

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: P1049550

Luminaire Tested: **GALN-SA5B-727-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049550
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 5xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18456.7 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 178.8
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

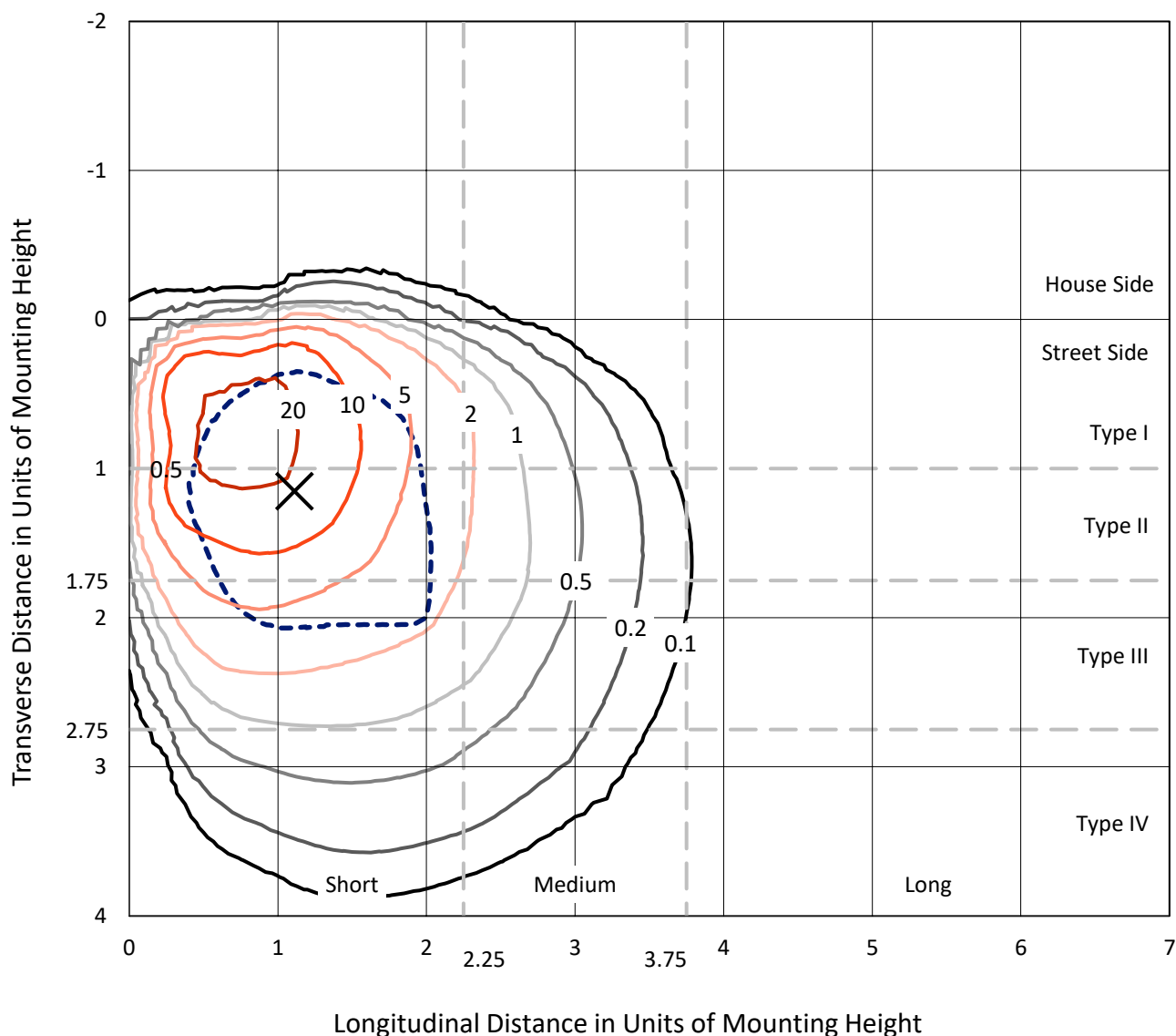
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

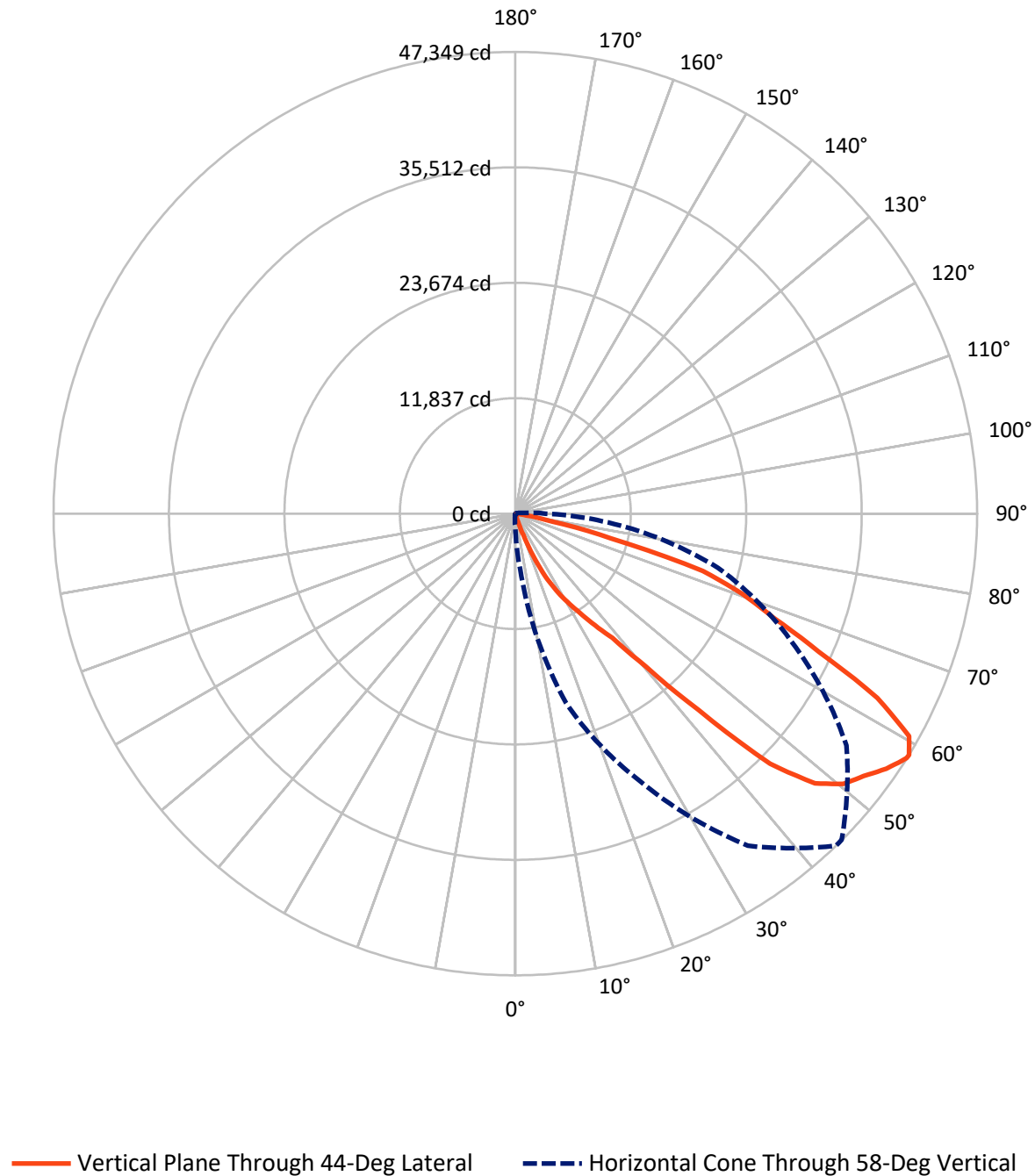


Based on 20 foot mounting height. Maximum calculated value = 32.1 fc

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	126.0	0.0	126.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	18330.7	0.0	18330.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	18456.7	0.0	18456.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.0
10°-20°	40.5	0.2
20°-30°	437.2	2.4
30°-40°	1293.1	7.0
40°-50°	3854.1	20.9
50°-60°	6115.5	33.1
60°-70°	5101.0	27.6
70°-80°	1573.2	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°	18456.7	100.0
0°-180°	18456.7	100.0



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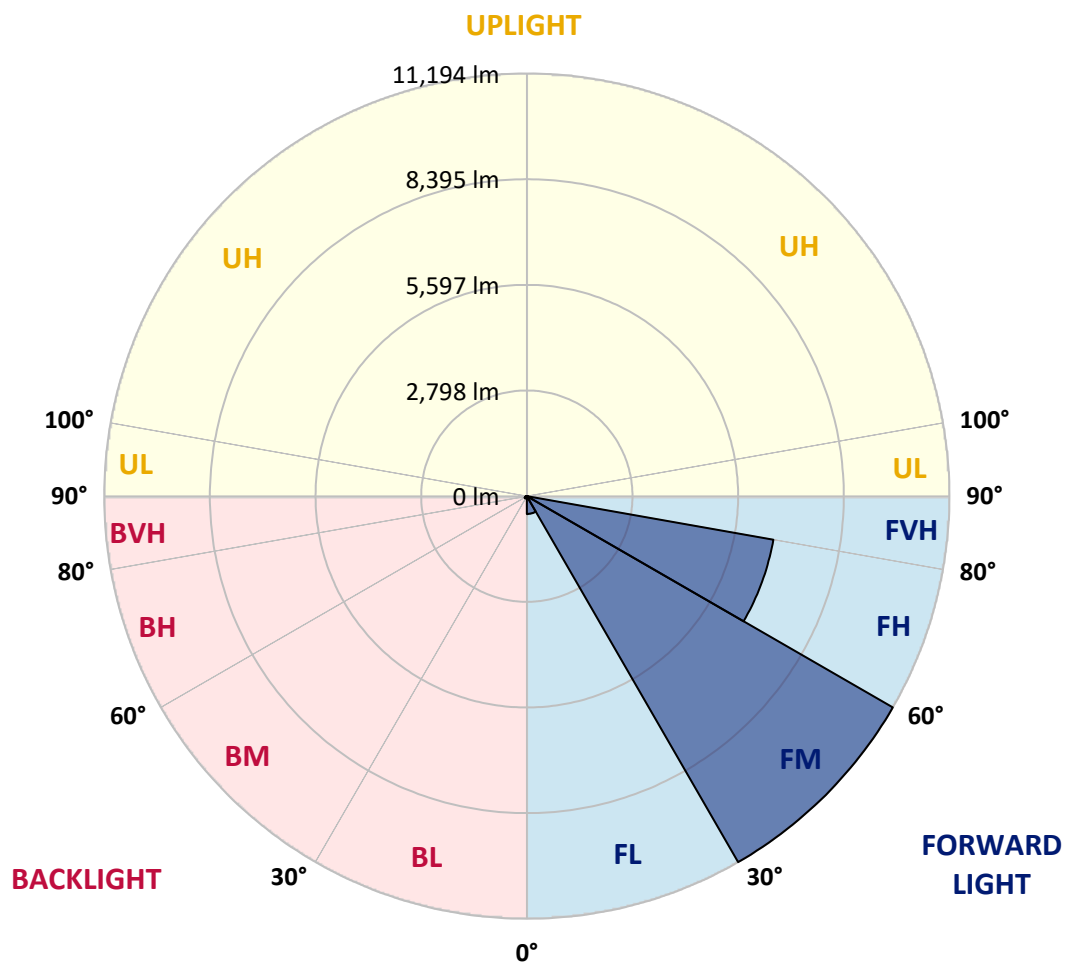
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	472.6	2.6			
FM	(30°-60°)	11193.6	60.6			
FH	(60°-80°)	6631.2	35.9			G3/7500
FVH	(80°-90°)	33.3	0.2			G1/100
BL	(0°-30°)	12.3	0.1	B0/110		
BM	(30°-60°)	69.0	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°	85°
0°	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
2.5°	104.6	104.6	100.4	94.8	89.2	83.7	82.3	79.5	78.1	76.7	75.3
5°	108.8	108.8	107.4	103.2	97.6	93.4	93.4	89.2	86.4	83.7	80.9
7.5°	111.5	112.9	115.7	114.3	111.5	107.4	107.4	104.6	100.4	93.4	89.2
10°	115.7	119.9	125.5	128.3	129.7	129.7	128.3	126.9	119.9	110.1	99.0
12.5°	119.9	128.3	142.2	156.2	164.5	175.7	174.3	171.5	153.4	132.5	112.9
15°	128.3	140.8	170.1	210.5	273.3	312.3	327.6	313.7	253.8	178.5	131.1
17.5°	138.0	158.9	246.8	440.6	722.2	856.1	936.9	871.4	577.2	338.8	164.5
20°	147.8	193.8	458.7	1141.9	1873.9	2311.7	2433.0	2243.3	1440.3	645.5	244.0
22.5°	164.5	271.9	930.0	2360.5	4037.7	4694.4	4818.5	4212.0	2720.2	1274.3	366.7
25°	199.4	394.6	1603.4	3846.7	6025.9	7134.4	7082.8	6288.1	4412.8	2035.6	557.7
27.5°	249.6	574.4	2424.6	5465.5	7930.5	8907.9	9025.0	8042.0	5882.3	2993.5	791.9
30°	322.1	796.1	3305.8	6762.1	9457.2	10514.0	10533.6	9517.1	7197.1	3834.2	1079.1
32.5°	391.8	1005.3	4076.8	8015.5	10961.6	12120.2	12206.7	10956.0	8178.7	4709.8	1328.7
35°	444.8	1141.9	4857.6	9117.0	12478.5	14074.9	14069.4	12584.5	9341.5	5491.9	1674.5
37.5°	448.9	1278.5	5564.4	10243.6	14399.8	16187.2	16364.3	14727.5	10746.9	6459.6	2098.3
40°	439.2	1431.9	6459.6	12000.3	17861.7	20604.2	20760.4	18696.9	13566.0	8115.9	2760.6
42.5°	450.3	1698.2	7912.4	15244.7	23610.2	27549.0	27850.1	25680.7	18748.5	11495.6	3941.5
45°	508.9	2198.7	10956.0	20672.5	31804.2	36606.0	36505.6	33381.1	24778.6	16640.4	6278.3
47.5°	702.7	3424.3	15467.8	25955.3	37041.0	41317.2	41403.6	37584.8	28297.7	20595.9	9425.1
50°	1080.5	5239.6	19258.8	28748.0	39292.7	43582.8	43502.0	39089.2	29634.8	22543.6	11353.4
52.5°	1405.4	6553.0	21160.5	29728.2	39581.3	44702.4	44696.8	39485.1	29842.5	22710.9	11594.6
55°	1486.3	6652.0	21175.9	29781.2	40228.3	46167.8	46351.8	40459.7	30111.6	21980.3	10686.9
57.5°	1454.2	5889.3	20291.9	30087.9	41379.9	47301.3	47311.1	41403.6	30794.8	21532.8	9183.9
58°	1426.3	5769.4	20113.4	30262.2	41577.9	47348.7	47325.0	41446.9	31351.1	21516.1	8948.3
60°	1270.2	5009.5	19417.7	30706.9	41283.7	46375.5	46153.8	40502.9	31268.8	21344.6	7761.8
62.5°	998.3	3908.1	18733.1	30192.5	38129.9	41664.4	41756.4	35858.7	28505.4	20344.9	6363.4
65°	794.7	2912.6	17305.4	26483.8	31398.5	34214.9	34557.9	29159.3	23792.9	17227.3	4691.6
67.5°	633.0	2105.3	14516.9	21085.2	24845.5	28555.6	28805.2	24481.6	18433.4	13199.4	3333.7
70°	514.5	1423.5	10020.5	15420.4	20492.7	24664.3	24679.6	20337.9	13758.5	8648.5	2091.4
72.5°	455.9	985.7	5816.8	11246.0	16616.7	20098.1	19692.4	16503.7	10574.0	5122.5	1246.5
75°	394.6	653.9	2852.6	6875.0	10074.8	10143.2	10297.9	7655.8	5285.6	2435.8	747.3
77.5°	324.9	464.3	1123.8	1878.1	3021.3	3867.6	4011.3	3039.5	1758.1	599.5	398.8
80°	223.1	220.3	302.6	575.8	864.4	1083.3	1010.8	782.2	460.1	230.1	142.2
82.5°	96.2	104.6	136.6	164.5	133.8	129.7	124.1	79.5	61.3	47.4	29.3
85°	30.7	27.9	29.3	29.3	23.7	18.1	18.1	8.4	0.0	0.0	0.0
87.5°	15.3	12.5	12.5	11.2	7.0	2.8	1.4	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°	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
2.5°	73.9	73.9	71.1	68.3	66.9	64.1	62.7	61.3	60.0	58.6	57.2
5°	78.1	76.7	72.5	68.3	64.1	60.0	57.2	54.4	51.6	50.2	48.8
7.5°	85.0	82.3	73.9	66.9	61.3	55.8	53.0	48.8	46.0	41.8	40.4
10°	93.4	87.8	76.7	68.3	60.0	53.0	48.8	44.6	40.4	34.9	33.5
12.5°	104.6	94.8	80.9	66.9	57.2	48.8	44.6	39.0	34.9	30.7	27.9
15°	114.3	101.8	82.3	66.9	54.4	44.6	39.0	33.5	29.3	23.7	20.9
17.5°	128.3	107.4	80.9	62.7	50.2	39.0	33.5	29.3	22.3	13.9	11.2
20°	152.0	111.5	78.1	58.6	43.2	32.1	25.1	19.5	9.8	2.8	0.0
22.5°	189.6	122.7	75.3	53.0	37.6	25.1	16.7	7.0	0.0	0.0	0.0
25°	262.1	142.2	75.3	50.2	33.5	18.1	5.6	0.0	0.0	0.0	0.0
27.5°	348.6	168.7	75.3	43.2	26.5	9.8	0.0	0.0	0.0	0.0	0.0
30°	436.4	198.0	75.3	37.6	20.9	1.4	0.0	0.0	0.0	0.0	0.0
32.5°	520.1	223.1	76.7	32.1	13.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	605.1	227.3	75.3	27.9	8.4	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	713.9	218.9	71.1	25.1	4.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	878.4	223.1	66.9	23.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1182.3	241.2	61.3	23.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2044.0	323.5	55.8	25.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3381.1	581.4	54.4	25.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4315.2	732.0	57.2	26.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4308.2	815.6	60.0	27.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0
55°	3830.0	831.0	64.1	30.7	18.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3201.2	758.5	73.9	37.6	33.5	0.0	0.0	0.0	0.0	0.0	0.0
58°	3089.7	725.0	76.7	39.0	36.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	2532.0	591.2	97.6	48.8	48.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1748.4	515.9	111.5	62.7	50.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	1236.7	465.7	121.3	66.9	40.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	924.4	429.4	133.8	68.3	20.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	708.3	402.9	164.5	72.5	5.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	577.2	372.3	199.4	75.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	478.2	336.0	192.4	82.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	317.9	260.7	175.7	82.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	111.5	103.2	136.6	72.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
2.5°	57.2	57.2	55.8	57.2	57.2	60.0	66.9	76.7	87.8	92.0	96.2
5°	47.4	46.0	44.6	44.6	44.6	48.8	54.4	65.5	78.1	83.7	86.4
7.5°	39.0	37.6	36.3	34.9	34.9	37.6	44.6	57.2	69.7	75.3	79.5
10°	32.1	29.3	27.9	26.5	26.5	29.3	36.3	48.8	62.7	68.3	73.9
12.5°	26.5	22.3	19.5	18.1	16.7	20.9	27.9	39.0	54.4	61.3	66.9
15°	18.1	13.9	9.8	8.4	7.0	11.2	18.1	30.7	46.0	54.4	60.0
17.5°	9.8	4.2	1.4	0.0	0.0	2.8	8.4	22.3	37.6	44.6	51.6
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	27.9	34.9	41.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	16.7	23.7	30.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	12.5	18.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	8.4
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	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	8.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	11.2	15.3
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°	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
2.5°	99.0	97.6	94.8	92.0	92.0	92.0	96.2	100.4	104.6	104.6
5°	92.0	92.0	90.6	87.8	87.8	89.2	94.8	101.8	107.4	108.8
7.5°	85.0	87.8	85.0	83.7	85.0	86.4	92.0	100.4	108.8	111.5
10°	80.9	82.3	82.3	80.9	80.9	83.7	89.2	100.4	111.5	115.7
12.5°	75.3	78.1	76.7	76.7	76.7	79.5	86.4	99.0	114.3	119.9
15°	69.7	73.9	73.9	72.5	72.5	73.9	83.7	97.6	118.5	128.3
17.5°	64.1	68.3	69.7	66.9	66.9	69.7	79.5	97.6	121.3	138.0
20°	53.0	60.0	64.1	60.0	60.0	62.7	72.5	92.0	122.7	147.8
22.5°	41.8	48.8	54.4	53.0	53.0	54.4	66.9	87.8	124.1	164.5
25°	30.7	37.6	41.8	44.6	44.6	48.8	61.3	85.0	129.7	199.4
27.5°	18.1	26.5	32.1	34.9	36.3	41.8	57.2	82.3	139.4	249.6
30°	8.4	15.3	22.3	27.9	27.9	37.6	53.0	79.5	152.0	322.1
32.5°	0.0	7.0	11.2	19.5	20.9	30.7	48.8	76.7	170.1	391.8
35°	0.0	0.0	5.6	15.3	15.3	25.1	44.6	73.9	198.0	444.8
37.5°	0.0	0.0	0.0	11.2	12.5	22.3	43.2	72.5	203.6	448.9
40°	0.0	0.0	0.0	8.4	9.8	20.9	43.2	73.9	184.0	439.2
42.5°	0.0	0.0	0.0	5.6	7.0	20.9	43.2	76.7	165.9	450.3
45°	0.0	0.0	0.0	4.2	5.6	22.3	41.8	75.3	156.2	508.9
47.5°	0.0	0.0	0.0	5.6	8.4	22.3	40.4	73.9	157.6	702.7
50°	0.0	0.0	0.0	7.0	9.8	22.3	41.8	71.1	172.9	1080.5
52.5°	0.0	0.0	0.0	5.6	8.4	25.1	46.0	69.7	188.2	1405.4
55°	0.0	0.0	0.0	1.4	4.2	32.1	50.2	69.7	211.9	1486.3
57.5°	0.0	0.0	0.0	0.0	0.0	36.3	57.2	73.9	251.0	1454.2
58°	0.0	0.0	0.0	0.0	0.0	36.3	58.6	73.9	253.8	1426.3
60°	0.0	0.0	0.0	0.0	0.0	36.3	64.1	82.3	273.3	1270.2
62.5°	0.0	0.0	0.0	0.0	0.0	30.7	76.7	103.2	284.4	998.3
65°	0.0	0.0	0.0	0.0	0.0	25.1	90.6	112.9	292.8	794.7
67.5°	0.0	0.0	0.0	0.0	0.0	23.7	93.4	114.3	297.0	633.0
70°	0.0	0.0	0.0	0.0	0.0	25.1	92.0	122.7	310.9	514.5
72.5°	0.0	0.0	0.0	0.0	0.0	27.9	83.7	135.2	310.9	455.9
75°	0.0	0.0	0.0	0.0	0.0	29.3	78.1	152.0	283.0	394.6
77.5°	0.0	0.0	0.0	0.0	0.0	27.9	76.7	177.1	252.4	324.9
80°	2.8	4.2	4.2	2.8	2.8	23.7	75.3	179.9	214.7	223.1
82.5°	8.4	11.2	9.8	7.0	7.0	20.9	66.9	150.6	111.5	96.2
85°	15.3	18.1	18.1	15.3	15.3	19.5	41.8	54.4	37.6	30.7
87.5°	20.9	23.7	23.7	20.9	20.9	19.5	18.1	16.7	15.3	15.3
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

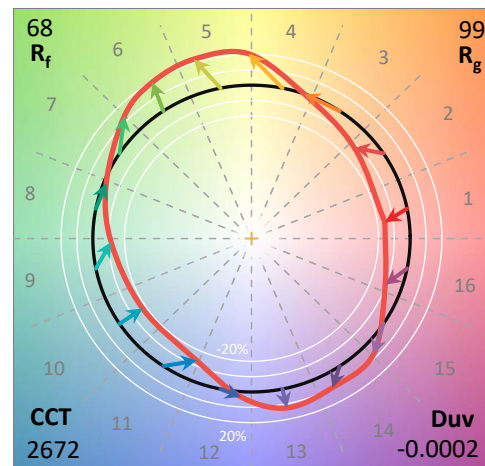
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

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

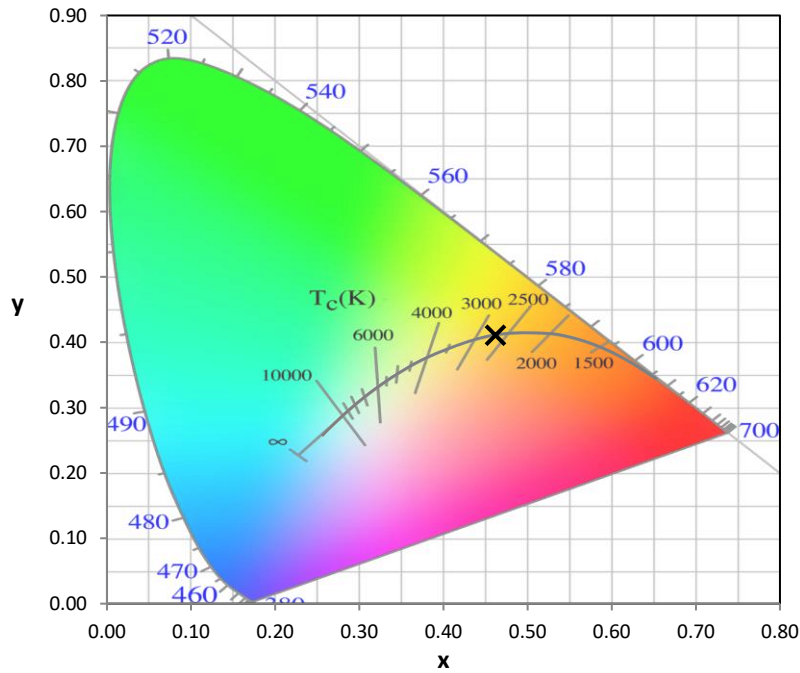
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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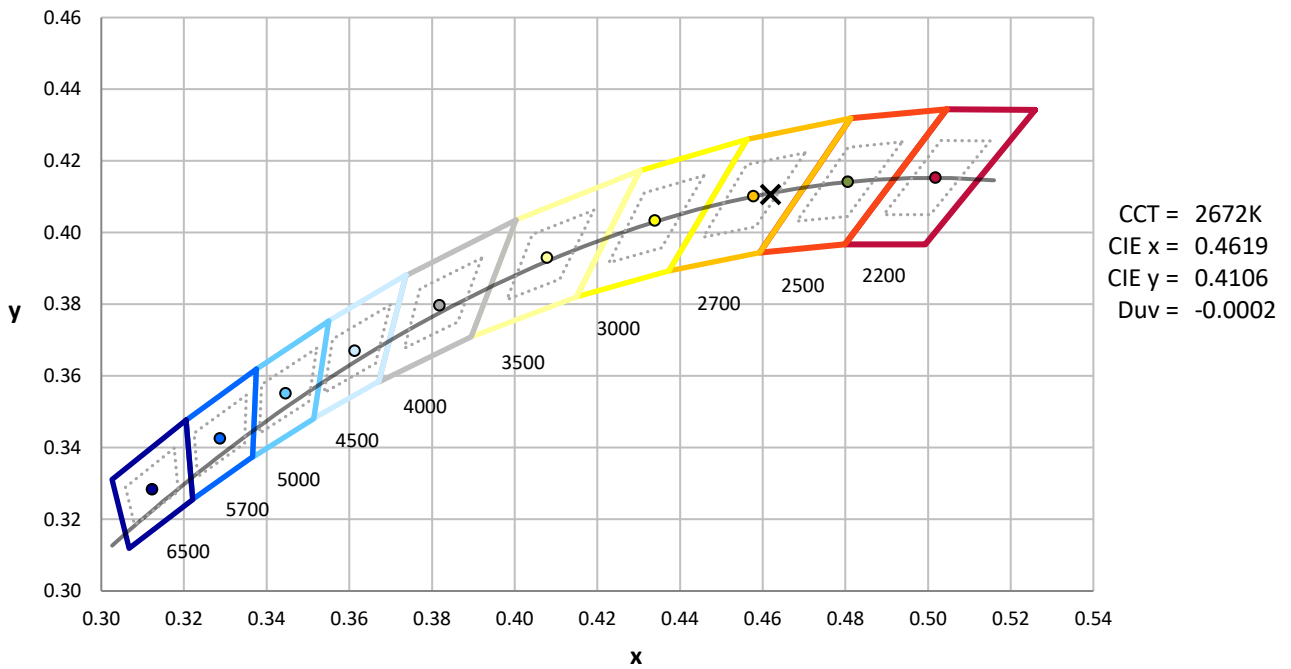
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



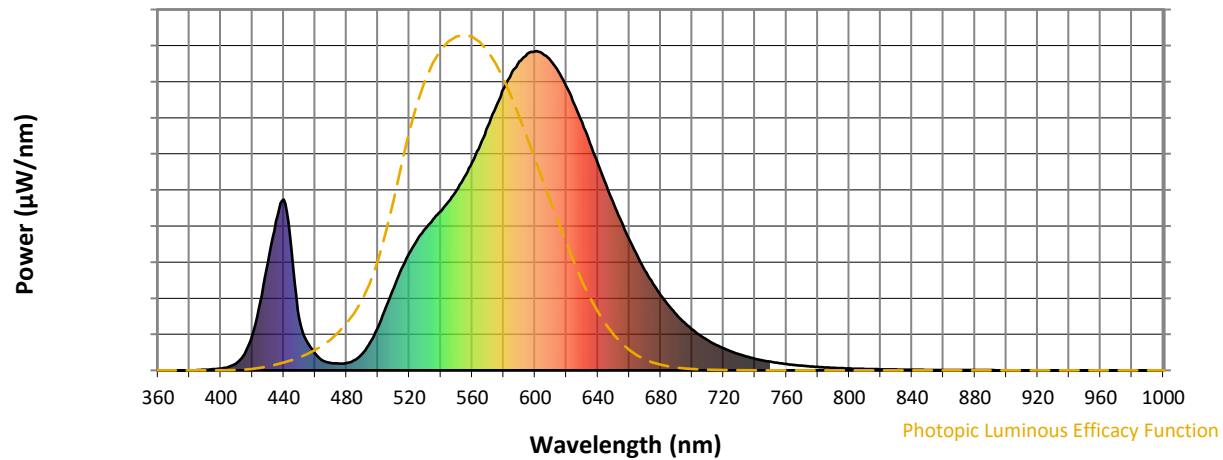
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

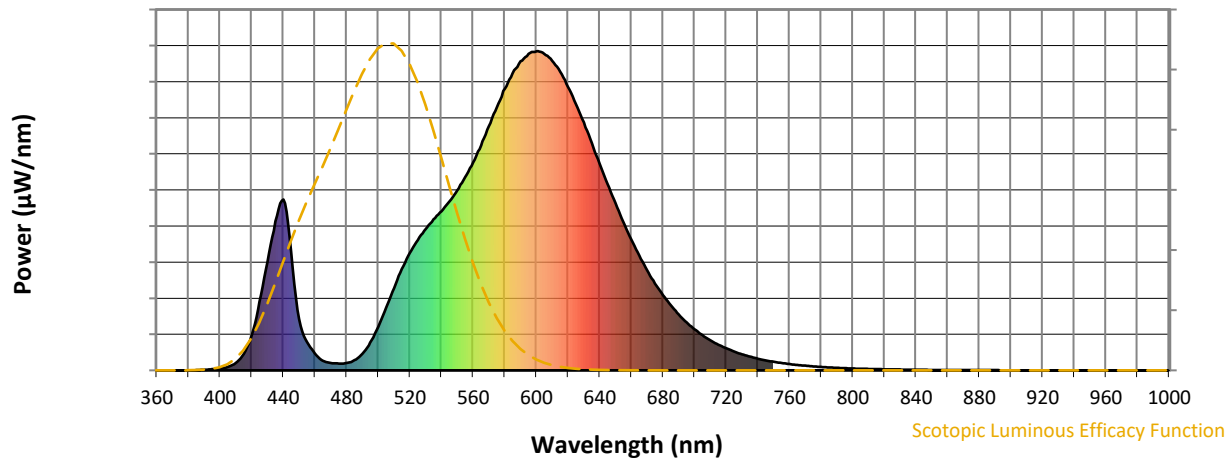


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength



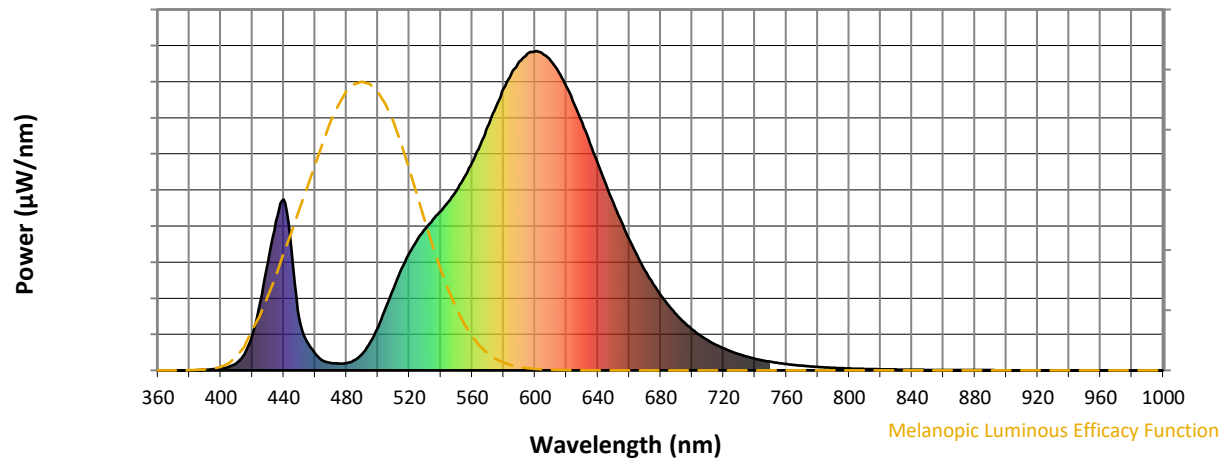
Scotopic Lumens: NR

S/P: 1.02

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

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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			

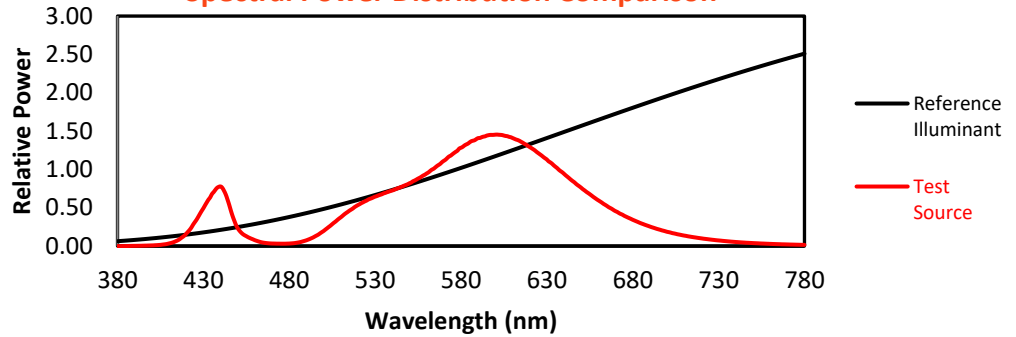
REPORT NUMBER: SP1-2407-184-3

TM-30-18

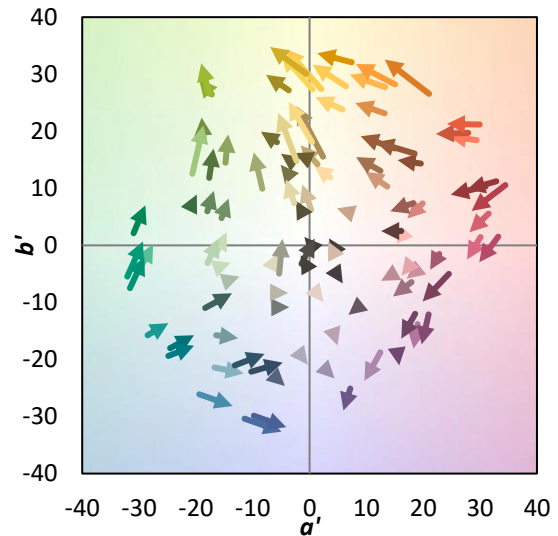
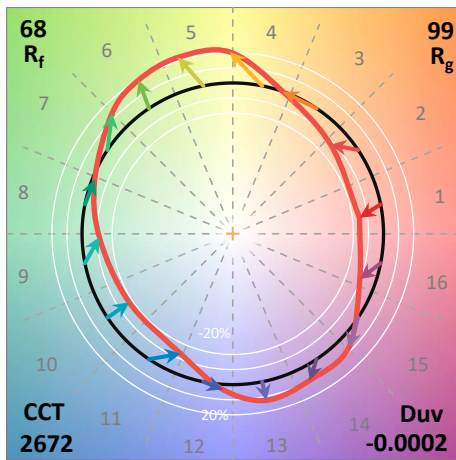
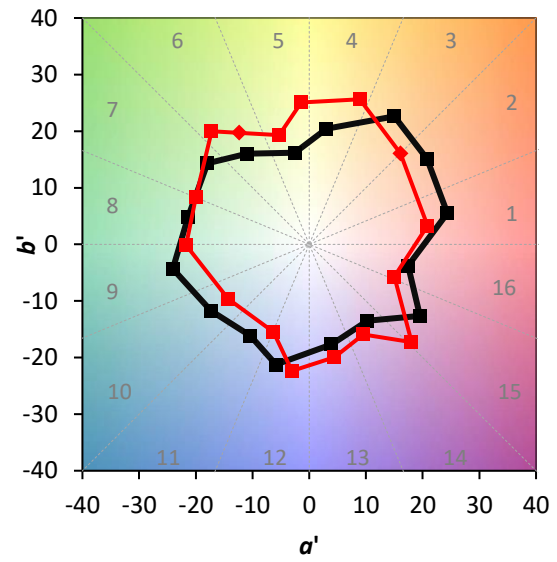
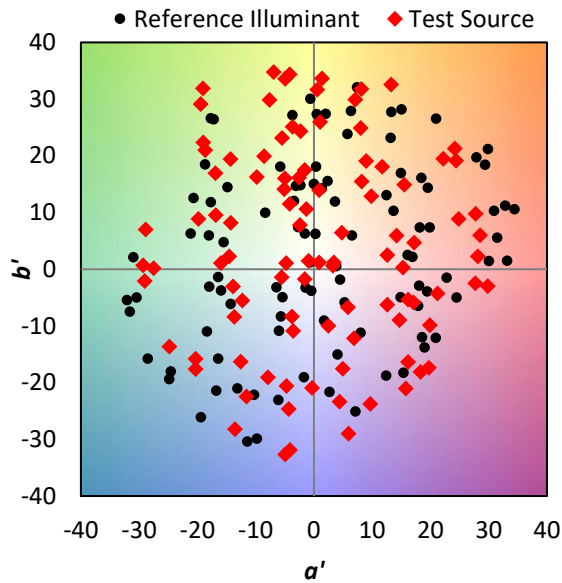
Summary

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

Spectral Power Distribution Comparison

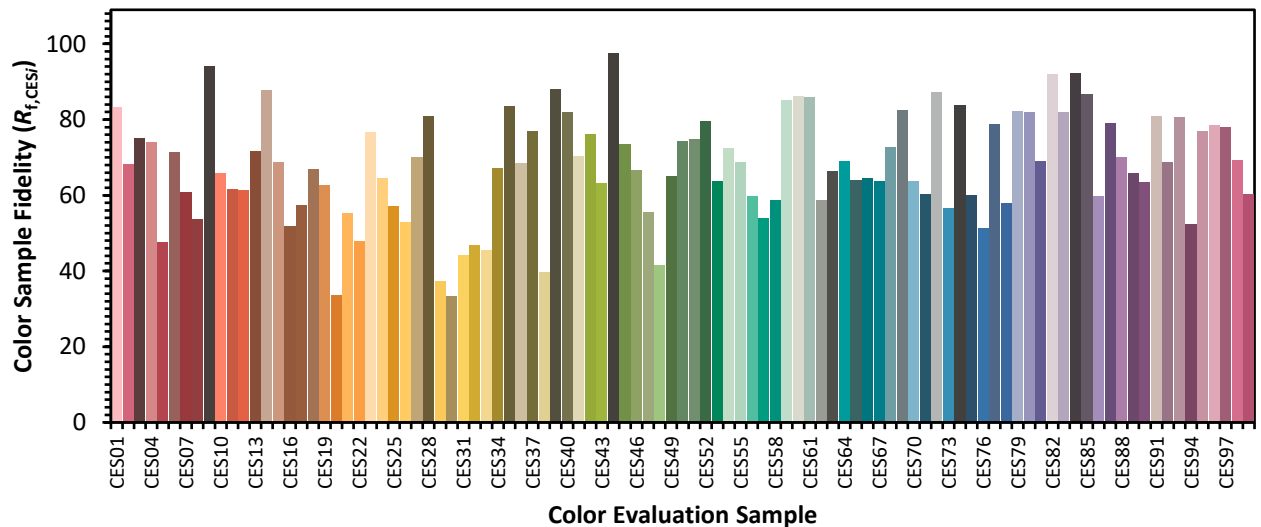


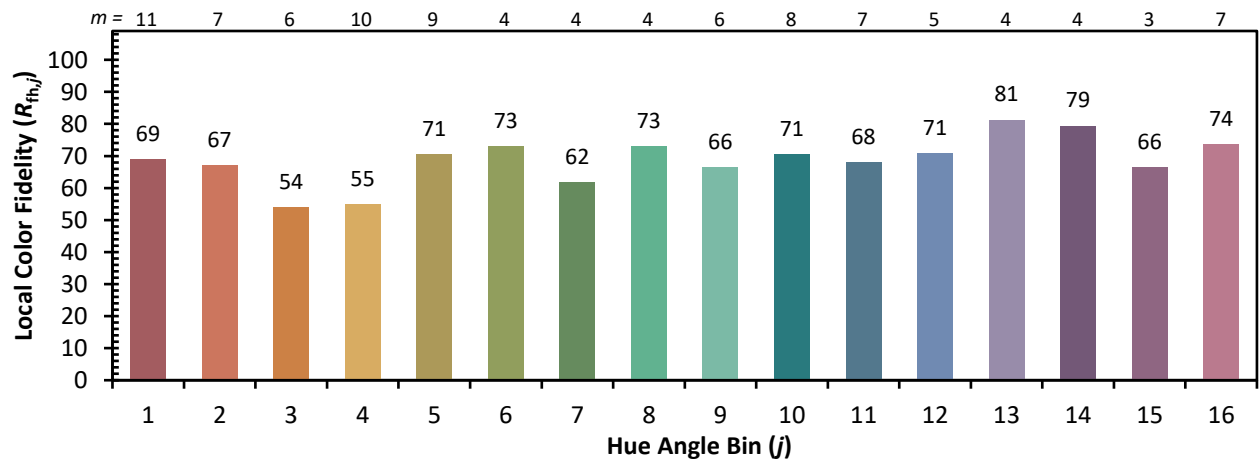
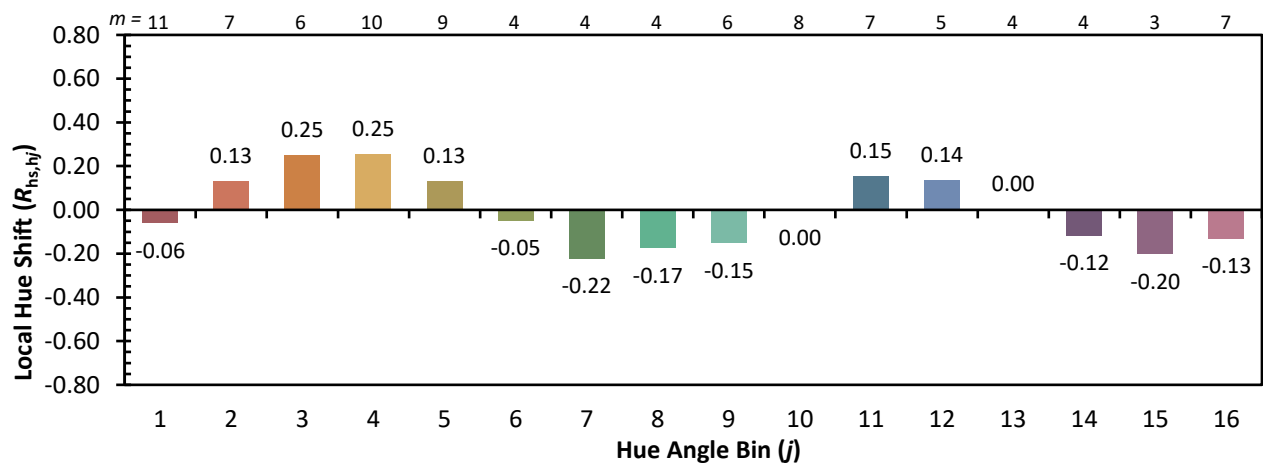
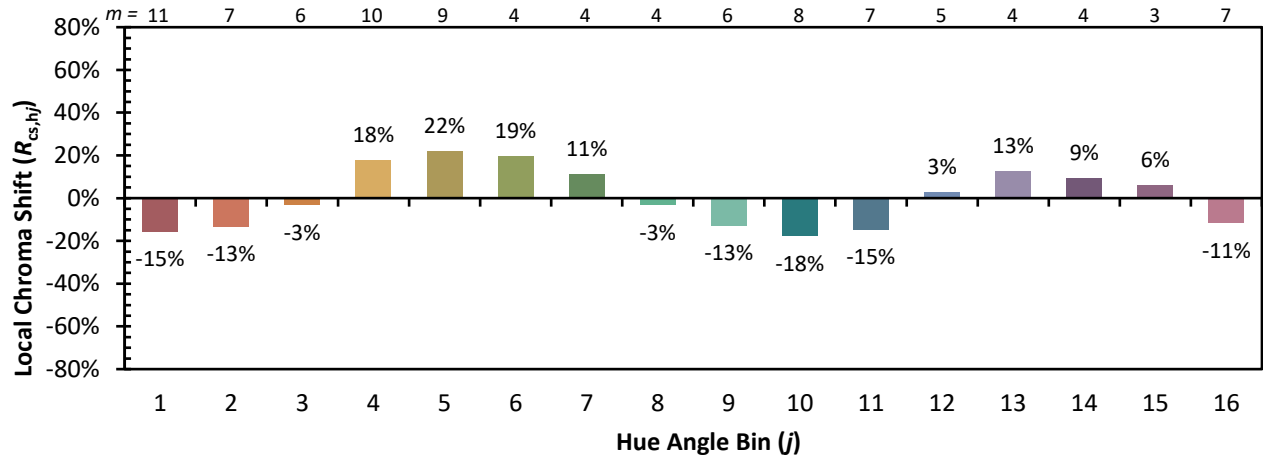
Color Vector Graphics



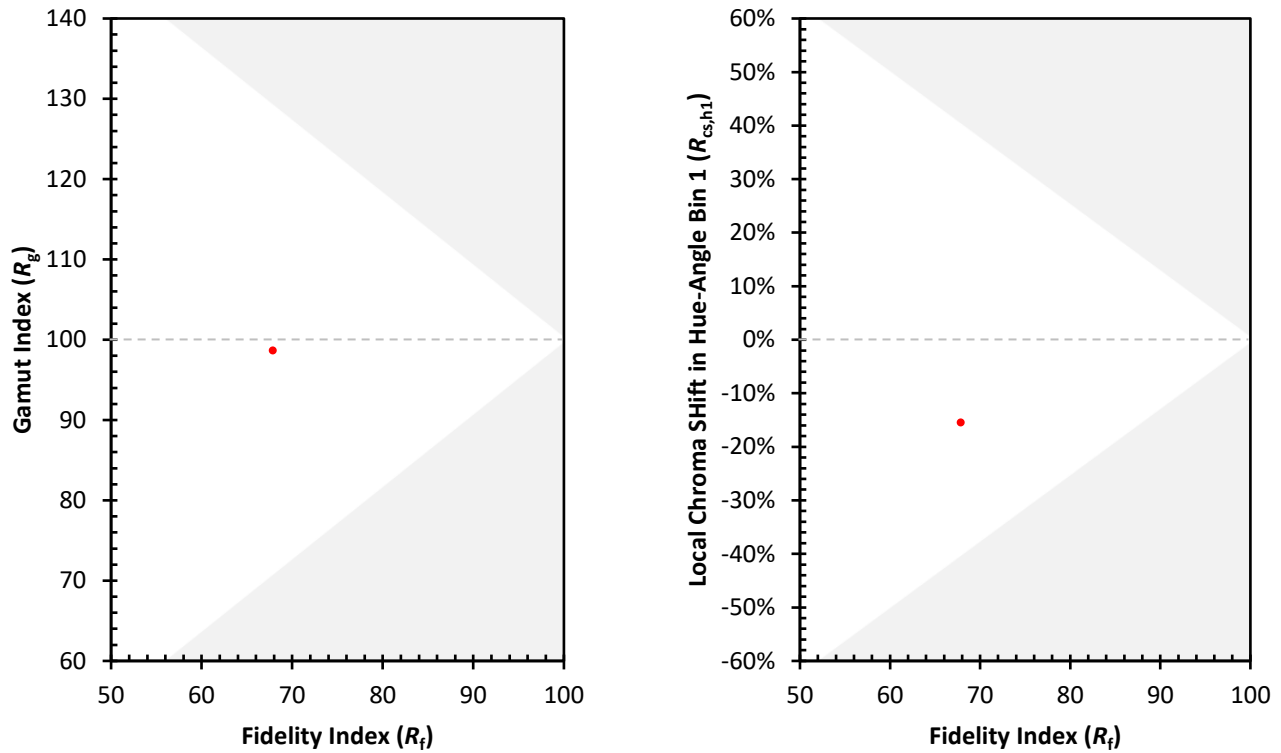
Individual Sample Fidelity Index ($R_{f,i}$)

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)