

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: P1049702

Luminaire Tested: **GALN-SA7B-760-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049702
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-760-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 7xLight Square PACKAGE
70CRI 5700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28608.4 lumens
Efficiency: N/A
Efficacy: 114.7 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): 249.5
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

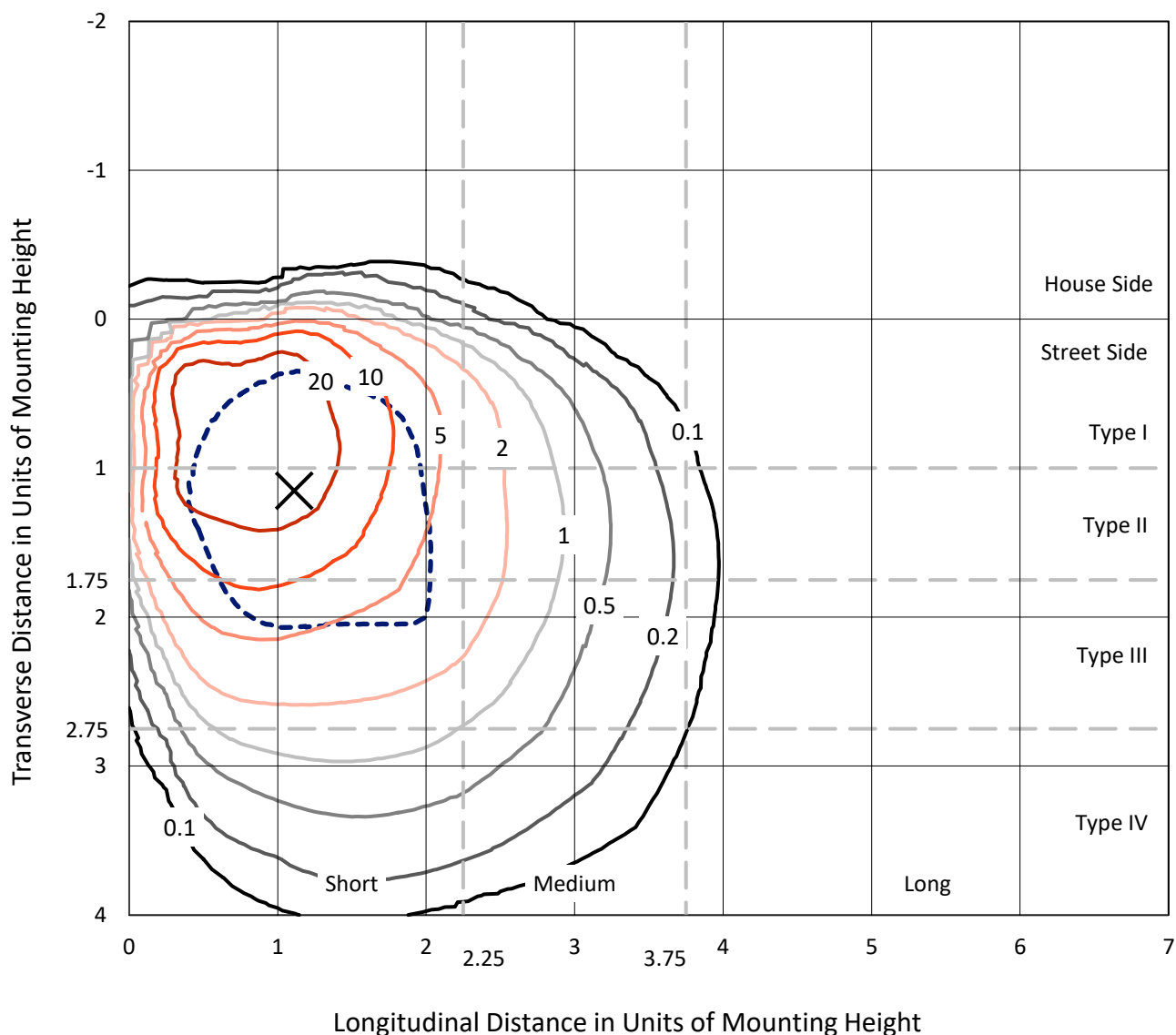
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

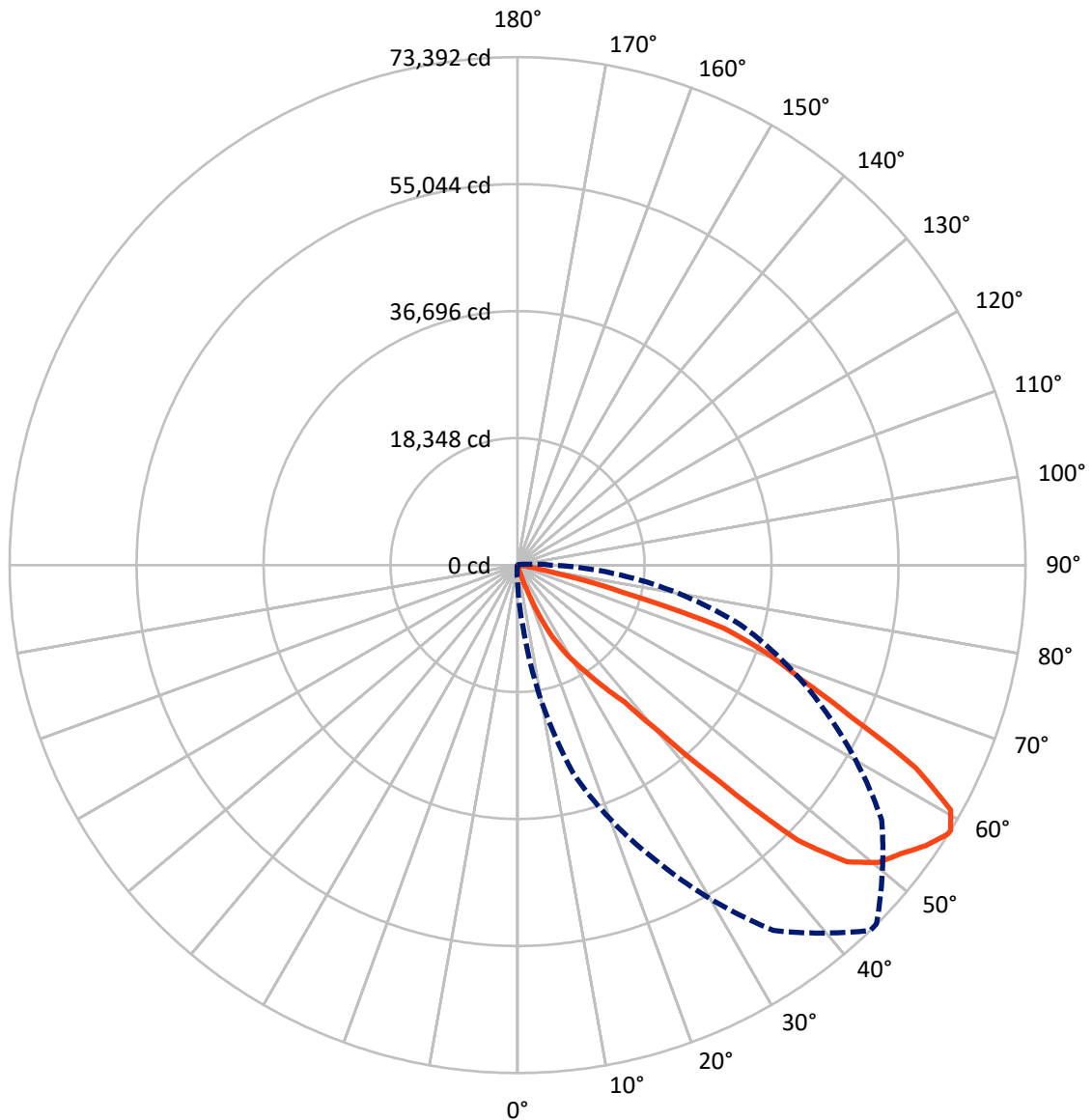
--- 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 49.8 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	195.3	0.0	195.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	28413.1	0.0	28413.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	28608.4	0.0	28608.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	0.0
10°-20°	62.7	0.2
20°-30°	677.7	2.4
30°-40°	2004.3	7.0
40°-50°	5973.9	20.9
50°-60°	9479.1	33.1
60°-70°	7906.7	27.6
70°-80°	2438.6	8.5
80°-90°	54.2	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°	28608.4	100.0
0°-180°	28608.4	100.0



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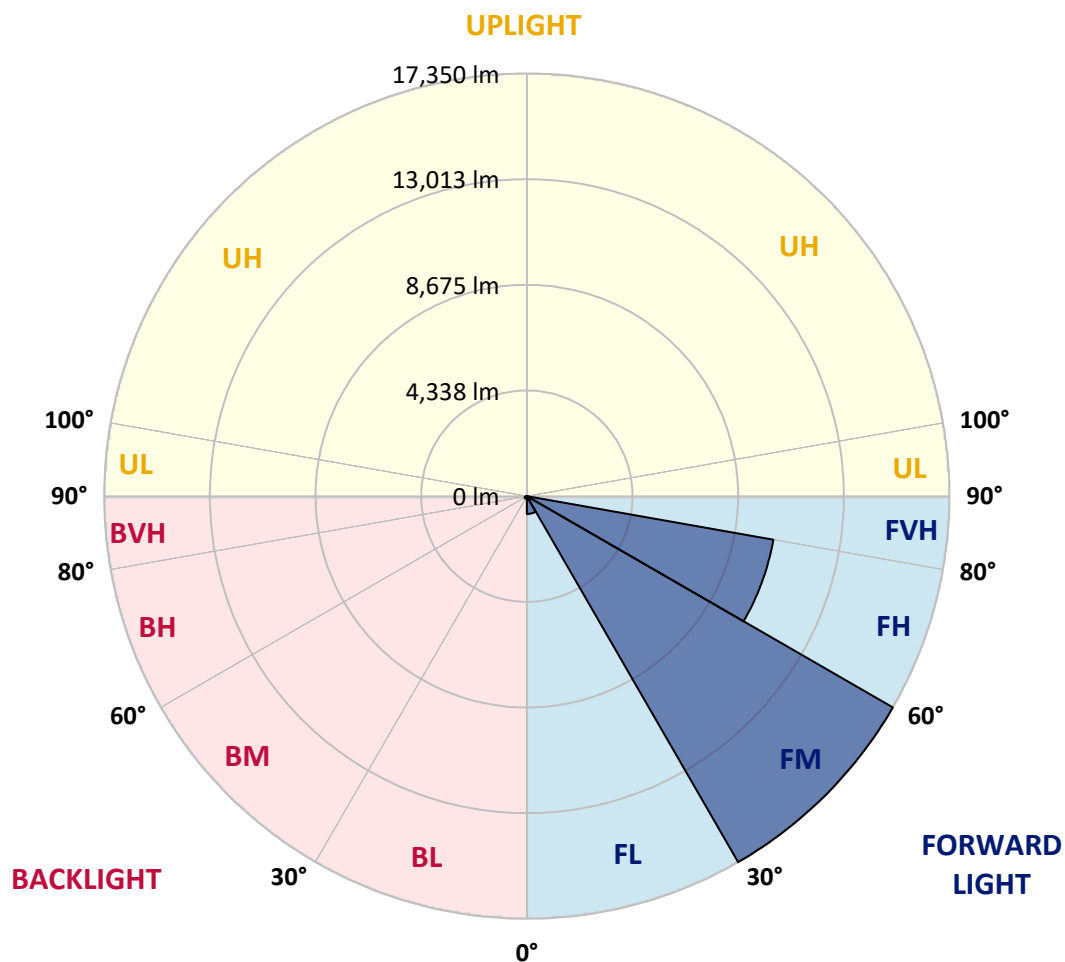
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	732.5	2.6			
FM	(30°-60°)	17350.4	60.6			
FH	(60°-80°)	10278.6	35.9			G4/12000
FVH	(80°-90°)	51.5	0.2			G1/100
BL	(0°-30°)	19.1	0.1	B0/110		
BM	(30°-60°)	106.9	0.4	B0/220		
BH	(60°-80°)	66.7	0.2	B0/110		G0/110
BVH	(80°-90°)	2.6	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°
0°	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3
2.5°	162.1	162.1	155.6	147.0	138.3	129.7	127.5	123.2	121.0	118.9
5°	168.6	168.6	166.4	159.9	151.3	144.8	144.8	138.3	134.0	129.7
7.5°	172.9	175.1	179.4	177.2	172.9	166.4	166.4	162.1	155.6	144.8
10°	179.4	185.9	194.5	198.8	201.0	201.0	198.8	196.7	185.9	170.7
12.5°	185.9	198.8	220.4	242.0	255.0	272.3	270.1	265.8	237.7	205.3
15°	198.8	218.3	263.7	326.3	423.6	484.1	507.9	486.3	393.3	276.6
17.5°	214.0	246.4	382.5	682.9	1119.5	1326.9	1452.3	1350.7	894.7	525.2
20°	229.1	300.4	711.0	1770.0	2904.5	3583.1	3771.2	3477.2	2232.4	1000.6
22.5°	255.0	421.4	1441.5	3658.8	6258.6	7276.5	7468.8	6528.7	4216.3	1975.3
25°	309.0	611.6	2485.3	5962.5	9340.4	11058.5	10978.5	9746.7	6840.0	3155.2
27.5°	386.8	890.4	3758.2	8471.6	12292.5	13807.4	13988.9	12465.4	9117.8	4639.9
30°	499.2	1234.0	5124.0	10481.4	14658.9	16297.0	16327.3	14751.8	11155.7	5943.1
32.5°	607.3	1558.2	6319.1	12424.3	16990.7	18786.6	18920.6	16982.1	12677.1	7300.3
35°	689.4	1770.0	7529.3	14131.6	19342.0	21816.5	21807.9	19506.3	14479.5	8512.7
37.5°	695.9	1981.7	8625.0	15877.8	22320.1	25090.6	25365.1	22827.9	16657.9	10012.5
40°	680.8	2219.5	10012.5	18600.8	27686.1	31937.1	32179.1	28980.6	21027.7	12579.9
42.5°	698.0	2632.2	12264.4	23629.7	36596.4	42701.6	43168.4	39805.7	29060.6	17818.5
45°	788.8	3408.1	16982.1	32043.0	49297.4	56740.3	56584.7	51741.6	38407.5	25793.0
47.5°	1089.2	5307.7	23975.5	40231.4	57414.5	64042.7	64176.7	58257.4	43862.1	31924.1
50°	1674.9	8121.5	29851.6	44560.2	60904.7	67554.5	67429.2	60589.2	45934.6	34943.2
52.5°	2178.4	10157.3	32799.3	46079.4	61352.1	69289.9	69281.2	61203.0	46256.7	35202.5
55°	2303.8	10310.7	32823.1	46161.6	62354.9	71561.2	71846.5	62713.6	46673.8	34070.1
57.5°	2254.1	9128.6	31453.0	46637.0	64139.9	73318.2	73333.4	64176.7	47732.7	33376.4
58°	2210.8	8942.7	31176.3	46907.2	64446.8	73391.7	73355.0	64243.7	48595.0	33350.4
60°	1968.8	7764.9	30097.9	47596.6	63990.8	71883.2	71539.6	62780.6	48467.5	33084.6
62.5°	1547.4	6057.6	29036.8	46799.1	59102.4	64580.8	64723.4	55581.9	44184.1	31535.1
65°	1231.8	4514.6	26823.8	41050.5	48668.5	53033.9	53565.6	45197.7	36879.5	26702.8
67.5°	981.1	3263.3	22501.6	32682.6	38511.2	44261.9	44648.8	37947.1	28572.2	20459.3
70°	797.5	2206.5	15532.0	23902.0	31764.2	38230.2	38254.0	31524.3	21326.0	13405.4
72.5°	706.7	1527.9	9016.2	17431.6	25756.3	31152.6	30523.7	25581.2	16389.9	7940.0
75°	611.6	1013.6	4421.7	10656.5	15616.3	15722.2	15962.0	11866.7	8192.8	3775.5
77.5°	503.5	719.7	1741.9	2911.0	4683.2	5995.0	6217.5	4711.2	2725.2	929.3
80°	345.8	341.5	469.0	892.5	1339.9	1679.2	1566.8	1212.4	713.2	356.6
82.5°	149.1	162.1	211.8	255.0	207.5	201.0	192.3	123.2	95.1	73.5
85°	47.5	43.2	45.4	45.4	36.7	28.1	28.1	13.0	0.0	0.0
87.5°	23.8	19.5	19.5	17.3	10.8	4.3	2.2	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°
125.3	0°	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3
116.7	2.5°	114.5	114.5	110.2	105.9	103.7	99.4	97.3	95.1	92.9	90.8
125.3	5°	121.0	118.9	112.4	105.9	99.4	92.9	88.6	84.3	80.0	77.8
138.3	7.5°	131.8	127.5	114.5	103.7	95.1	86.4	82.1	75.6	71.3	64.8
153.4	10°	144.8	136.2	118.9	105.9	92.9	82.1	75.6	69.2	62.7	54.0
175.1	12.5°	162.1	147.0	125.3	103.7	88.6	75.6	69.2	60.5	54.0	47.5
203.1	15°	177.2	157.8	127.5	103.7	84.3	69.2	60.5	51.9	45.4	36.7
255.0	17.5°	198.8	166.4	125.3	97.3	77.8	60.5	51.9	45.4	34.6	21.6
378.2	20°	235.6	172.9	121.0	90.8	67.0	49.7	38.9	30.3	15.1	4.3
568.4	22.5°	293.9	190.2	116.7	82.1	58.4	38.9	25.9	10.8	0.0	0.0
864.4	25°	406.3	220.4	116.7	77.8	51.9	28.1	8.6	0.0	0.0	0.0
1227.5	27.5°	540.3	261.5	116.7	67.0	41.1	15.1	0.0	0.0	0.0	0.0
1672.7	30°	676.4	306.9	116.7	58.4	32.4	2.2	0.0	0.0	0.0	0.0
2059.5	32.5°	806.1	345.8	118.9	49.7	21.6	0.0	0.0	0.0	0.0	0.0
2595.5	35°	937.9	352.3	116.7	43.2	13.0	0.0	0.0	0.0	0.0	0.0
3252.5	37.5°	1106.5	339.3	110.2	38.9	6.5	0.0	0.0	0.0	0.0	0.0
4279.0	40°	1361.5	345.8	103.7	36.7	2.2	0.0	0.0	0.0	0.0	0.0
6109.5	42.5°	1832.6	373.9	95.1	36.7	0.0	0.0	0.0	0.0	0.0	0.0
9731.5	45°	3168.2	501.4	86.4	38.9	0.0	0.0	0.0	0.0	0.0	0.0
14609.2	47.5°	5240.7	901.2	84.3	38.9	0.0	0.0	0.0	0.0	0.0	0.0
17598.0	50°	6688.7	1134.6	88.6	41.1	0.0	0.0	0.0	0.0	0.0	0.0
17971.9	52.5°	6677.9	1264.3	92.9	43.2	8.6	0.0	0.0	0.0	0.0	0.0
16565.0	55°	5936.6	1288.0	99.4	47.5	28.1	0.0	0.0	0.0	0.0	0.0
14235.3	57.5°	4961.9	1175.7	114.5	58.4	51.9	0.0	0.0	0.0	0.0	0.0
13870.1	58°	4789.0	1123.8	118.9	60.5	56.2	0.0	0.0	0.0	0.0	0.0
12031.0	60°	3924.6	916.3	151.3	75.6	75.6	0.0	0.0	0.0	0.0	0.0
9863.4	62.5°	2710.0	799.6	172.9	97.3	77.8	0.0	0.0	0.0	0.0	0.0
7272.2	65°	1916.9	721.8	188.0	103.7	62.7	0.0	0.0	0.0	0.0	0.0
5167.2	67.5°	1432.8	665.6	207.5	105.9	32.4	0.0	0.0	0.0	0.0	0.0
3241.7	70°	1097.8	624.6	255.0	112.4	8.6	0.0	0.0	0.0	0.0	0.0
1932.0	72.5°	894.7	577.0	309.0	116.7	0.0	0.0	0.0	0.0	0.0	0.0
1158.4	75°	741.3	520.8	298.2	127.5	0.0	0.0	0.0	0.0	0.0	0.0
618.1	77.5°	492.7	404.1	272.3	127.5	0.0	0.0	0.0	0.0	0.0	0.0
220.4	80°	172.9	159.9	211.8	112.4	0.0	0.0	0.0	0.0	0.0	0.0
45.4	82.5°	25.9	21.6	30.3	38.9	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°
125.3	0°	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3
88.6	2.5°	88.6	88.6	86.4	88.6	88.6	92.9	103.7	118.9	136.2	142.6
75.6	5°	73.5	71.3	69.2	69.2	69.2	75.6	84.3	101.6	121.0	129.7
62.7	7.5°	60.5	58.4	56.2	54.0	54.0	58.4	69.2	88.6	108.1	116.7
51.9	10°	49.7	45.4	43.2	41.1	41.1	45.4	56.2	75.6	97.3	105.9
43.2	12.5°	41.1	34.6	30.3	28.1	25.9	32.4	43.2	60.5	84.3	95.1
32.4	15°	28.1	21.6	15.1	13.0	10.8	17.3	28.1	47.5	71.3	84.3
17.3	17.5°	15.1	6.5	2.2	0.0	0.0	4.3	13.0	34.6	58.4	69.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.3	43.2	54.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	25.9	36.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	19.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
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	6.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	17.3
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°
125.3	0°	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3
149.1	2.5°	153.4	151.3	147.0	142.6	142.6	142.6	149.1	155.6	162.1	162.1
134.0	5°	142.6	142.6	140.5	136.2	136.2	138.3	147.0	157.8	166.4	168.6
123.2	7.5°	131.8	136.2	131.8	129.7	131.8	134.0	142.6	155.6	168.6	172.9
114.5	10°	125.3	127.5	127.5	125.3	125.3	129.7	138.3	155.6	172.9	179.4
103.7	12.5°	116.7	121.0	118.9	118.9	118.9	123.2	134.0	153.4	177.2	185.9
92.9	15°	108.1	114.5	114.5	112.4	112.4	114.5	129.7	151.3	183.7	198.8
80.0	17.5°	99.4	105.9	108.1	103.7	103.7	108.1	123.2	151.3	188.0	214.0
64.8	20°	82.1	92.9	99.4	92.9	92.9	97.3	112.4	142.6	190.2	229.1
47.5	22.5°	64.8	75.6	84.3	82.1	82.1	84.3	103.7	136.2	192.3	255.0
28.1	25°	47.5	58.4	64.8	69.2	69.2	75.6	95.1	131.8	201.0	309.0
13.0	27.5°	28.1	41.1	49.7	54.0	56.2	64.8	88.6	127.5	216.1	386.8
0.0	30°	13.0	23.8	34.6	43.2	43.2	58.4	82.1	123.2	235.6	499.2
0.0	32.5°	0.0	10.8	17.3	30.3	32.4	47.5	75.6	118.9	263.7	607.3
0.0	35°	0.0	0.0	8.6	23.8	23.8	38.9	69.2	114.5	306.9	689.4
0.0	37.5°	0.0	0.0	0.0	17.3	19.5	34.6	67.0	112.4	315.5	695.9
0.0	40°	0.0	0.0	0.0	13.0	15.1	32.4	67.0	114.5	285.3	680.8
0.0	42.5°	0.0	0.0	0.0	8.6	10.8	32.4	67.0	118.9	257.2	698.0
0.0	45°	0.0	0.0	0.0	6.5	8.6	34.6	64.8	116.7	242.0	788.8
0.0	47.5°	0.0	0.0	0.0	8.6	13.0	34.6	62.7	114.5	244.2	1089.2
0.0	50°	0.0	0.0	0.0	10.8	15.1	34.6	64.8	110.2	268.0	1674.9
0.0	52.5°	0.0	0.0	0.0	8.6	13.0	38.9	71.3	108.1	291.8	2178.4
0.0	55°	0.0	0.0	0.0	2.2	6.5	49.7	77.8	108.1	328.5	2303.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	56.2	88.6	114.5	389.0	2254.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	56.2	90.8	114.5	393.3	2210.8
0.0	60°	0.0	0.0	0.0	0.0	0.0	56.2	99.4	127.5	423.6	1968.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	47.5	118.9	159.9	440.9	1547.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	38.9	140.5	175.1	453.8	1231.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	36.7	144.8	177.2	460.3	981.1
0.0	70°	0.0	0.0	0.0	0.0	0.0	38.9	142.6	190.2	481.9	797.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	43.2	129.7	209.6	481.9	706.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	45.4	121.0	235.6	438.7	611.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	43.2	118.9	274.5	391.2	503.5
0.0	80°	4.3	6.5	6.5	4.3	4.3	36.7	116.7	278.8	332.8	345.8
2.2	82.5°	13.0	17.3	15.1	10.8	10.8	32.4	103.7	233.4	172.9	149.1
13.0	85°	23.8	28.1	28.1	23.8	23.8	30.3	64.8	84.3	58.4	47.5
23.8	87.5°	32.4	36.7	36.7	32.4	32.4	30.3	28.1	25.9	23.8	23.8
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: SP1-2407-184-7

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-757-U-5WQ

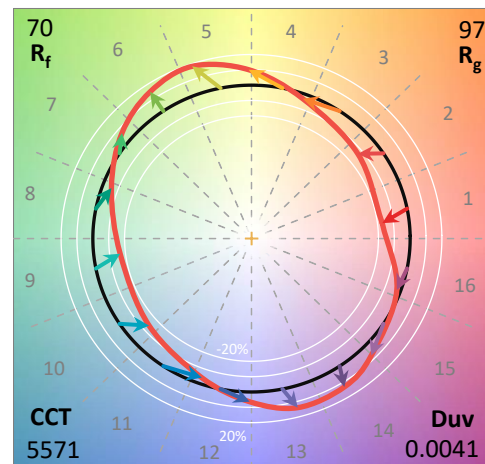
Data in this report applies to families of products including GSS-SB1A-757-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-7
 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-757-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5700K CCT 26 LEDS

Spectral Parameters

CCT (K):	5571	CRI (Ra):	69.9		
CIE u':	0.2033	R1:	68.8	R9:	-35.4
CIE v':	0.4806	R2:	72.5	R10:	36.7
Duv:	0.0041	R3:	76.8	R11:	73.9
CIE x:	0.3308	R4:	72.0	R12:	47.8
CIE y:	0.3476	R5:	70.9	R13:	68.0
CIE z:	0.3216	R6:	65.6	R14:	87.0
Peak Wavelength (nm):	442	R7:	75.5	R15:	59.8
Dominant Wavelength (nm):	544	R8:	56.8		
Purity:	3.635698				
Rf:	70.4				
Rg:	97.1				



Test Conditions

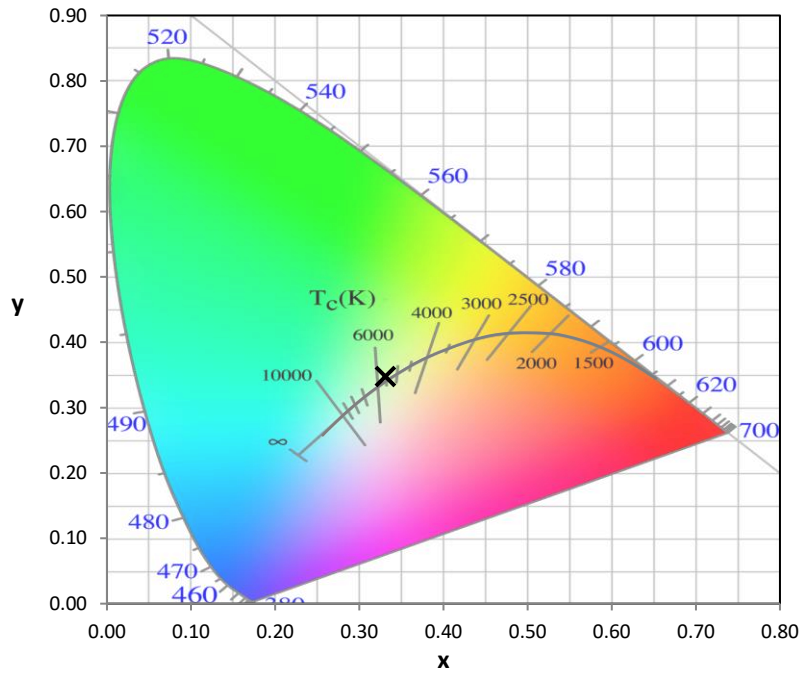
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-7

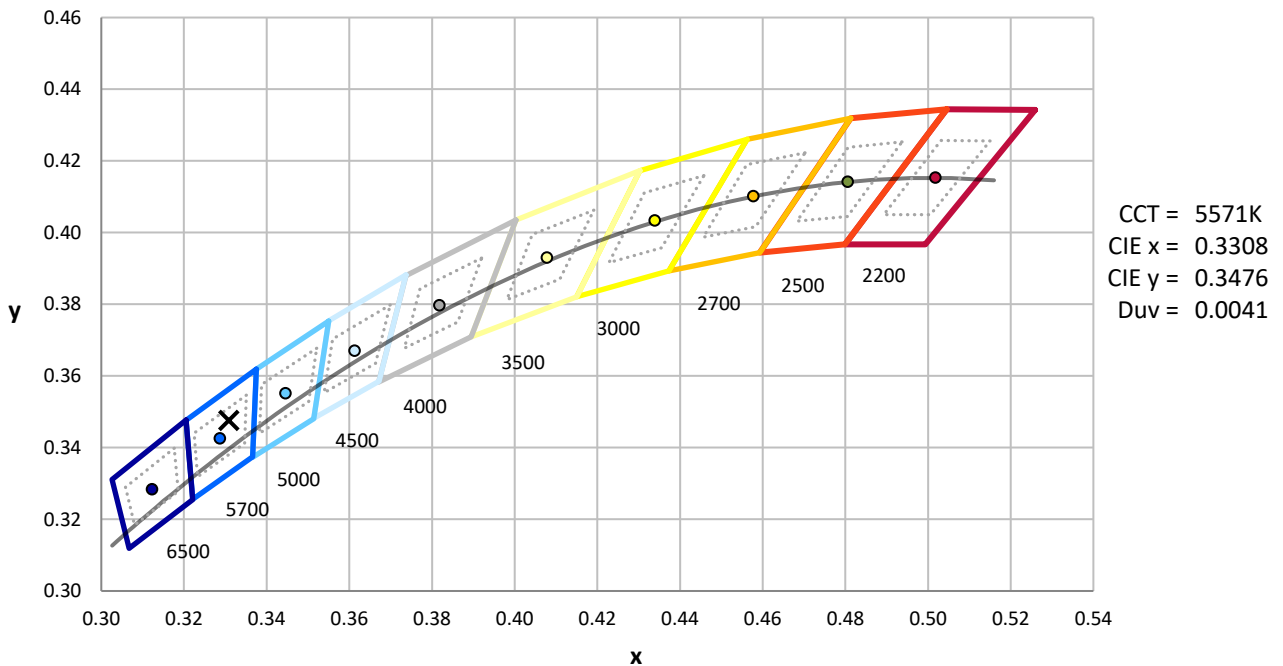
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



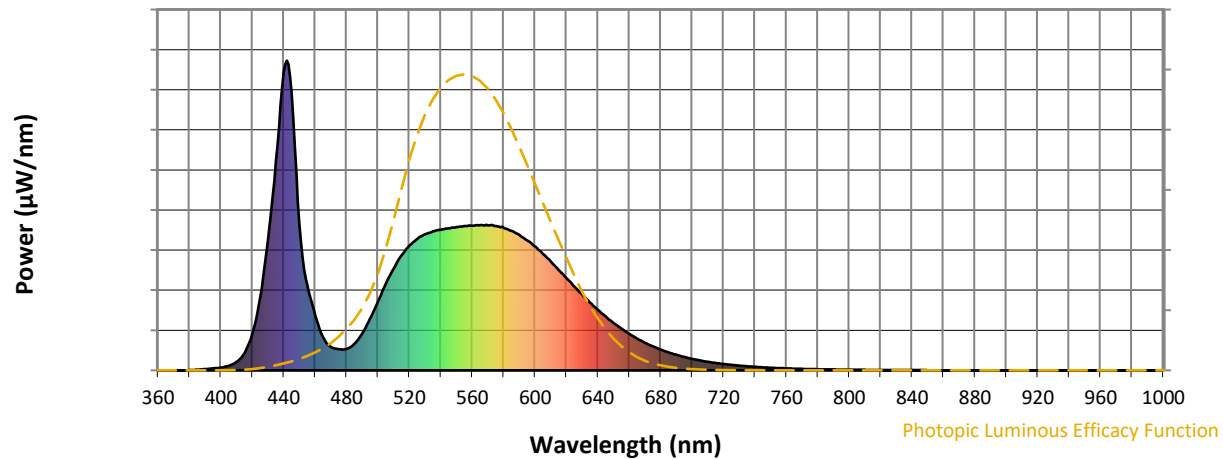
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-7

Photopic Flux vs. Wavelength

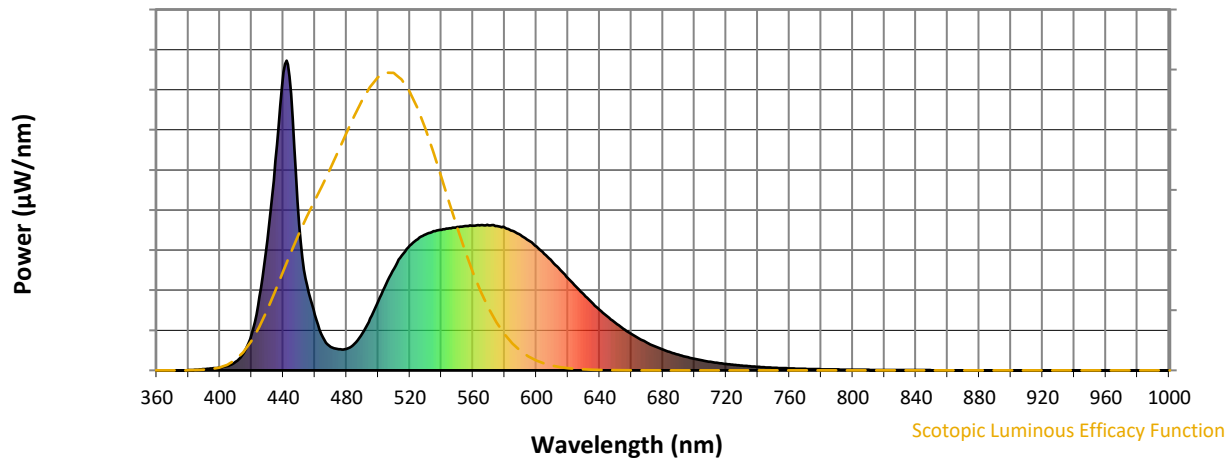


Photopic Lumens: NR

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	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-7

Scotopic Flux vs. Wavelength



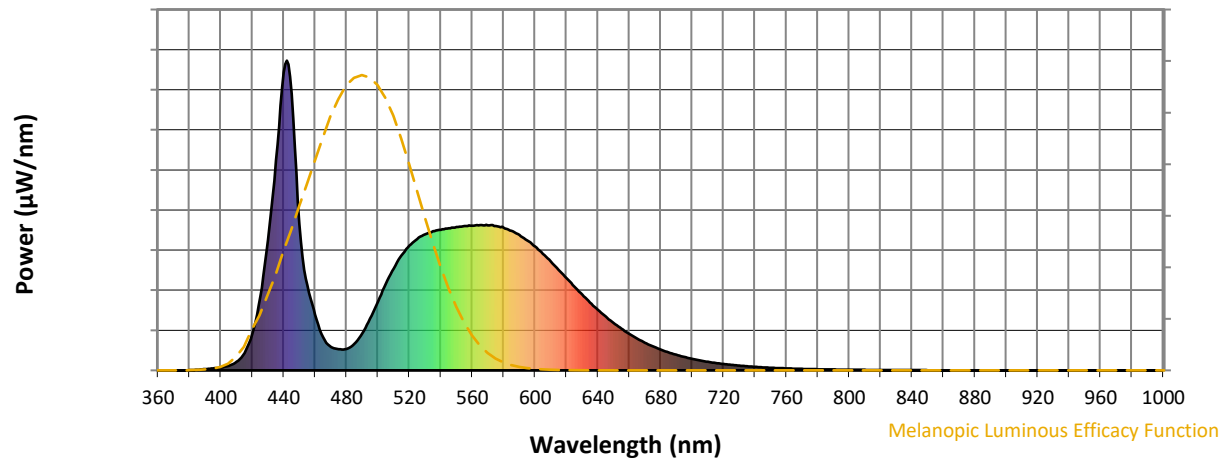
Scotopic Lumens: NR

S/P: 1.84

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	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.71

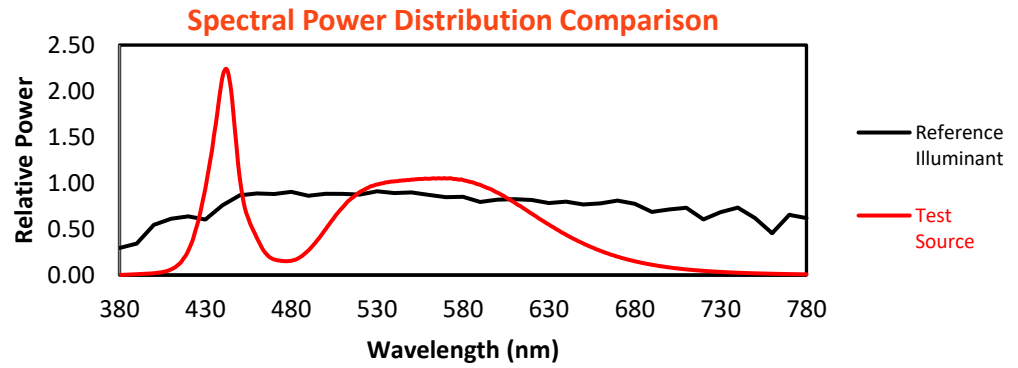
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-7

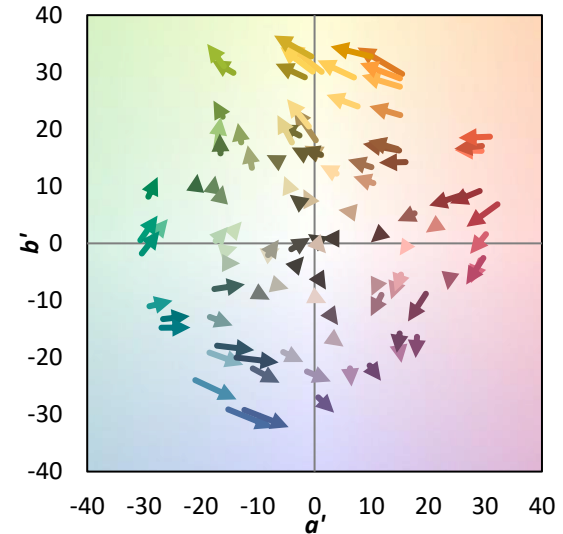
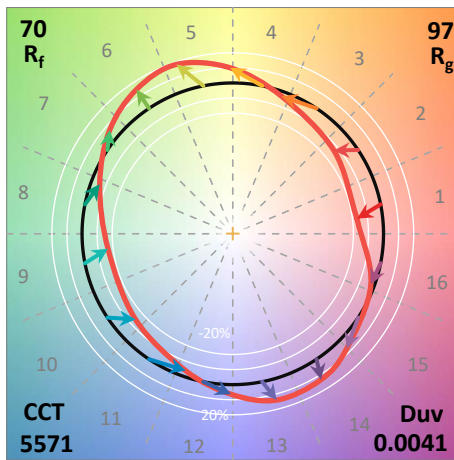
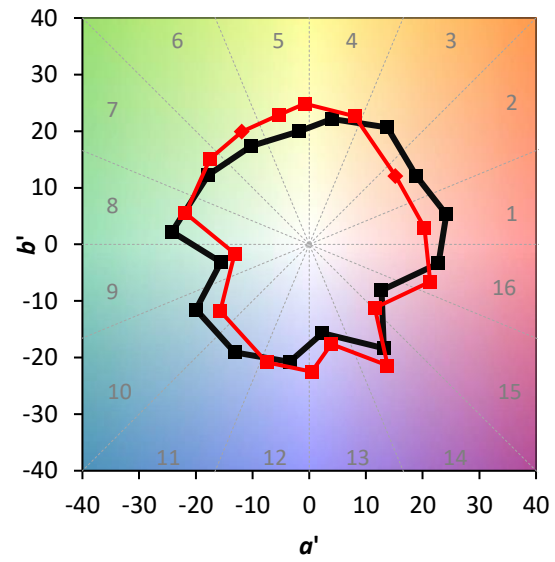
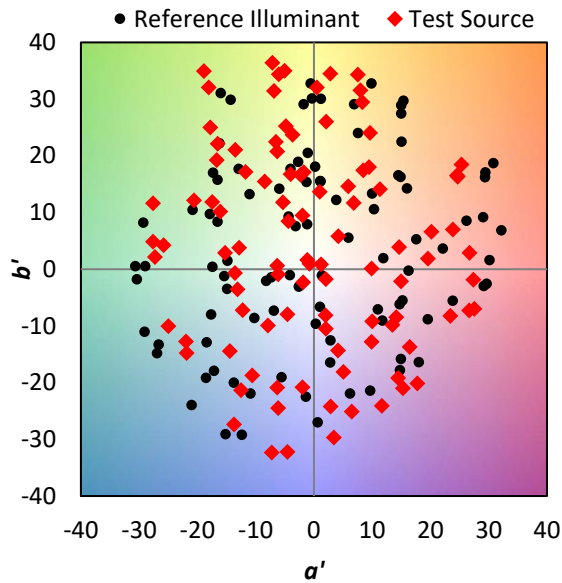
TM-30-18

Summary

$R_f = 70.4$
 $R_g = 97.1$
 $CIE R_a = 69.9$
 $R_g = -35.4$

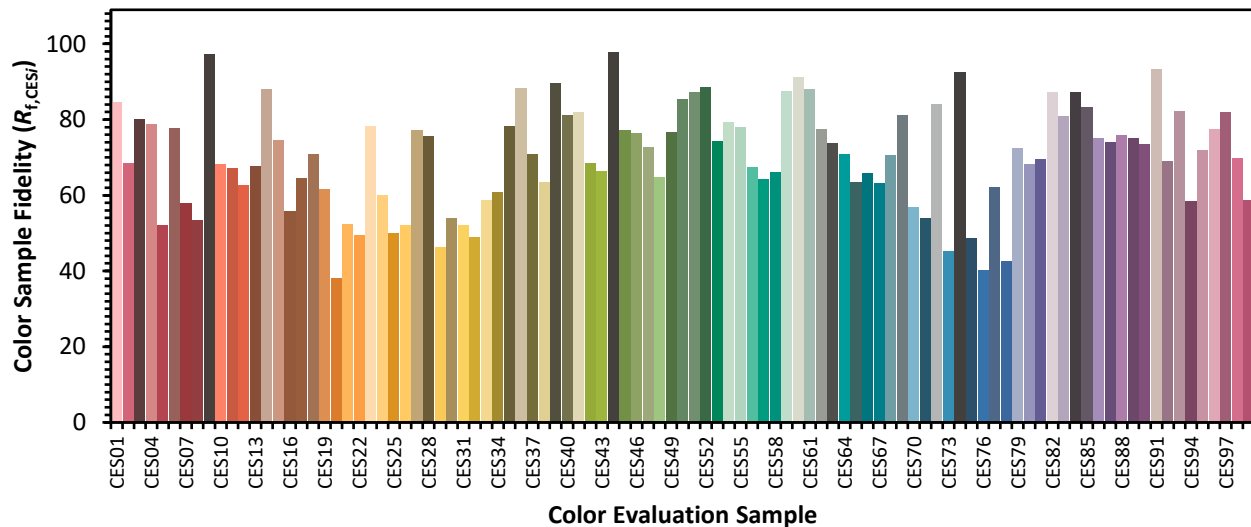


Color Vector Graphics

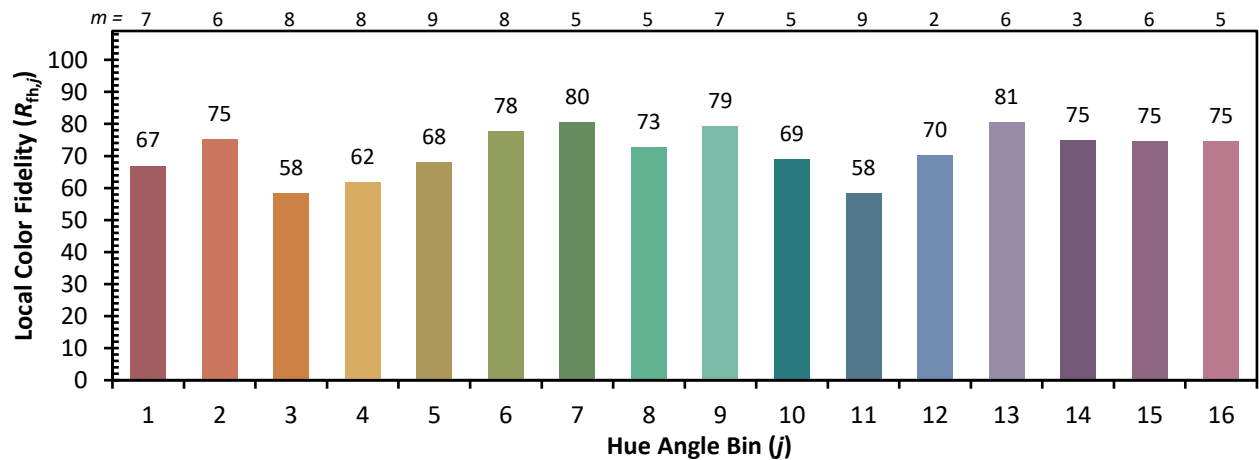
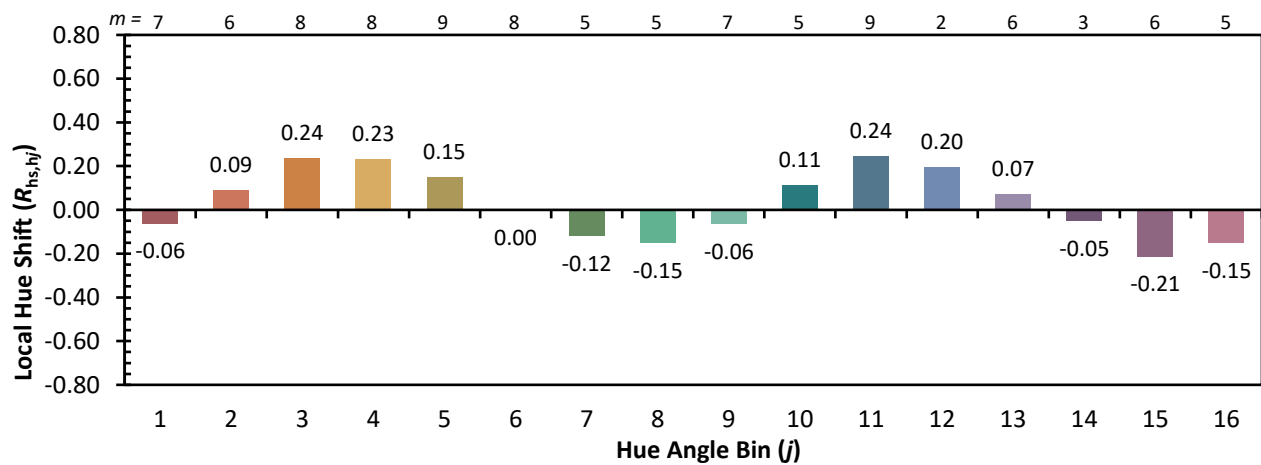
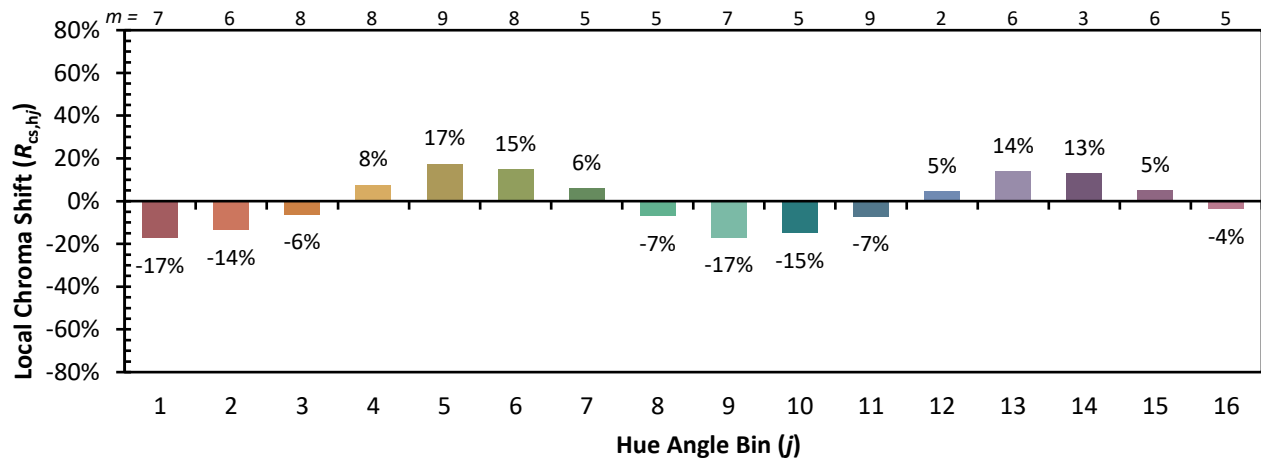


Individual Sample Fidelity Index ($R_{f,i}$)

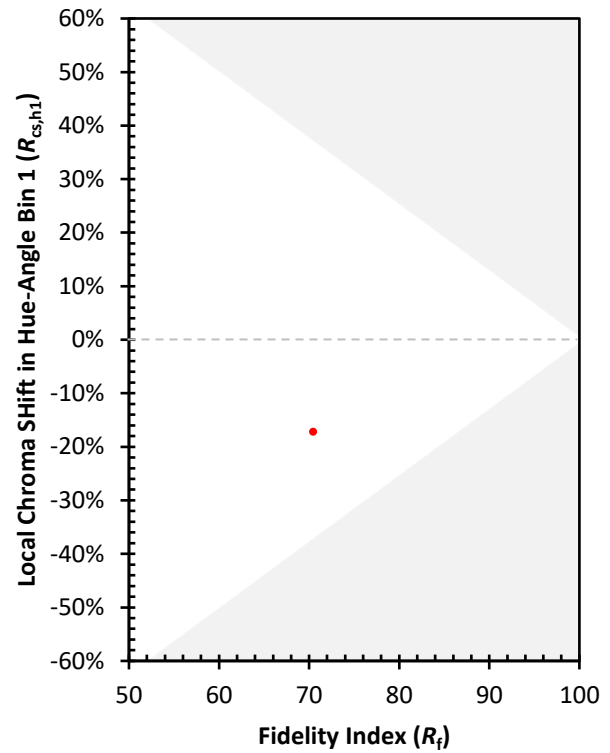
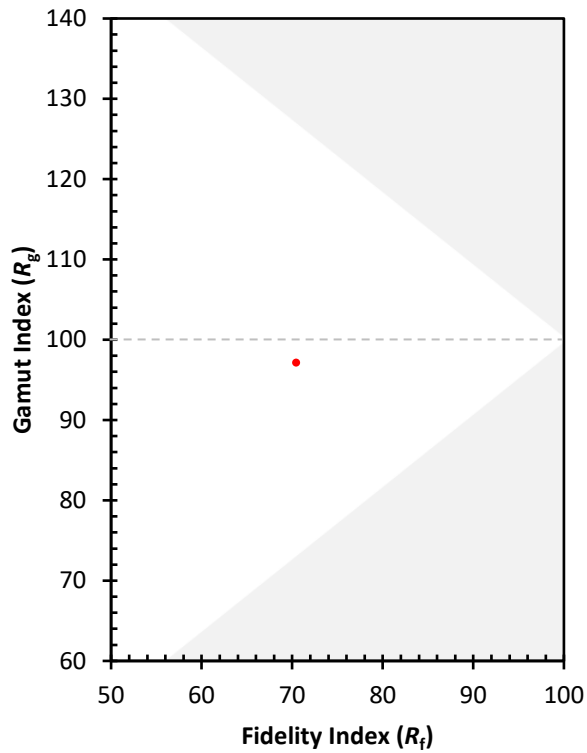
CES01 = 85	CES26 = 52	CES51 = 87	CES76 = 40
CES02 = 59	CES27 = 77	CES52 = 88	CES77 = 62
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 43
CES04 = 68	CES29 = 46	CES54 = 79	CES79 = 72
CES05 = 45	CES30 = 54	CES55 = 78	CES80 = 68
CES06 = 49	CES31 = 52	CES56 = 67	CES81 = 70
CES07 = 38	CES32 = 49	CES57 = 64	CES82 = 87
CES08 = 37	CES33 = 59	CES58 = 66	CES83 = 81
CES09 = 29	CES34 = 61	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 78	CES60 = 91	CES85 = 83
CES11 = 55	CES36 = 88	CES61 = 88	CES86 = 75
CES12 = 61	CES37 = 71	CES62 = 77	CES87 = 74
CES13 = 41	CES38 = 64	CES63 = 74	CES88 = 76
CES14 = 74	CES39 = 90	CES64 = 71	CES89 = 75
CES15 = 70	CES40 = 81	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 82	CES66 = 66	CES91 = 93
CES17 = 48	CES42 = 69	CES67 = 63	CES92 = 69
CES18 = 55	CES43 = 67	CES68 = 71	CES93 = 82
CES19 = 70	CES44 = 98	CES69 = 81	CES94 = 58
CES20 = 63	CES45 = 77	CES70 = 57	CES95 = 72
CES21 = 85	CES46 = 76	CES71 = 54	CES96 = 78
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 45	CES98 = 70
CES24 = 90	CES49 = 77	CES74 = 92	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)