

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P1049562

Luminaire Tested: **GALN-SA8B-727-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049562
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 8xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29617.4 lumens
Efficiency: N/A
Efficacy: 104.7 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): 282.8
Input Voltage (V): 120
Input Current (A_{in}): 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

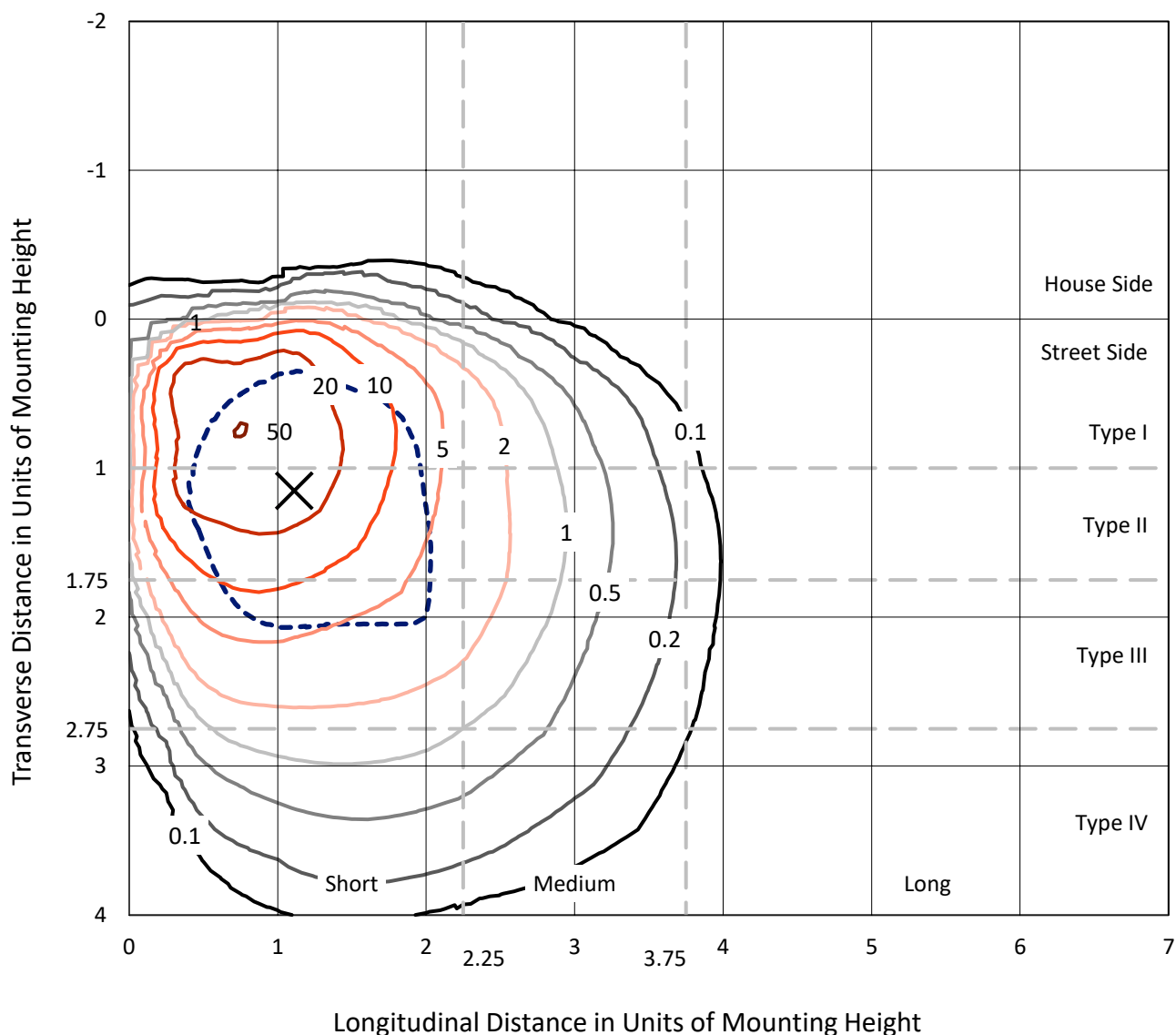
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

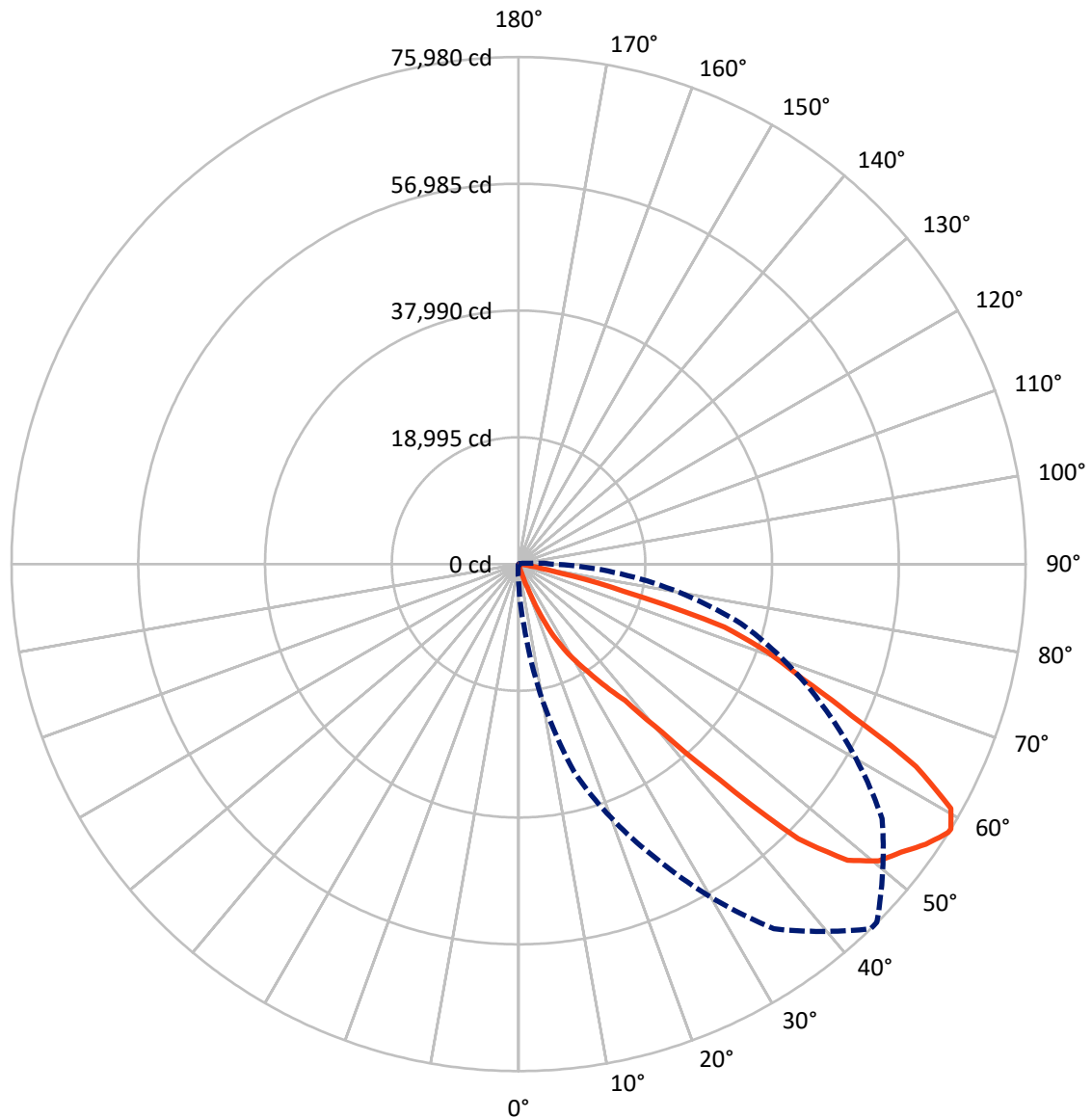


Based on 20 foot mounting height. Maximum calculated value = 51.6 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	202.2	0.0	202.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	29415.2	0.0	29415.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	29617.4	0.0	29617.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	0.0
10°-20°	65.0	0.2
20°-30°	701.6	2.4
30°-40°	2075.0	7.0
40°-50°	6184.6	20.9
50°-60°	9813.4	33.1
60°-70°	8185.6	27.6
70°-80°	2524.6	8.5
80°-90°	56.1	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°	29617.4	100.0
0°-180°	29617.4	100.0



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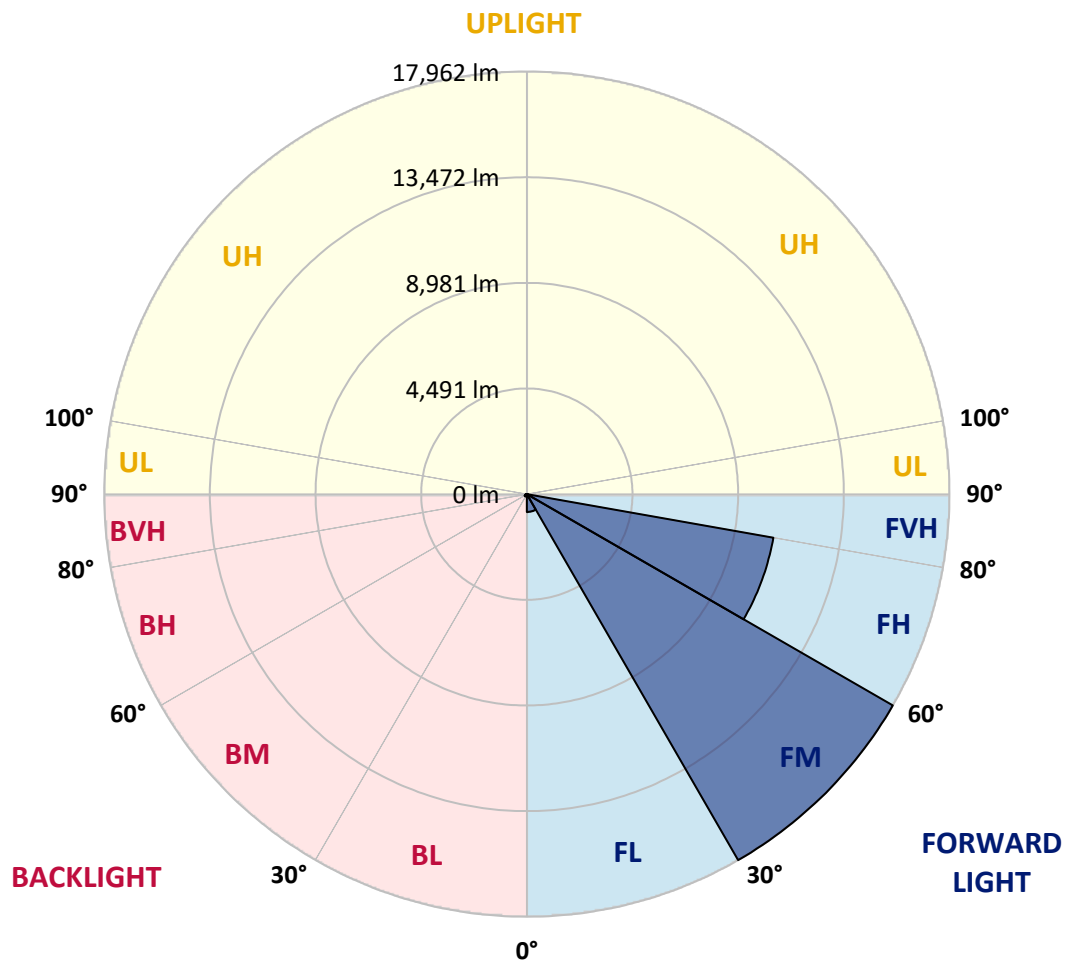
CATALOG NUMBER: GALN-SA8B-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	758.4	2.6			
FM	(30°-60°)	17962.3	60.6			
FH	(60°-80°)	10641.1	35.9			G4/12000
FVH	(80°-90°)	53.4	0.2			G1/100
BL	(0°-30°)	19.8	0.1	B0/110		
BM	(30°-60°)	110.7	0.4	B0/220		
BH	(60°-80°)	69.0	0.2	B0/110		G0/110
BVH	(80°-90°)	2.7	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8
2.5°	167.8	167.8	161.1	152.1	143.2	134.2	132.0	127.5	125.3	123.1	120.8
5°	174.5	174.5	172.3	165.6	156.6	149.9	149.9	143.2	138.7	134.2	129.8
7.5°	179.0	181.2	185.7	183.5	179.0	172.3	172.3	167.8	161.1	149.9	143.2
10°	185.7	192.4	201.4	205.8	208.1	208.1	205.8	203.6	192.4	176.8	158.9
12.5°	192.4	205.8	228.2	250.6	264.0	281.9	279.7	275.2	246.1	212.5	181.2
15°	205.8	226.0	273.0	337.8	438.5	501.2	525.8	503.4	407.2	286.4	210.3
17.5°	221.5	255.1	396.0	707.0	1158.9	1373.7	1503.5	1398.3	926.3	543.7	264.0
20°	237.2	311.0	736.1	1832.4	3007.0	3709.5	3904.2	3599.9	2311.2	1035.9	391.5
22.5°	264.0	436.3	1492.3	3787.8	6479.4	7533.1	7732.3	6759.0	4365.1	2044.9	588.4
25°	319.9	633.2	2572.9	6172.8	9669.8	11448.5	11365.7	10090.4	7081.2	3266.5	894.9
27.5°	400.5	921.8	3890.7	8770.4	12726.0	14294.4	14482.3	12905.0	9439.4	4803.6	1270.8
30°	516.8	1277.5	5304.7	10851.1	15175.9	16871.8	16903.1	15272.1	11549.2	6152.7	1731.7
32.5°	628.7	1613.1	6542.0	12862.5	17590.0	19449.2	19588.0	17581.1	13124.3	7557.8	2132.2
35°	713.7	1832.4	7794.9	14630.0	20024.2	22586.0	22577.0	20194.3	14990.2	8812.9	2687.1
37.5°	720.4	2051.6	8929.2	16437.8	23107.3	25975.6	26259.7	23633.1	17245.5	10365.6	3367.2
40°	704.8	2297.8	10365.6	19256.8	28662.6	33063.5	33314.1	30002.8	21769.4	13023.6	4429.9
42.5°	722.7	2725.1	12696.9	24463.1	37887.2	44207.7	44691.0	41209.7	30085.6	18446.9	6325.0
45°	816.6	3528.3	17581.1	33173.1	51036.1	58741.5	58580.4	53566.5	39762.1	26702.7	10074.8
47.5°	1127.6	5494.9	24821.1	41650.4	59439.5	66301.5	66440.2	60312.1	45409.2	33050.1	15124.5
50°	1733.9	8407.9	30904.4	46131.8	63052.9	69937.2	69807.4	62726.2	47554.8	36175.6	18218.7
52.5°	2255.2	10515.5	33956.2	47704.7	63516.0	71733.8	71724.8	63361.6	47888.1	36444.1	18605.8
55°	2385.0	10674.4	33980.8	47789.7	64554.1	74085.2	74380.5	64925.5	48319.9	35271.7	17149.2
57.5°	2333.6	9450.5	32562.3	48281.9	66402.2	75904.2	75919.8	66440.2	49416.2	34553.6	14737.4
58°	2288.8	9258.1	32275.9	48561.6	66719.9	75980.2	75942.2	66509.6	50308.9	34526.7	14359.3
60°	2038.2	8038.8	31159.5	49275.3	66247.8	74418.6	74062.8	64994.9	50176.9	34251.5	12455.3
62.5°	1601.9	6271.3	30061.0	48449.7	61186.9	66858.6	67006.2	57542.3	45742.5	32647.3	10211.2
65°	1275.3	4673.8	27769.9	42498.4	50385.0	54904.4	55454.8	46791.8	38180.3	27644.6	7528.7
67.5°	1015.8	3378.4	23295.2	33835.4	39869.5	45823.1	46223.5	39285.5	29579.9	21180.9	5349.5
70°	825.6	2284.3	16079.8	24745.0	32884.5	39578.6	39603.2	32636.2	22078.1	13878.3	3356.0
72.5°	731.6	1581.8	9334.2	18046.4	26664.7	32251.3	31600.3	26483.5	16968.0	8220.0	2000.2
75°	633.2	1049.3	4577.6	11032.3	16167.1	16276.7	16525.0	12285.3	8481.8	3908.6	1199.2
77.5°	521.3	745.0	1803.3	3013.7	4848.3	6206.4	6436.8	4877.4	2821.3	962.1	639.9
80°	358.0	353.5	485.5	924.0	1387.2	1738.4	1622.1	1255.2	738.3	369.2	228.2
82.5°	154.4	167.8	219.3	264.0	214.8	208.1	199.1	127.5	98.4	76.1	47.0
85°	49.2	44.7	47.0	47.0	38.0	29.1	29.1	13.4	0.0	0.0	0.0
87.5°	24.6	20.1	20.1	17.9	11.2	4.5	2.2	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°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8
2.5°	118.6	118.6	114.1	109.6	107.4	102.9	100.7	98.4	96.2	94.0	91.7
5°	125.3	123.1	116.3	109.6	102.9	96.2	91.7	87.3	82.8	80.5	78.3
7.5°	136.5	132.0	118.6	107.4	98.4	89.5	85.0	78.3	73.8	67.1	64.9
10°	149.9	141.0	123.1	109.6	96.2	85.0	78.3	71.6	64.9	55.9	53.7
12.5°	167.8	152.1	129.8	107.4	91.7	78.3	71.6	62.6	55.9	49.2	44.7
15°	183.5	163.3	132.0	107.4	87.3	71.6	62.6	53.7	47.0	38.0	33.6
17.5°	205.8	172.3	129.8	100.7	80.5	62.6	53.7	47.0	35.8	22.4	17.9
20°	243.9	179.0	125.3	94.0	69.4	51.5	40.3	31.3	15.7	4.5	0.0
22.5°	304.3	196.9	120.8	85.0	60.4	40.3	26.8	11.2	0.0	0.0	0.0
25°	420.6	228.2	120.8	80.5	53.7	29.1	8.9	0.0	0.0	0.0	0.0
27.5°	559.3	270.7	120.8	69.4	42.5	15.7	0.0	0.0	0.0	0.0	0.0
30°	700.3	317.7	120.8	60.4	33.6	2.2	0.0	0.0	0.0	0.0	0.0
32.5°	834.5	358.0	123.1	51.5	22.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	971.0	364.7	120.8	44.7	13.4	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1145.5	351.3	114.1	40.3	6.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	1409.5	358.0	107.4	38.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1897.3	387.1	98.4	38.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3279.9	519.1	89.5	40.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5425.6	933.0	87.3	40.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6924.6	1174.6	91.7	42.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6913.4	1308.8	96.2	44.7	8.9	0.0	0.0	0.0	0.0	0.0	0.0
55°	6146.0	1333.5	102.9	49.2	29.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5136.9	1217.1	118.6	60.4	53.7	0.0	0.0	0.0	0.0	0.0	0.0
58°	4958.0	1163.4	123.1	62.6	58.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	4063.0	948.6	156.6	78.3	78.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2805.6	827.8	179.0	100.7	80.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	1984.5	747.3	194.6	107.4	64.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1483.4	689.1	214.8	109.6	33.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	1136.6	646.6	264.0	116.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	926.3	597.4	319.9	120.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	767.4	539.2	308.8	132.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	510.1	418.4	281.9	132.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	179.0	165.6	219.3	116.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.8	22.4	31.3	40.3	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°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8
2.5°	91.7	91.7	89.5	91.7	91.7	96.2	107.4	123.1	141.0	147.7	154.4
5°	76.1	73.8	71.6	71.6	71.6	78.3	87.3	105.2	125.3	134.2	138.7
7.5°	62.6	60.4	58.2	55.9	55.9	60.4	71.6	91.7	111.9	120.8	127.5
10°	51.5	47.0	44.7	42.5	42.5	47.0	58.2	78.3	100.7	109.6	118.6
12.5°	42.5	35.8	31.3	29.1	26.8	33.6	44.7	62.6	87.3	98.4	107.4
15°	29.1	22.4	15.7	13.4	11.2	17.9	29.1	49.2	73.8	87.3	96.2
17.5°	15.7	6.7	2.2	0.0	0.0	4.5	13.4	35.8	60.4	71.6	82.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	44.7	55.9	67.1
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	26.8	38.0	49.2
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	20.1	29.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	13.4
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	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	17.9	24.6
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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CATALOG NUMBER: GALN-SA8B-727-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8	129.8
2.5°	158.9	156.6	152.1	147.7	147.7	147.7	154.4	161.1	167.8	167.8
5°	147.7	147.7	145.4	141.0	141.0	143.2	152.1	163.3	172.3	174.5
7.5°	136.5	141.0	136.5	134.2	136.5	138.7	147.7	161.1	174.5	179.0
10°	129.8	132.0	132.0	129.8	129.8	134.2	143.2	161.1	179.0	185.7
12.5°	120.8	125.3	123.1	123.1	123.1	127.5	138.7	158.9	183.5	192.4
15°	111.9	118.6	118.6	116.3	116.3	118.6	134.2	156.6	190.2	205.8
17.5°	102.9	109.6	111.9	107.4	107.4	111.9	127.5	156.6	194.6	221.5
20°	85.0	96.2	102.9	96.2	96.2	100.7	116.3	147.7	196.9	237.2
22.5°	67.1	78.3	87.3	85.0	85.0	87.3	107.4	141.0	199.1	264.0
25°	49.2	60.4	67.1	71.6	71.6	78.3	98.4	136.5	208.1	319.9
27.5°	29.1	42.5	51.5	55.9	58.2	67.1	91.7	132.0	223.7	400.5
30°	13.4	24.6	35.8	44.7	44.7	60.4	85.0	127.5	243.9	516.8
32.5°	0.0	11.2	17.9	31.3	33.6	49.2	78.3	123.1	273.0	628.7
35°	0.0	0.0	8.9	24.6	24.6	40.3	71.6	118.6	317.7	713.7
37.5°	0.0	0.0	0.0	17.9	20.1	35.8	69.4	116.3	326.7	720.4
40°	0.0	0.0	0.0	13.4	15.7	33.6	69.4	118.6	295.3	704.8
42.5°	0.0	0.0	0.0	8.9	11.2	33.6	69.4	123.1	266.2	722.7
45°	0.0	0.0	0.0	6.7	8.9	35.8	67.1	120.8	250.6	816.6
47.5°	0.0	0.0	0.0	8.9	13.4	35.8	64.9	118.6	252.8	1127.6
50°	0.0	0.0	0.0	11.2	15.7	35.8	67.1	114.1	277.4	1733.9
52.5°	0.0	0.0	0.0	8.9	13.4	40.3	73.8	111.9	302.0	2255.2
55°	0.0	0.0	0.0	2.2	6.7	51.5	80.5	111.9	340.1	2385.0
57.5°	0.0	0.0	0.0	0.0	0.0	58.2	91.7	118.6	402.7	2333.6
58°	0.0	0.0	0.0	0.0	0.0	58.2	94.0	118.6	407.2	2288.8
60°	0.0	0.0	0.0	0.0	0.0	58.2	102.9	132.0	438.5	2038.2
62.5°	0.0	0.0	0.0	0.0	0.0	49.2	123.1	165.6	456.4	1601.9
65°	0.0	0.0	0.0	0.0	0.0	40.3	145.4	181.2	469.8	1275.3
67.5°	0.0	0.0	0.0	0.0	0.0	38.0	149.9	183.5	476.6	1015.8
70°	0.0	0.0	0.0	0.0	0.0	40.3	147.7	196.9	498.9	825.6
72.5°	0.0	0.0	0.0	0.0	0.0	44.7	134.2	217.0	498.9	731.6
75°	0.0	0.0	0.0	0.0	0.0	47.0	125.3	243.9	454.2	633.2
77.5°	0.0	0.0	0.0	0.0	0.0	44.7	123.1	284.1	405.0	521.3
80°	4.5	6.7	6.7	4.5	4.5	38.0	120.8	288.6	344.6	358.0
82.5°	13.4	17.9	15.7	11.2	11.2	33.6	107.4	241.6	179.0	154.4
85°	24.6	29.1	29.1	24.6	24.6	31.3	67.1	87.3	60.4	49.2
87.5°	33.6	38.0	38.0	33.6	33.6	31.3	29.1	26.8	24.6	24.6
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

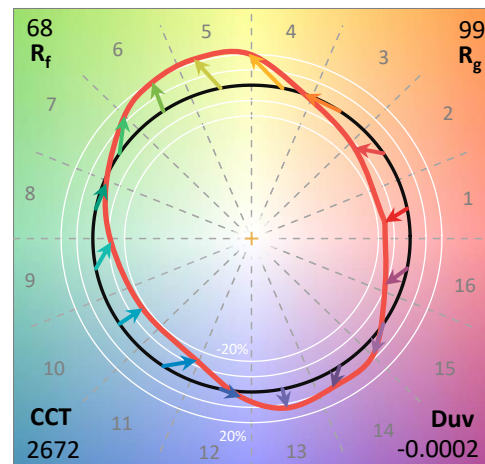
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

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

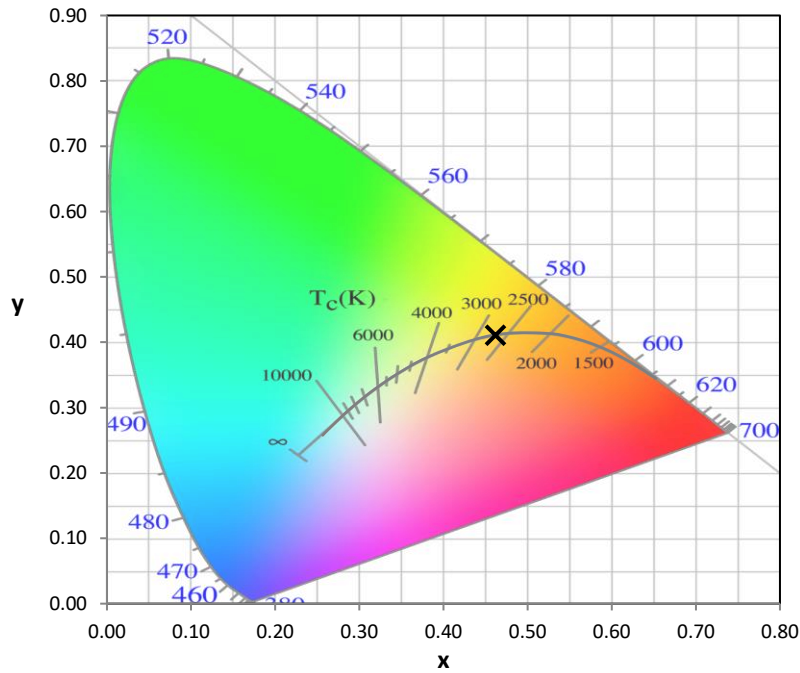
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

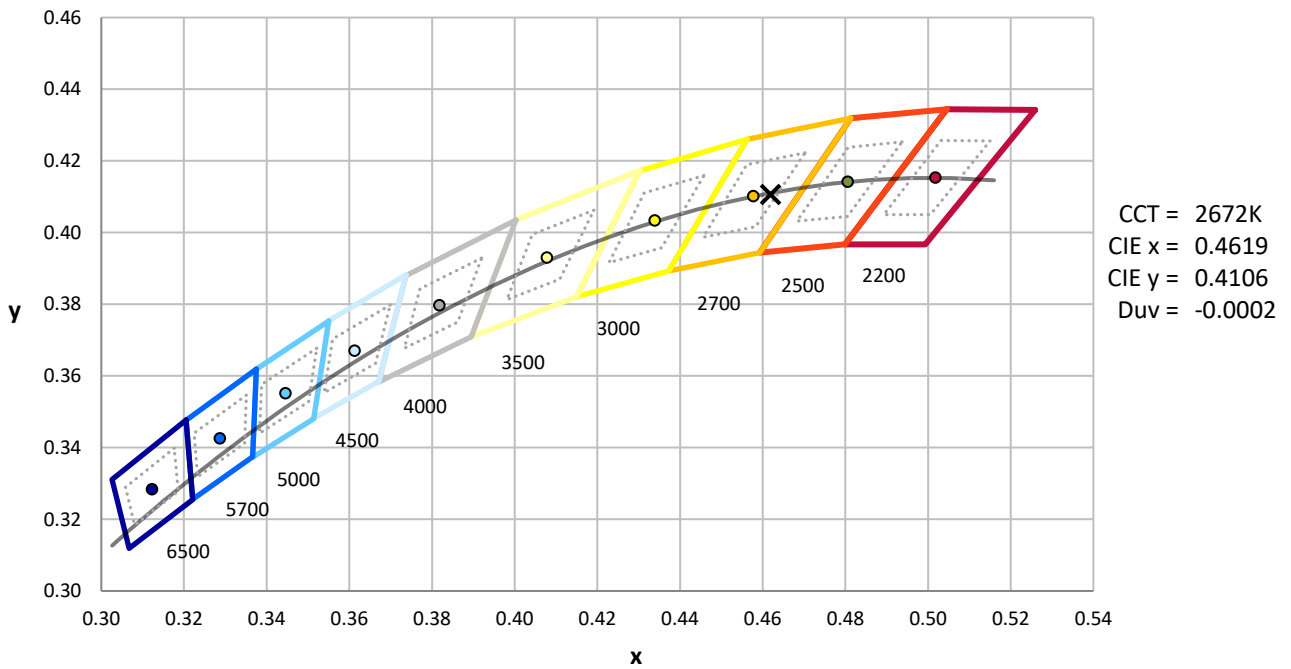
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



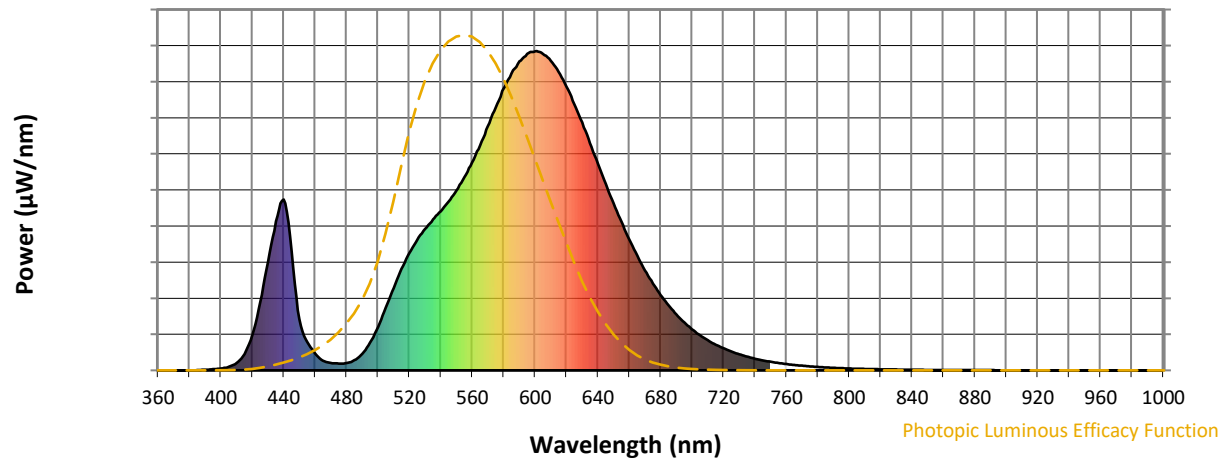
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

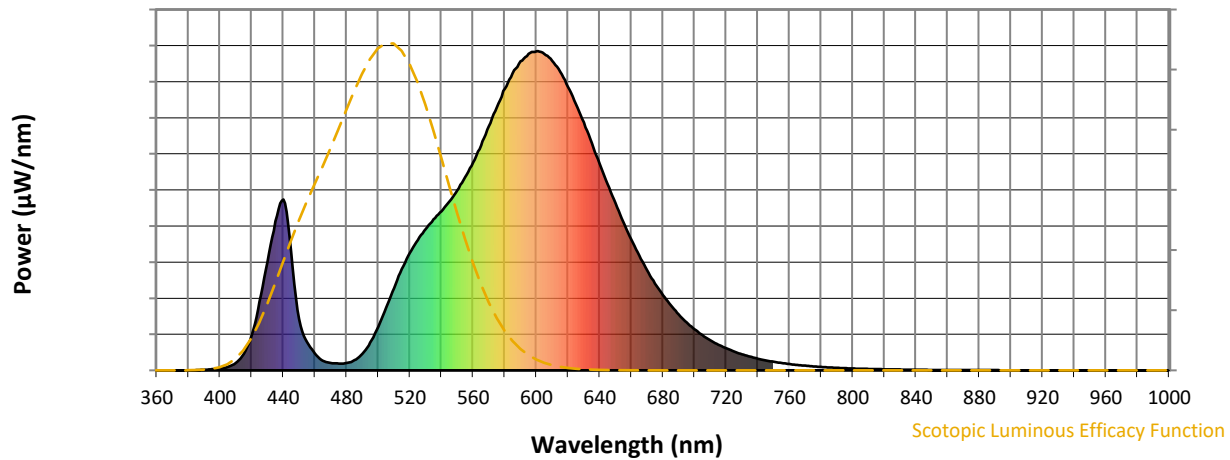


Photopic Lumens: NR

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	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



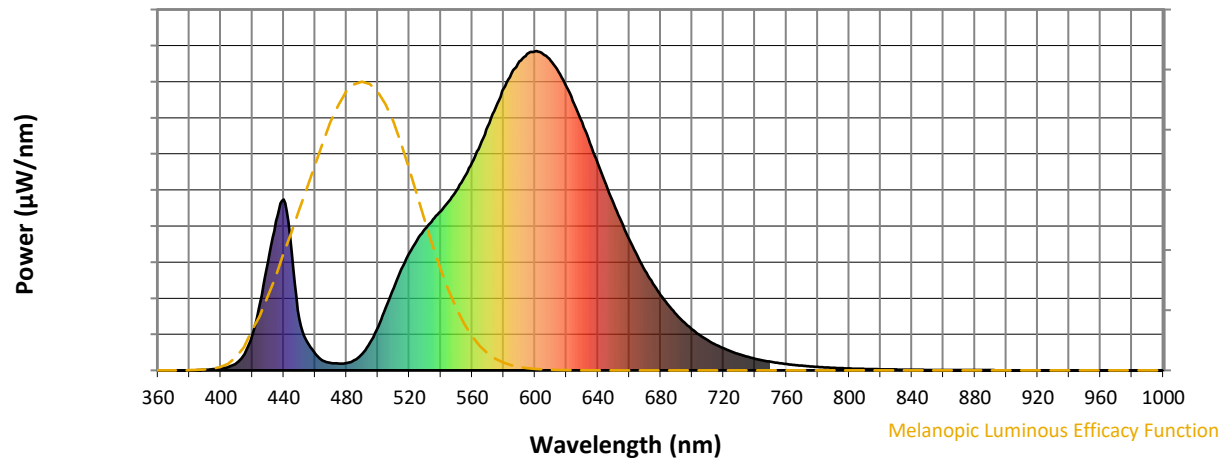
Scotopic Lumens: NR

S/P: 1.02

λ (nm)	Power 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	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			

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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			

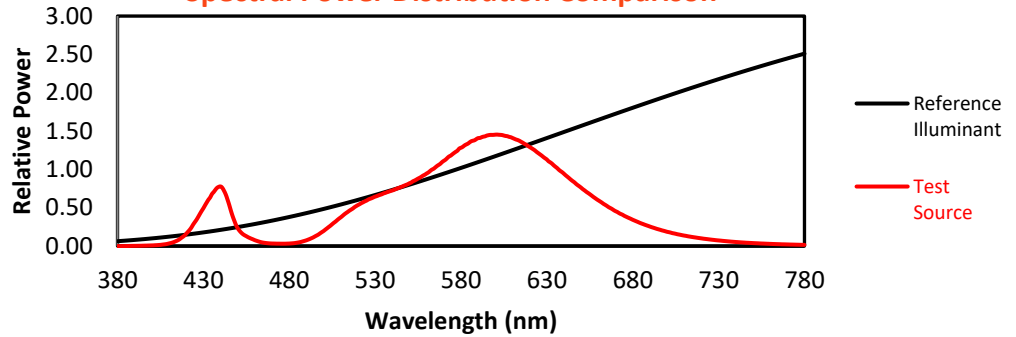
REPORT NUMBER: SP1-2407-184-3

TM-30-18

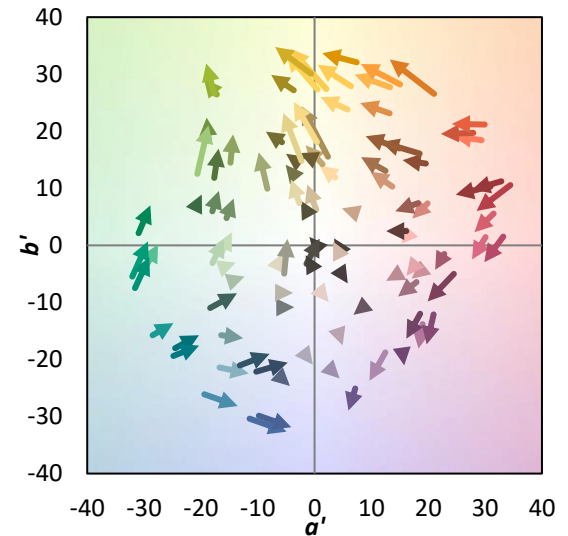
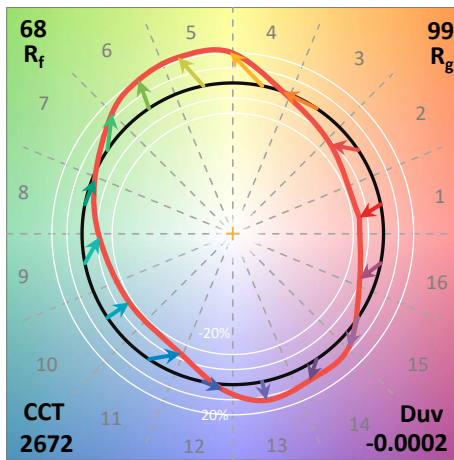
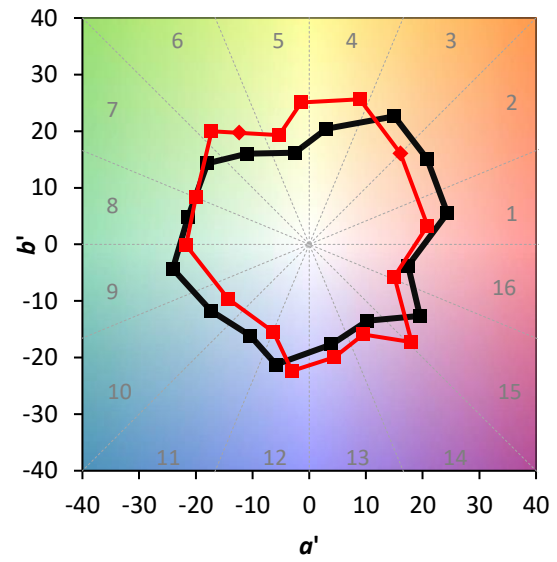
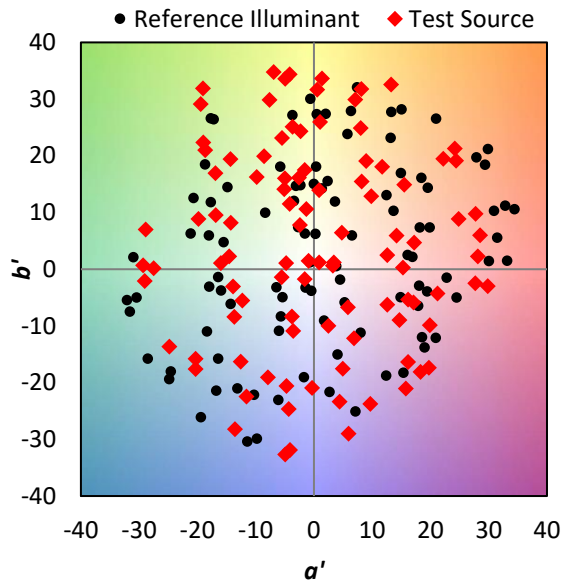
Summary

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

Spectral Power Distribution Comparison

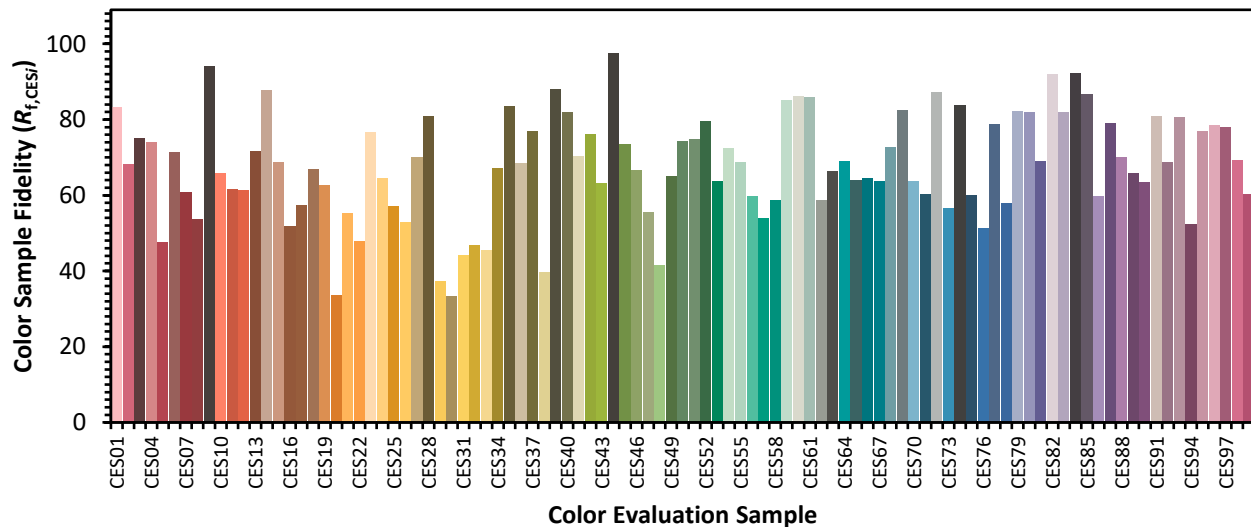


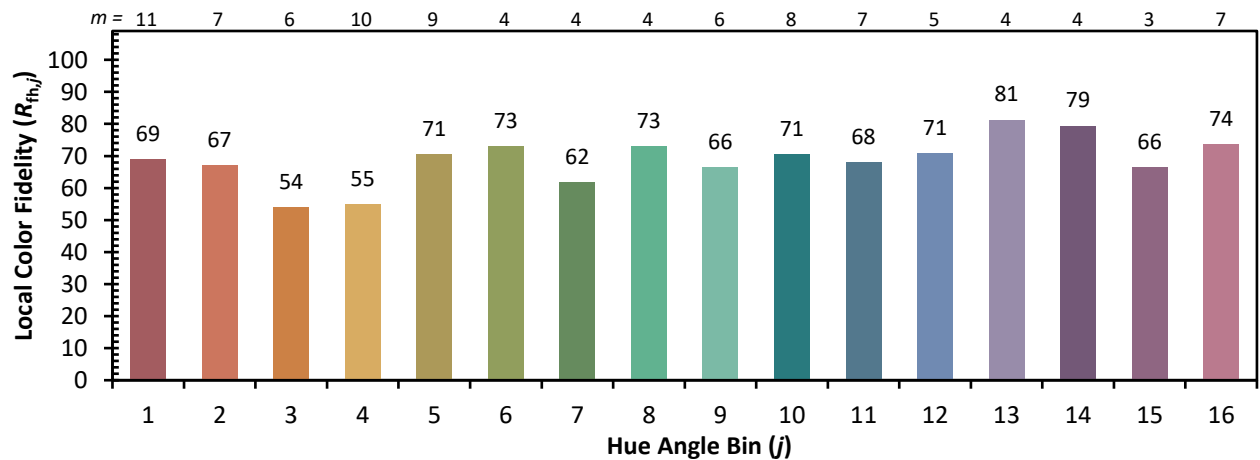
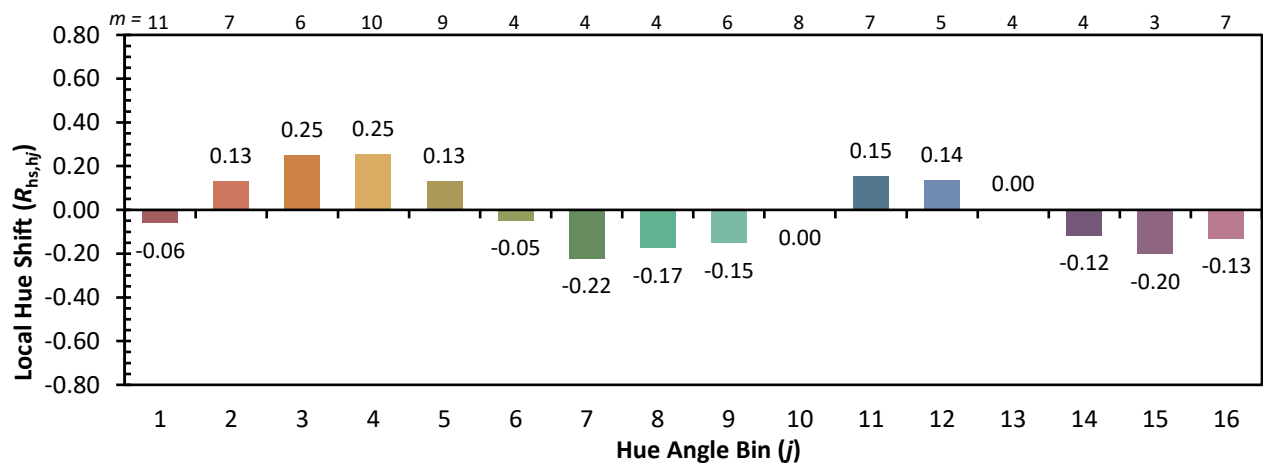
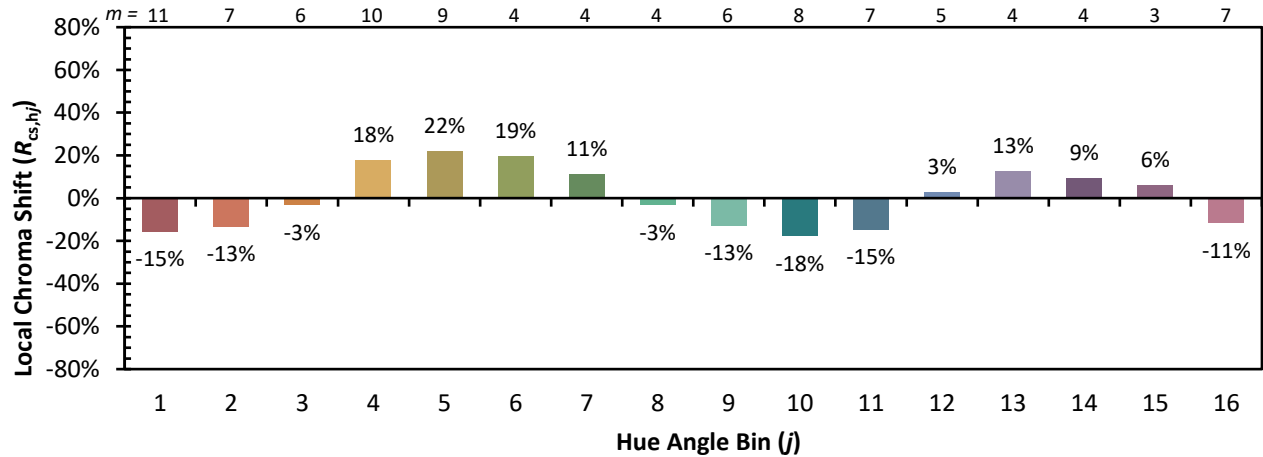
Color Vector Graphics



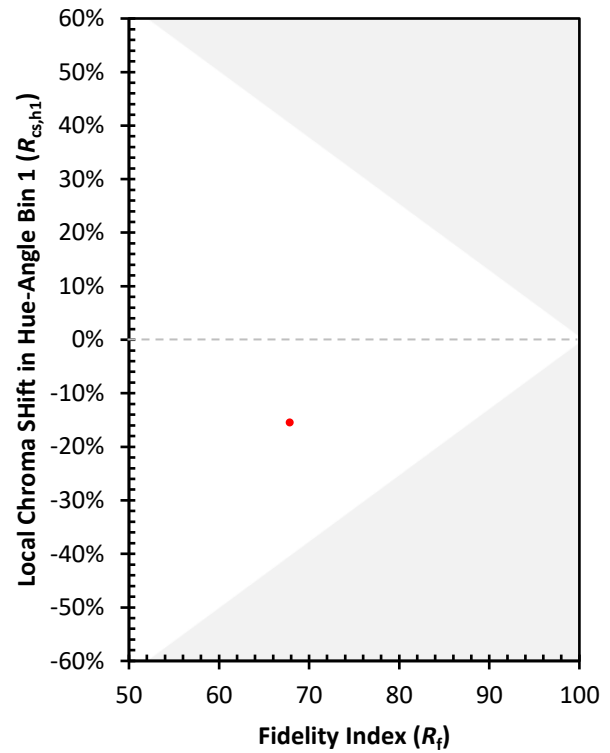
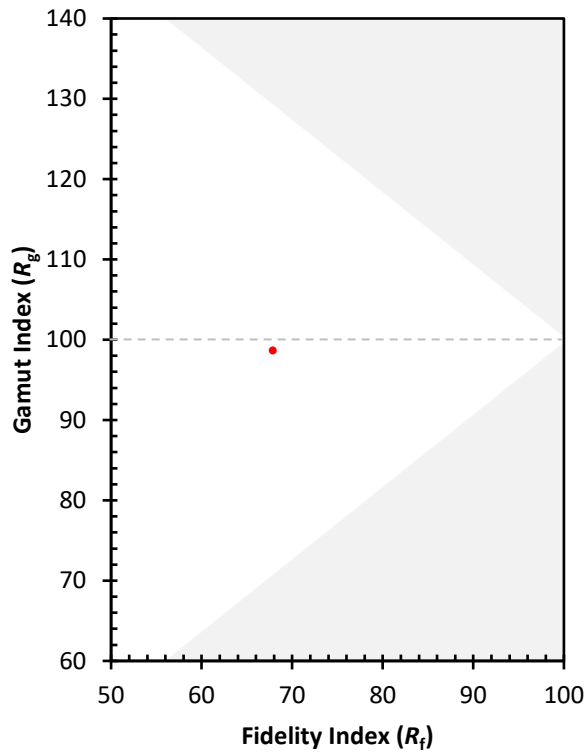
Individual Sample Fidelity Index ($R_{f,i}$)

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)