.3	26.3	71.3	146.4	168.9	176.4
82.5°	11.3	7.5	7.5	3.8	7.5	18.8	56.3	112.6	86.3	78.8
85°	7.5	7.5	7.5	3.8	3.8	11.3	26.3	33.8	26.3	18.8
87.5°	7.5	7.5	7.5	3.8	3.8	3.8	3.8	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

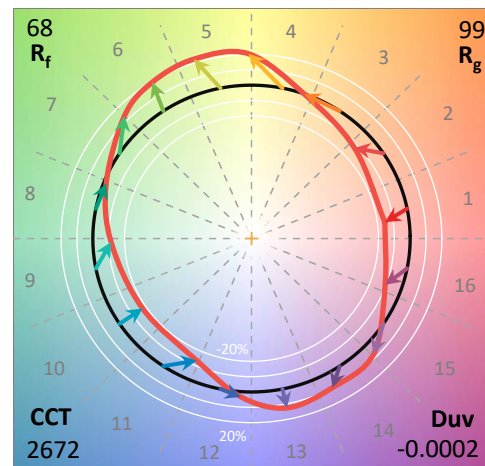
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

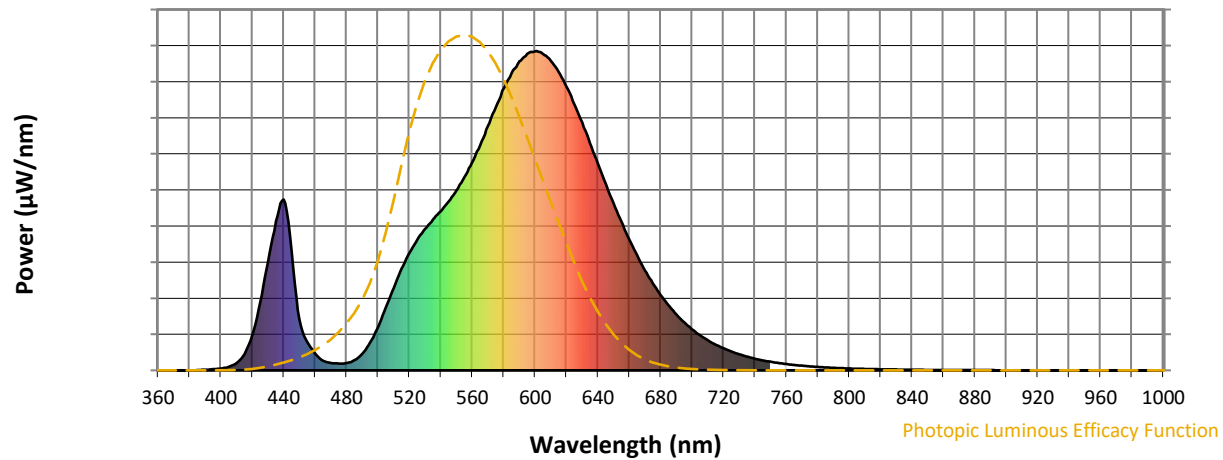
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

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: SP1-2407-184-3

Photopic Flux vs. Wavelength

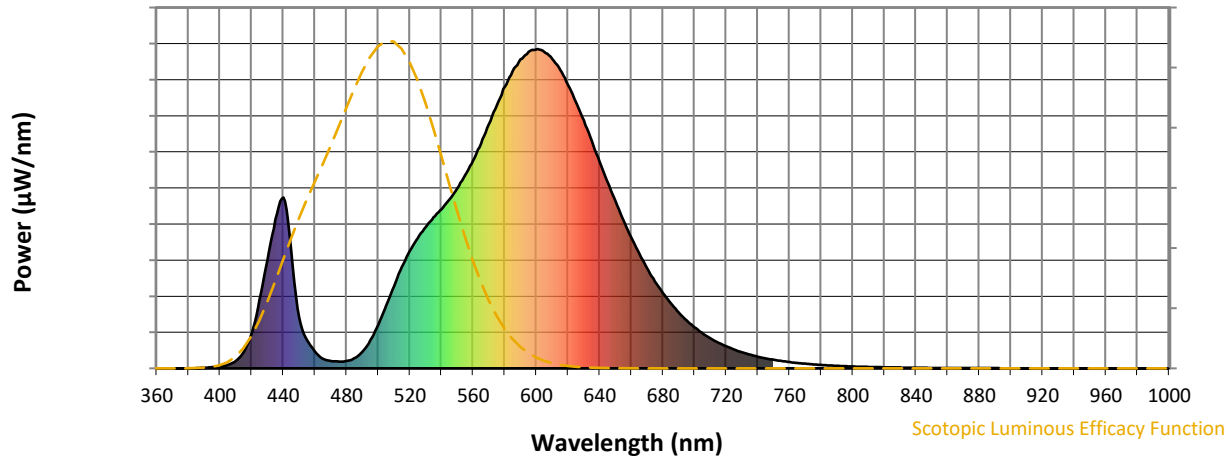


Photopic Lumens: NR

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength



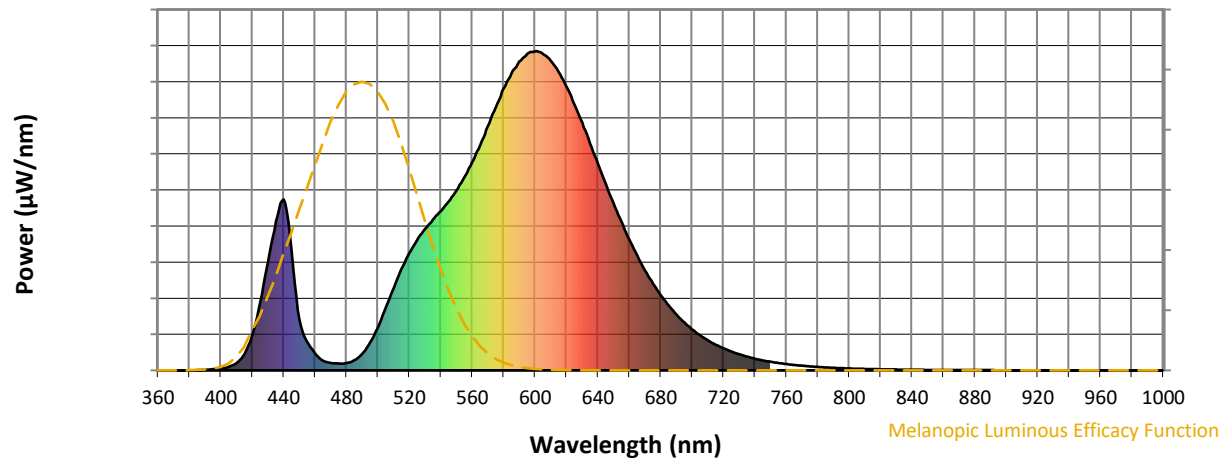
Scotopic Lumens: NR

S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 1.71

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

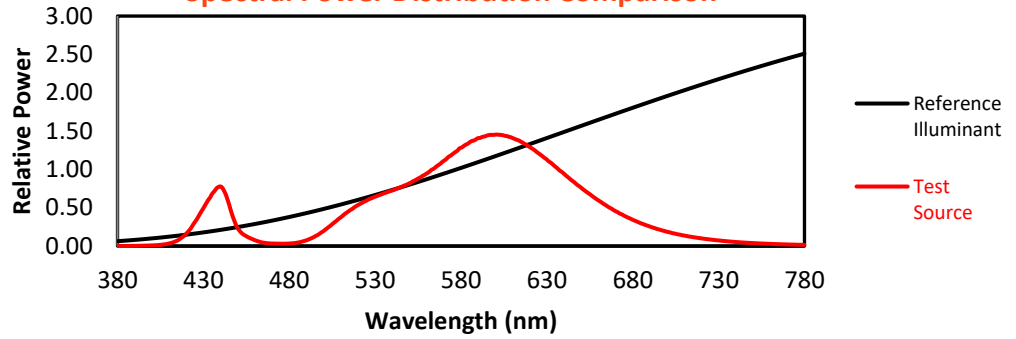
REPORT NUMBER: SP1-2407-184-3

TM-30-18

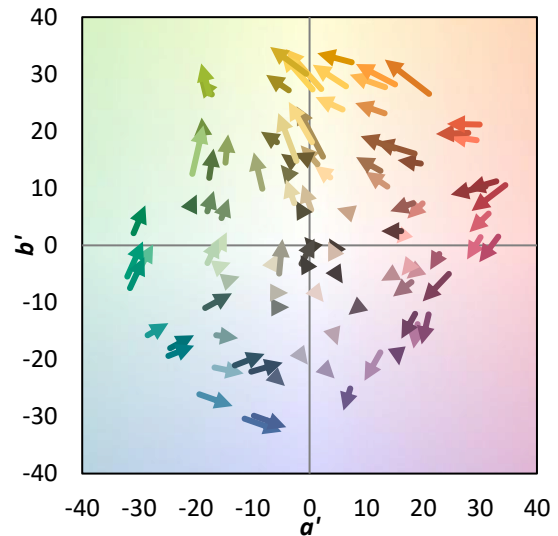
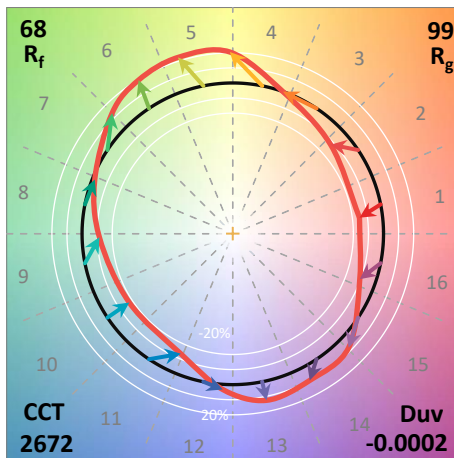
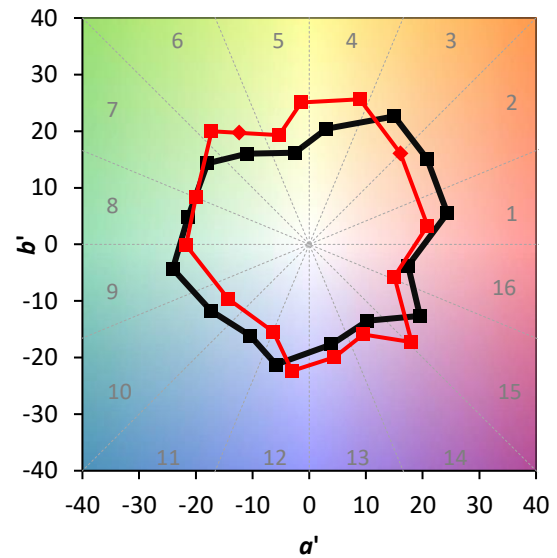
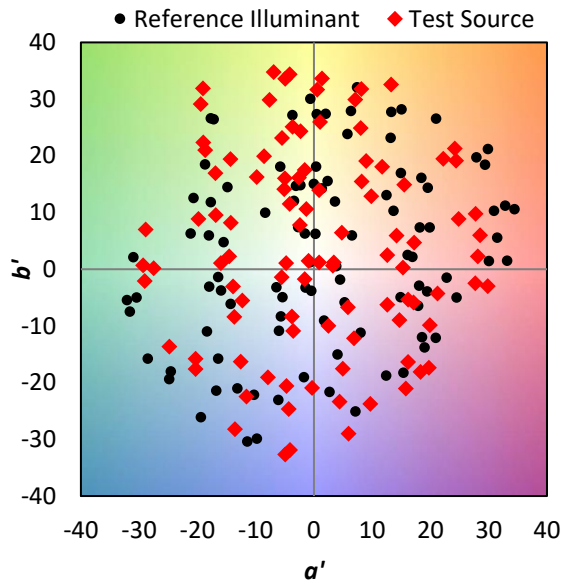
Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison

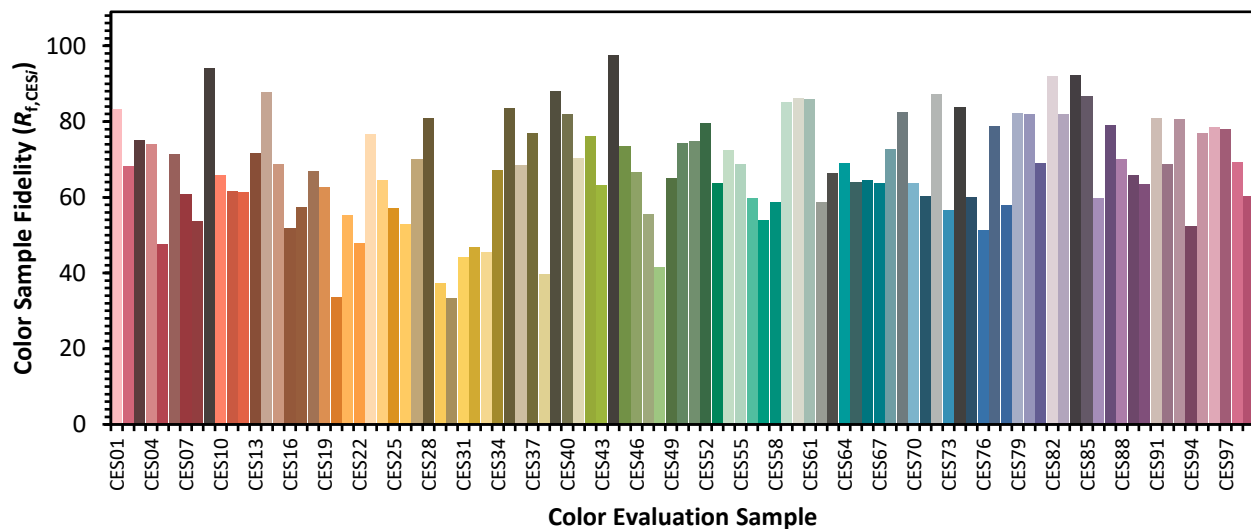


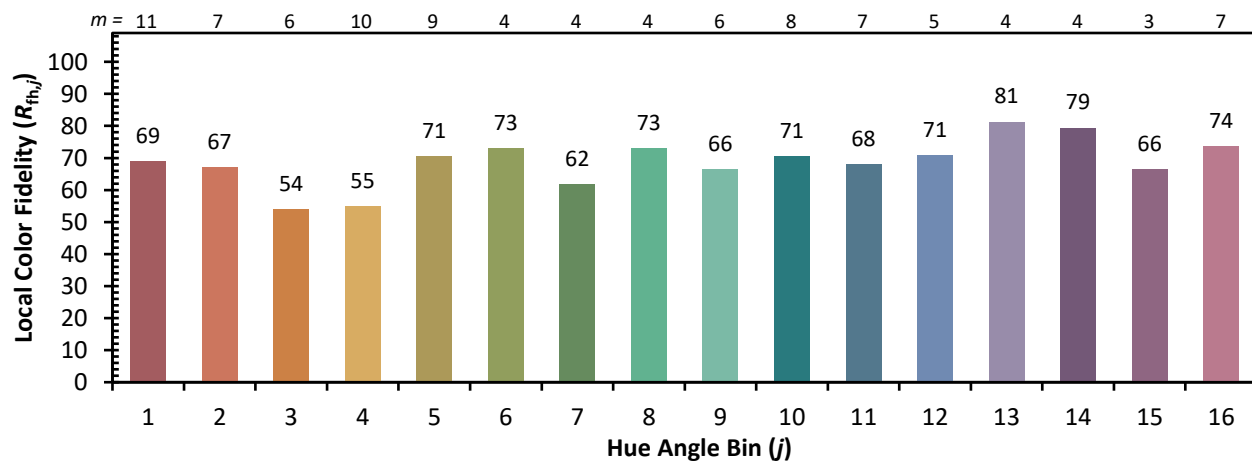
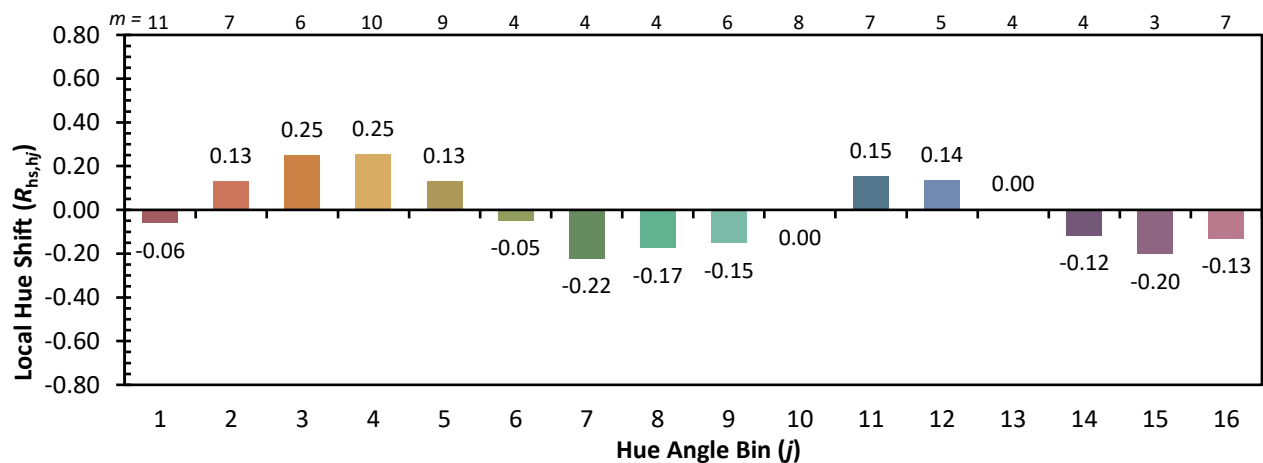
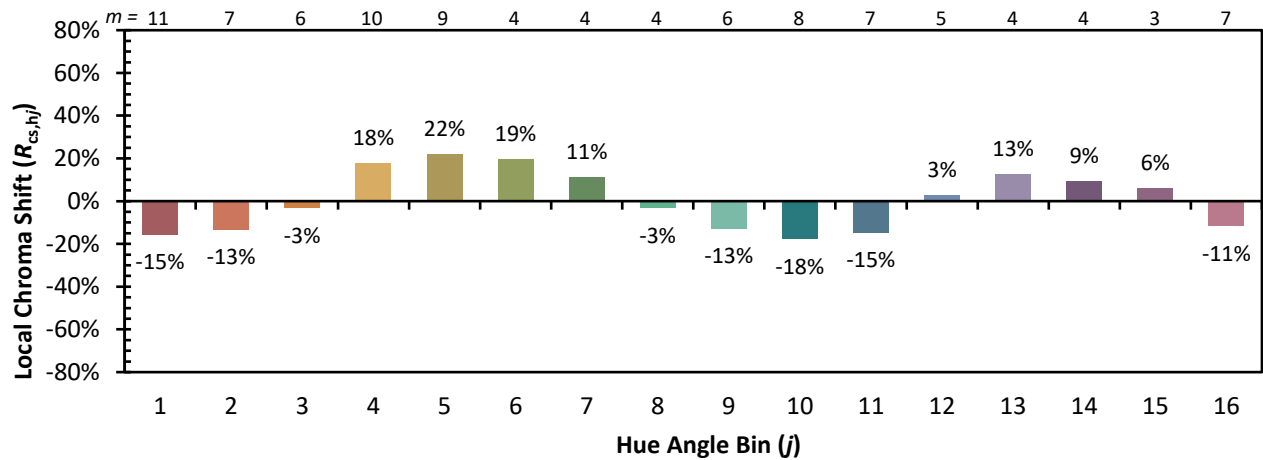
Color Vector Graphics



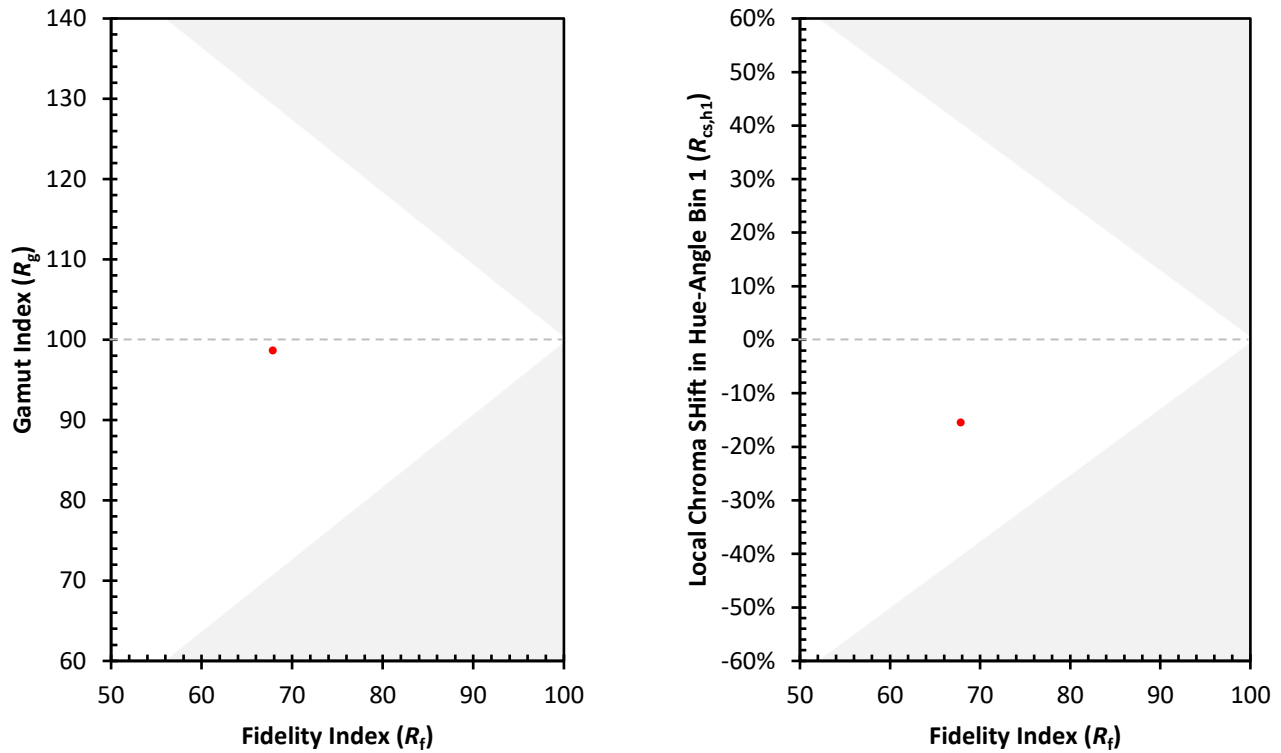
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)