

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: P1065399

Luminaire Tested: **GLAN-SA4C-830-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065399
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4C-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 4xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18428.8 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 190.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

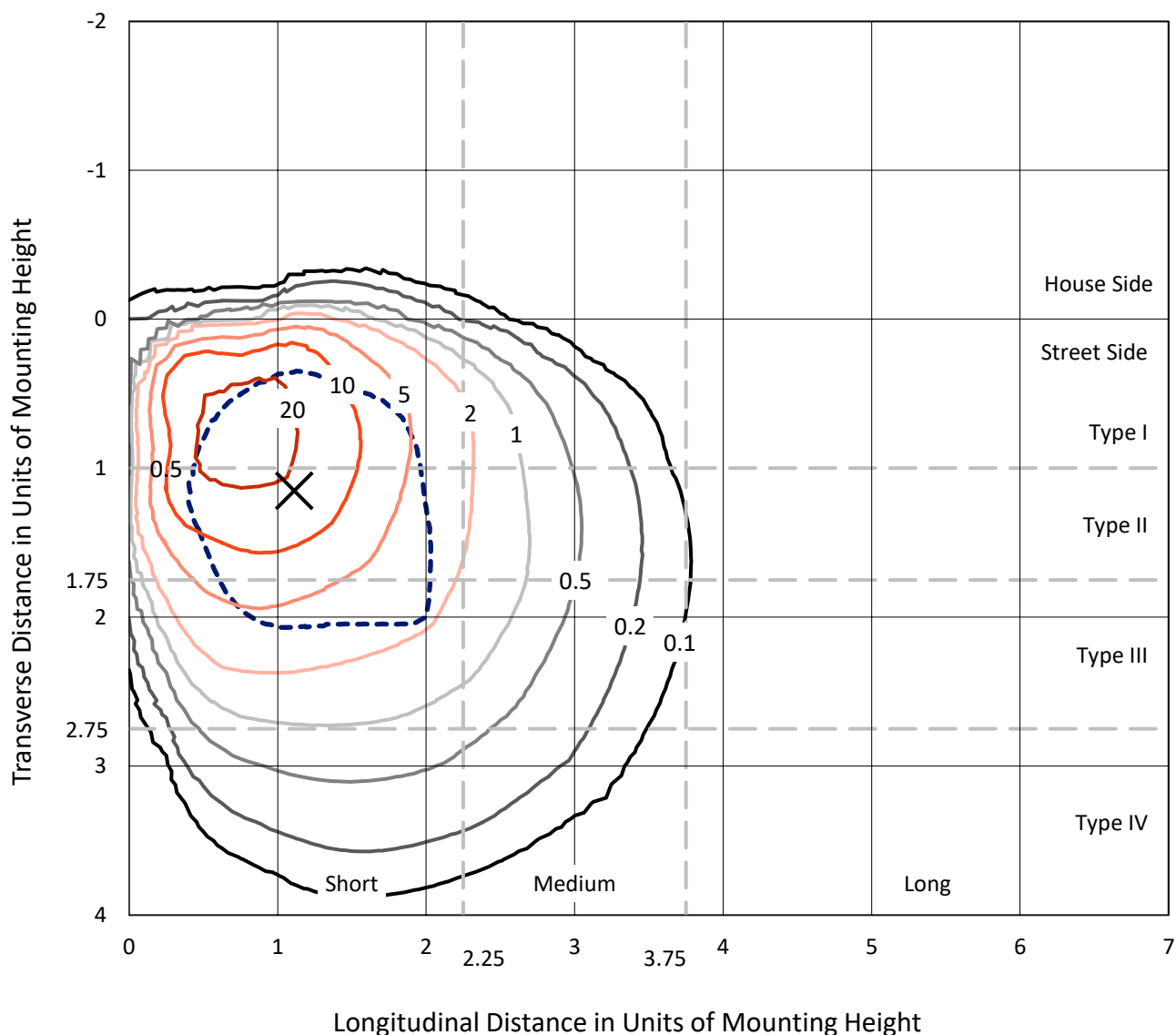
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

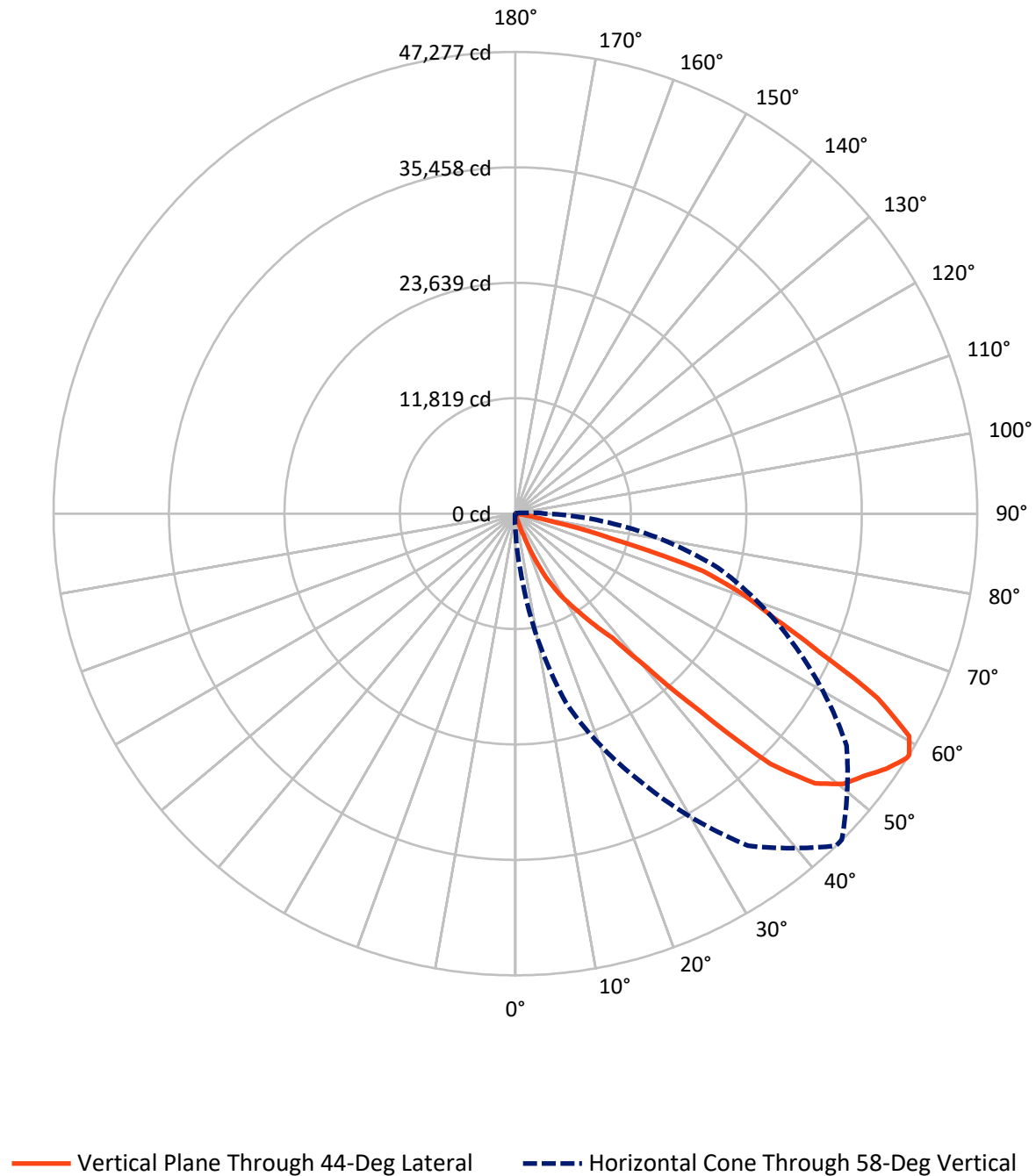


Based on 20 foot mounting height. Maximum calculated value = 32.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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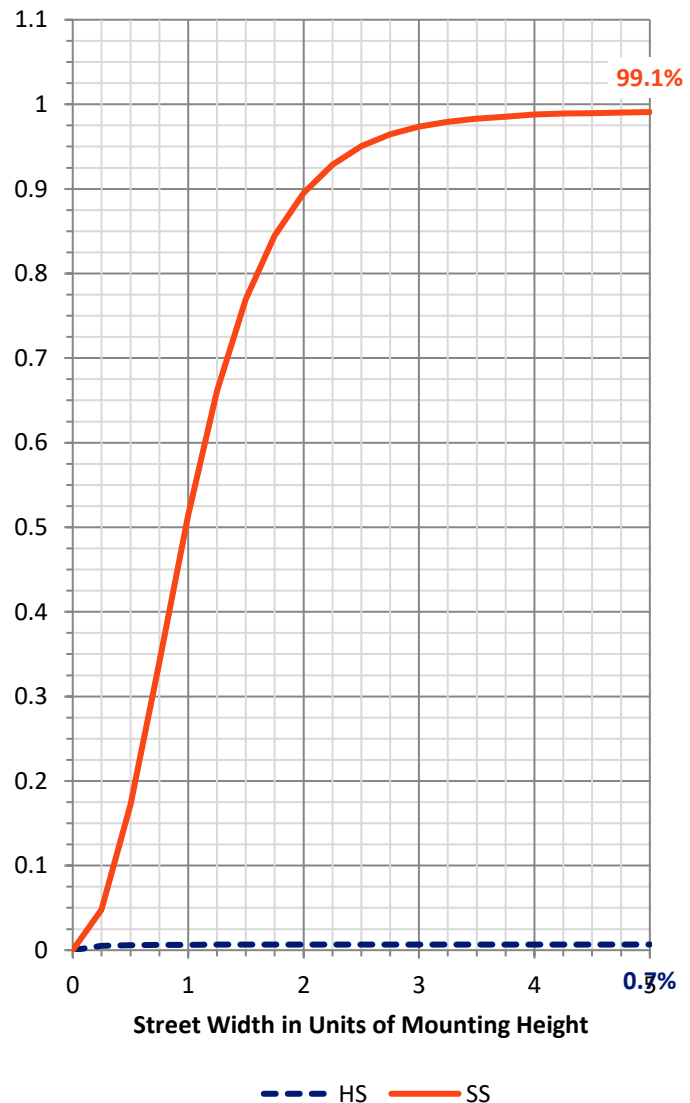
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	125.8	0.0	125.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	18303.0	0.0	18303.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	18428.8	0.0	18428.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.0
10°-20°	40.4	0.2
20°-30°	436.6	2.4
30°-40°	1291.1	7.0
40°-50°	3848.2	20.9
50°-60°	6106.2	33.1
60°-70°	5093.3	27.6
70°-80°	1570.9	8.5
80°-90°	34.9	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°	18428.8	100.0
0°-180°	18428.8	100.0



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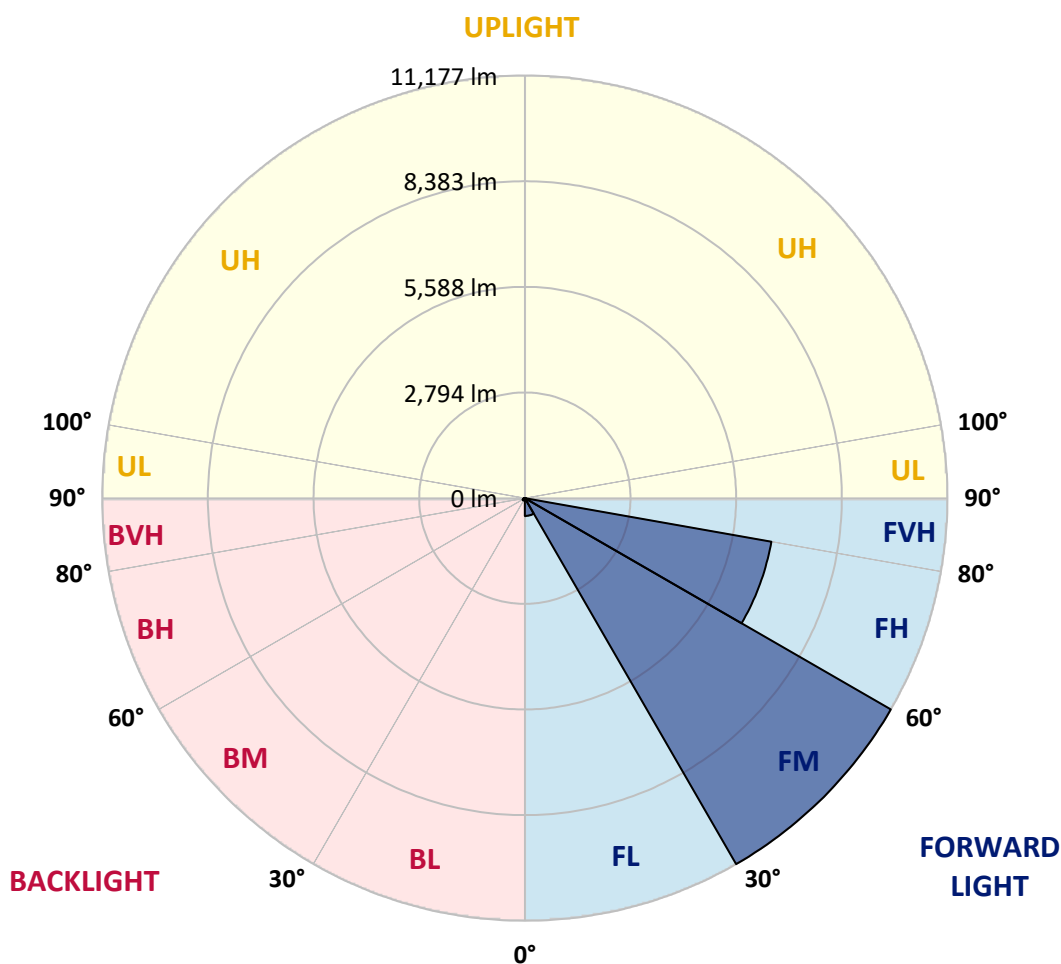
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	471.9	2.6			
FM	(30°-60°)	11176.7	60.6			
FH	(60°-80°)	6621.2	35.9			G3/7500
FVH	(80°-90°)	33.2	0.2			G1/100
BL	(0°-30°)	12.3	0.1	B0/110		
BM	(30°-60°)	68.9	0.4	B0/220		
BH	(60°-80°)	43.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
2.5°	104.4	104.4	100.2	94.7	89.1	83.5	82.1	79.4	78.0	76.6
5°	108.6	108.6	107.2	103.0	97.4	93.3	93.3	89.1	86.3	83.5
7.5°	111.4	112.8	115.5	114.2	111.4	107.2	107.2	104.4	100.2	93.3
10°	115.5	119.7	125.3	128.1	129.5	129.5	128.1	126.7	119.7	110.0
12.5°	119.7	128.1	142.0	155.9	164.3	175.4	174.0	171.2	153.1	132.3
15°	128.1	140.6	169.8	210.2	272.9	311.8	327.2	313.2	253.4	178.2
17.5°	137.8	158.7	246.4	439.9	721.1	854.8	935.5	870.1	576.3	338.3
20°	147.6	193.5	458.0	1140.2	1871.0	2308.2	2429.3	2240.0	1438.1	644.6
22.5°	164.3	271.5	928.6	2356.9	4031.6	4687.3	4811.2	4205.7	2716.1	1272.4
25°	199.1	394.0	1601.0	3840.9	6016.8	7123.6	7072.1	6278.5	4406.1	2032.5
27.5°	249.2	573.6	2420.9	5457.2	7918.5	8894.4	9011.3	8029.9	5873.4	2988.9
30°	321.6	794.9	3300.8	6751.9	9442.9	10498.1	10517.6	9502.7	7186.2	3828.4
32.5°	391.2	1003.7	4070.6	8003.4	10945.0	12101.9	12188.2	10939.4	8166.3	4702.6
35°	444.1	1140.2	4850.2	9103.2	12459.6	14053.6	14048.1	12565.4	9327.3	5483.6
37.5°	448.3	1276.6	5556.0	10228.0	14378.0	16162.7	16339.5	14705.2	10730.6	6449.8
40°	438.5	1429.7	6449.8	11982.1	17834.7	20573.0	20729.0	18668.6	13545.5	8103.6
42.5°	449.7	1695.6	7900.4	15221.7	23574.5	27507.3	27808.0	25641.8	18720.1	11478.2
45°	508.1	2195.4	10939.4	20641.2	31756.1	36550.6	36450.4	33330.6	24741.1	16615.2
47.5°	701.6	3419.1	15444.4	25916.1	36985.0	41254.7	41341.0	37527.9	28254.9	20564.7
50°	1078.9	5231.7	19229.6	28704.5	39233.3	43516.9	43436.1	39030.0	29589.9	22509.5
52.5°	1403.3	6543.1	21128.5	29683.2	39521.4	44634.8	44629.2	39425.4	29797.3	22676.6
55°	1484.0	6641.9	21143.8	29736.1	40167.4	46097.9	46281.7	40398.5	30066.0	21947.1
57.5°	1452.0	5880.4	20261.2	30042.4	41317.3	47229.7	47239.5	41341.0	30748.2	21500.2
58°	1424.2	5760.7	20083.0	30216.4	41515.0	47277.0	47253.4	41384.1	31303.6	21483.5
60°	1268.2	5002.0	19388.3	30660.5	41221.2	46305.3	46084.0	40441.6	31221.5	21312.3
62.5°	996.8	3902.2	18704.8	30146.8	38072.2	41601.3	41693.2	35804.4	28462.3	20314.1
65°	793.5	2908.2	17279.2	26443.7	31351.0	34163.1	34505.6	29115.2	23756.9	17201.3
67.5°	632.0	2102.1	14495.0	21053.3	24807.9	28512.4	28761.6	24444.6	18405.5	13179.4
70°	513.7	1421.4	10005.3	15397.1	20461.7	24626.9	24642.3	20307.1	13737.6	8635.4
72.5°	455.2	984.2	5808.0	11229.0	16591.5	20067.7	19662.6	16478.8	10558.0	5114.7
75°	394.0	652.9	2848.3	6864.6	10059.6	10127.8	10282.3	7644.2	5277.6	2432.1
77.5°	324.4	463.6	1122.1	1875.2	3016.8	3861.8	4005.2	3034.9	1755.5	598.6
80°	222.7	220.0	302.1	575.0	863.1	1081.7	1009.3	781.0	459.4	229.7
82.5°	96.1	104.4	136.4	164.3	133.6	129.5	123.9	79.4	61.3	47.3
85°	30.6	27.8	29.2	29.2	23.7	18.1	18.1	8.4	0.0	0.0
87.5°	15.3	12.5	12.5	11.1	7.0	2.8	1.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
80.7	0°	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
75.2	2.5°	73.8	73.8	71.0	68.2	66.8	64.0	62.6	61.3	59.9	58.5
80.7	5°	78.0	76.6	72.4	68.2	64.0	59.9	57.1	54.3	51.5	50.1
89.1	7.5°	84.9	82.1	73.8	66.8	61.3	55.7	52.9	48.7	45.9	41.8
98.8	10°	93.3	87.7	76.6	68.2	59.9	52.9	48.7	44.5	40.4	34.8
112.8	12.5°	104.4	94.7	80.7	66.8	57.1	48.7	44.5	39.0	34.8	30.6
130.9	15°	114.2	101.6	82.1	66.8	54.3	44.5	39.0	33.4	29.2	23.7
164.3	17.5°	128.1	107.2	80.7	62.6	50.1	39.0	33.4	29.2	22.3	13.9
243.6	20°	151.7	111.4	78.0	58.5	43.2	32.0	25.1	19.5	9.7	2.8
366.1	22.5°	189.3	122.5	75.2	52.9	37.6	25.1	16.7	7.0	0.0	0.0
556.9	25°	261.7	142.0	75.2	50.1	33.4	18.1	5.6	0.0	0.0	0.0
790.7	27.5°	348.0	168.4	75.2	43.2	26.5	9.7	0.0	0.0	0.0	0.0
1077.5	30°	435.7	197.7	75.2	37.6	20.9	1.4	0.0	0.0	0.0	0.0
1326.7	32.5°	519.3	222.7	76.6	32.0	13.9	0.0	0.0	0.0	0.0	0.0
1672.0	35°	604.2	226.9	75.2	27.8	8.4	0.0	0.0	0.0	0.0	0.0
2095.2	37.5°	712.8	218.6	71.0	25.1	4.2	0.0	0.0	0.0	0.0	0.0
2756.4	40°	877.0	222.7	66.8	23.7	1.4	0.0	0.0	0.0	0.0	0.0
3935.6	42.5°	1180.5	240.8	61.3	23.7	0.0	0.0	0.0	0.0	0.0	0.0
6268.8	45°	2040.9	323.0	55.7	25.1	0.0	0.0	0.0	0.0	0.0	0.0
9410.9	47.5°	3375.9	580.5	54.3	25.1	0.0	0.0	0.0	0.0	0.0	0.0
11336.2	50°	4308.7	730.9	57.1	26.5	0.0	0.0	0.0	0.0	0.0	0.0
11577.0	52.5°	4301.7	814.4	59.9	27.8	5.6	0.0	0.0	0.0	0.0	0.0
10670.7	55°	3824.2	829.7	64.0	30.6	18.1	0.0	0.0	0.0	0.0	0.0
9170.0	57.5°	3196.4	757.3	73.8	37.6	33.4	0.0	0.0	0.0	0.0	0.0
8934.7	58°	3085.0	723.9	76.6	39.0	36.2	0.0	0.0	0.0	0.0	0.0
7750.0	60°	2528.1	590.3	97.4	48.7	48.7	0.0	0.0	0.0	0.0	0.0
6353.7	62.5°	1745.7	515.1	111.4	62.6	50.1	0.0	0.0	0.0	0.0	0.0
4684.5	65°	1234.8	465.0	121.1	66.8	40.4	0.0	0.0	0.0	0.0	0.0
3328.6	67.5°	923.0	428.8	133.6	68.2	20.9	0.0	0.0	0.0	0.0	0.0
2088.2	70°	707.2	402.3	164.3	72.4	5.6	0.0	0.0	0.0	0.0	0.0
1244.6	72.5°	576.3	371.7	199.1	75.2	0.0	0.0	0.0	0.0	0.0	0.0
746.2	75°	477.5	335.5	192.1	82.1	0.0	0.0	0.0	0.0	0.0	0.0
398.2	77.5°	317.4	260.3	175.4	82.1	0.0	0.0	0.0	0.0	0.0	0.0
142.0	80°	111.4	103.0	136.4	72.4	0.0	0.0	0.0	0.0	0.0	0.0
29.2	82.5°	16.7	13.9	19.5	25.1	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°
80.7	0°	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
57.1	2.5°	57.1	57.1	55.7	57.1	57.1	59.9	66.8	76.6	87.7	91.9
48.7	5°	47.3	45.9	44.5	44.5	44.5	48.7	54.3	65.4	78.0	83.5
40.4	7.5°	39.0	37.6	36.2	34.8	34.8	37.6	44.5	57.1	69.6	75.2
33.4	10°	32.0	29.2	27.8	26.5	26.5	29.2	36.2	48.7	62.6	68.2
27.8	12.5°	26.5	22.3	19.5	18.1	16.7	20.9	27.8	39.0	54.3	61.3
20.9	15°	18.1	13.9	9.7	8.4	7.0	11.1	18.1	30.6	45.9	54.3
11.1	17.5°	9.7	4.2	1.4	0.0	0.0	2.8	8.4	22.3	37.6	44.5
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	27.8	34.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	16.7	23.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	12.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	11.1
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°
80.7	0°	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
96.1	2.5°	98.8	97.4	94.7	91.9	91.9	91.9	96.1	100.2	104.4	104.4
86.3	5°	91.9	91.9	90.5	87.7	87.7	89.1	94.7	101.6	107.2	108.6
79.4	7.5°	84.9	87.7	84.9	83.5	84.9	86.3	91.9	100.2	108.6	111.4
73.8	10°	80.7	82.1	82.1	80.7	80.7	83.5	89.1	100.2	111.4	115.5
66.8	12.5°	75.2	78.0	76.6	76.6	76.6	79.4	86.3	98.8	114.2	119.7
59.9	15°	69.6	73.8	73.8	72.4	72.4	73.8	83.5	97.4	118.3	128.1
51.5	17.5°	64.0	68.2	69.6	66.8	66.8	69.6	79.4	97.4	121.1	137.8
41.8	20°	52.9	59.9	64.0	59.9	59.9	62.6	72.4	91.9	122.5	147.6
30.6	22.5°	41.8	48.7	54.3	52.9	52.9	54.3	66.8	87.7	123.9	164.3
18.1	25°	30.6	37.6	41.8	44.5	44.5	48.7	61.3	84.9	129.5	199.1
8.4	27.5°	18.1	26.5	32.0	34.8	36.2	41.8	57.1	82.1	139.2	249.2
0.0	30°	8.4	15.3	22.3	27.8	27.8	37.6	52.9	79.4	151.7	321.6
0.0	32.5°	0.0	7.0	11.1	19.5	20.9	30.6	48.7	76.6	169.8	391.2
0.0	35°	0.0	0.0	5.6	15.3	15.3	25.1	44.5	73.8	197.7	444.1
0.0	37.5°	0.0	0.0	0.0	11.1	12.5	22.3	43.2	72.4	203.3	448.3
0.0	40°	0.0	0.0	0.0	8.4	9.7	20.9	43.2	73.8	183.8	438.5
0.0	42.5°	0.0	0.0	0.0	5.6	7.0	20.9	43.2	76.6	165.7	449.7
0.0	45°	0.0	0.0	0.0	4.2	5.6	22.3	41.8	75.2	155.9	508.1
0.0	47.5°	0.0	0.0	0.0	5.6	8.4	22.3	40.4	73.8	157.3	701.6
0.0	50°	0.0	0.0	0.0	7.0	9.7	22.3	41.8	71.0	172.6	1078.9
0.0	52.5°	0.0	0.0	0.0	5.6	8.4	25.1	45.9	69.6	187.9	1403.3
0.0	55°	0.0	0.0	0.0	1.4	4.2	32.0	50.1	69.6	211.6	1484.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	36.2	57.1	73.8	250.6	1452.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	36.2	58.5	73.8	253.4	1424.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	36.2	64.0	82.1	272.9	1268.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	30.6	76.6	103.0	284.0	996.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	25.1	90.5	112.8	292.3	793.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	23.7	93.3	114.2	296.5	632.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	25.1	91.9	122.5	310.4	513.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	27.8	83.5	135.0	310.4	455.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	29.2	78.0	151.7	282.6	394.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	27.8	76.6	176.8	252.0	324.4
0.0	80°	2.8	4.2	4.2	2.8	2.8	23.7	75.2	179.6	214.4	222.7
1.4	82.5°	8.4	11.1	9.7	7.0	7.0	20.9	66.8	150.4	111.4	96.1
8.4	85°	15.3	18.1	18.1	15.3	15.3	19.5	41.8	54.3	37.6	30.6
15.3	87.5°	20.9	23.7	23.7	20.9	20.9	19.5	18.1	16.7	15.3	15.3
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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

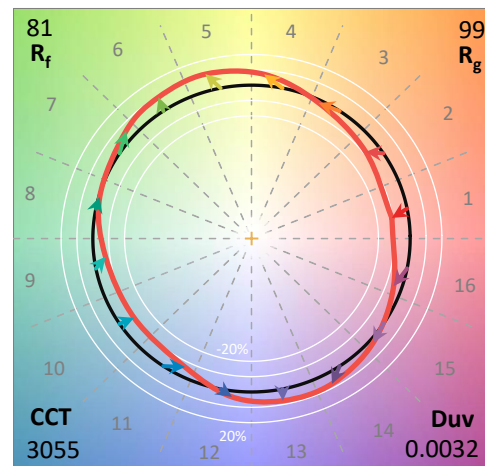
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

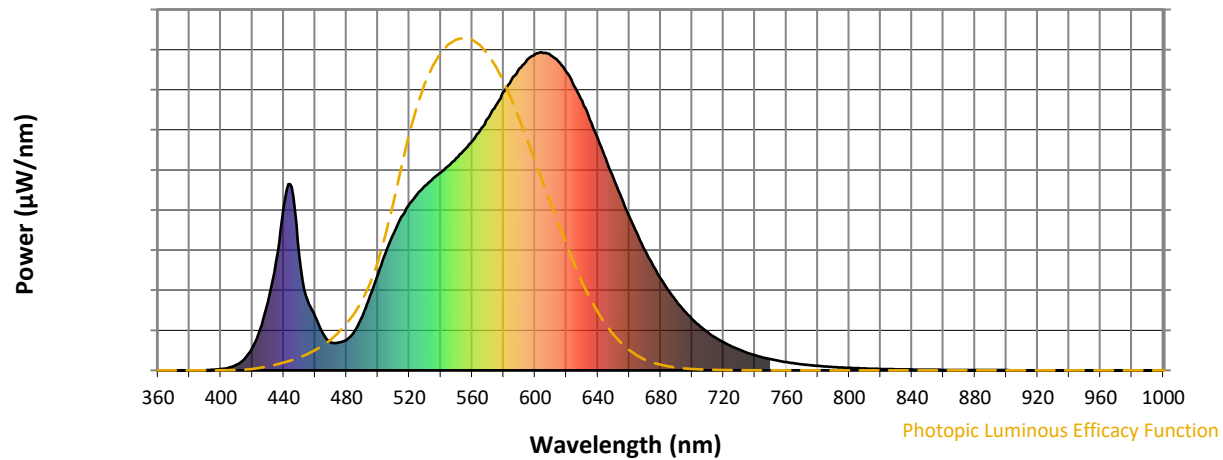
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

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: SP1-2407-184-9

Photopic Flux vs. Wavelength

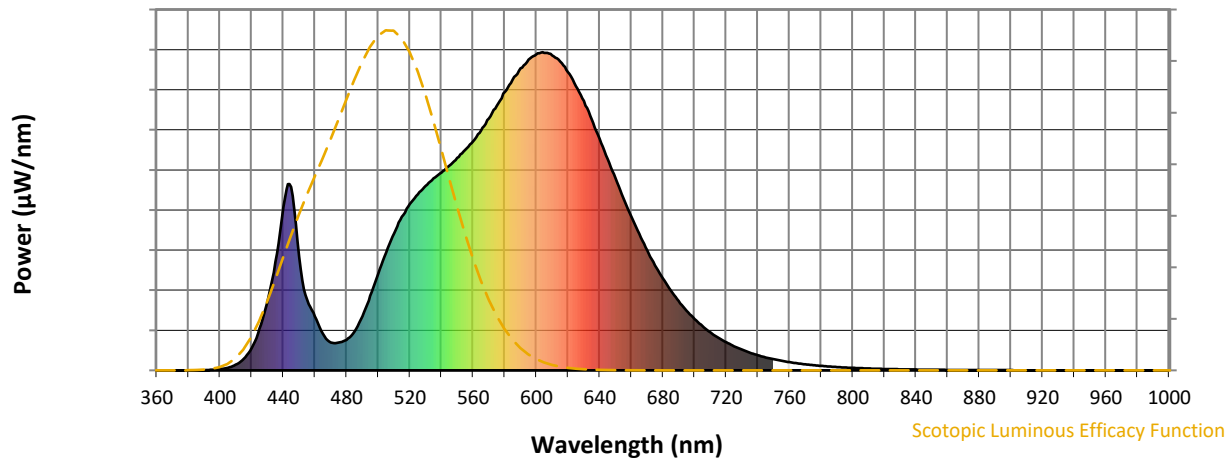


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



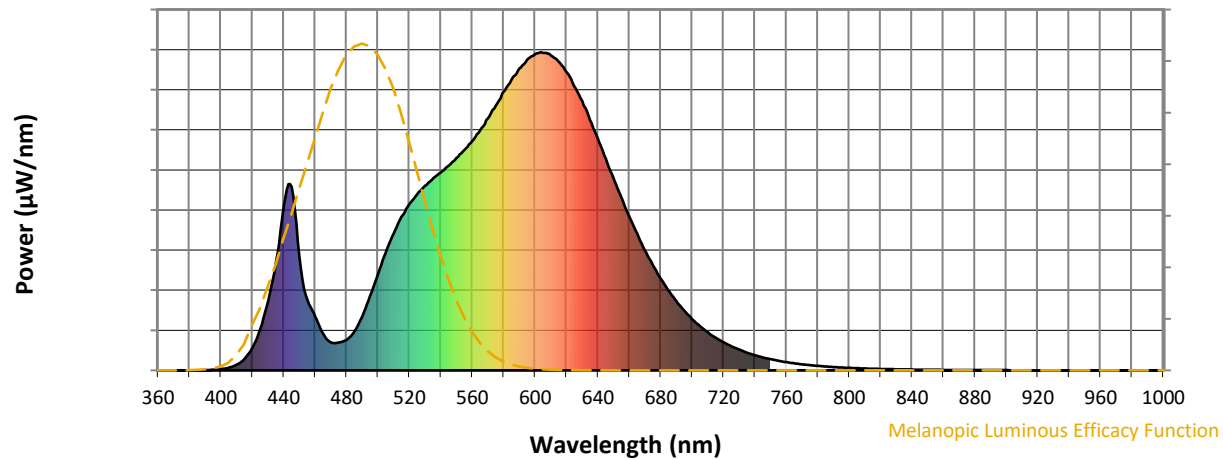
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.33

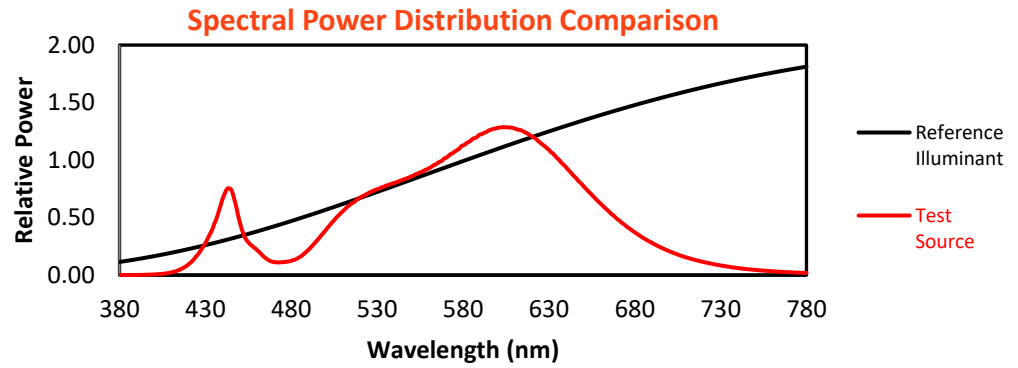
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

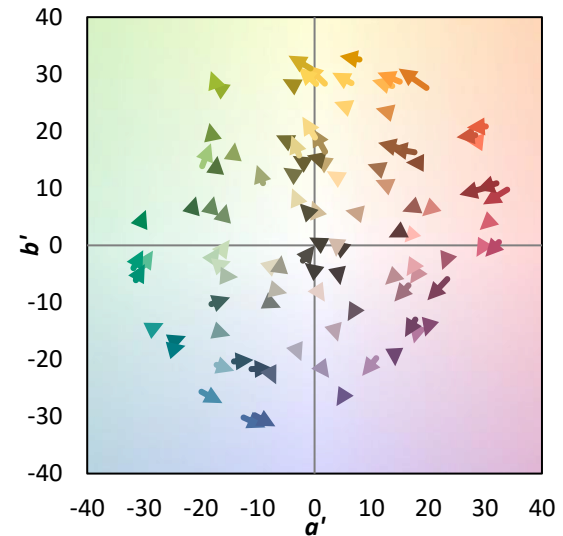
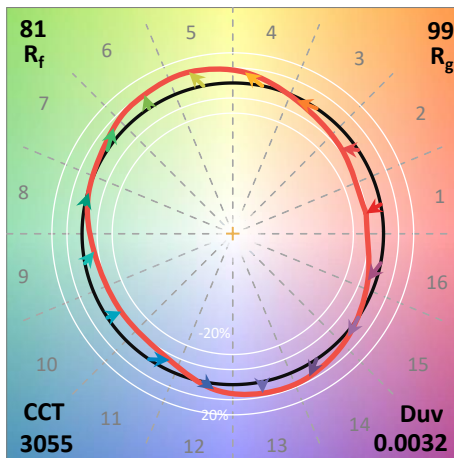
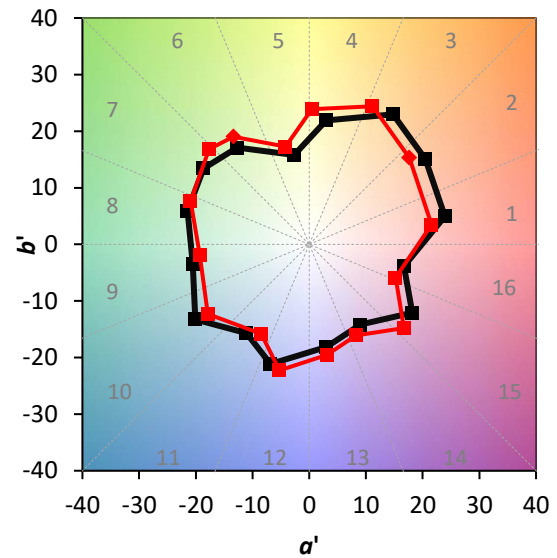
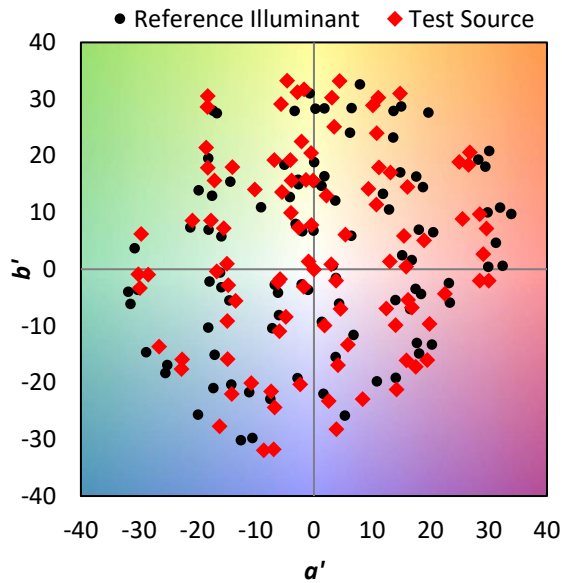
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

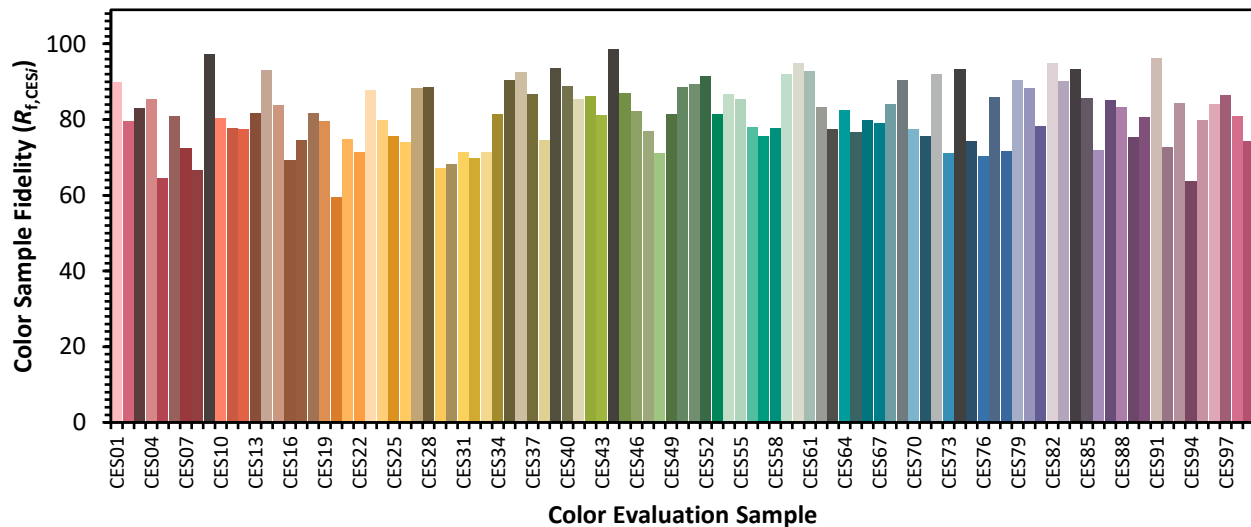


Color Vector Graphics

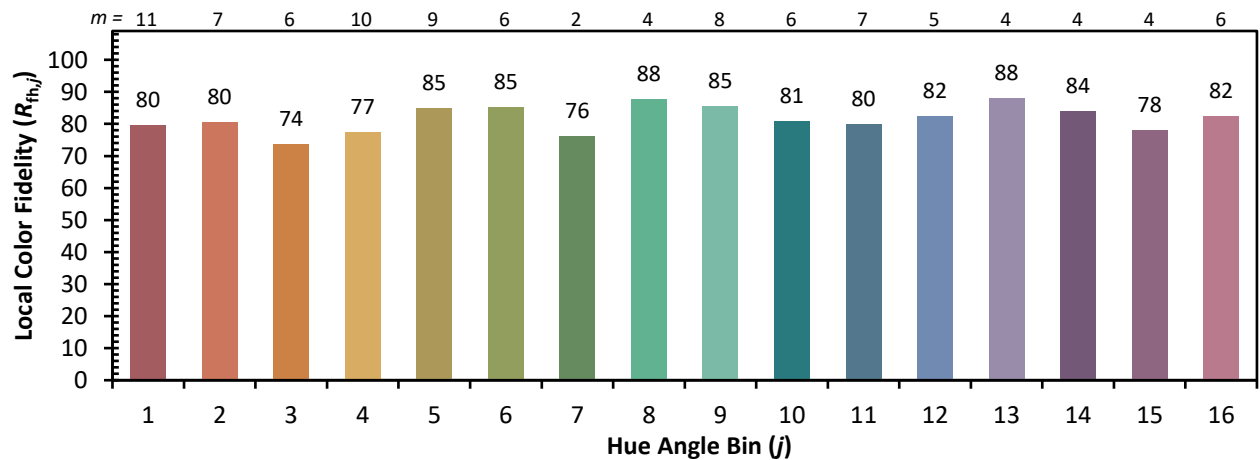
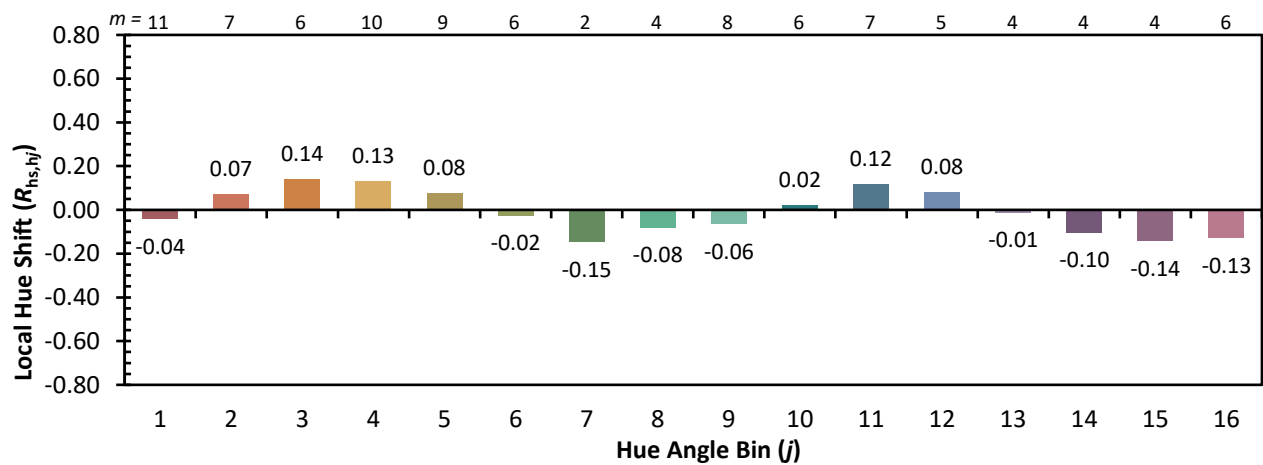
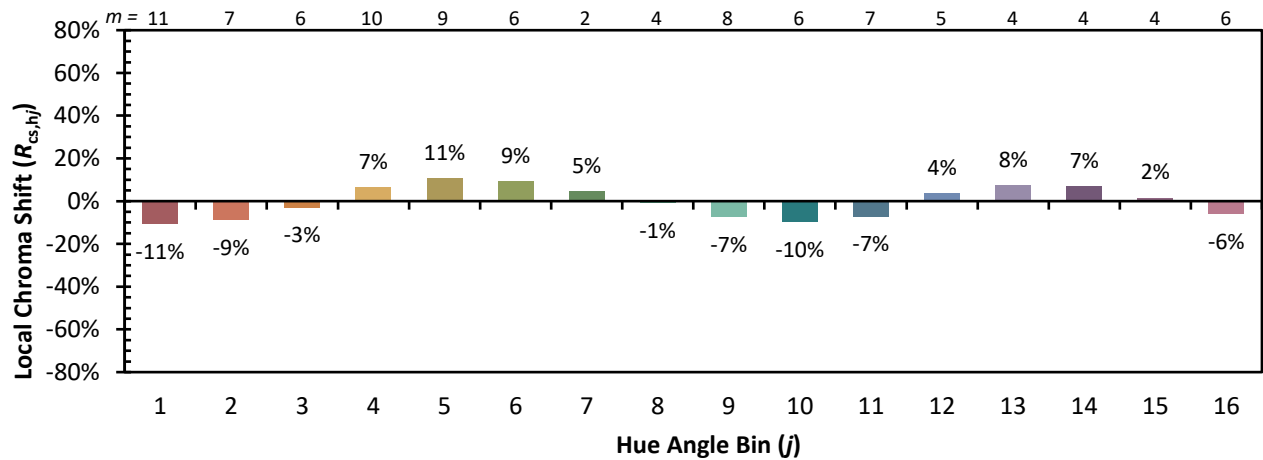


Individual Sample Fidelity Index ($R_{f,i}$)

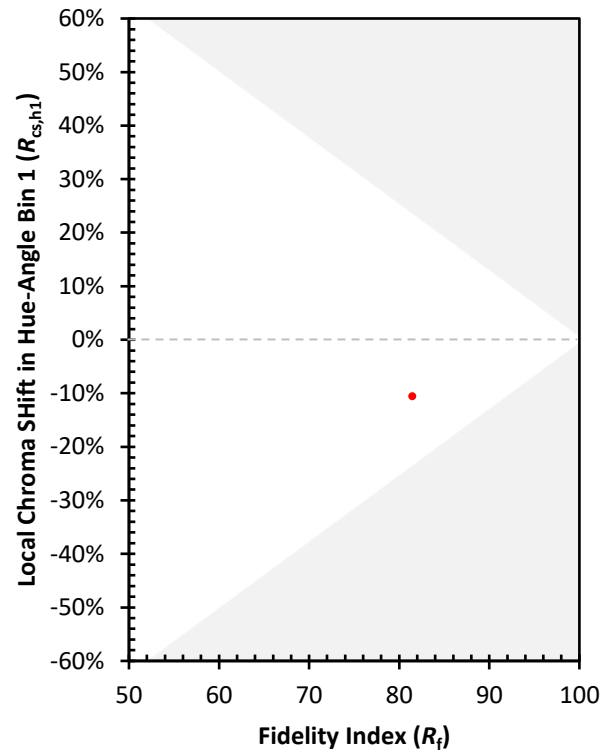
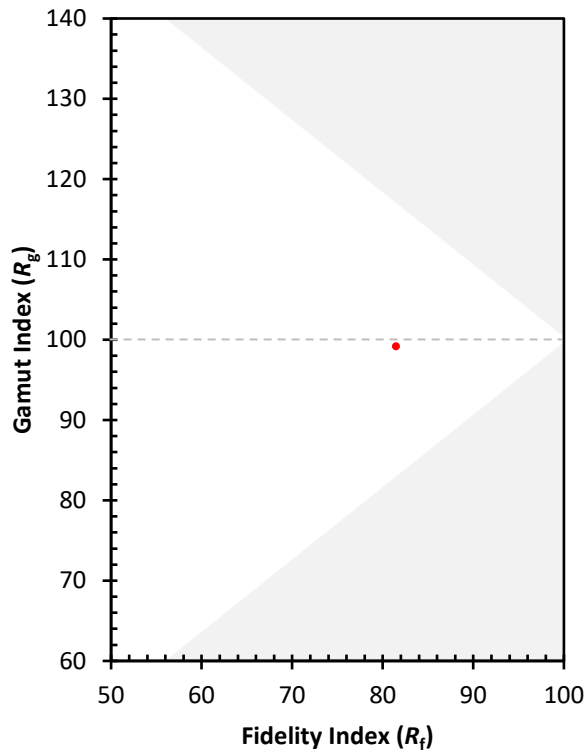
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)