

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: P1067979

Luminaire Tested: **NAV-SA4C-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067979
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4C-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 4xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17649.7 lumens
Efficiency: N/A
Efficacy: 92.7 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



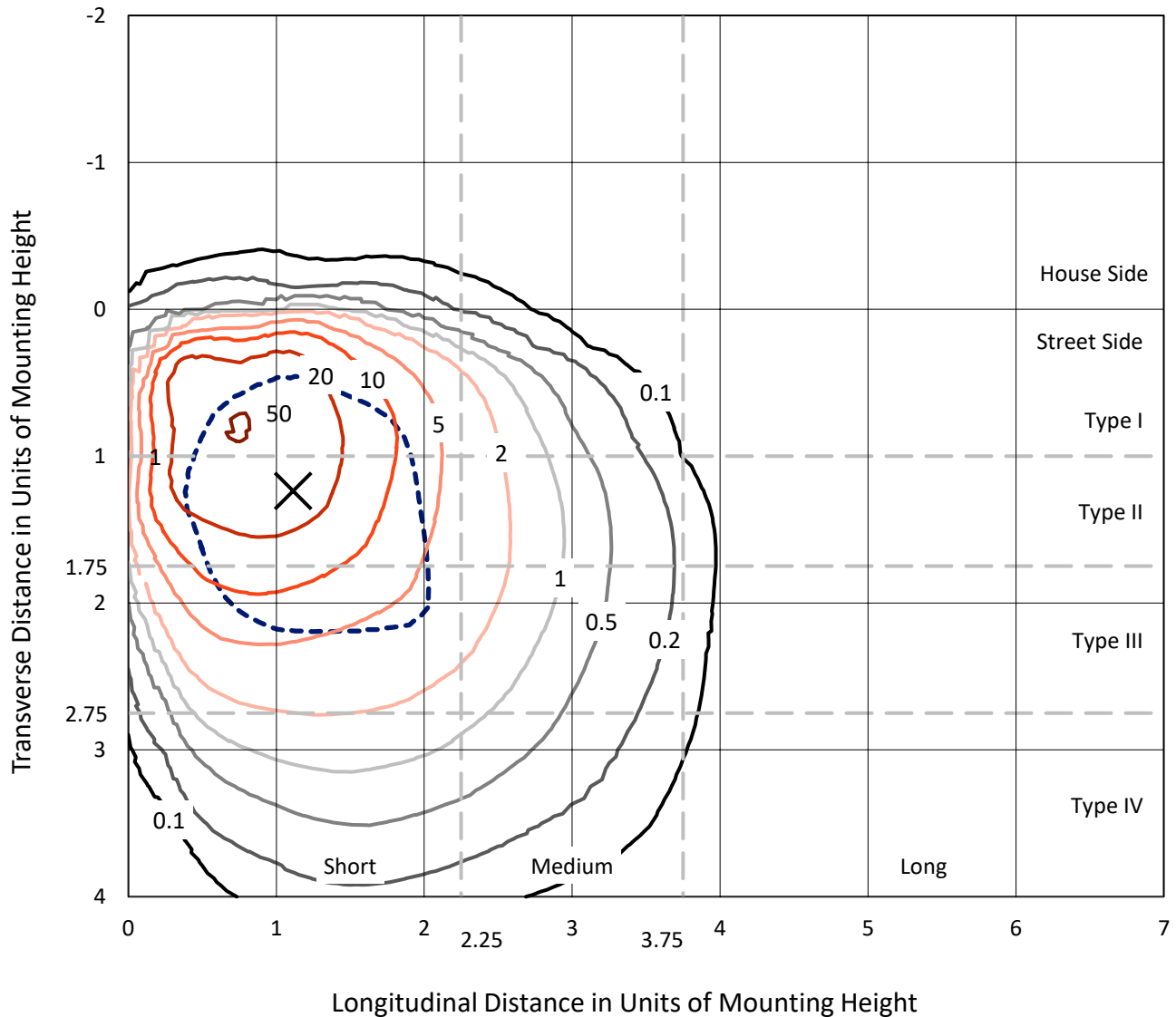
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

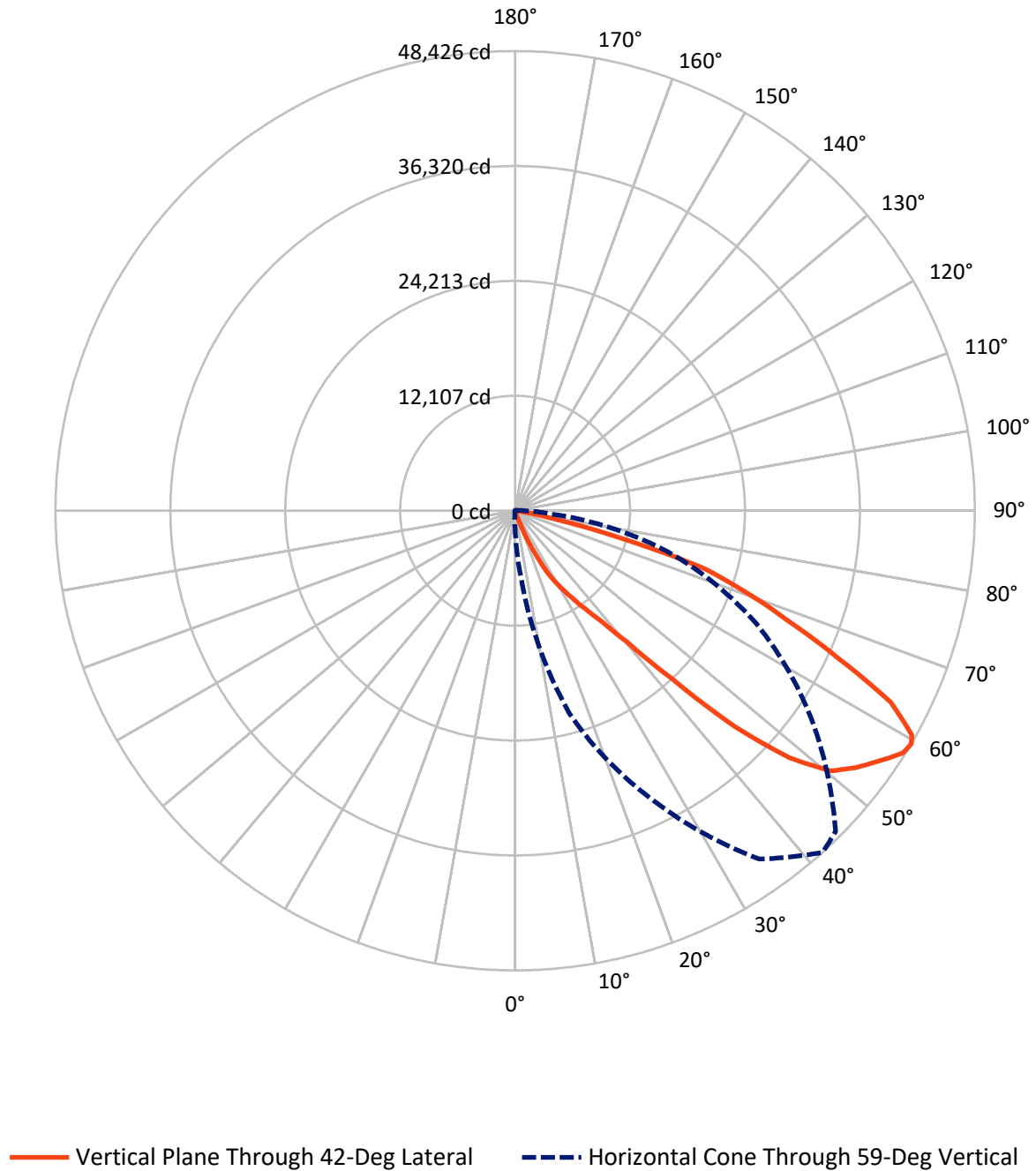


Based on 15 foot mounting height. Maximum calculated value = 52.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	85.0	0.0	85.0
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	17564.7	0.0	17564.7
	% Fixture	99.5	0.0	99.5
Total	Lumens	17649.7	0.0	17649.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.0
10°-20°	25.7	0.1
20°-30°	329.2	1.9
30°-40°	1109.9	6.3
40°-50°	3352.5	19.0
50°-60°	5918.0	33.5
60°-70°	5210.9	29.5
70°-80°	1658.6	9.4
80°-90°	39.7	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°	17649.7	100.0
0°-180°	17649.7	100.0



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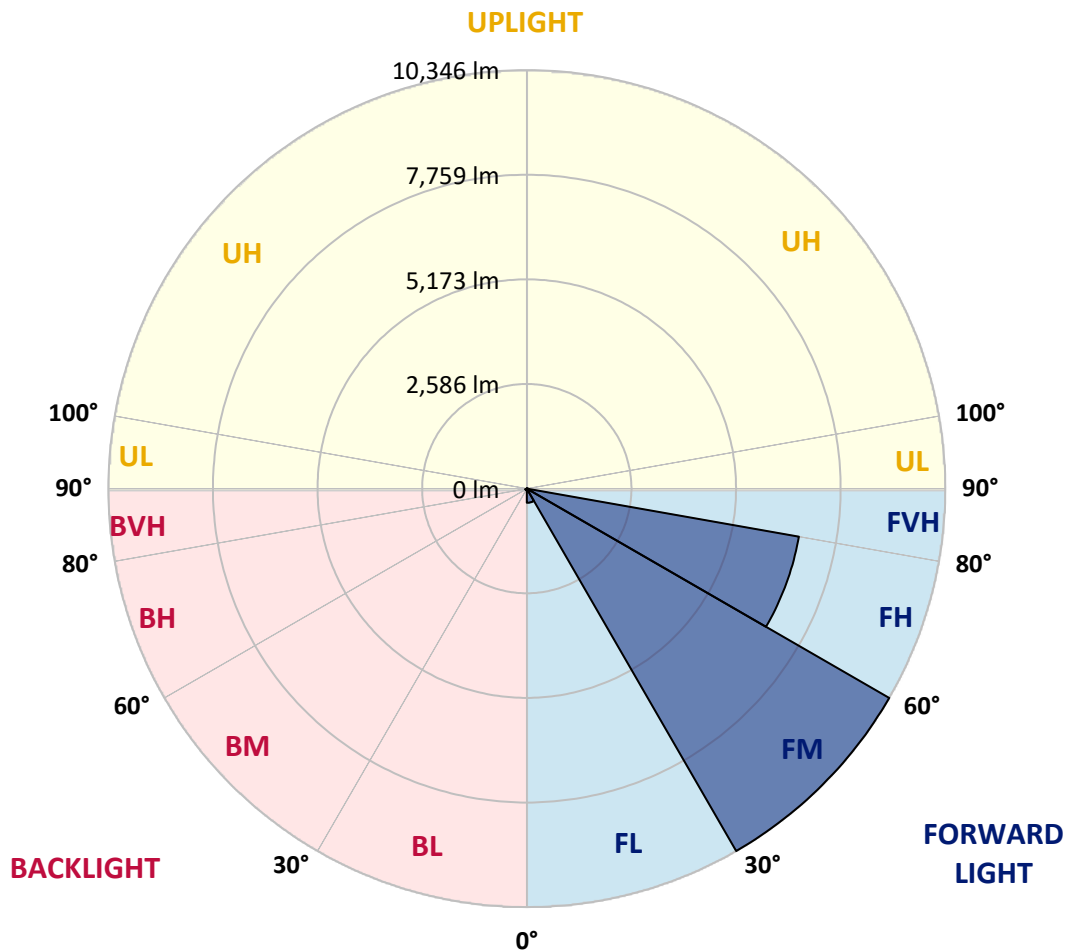
CATALOG NUMBER: NAV-SA4C-735-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	350.6	2.0			
FM	(30°-60°)	10345.7	58.6			
FH	(60°-80°)	6830.6	38.7			G3/7500
FVH	(80°-90°)	37.8	0.2			G1/100
BL	(0°-30°)	9.5	0.1	B0/110		
BM	(30°-60°)	34.7	0.2	B0/220		
BH	(60°-80°)	38.9	0.2	B0/110		G0/110
BVH	(80°-90°)	1.9	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°	42°	45°	55°	65°	75°	85°
0°	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
2.5°	77.5	77.5	71.9	66.4	60.9	55.3	55.3	55.3	49.8	49.8	44.3
5°	88.5	88.5	83.0	77.5	77.5	71.9	71.9	66.4	60.9	60.9	55.3
7.5°	94.1	94.1	94.1	94.1	88.5	88.5	88.5	83.0	77.5	71.9	66.4
10°	99.6	105.1	110.7	110.7	110.7	110.7	110.7	105.1	94.1	88.5	77.5
12.5°	110.7	116.2	127.3	138.3	138.3	143.9	138.3	132.8	121.7	105.1	88.5
15°	121.7	132.8	149.4	171.5	193.7	199.2	199.2	182.6	160.5	127.3	105.1
17.5°	138.3	154.9	199.2	271.2	348.6	409.5	409.5	365.2	254.6	166.0	121.7
20°	149.4	182.6	321.0	653.0	996.1	1250.6	1200.8	1062.5	570.0	260.1	132.8
22.5°	166.0	232.4	680.7	1715.5	2656.2	3121.1	3010.4	2285.5	1278.3	464.8	160.5
25°	188.1	337.6	1350.2	3215.1	4936.1	5439.7	5367.8	4266.5	2329.7	780.3	204.7
27.5°	232.4	498.0	2163.7	4875.3	7282.5	7714.1	7686.4	6247.6	3724.2	1256.2	265.6
30°	293.3	724.9	3209.6	6623.9	8837.4	9274.6	9136.3	7697.5	5024.7	1920.2	343.1
32.5°	365.2	1012.7	4155.9	7913.3	10270.7	10846.2	10680.2	8959.2	6070.6	2484.7	509.1
35°	475.9	1294.9	5091.1	9053.3	11925.3	12655.8	12379.1	10259.6	6972.6	3121.1	614.2
37.5°	531.2	1460.9	5948.8	10292.8	13784.6	14780.7	14570.4	11903.2	7891.2	3934.5	752.6
40°	536.8	1660.1	6839.8	11908.7	16413.2	18189.5	17813.2	14725.4	9601.1	4980.4	968.4
42.5°	553.4	1959.0	7996.3	14664.5	21576.2	24127.3	23701.2	19916.1	13480.3	7077.7	1372.4
45°	630.9	2523.4	10353.7	19816.5	28665.0	32405.8	31913.3	27148.7	18897.9	11023.3	2340.8
47.5°	902.0	3796.2	14487.4	25377.9	35914.2	38896.9	38775.2	32848.5	23806.3	15068.5	3967.7
50°	1449.9	5827.1	19191.2	30054.0	40529.4	43091.6	42787.2	35228.1	26606.4	17829.8	5085.5
52.5°	1936.8	7769.4	22146.2	31775.0	41907.3	44962.0	44591.2	36096.9	27342.4	18643.3	5395.4
55°	2058.6	8472.2	23026.1	32306.2	42820.4	46544.6	46007.9	36677.9	27436.5	18062.3	4880.8
57.5°	1997.7	7808.2	22456.1	32826.4	44093.2	48171.6	47457.7	37812.3	27751.9	17077.2	4061.8
59°	1892.6	6989.2	22101.9	33241.4	44796.0	48426.1	47756.5	38061.3	27962.2	16629.0	3563.8
60°	1770.8	6435.8	21825.2	33512.6	44751.7	48027.7	47336.0	37945.1	28045.2	16241.6	3325.8
62.5°	1366.8	5135.3	21426.8	33318.9	41957.1	44392.0	43999.1	35100.8	26827.8	15002.1	2623.0
65°	1062.5	3929.0	19965.9	29716.4	35704.0	37342.0	37220.2	29721.9	22577.8	12932.4	1892.6
67.5°	841.1	2866.5	16883.6	24066.4	28725.9	31055.6	30967.0	24127.3	17138.1	9883.3	1361.3
70°	686.2	2042.0	11576.7	18145.3	22976.3	25909.2	25781.9	19418.0	12700.0	6269.8	990.5
72.5°	581.0	1306.0	7022.4	13679.5	19174.6	20851.3	20480.5	15666.1	9235.9	3414.3	785.8
75°	492.5	802.4	3480.7	8527.6	11421.7	11410.7	11039.9	8295.1	4958.3	1671.2	625.3
77.5°	398.4	564.4	1366.8	2340.8	3602.5	4460.2	4388.3	2938.4	1483.1	487.0	387.4
80°	260.1	265.6	365.2	641.9	990.5	1095.7	1245.1	896.5	431.6	232.4	160.5
82.5°	116.2	127.3	166.0	210.3	210.3	193.7	171.5	127.3	94.1	77.5	38.7
85°	27.7	38.7	27.7	33.2	27.7	22.1	22.1	11.1	0.0	0.0	0.0
87.5°	5.5	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°	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
2.5°	44.3	44.3	44.3	38.7	38.7	38.7	33.2	33.2	33.2	27.7	27.7
5°	55.3	49.8	44.3	44.3	38.7	38.7	33.2	27.7	27.7	27.7	22.1
7.5°	60.9	55.3	49.8	44.3	38.7	33.2	33.2	27.7	22.1	22.1	22.1
10°	71.9	66.4	55.3	44.3	38.7	33.2	27.7	27.7	22.1	16.6	16.6
12.5°	83.0	71.9	60.9	49.8	38.7	33.2	27.7	27.7	22.1	16.6	11.1
15°	94.1	83.0	66.4	49.8	38.7	33.2	27.7	27.7	16.6	11.1	5.5
17.5°	105.1	88.5	66.4	55.3	38.7	33.2	27.7	22.1	11.1	5.5	0.0
20°	110.7	94.1	71.9	55.3	38.7	33.2	27.7	16.6	5.5	0.0	0.0
22.5°	121.7	105.1	77.5	55.3	38.7	27.7	16.6	5.5	0.0	0.0	0.0
25°	143.9	110.7	77.5	55.3	38.7	27.7	11.1	0.0	0.0	0.0	0.0
27.5°	160.5	121.7	77.5	55.3	38.7	22.1	5.5	0.0	0.0	0.0	0.0
30°	188.1	132.8	83.0	55.3	38.7	16.6	5.5	0.0	0.0	0.0	0.0
32.5°	232.4	143.9	83.0	55.3	33.2	16.6	0.0	0.0	0.0	0.0	0.0
35°	282.2	166.0	83.0	55.3	33.2	16.6	0.0	0.0	0.0	0.0	0.0
37.5°	287.8	177.1	83.0	55.3	33.2	11.1	0.0	0.0	0.0	0.0	0.0
40°	298.8	166.0	88.5	55.3	33.2	11.1	0.0	0.0	0.0	0.0	0.0
42.5°	343.1	154.9	94.1	55.3	33.2	11.1	0.0	0.0	0.0	0.0	0.0
45°	509.1	160.5	94.1	60.9	33.2	16.6	0.0	0.0	0.0	0.0	0.0
47.5°	885.4	166.0	88.5	60.9	33.2	16.6	0.0	0.0	0.0	0.0	0.0
50°	1134.4	193.7	88.5	66.4	38.7	11.1	0.0	0.0	0.0	0.0	0.0
52.5°	1206.4	226.9	88.5	71.9	49.8	5.5	0.0	0.0	0.0	0.0	0.0
55°	1173.2	265.6	94.1	77.5	60.9	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1084.6	287.8	99.6	83.0	66.4	0.0	0.0	0.0	0.0	0.0	0.0
59°	990.5	304.4	116.2	88.5	66.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	913.1	321.0	121.7	94.1	66.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	736.0	343.1	132.8	110.7	55.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	641.9	359.7	138.3	121.7	49.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	586.6	370.8	149.4	127.3	44.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	542.3	365.2	160.5	121.7	38.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	492.5	348.6	193.7	110.7	33.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	442.7	315.4	210.3	99.6	22.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	321.0	265.6	193.7	88.5	11.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	138.3	143.9	138.3	66.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.7	33.2	27.7	16.6	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°	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
2.5°	27.7	27.7	27.7	27.7	33.2	33.2	44.3	55.3	66.4	71.9	71.9
5°	22.1	22.1	22.1	22.1	22.1	27.7	33.2	44.3	60.9	66.4	66.4
7.5°	16.6	16.6	16.6	16.6	16.6	16.6	27.7	38.7	55.3	60.9	66.4
10°	16.6	11.1	11.1	5.5	5.5	11.1	16.6	33.2	49.8	55.3	60.9
12.5°	11.1	5.5	5.5	0.0	0.0	5.5	11.1	27.7	44.3	49.8	55.3
15°	5.5	0.0	0.0	0.0	0.0	0.0	5.5	22.1	38.7	44.3	55.3
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6	33.2	44.3	49.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	27.7	38.7	44.3
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	22.1	33.2	38.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6	22.1	27.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	16.6	22.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	16.6	22.1
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.1	16.6
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.1	16.6
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.1	11.1
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.1
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.1
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.1
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.1
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.1
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5
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°	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
2.5°	77.5	77.5	71.9	66.4	66.4	66.4	71.9	77.5	77.5	77.5
5°	71.9	71.9	66.4	66.4	66.4	66.4	71.9	83.0	88.5	88.5
7.5°	71.9	71.9	66.4	66.4	66.4	66.4	71.9	83.0	88.5	94.1
10°	66.4	66.4	66.4	66.4	60.9	66.4	71.9	83.0	99.6	99.6
12.5°	66.4	66.4	66.4	66.4	60.9	66.4	77.5	88.5	105.1	110.7
15°	66.4	66.4	66.4	60.9	60.9	66.4	77.5	94.1	110.7	121.7
17.5°	60.9	66.4	66.4	60.9	60.9	66.4	77.5	94.1	121.7	138.3
20°	55.3	60.9	66.4	60.9	60.9	60.9	77.5	94.1	127.3	149.4
22.5°	49.8	55.3	60.9	60.9	55.3	60.9	77.5	99.6	138.3	166.0
25°	44.3	49.8	49.8	55.3	55.3	60.9	77.5	99.6	143.9	188.1
27.5°	33.2	38.7	44.3	49.8	49.8	60.9	77.5	105.1	154.9	232.4
30°	27.7	33.2	38.7	44.3	49.8	60.9	77.5	105.1	166.0	293.3
32.5°	27.7	33.2	38.7	44.3	49.8	55.3	77.5	110.7	182.6	365.2
35°	22.1	27.7	33.2	44.3	44.3	55.3	77.5	110.7	199.2	475.9
37.5°	22.1	27.7	33.2	44.3	44.3	55.3	77.5	110.7	243.5	531.2
40°	16.6	22.1	27.7	44.3	44.3	55.3	83.0	116.2	249.0	536.8
42.5°	16.6	22.1	27.7	38.7	44.3	55.3	83.0	116.2	232.4	553.4
45°	16.6	22.1	27.7	44.3	49.8	60.9	83.0	121.7	226.9	630.9
47.5°	16.6	22.1	27.7	44.3	55.3	60.9	83.0	121.7	232.4	902.0
50°	16.6	22.1	27.7	44.3	60.9	60.9	83.0	121.7	254.6	1449.9
52.5°	11.1	16.6	22.1	38.7	49.8	66.4	88.5	116.2	271.2	1936.8
55°	11.1	11.1	16.6	33.2	44.3	71.9	94.1	116.2	315.4	2058.6
57.5°	11.1	11.1	16.6	27.7	38.7	77.5	99.6	116.2	365.2	1997.7
59°	11.1	11.1	11.1	27.7	33.2	77.5	99.6	121.7	370.8	1892.6
60°	11.1	11.1	11.1	22.1	33.2	77.5	105.1	127.3	376.3	1770.8
62.5°	5.5	5.5	5.5	22.1	27.7	77.5	116.2	154.9	387.4	1366.8
65°	11.1	11.1	5.5	16.6	27.7	66.4	132.8	166.0	392.9	1062.5
67.5°	11.1	11.1	11.1	22.1	27.7	66.4	138.3	171.5	392.9	841.1
70°	11.1	11.1	11.1	22.1	33.2	66.4	138.3	177.1	387.4	686.2
72.5°	11.1	11.1	11.1	22.1	33.2	60.9	127.3	182.6	370.8	581.0
75°	11.1	11.1	11.1	16.6	27.7	55.3	121.7	199.2	337.6	492.5
77.5°	11.1	11.1	11.1	11.1	22.1	44.3	110.7	221.4	298.8	398.4
80°	16.6	11.1	11.1	11.1	16.6	38.7	105.1	215.8	249.0	260.1
82.5°	16.6	11.1	11.1	5.5	11.1	27.7	83.0	166.0	127.3	116.2
85°	11.1	11.1	11.1	5.5	5.5	16.6	38.7	49.8	38.7	27.7
87.5°	11.1	11.1	11.1	5.5	5.5	5.5	5.5	5.5	5.5	5.5
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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

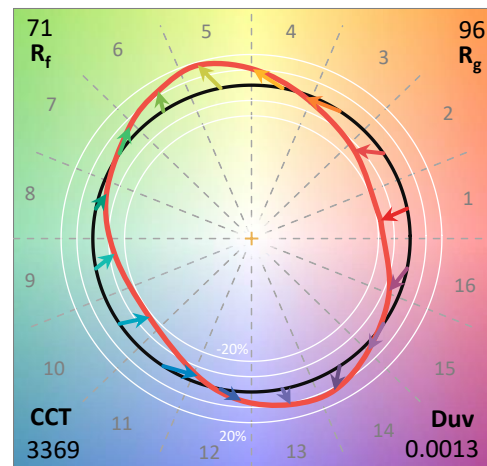
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 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-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3369	CRI (Ra):	70.1		
CIE u':	0.2386	R1:	66.6	R9:	-40.2
CIE v':	0.5156	R2:	77.6	R10:	49.1
Duv:	0.0013	R3:	88.5	R11:	66.3
CIE x:	0.4143	R4:	69.5	R12:	45.7
CIE y:	0.3980	R5:	66.4	R13:	68.0
CIE z:	0.1877	R6:	69.6	R14:	93.4
Peak Wavelength (nm):	590	R7:	77.5	R15:	57.6
Dominant Wavelength (nm):	580	R8:	44.9		
Purity:	43.80166				
Rf:	71.4				
Rg:	96				



Test Conditions

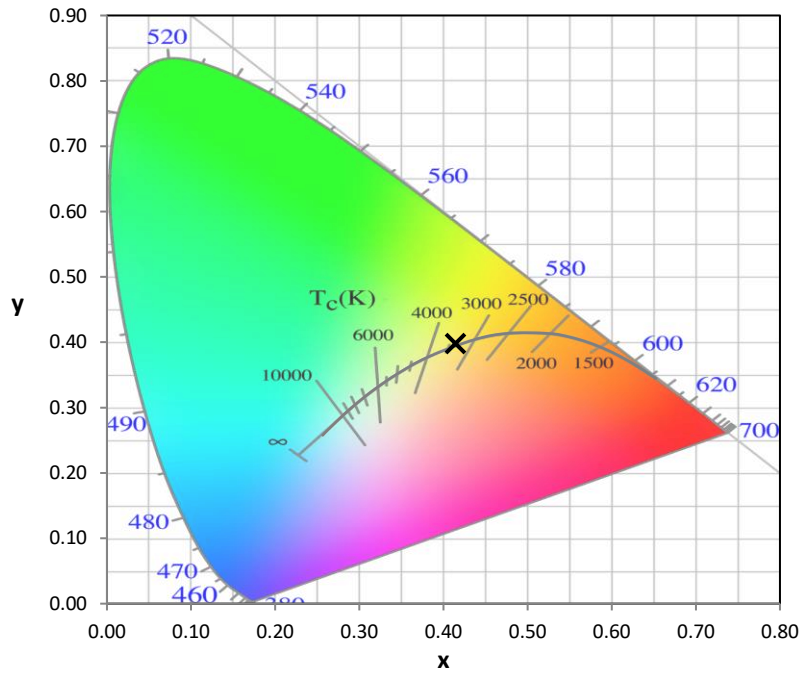
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

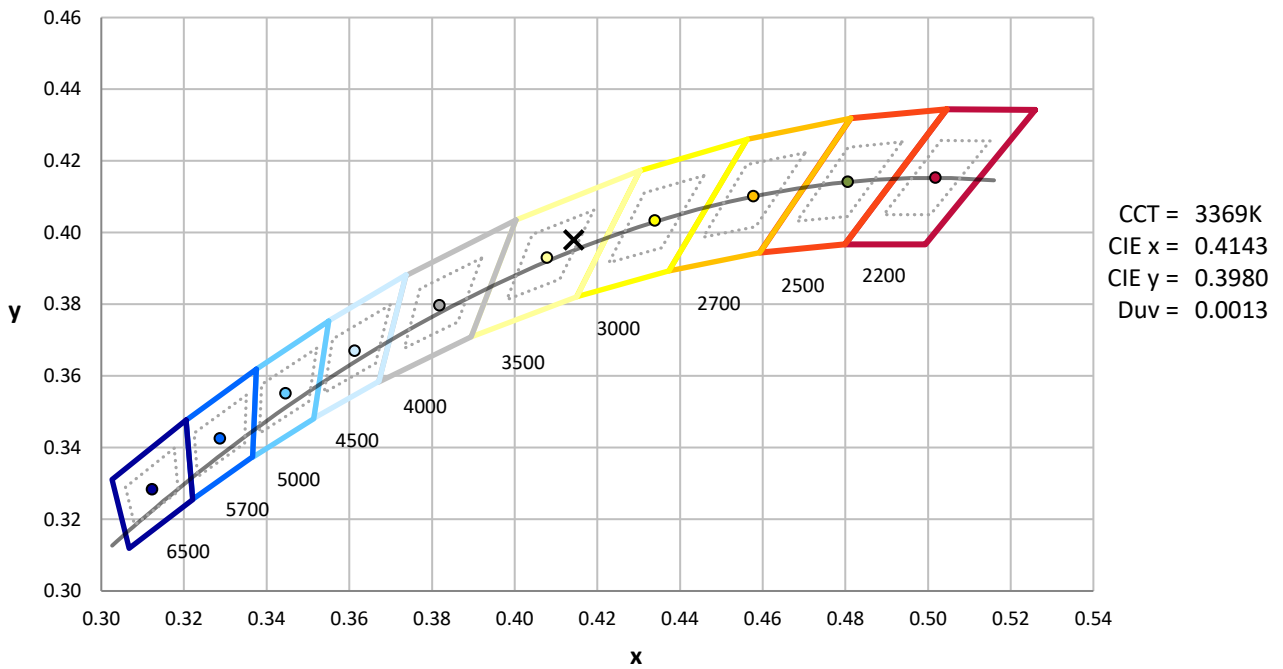
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

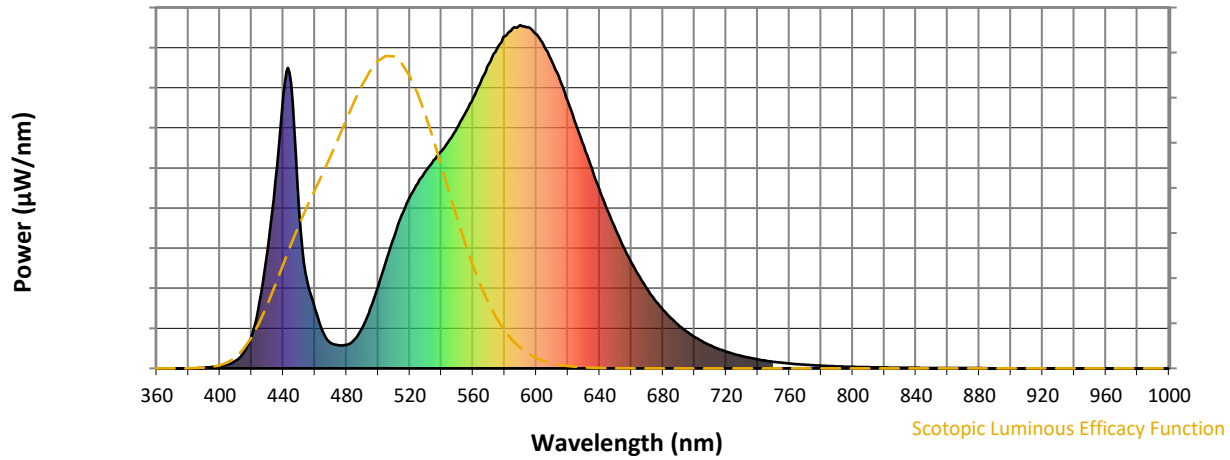


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



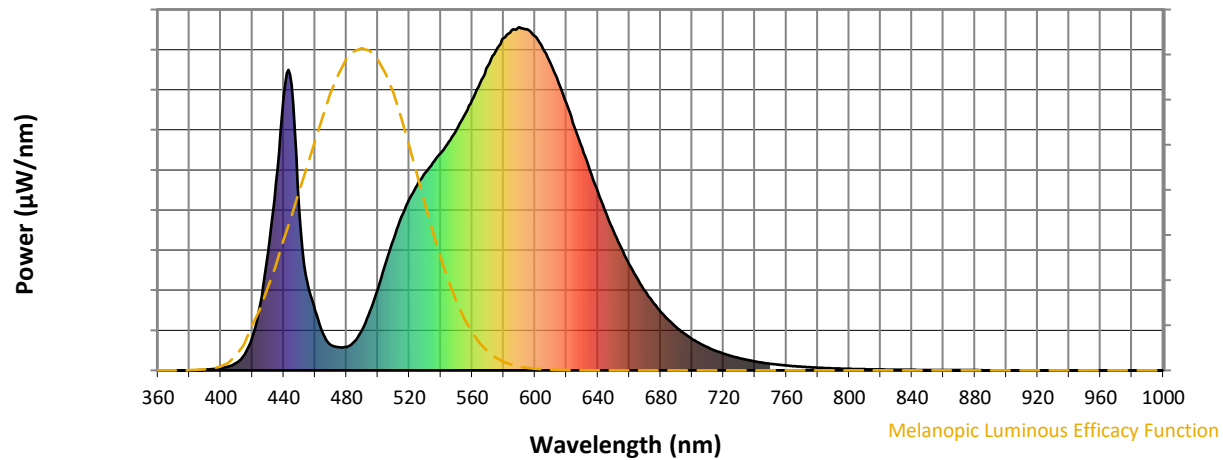
Scotopic Lumens: NR

S/P: 1.29

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.36

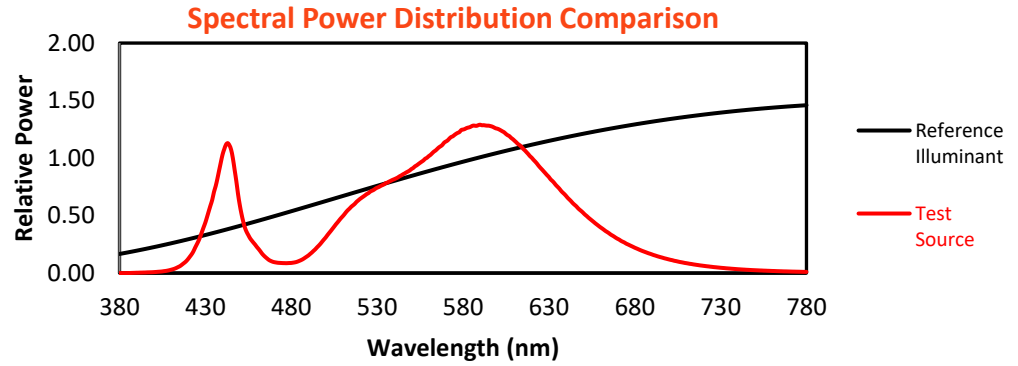
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

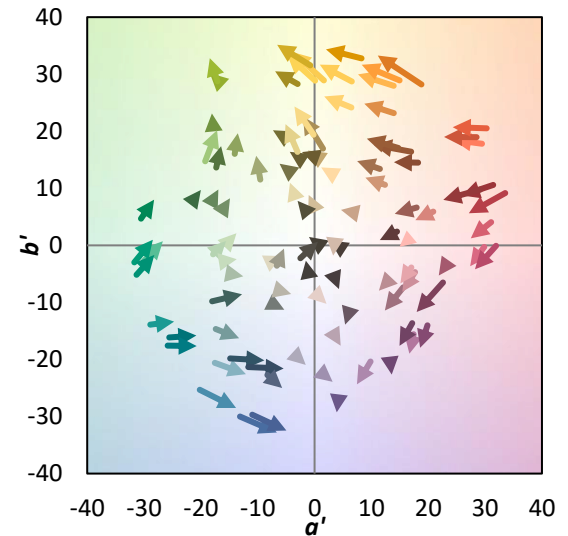
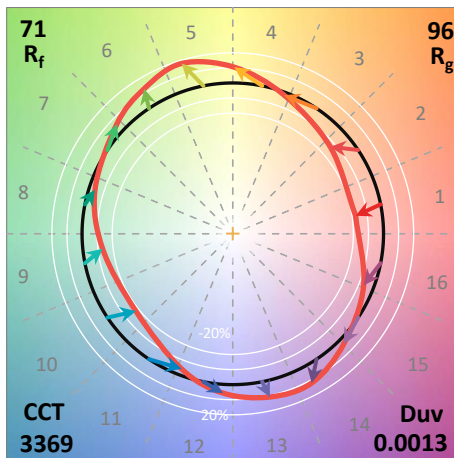
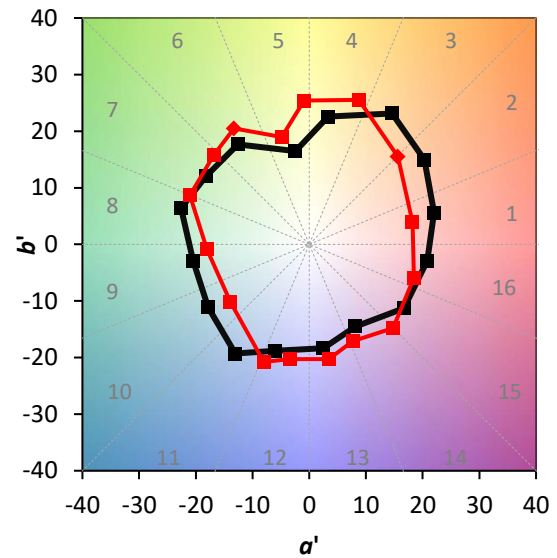
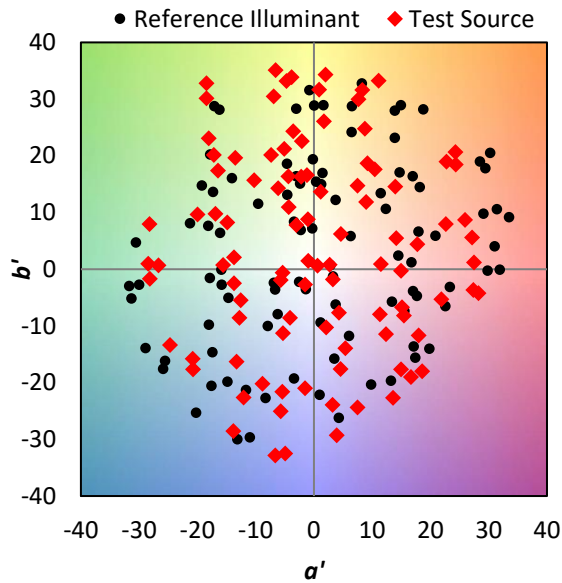
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 $CIE R_a = 70.1$
 $R_g = -40.2$

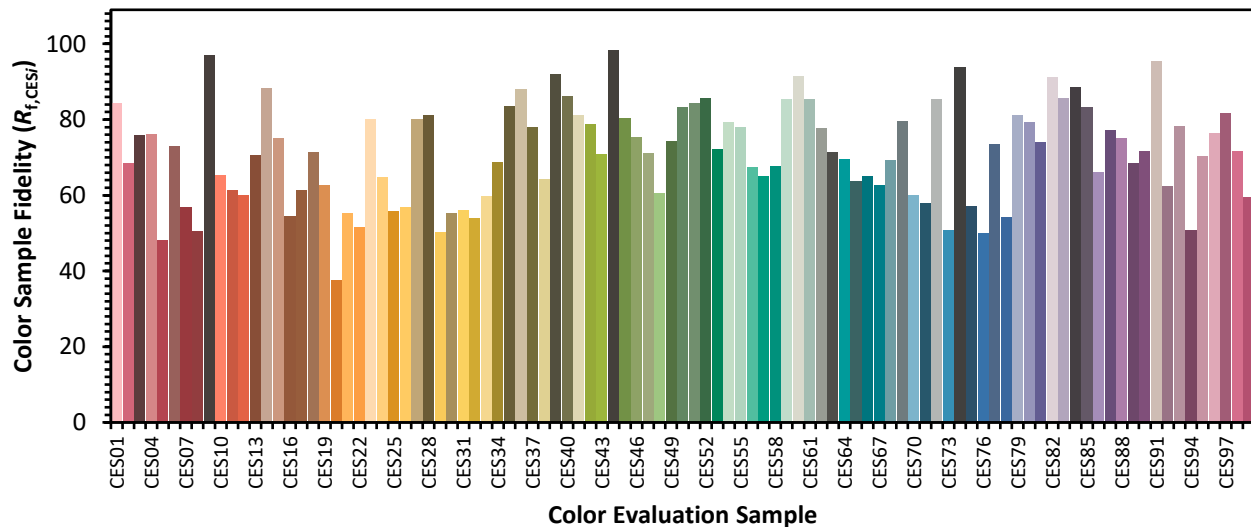


Color Vector Graphics

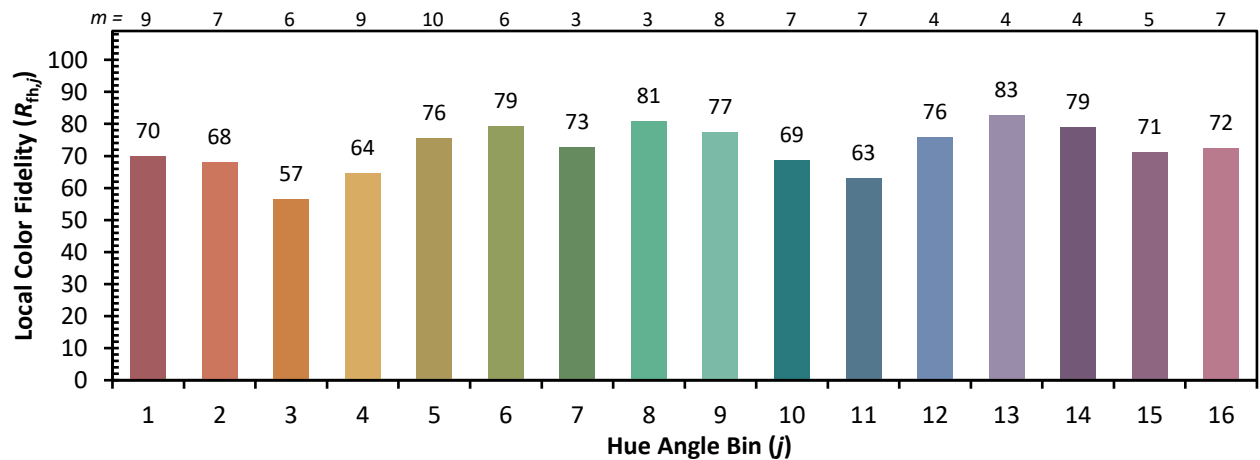
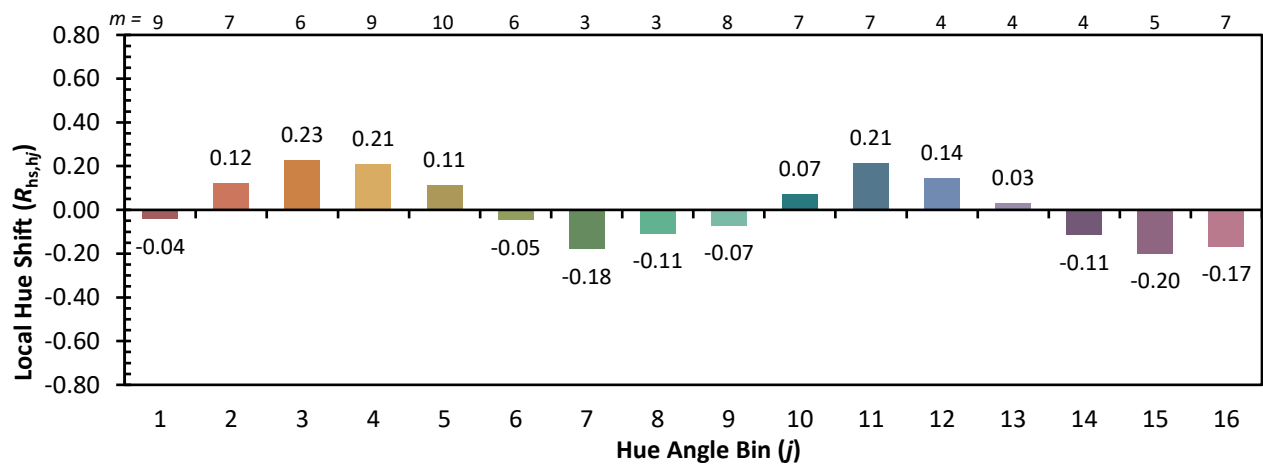
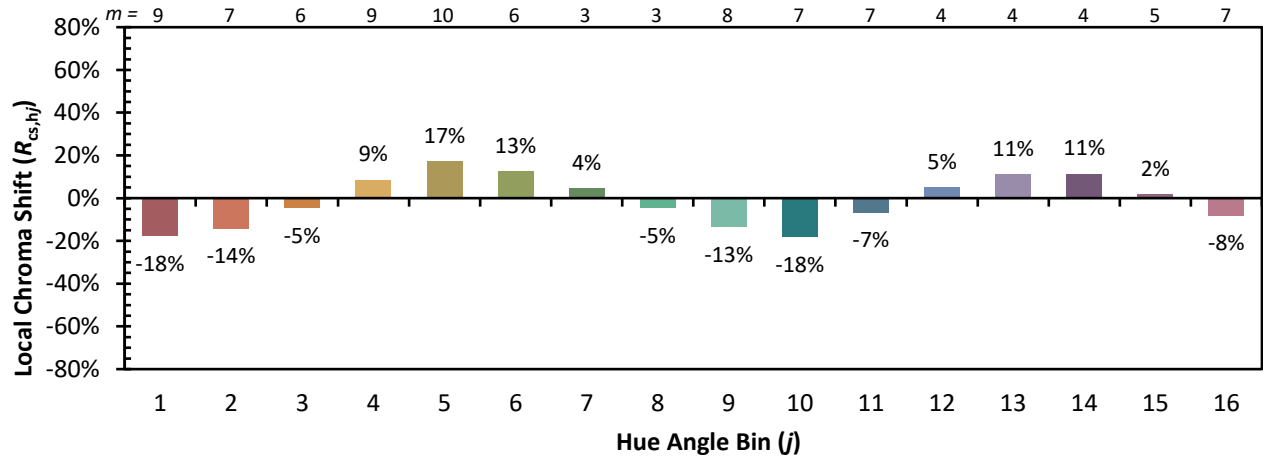


Individual Sample Fidelity Index ($R_{f,i}$)

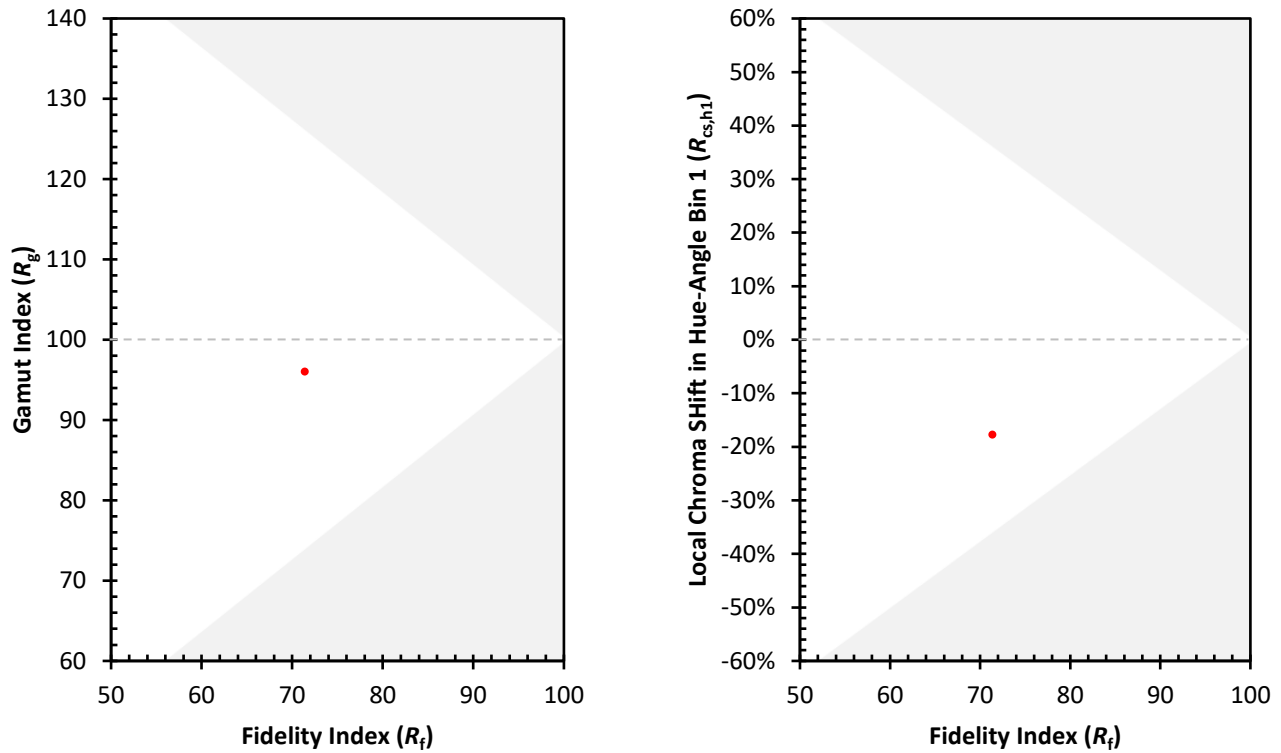
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)