

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: P1049505

Luminaire Tested: **GALN-SA3A-722-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049505
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7322.1 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

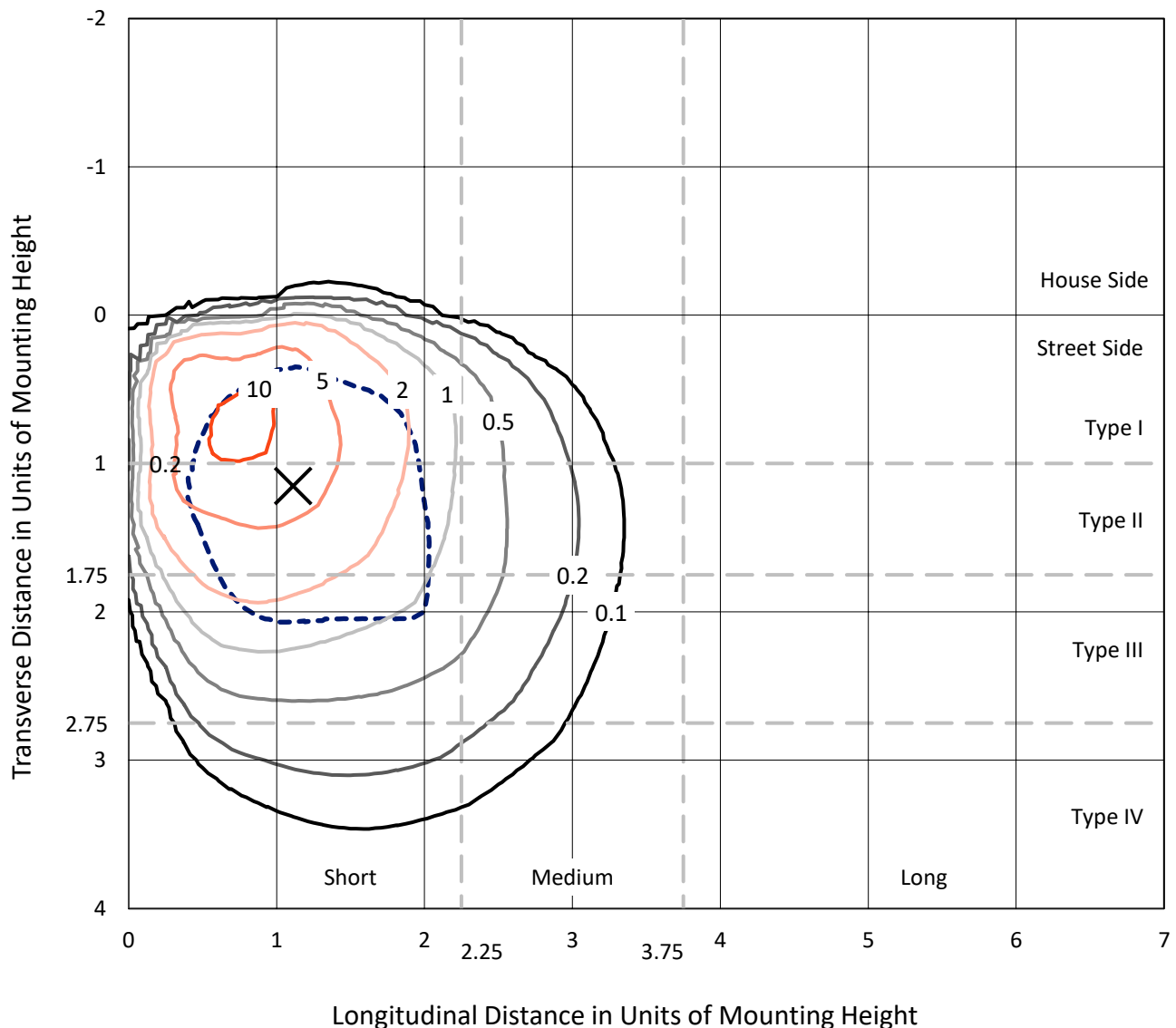
Input Watts (W): 81.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

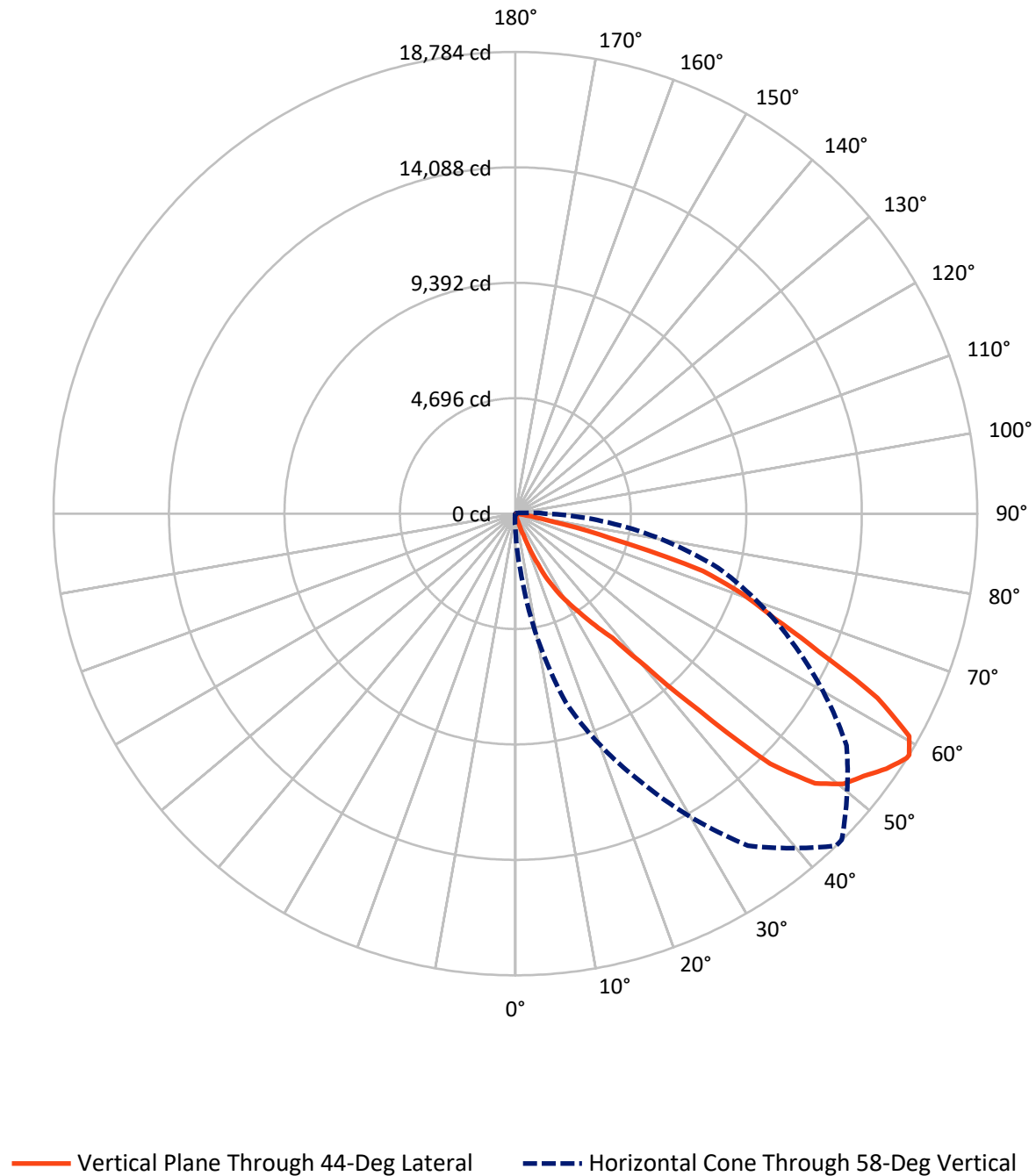
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.7 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	50.0	0.0	50.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	7272.1	0.0	7272.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	7322.1	0.0	7322.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.0
10°-20°	16.1	0.2
20°-30°	173.5	2.4
30°-40°	513.0	7.0
40°-50°	1529.0	20.9
50°-60°	2426.1	33.1
60°-70°	2023.7	27.6
70°-80°	624.1	8.5
80°-90°	13.9	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°	7322.1	100.0
0°-180°	7322.1	100.0



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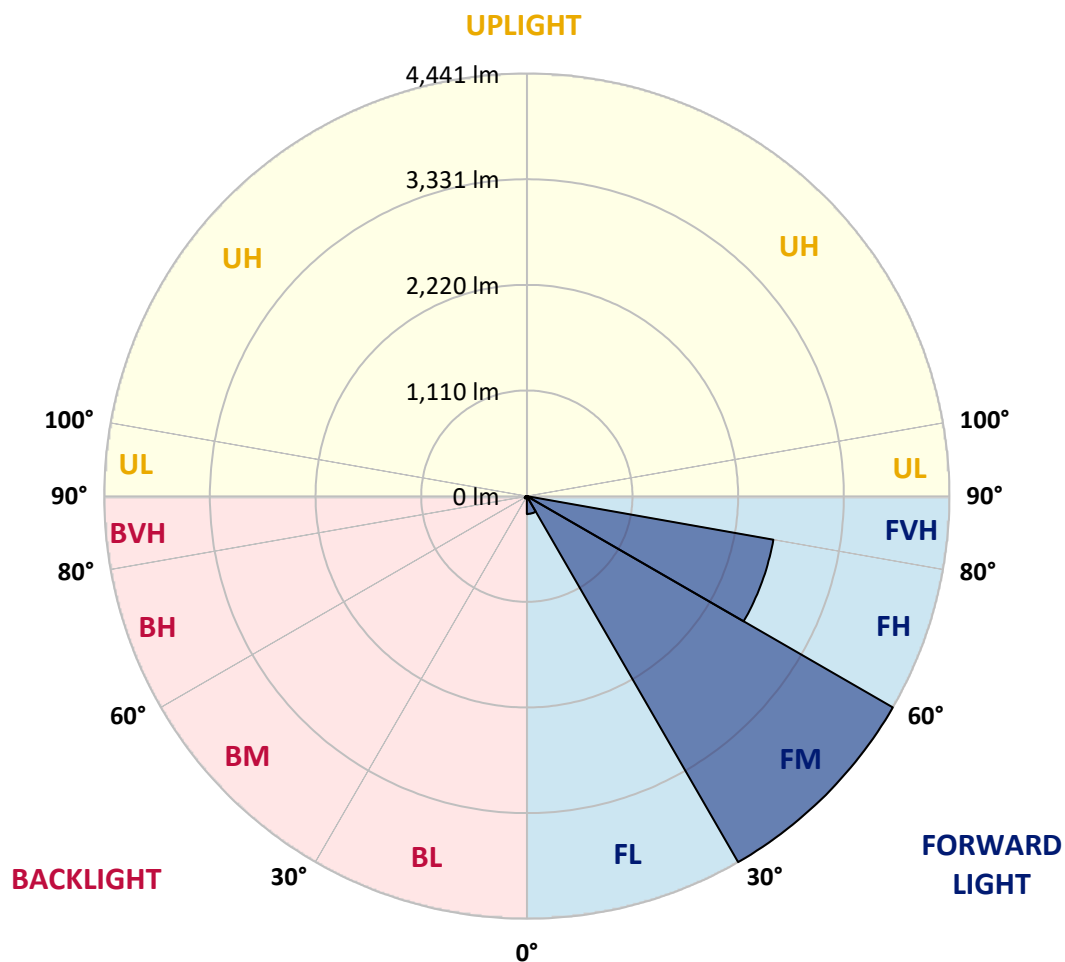
CATALOG NUMBER: GALN-SA3A-722-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	187.5	2.6			
FM	(30°-60°)	4440.7	60.6			
FH	(60°-80°)	2630.7	35.9			G2/5000
FVH	(80°-90°)	13.2	0.2			G1/100
BL	(0°-30°)	4.9	0.1	B0/110		
BM	(30°-60°)	27.4	0.4	B0/220		
BH	(60°-80°)	17.1	0.2	B0/110		G0/110
BVH	(80°-90°)	0.7	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
2.5°	41.5	41.5	39.8	37.6	35.4	33.2	32.6	31.5	31.0	30.4	29.9
5°	43.1	43.1	42.6	40.9	38.7	37.1	37.1	35.4	34.3	33.2	32.1
7.5°	44.2	44.8	45.9	45.4	44.2	42.6	42.6	41.5	39.8	37.1	35.4
10°	45.9	47.6	49.8	50.9	51.4	51.4	50.9	50.3	47.6	43.7	39.3
12.5°	47.6	50.9	56.4	61.9	65.3	69.7	69.1	68.0	60.8	52.5	44.8
15°	50.9	55.9	67.5	83.5	108.4	123.9	130.0	124.5	100.7	70.8	52.0
17.5°	54.8	63.1	97.9	174.8	286.5	339.6	371.7	345.7	229.0	134.4	65.3
20°	58.6	76.9	182.0	453.0	743.4	917.1	965.2	890.0	571.4	256.1	96.8
22.5°	65.3	107.9	368.9	936.4	1601.8	1862.4	1911.6	1671.0	1079.1	505.6	145.5
25°	79.1	156.5	636.1	1526.1	2390.6	2830.3	2809.9	2494.6	1750.6	807.6	221.2
27.5°	99.0	227.9	961.9	2168.2	3146.1	3533.9	3580.3	3190.4	2333.6	1187.5	314.2
30°	127.8	315.8	1311.4	2682.6	3751.8	4171.1	4178.8	3775.6	2855.2	1521.1	428.1
32.5°	155.4	398.8	1617.3	3179.9	4348.6	4808.3	4842.6	4346.4	3244.6	1868.4	527.1
35°	176.4	453.0	1927.1	3616.9	4950.4	5583.7	5581.5	4992.5	3705.9	2178.7	664.3
37.5°	178.1	507.2	2207.5	4063.8	5712.6	6421.7	6492.0	5842.6	4263.4	2562.6	832.4
40°	174.2	568.1	2562.6	4760.7	7086.0	8174.0	8236.0	7417.3	5381.9	3219.7	1095.2
42.5°	178.7	673.7	3139.0	6047.8	9366.5	10929.1	11048.6	10187.9	7437.8	4560.5	1563.7
45°	201.9	872.3	4346.4	8201.1	12617.2	14522.2	14482.3	13242.8	9830.1	6601.5	2490.7
47.5°	278.8	1358.5	6136.3	10296.9	14694.7	16391.2	16425.5	14910.5	11226.1	8170.7	3739.1
50°	428.7	2078.6	7640.2	11404.8	15588.0	17290.0	17257.9	15507.3	11756.6	8943.4	4504.1
52.5°	557.5	2599.7	8394.7	11793.6	15702.5	17734.1	17731.9	15664.4	11839.0	9009.8	4599.7
55°	589.6	2638.9	8400.8	11814.6	15959.2	18315.5	18388.5	16051.0	11945.7	8719.9	4239.7
57.5°	576.9	2336.4	8050.1	11936.3	16416.1	18765.2	18769.0	16425.5	12216.8	8542.4	3643.4
58°	565.8	2288.8	7979.3	12005.5	16494.6	18784.0	18774.6	16442.6	12437.5	8535.7	3549.9
60°	503.9	1987.4	7703.3	12181.9	16377.9	18397.9	18309.9	16068.1	12404.8	8467.7	3079.2
62.5°	396.0	1550.4	7431.7	11977.8	15126.7	16528.9	16565.4	14225.7	11308.5	8071.1	2524.4
65°	315.3	1155.5	6865.3	10506.5	12456.3	13573.6	13709.6	11568.0	9439.0	6834.4	1861.2
67.5°	251.1	835.2	5759.1	8364.8	9856.6	11328.5	11427.5	9712.2	7312.8	5236.4	1322.5
70°	204.1	564.7	3975.3	6117.5	8129.8	9784.7	9790.8	8068.4	5458.2	3431.0	829.7
72.5°	180.9	391.1	2307.6	4461.5	6592.1	7973.2	7812.3	6547.3	4194.9	2032.2	494.5
75°	156.5	259.4	1131.7	2727.4	3996.8	4023.9	4085.3	3037.2	2096.9	966.3	296.5
77.5°	128.9	184.2	445.8	745.1	1198.6	1534.4	1591.3	1205.8	697.5	237.8	158.2
80°	88.5	87.4	120.0	228.4	342.9	429.8	401.0	310.3	182.5	91.3	56.4
82.5°	38.2	41.5	54.2	65.3	53.1	51.4	49.2	31.5	24.3	18.8	11.6
85°	12.2	11.1	11.6	11.6	9.4	7.2	7.2	3.3	0.0	0.0	0.0
87.5°	6.1	5.0	5.0	4.4	2.8	1.1	0.6	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°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
2.5°	29.3	29.3	28.2	27.1	26.5	25.4	24.9	24.3	23.8	23.2	22.7
5°	31.0	30.4	28.8	27.1	25.4	23.8	22.7	21.6	20.5	19.9	19.4
7.5°	33.7	32.6	29.3	26.5	24.3	22.1	21.0	19.4	18.3	16.6	16.0
10°	37.1	34.8	30.4	27.1	23.8	21.0	19.4	17.7	16.0	13.8	13.3
12.5°	41.5	37.6	32.1	26.5	22.7	19.4	17.7	15.5	13.8	12.2	11.1
15°	45.4	40.4	32.6	26.5	21.6	17.7	15.5	13.3	11.6	9.4	8.3
17.5°	50.9	42.6	32.1	24.9	19.9	15.5	13.3	11.6	8.8	5.5	4.4
20°	60.3	44.2	31.0	23.2	17.1	12.7	10.0	7.7	3.9	1.1	0.0
22.5°	75.2	48.7	29.9	21.0	14.9	10.0	6.6	2.8	0.0	0.0	0.0
25°	104.0	56.4	29.9	19.9	13.3	7.2	2.2	0.0	0.0	0.0	0.0
27.5°	138.3	66.9	29.9	17.1	10.5	3.9	0.0	0.0	0.0	0.0	0.0
30°	173.1	78.5	29.9	14.9	8.3	0.6	0.0	0.0	0.0	0.0	0.0
32.5°	206.3	88.5	30.4	12.7	5.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	240.1	90.2	29.9	11.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	283.2	86.8	28.2	10.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	348.5	88.5	26.5	9.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	469.0	95.7	24.3	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	810.9	128.3	22.1	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1341.3	230.7	21.6	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	1711.9	290.4	22.7	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	1709.1	323.6	23.8	11.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0
55°	1519.4	329.7	25.4	12.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1270.0	300.9	29.3	14.9	13.3	0.0	0.0	0.0	0.0	0.0	0.0
58°	1225.7	287.6	30.4	15.5	14.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	1004.5	234.5	38.7	19.4	19.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	693.6	204.7	44.2	24.9	19.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	490.6	184.7	48.1	26.5	16.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	366.7	170.4	53.1	27.1	8.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	281.0	159.9	65.3	28.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	229.0	147.7	79.1	29.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	189.7	133.3	76.3	32.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	126.1	103.4	69.7	32.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	44.2	40.9	54.2	28.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.6	5.5	7.7	10.0	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	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°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
2.5°	22.7	22.7	22.1	22.7	22.7	23.8	26.5	30.4	34.8	36.5	38.2
5°	18.8	18.3	17.7	17.7	17.7	19.4	21.6	26.0	31.0	33.2	34.3
7.5°	15.5	14.9	14.4	13.8	13.8	14.9	17.7	22.7	27.7	29.9	31.5
10°	12.7	11.6	11.1	10.5	10.5	11.6	14.4	19.4	24.9	27.1	29.3
12.5°	10.5	8.8	7.7	7.2	6.6	8.3	11.1	15.5	21.6	24.3	26.5
15°	7.2	5.5	3.9	3.3	2.8	4.4	7.2	12.2	18.3	21.6	23.8
17.5°	3.9	1.7	0.6	0.0	0.0	1.1	3.3	8.8	14.9	17.7	20.5
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	11.1	13.8	16.6
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	6.6	9.4	12.2
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.0	7.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.3
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	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4	6.1
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°	316°	325°	335°	345°	355°	360°
0°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
2.5°	39.3	38.7	37.6	36.5	36.5	36.5	38.2	39.8	41.5	41.5
5°	36.5	36.5	36.0	34.8	34.8	35.4	37.6	40.4	42.6	43.1
7.5°	33.7	34.8	33.7	33.2	33.7	34.3	36.5	39.8	43.1	44.2
10°	32.1	32.6	32.6	32.1	32.1	33.2	35.4	39.8	44.2	45.9
12.5°	29.9	31.0	30.4	30.4	30.4	31.5	34.3	39.3	45.4	47.6
15°	27.7	29.3	29.3	28.8	28.8	29.3	33.2	38.7	47.0	50.9
17.5°	25.4	27.1	27.7	26.5	26.5	27.7	31.5	38.7	48.1	54.8
20°	21.0	23.8	25.4	23.8	23.8	24.9	28.8	36.5	48.7	58.6
22.5°	16.6	19.4	21.6	21.0	21.0	21.6	26.5	34.8	49.2	65.3
25°	12.2	14.9	16.6	17.7	17.7	19.4	24.3	33.7	51.4	79.1
27.5°	7.2	10.5	12.7	13.8	14.4	16.6	22.7	32.6	55.3	99.0
30°	3.3	6.1	8.8	11.1	11.1	14.9	21.0	31.5	60.3	127.8
32.5°	0.0	2.8	4.4	7.7	8.3	12.2	19.4	30.4	67.5	155.4
35°	0.0	0.0	2.2	6.1	6.1	10.0	17.7	29.3	78.5	176.4
37.5°	0.0	0.0	0.0	4.4	5.0	8.8	17.1	28.8	80.8	178.1
40°	0.0	0.0	0.0	3.3	3.9	8.3	17.1	29.3	73.0	174.2
42.5°	0.0	0.0	0.0	2.2	2.8	8.3	17.1	30.4	65.8	178.7
45°	0.0	0.0	0.0	1.7	2.2	8.8	16.6	29.9	61.9	201.9
47.5°	0.0	0.0	0.0	2.2	3.3	8.8	16.0	29.3	62.5	278.8
50°	0.0	0.0	0.0	2.8	3.9	8.8	16.6	28.2	68.6	428.7
52.5°	0.0	0.0	0.0	2.2	3.3	10.0	18.3	27.7	74.7	557.5
55°	0.0	0.0	0.0	0.6	1.7	12.7	19.9	27.7	84.1	589.6
57.5°	0.0	0.0	0.0	0.0	0.0	14.4	22.7	29.3	99.6	576.9
58°	0.0	0.0	0.0	0.0	0.0	14.4	23.2	29.3	100.7	565.8
60°	0.0	0.0	0.0	0.0	0.0	14.4	25.4	32.6	108.4	503.9
62.5°	0.0	0.0	0.0	0.0	0.0	12.2	30.4	40.9	112.8	396.0
65°	0.0	0.0	0.0	0.0	0.0	10.0	36.0	44.8	116.2	315.3
67.5°	0.0	0.0	0.0	0.0	0.0	9.4	37.1	45.4	117.8	251.1
70°	0.0	0.0	0.0	0.0	0.0	10.0	36.5	48.7	123.3	204.1
72.5°	0.0	0.0	0.0	0.0	0.0	11.1	33.2	53.7	123.3	180.9
75°	0.0	0.0	0.0	0.0	0.0	11.6	31.0	60.3	112.3	156.5
77.5°	0.0	0.0	0.0	0.0	0.0	11.1	30.4	70.2	100.1	128.9
80°	1.1	1.7	1.7	1.1	1.1	9.4	29.9	71.4	85.2	88.5
82.5°	3.3	4.4	3.9	2.8	2.8	8.3	26.5	59.7	44.2	38.2
85°	6.1	7.2	7.2	6.1	6.1	7.7	16.6	21.6	14.9	12.2
87.5°	8.3	9.4	9.4	8.3	8.3	7.7	7.2	6.6	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

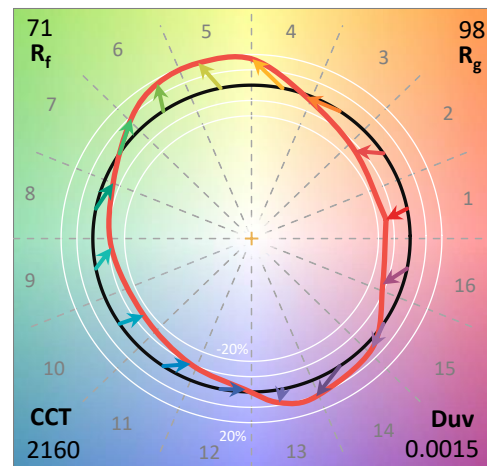
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 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-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

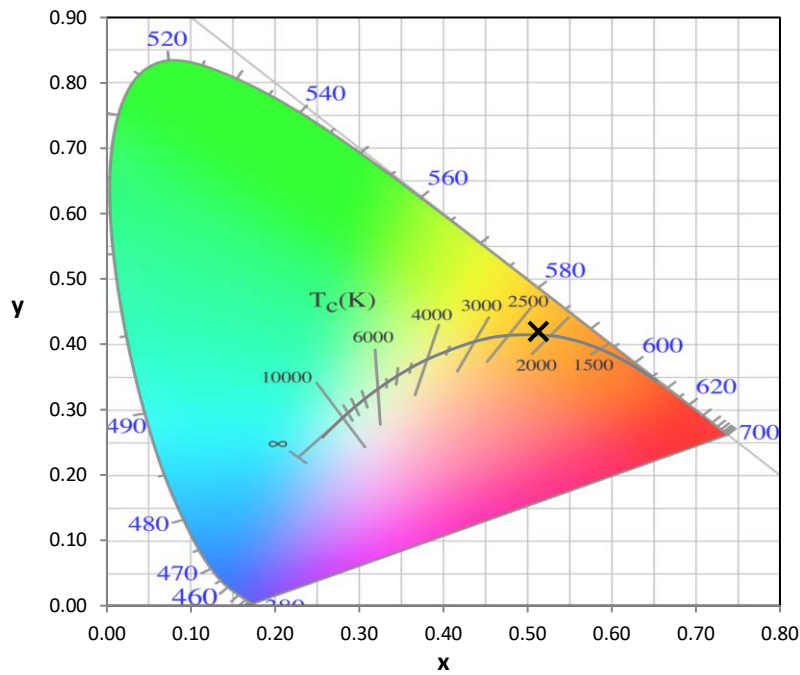
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

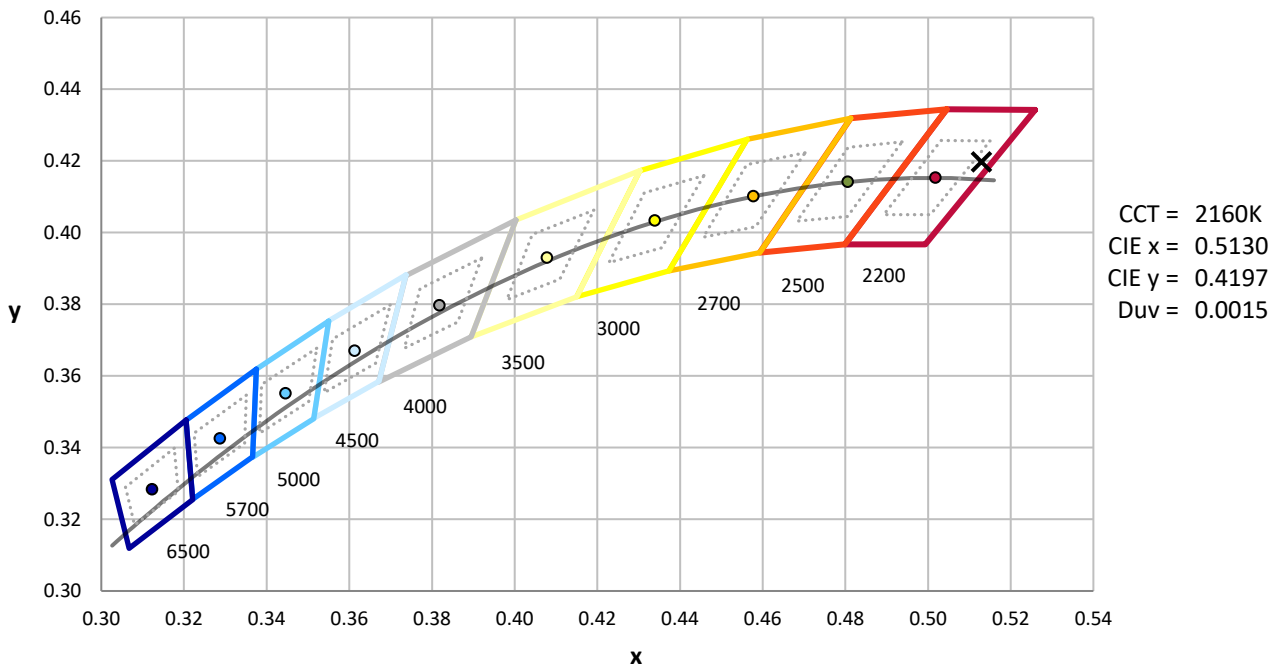
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



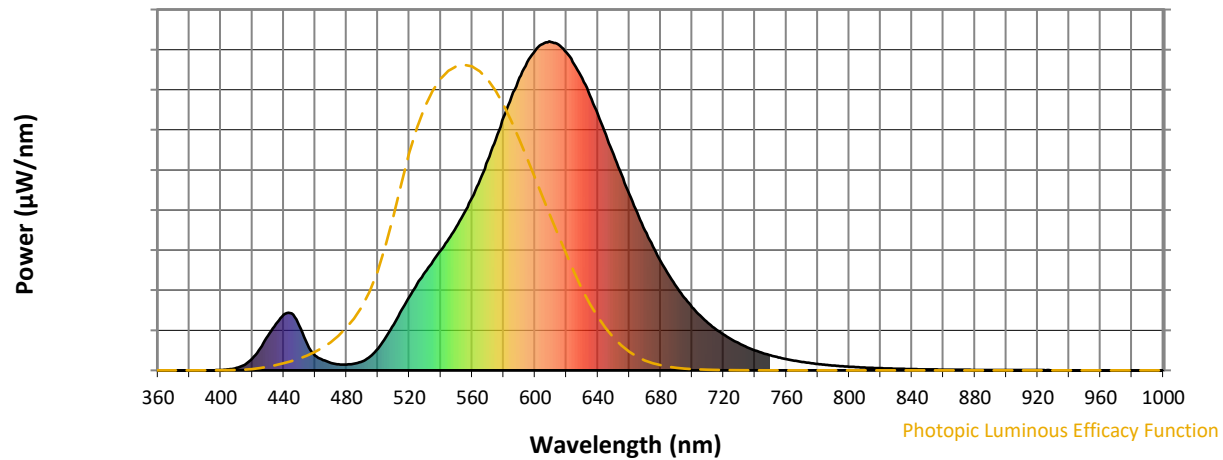
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

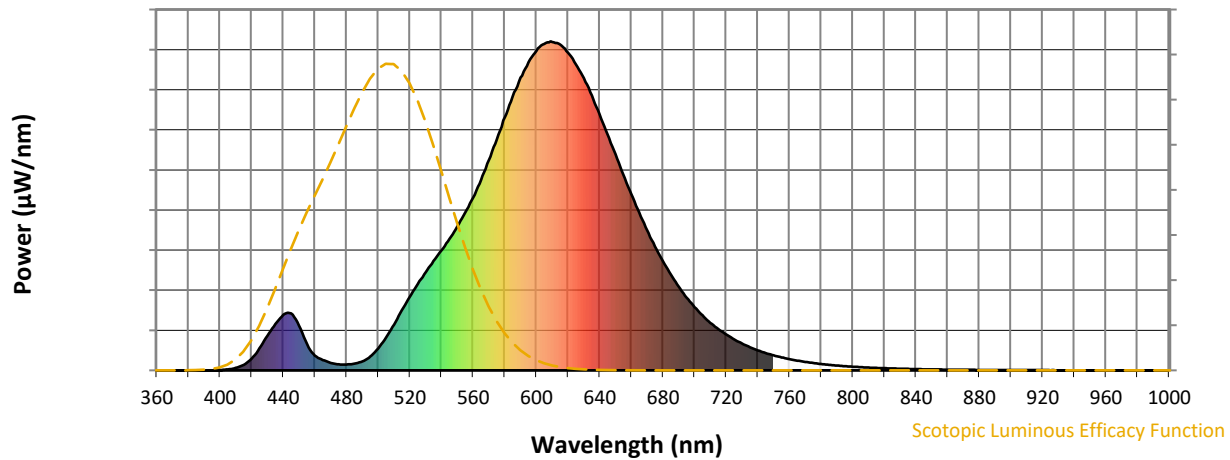


Photopic Lumens: NR

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength



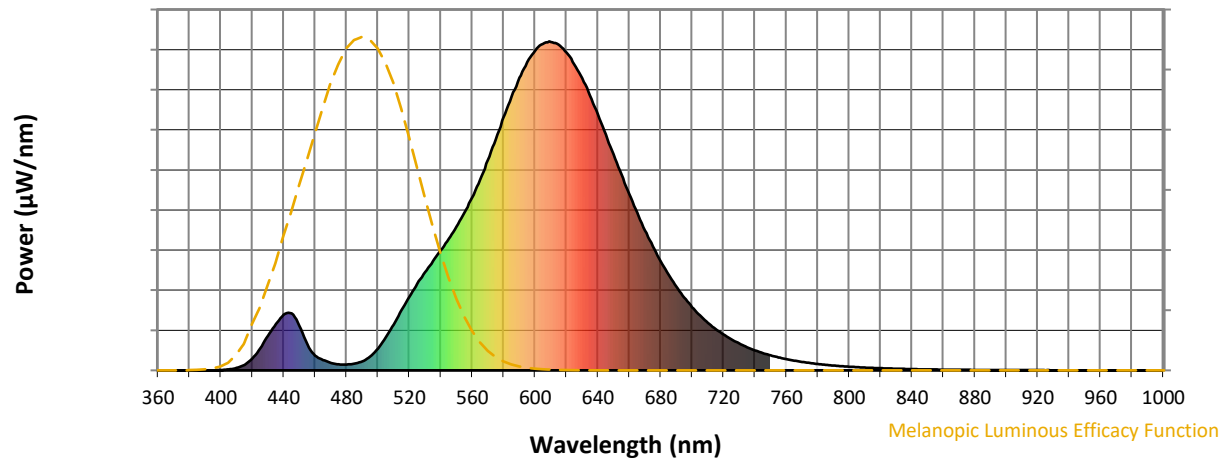
Scotopic Lumens: NR

S/P: 0.8

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

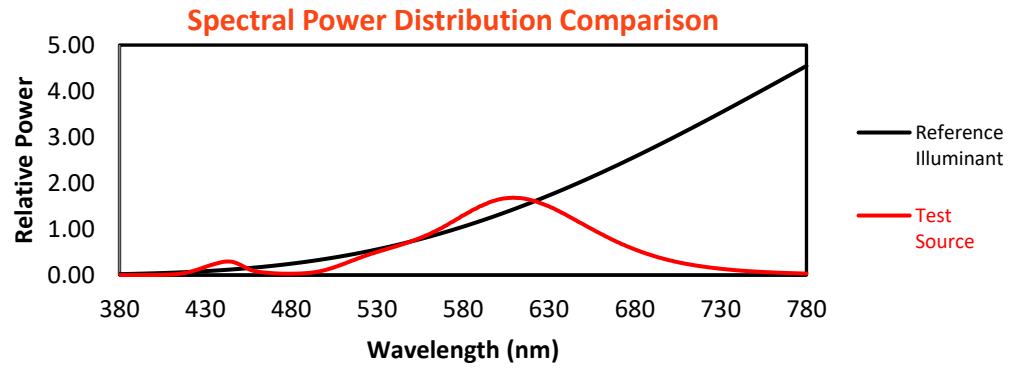
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

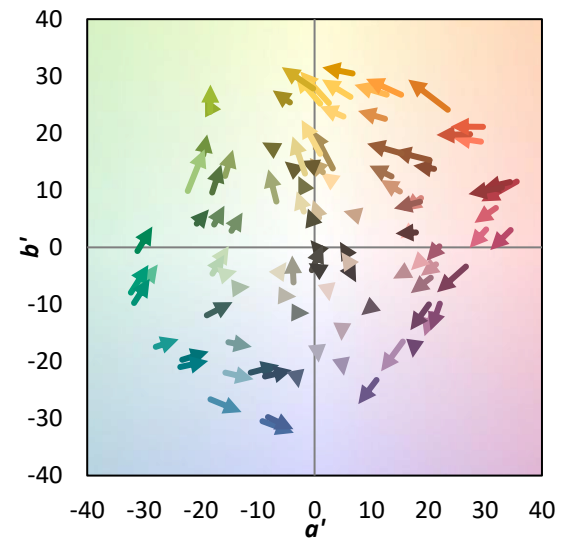
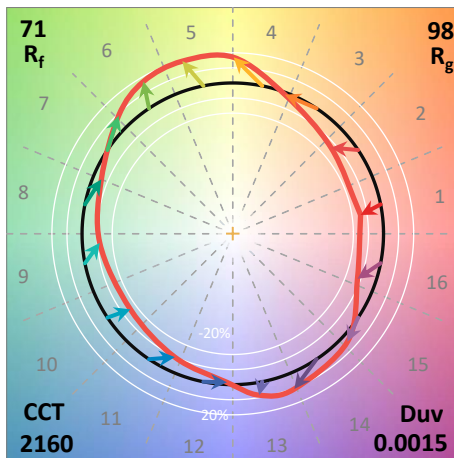
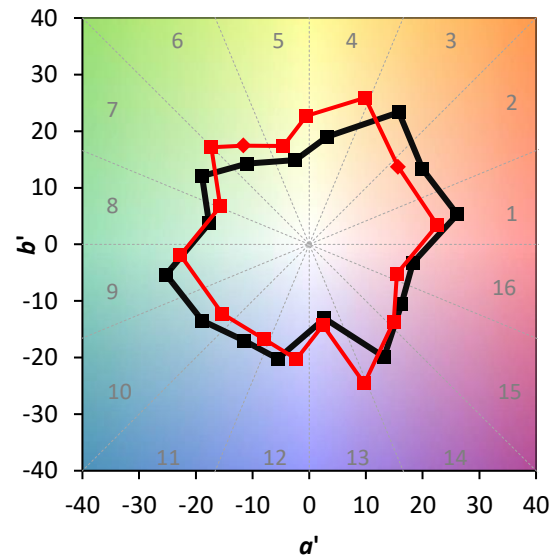
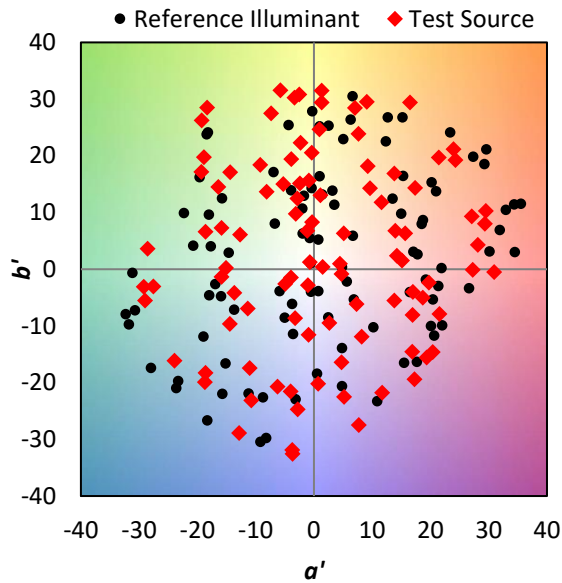
TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE R_a = 71.9$
 $R_g = -17.8$

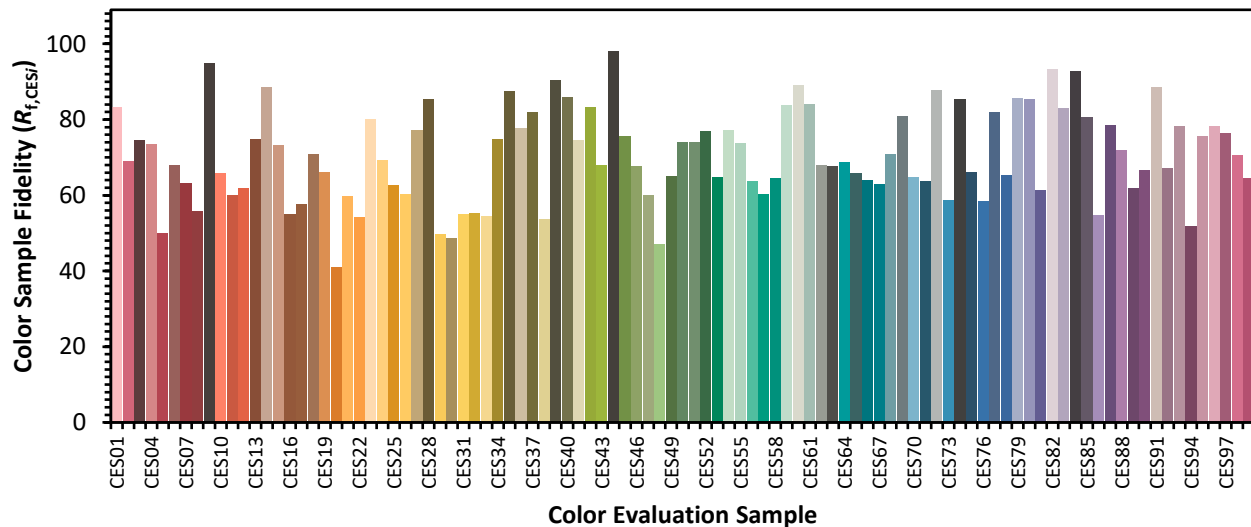


Color Vector Graphics

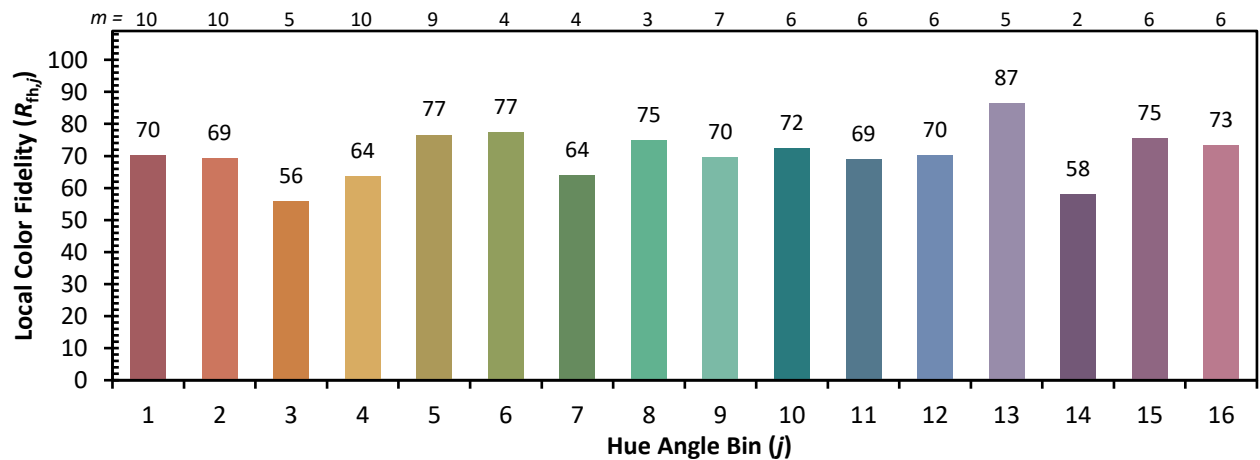
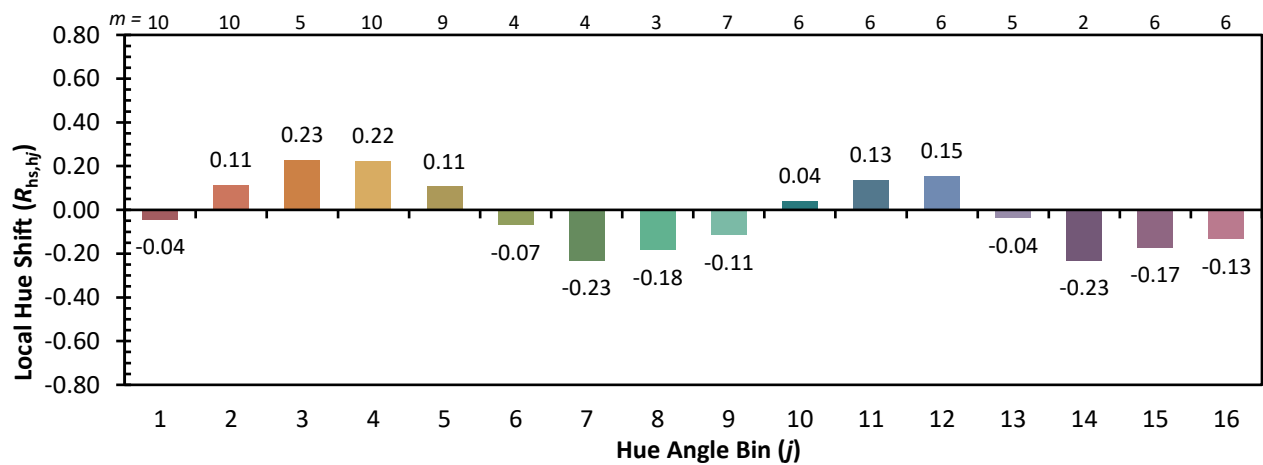
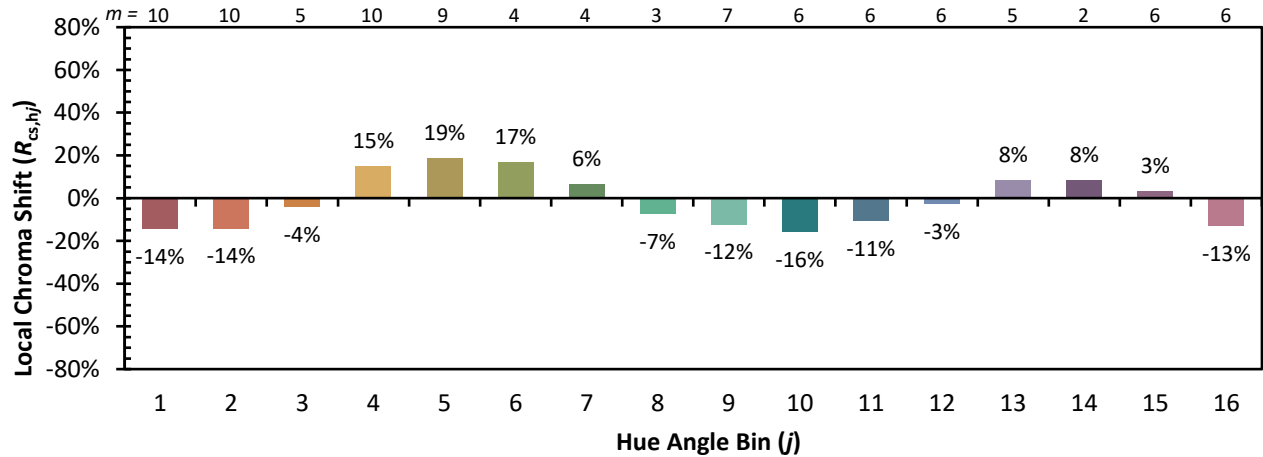


Individual Sample Fidelity Index ($R_{f,i}$)

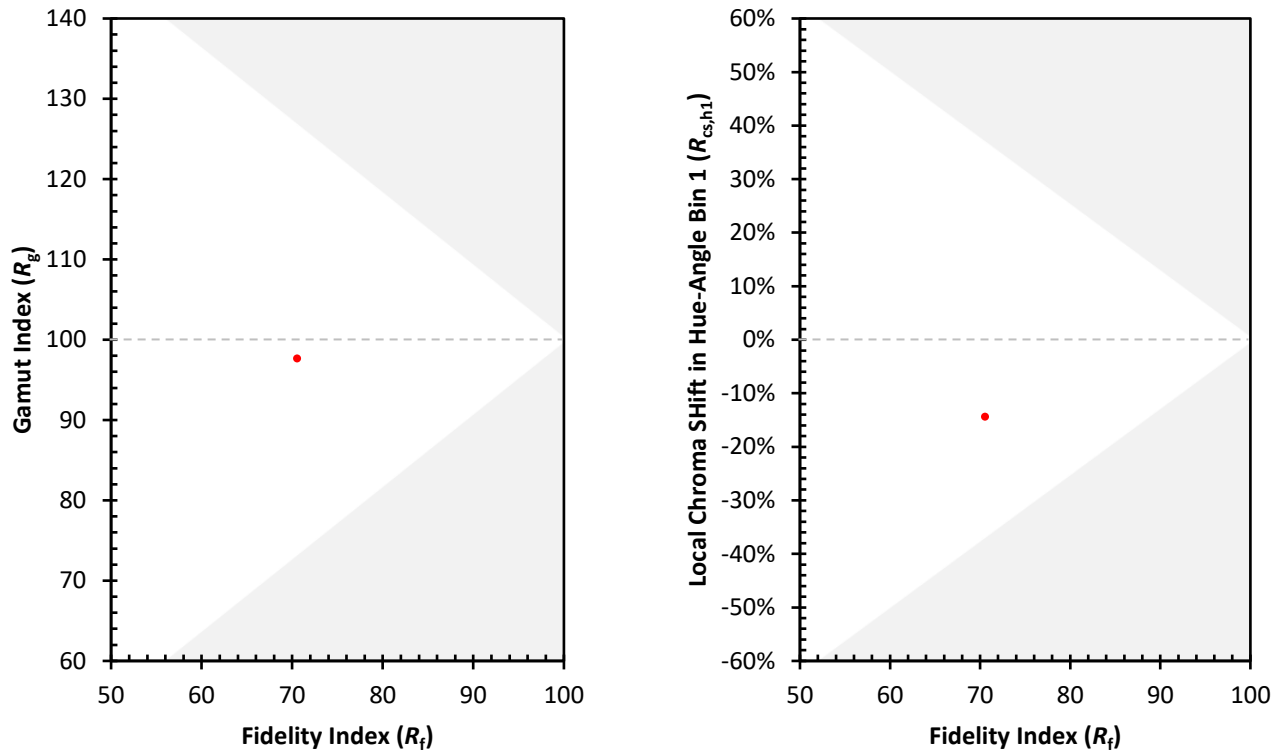
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)