

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: P1049782

Luminaire Tested: **GALN-SA9B-830-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049782
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 9xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32483.4 lumens
Efficiency: N/A
Efficacy: 103.9 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): 312.7
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

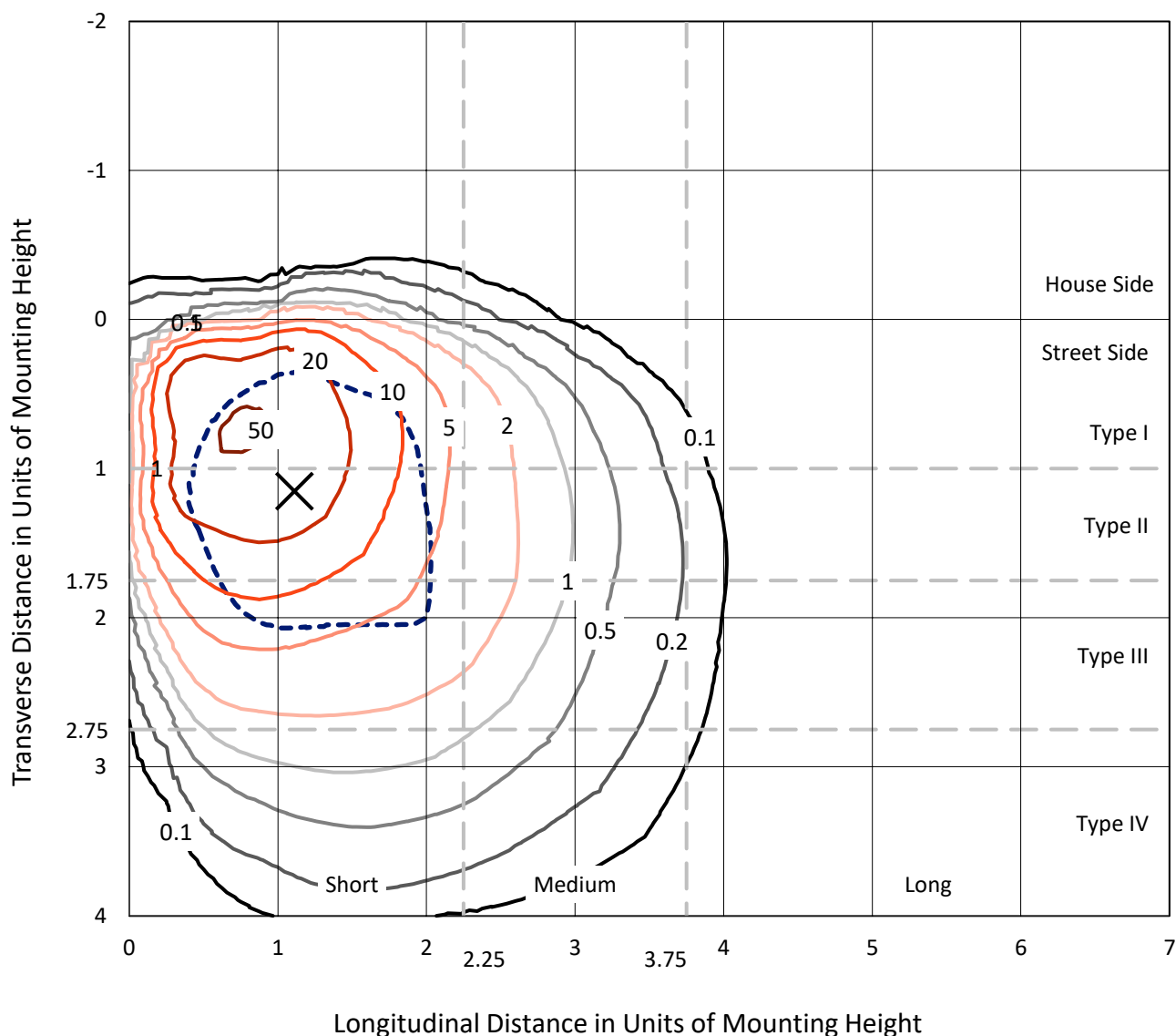
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

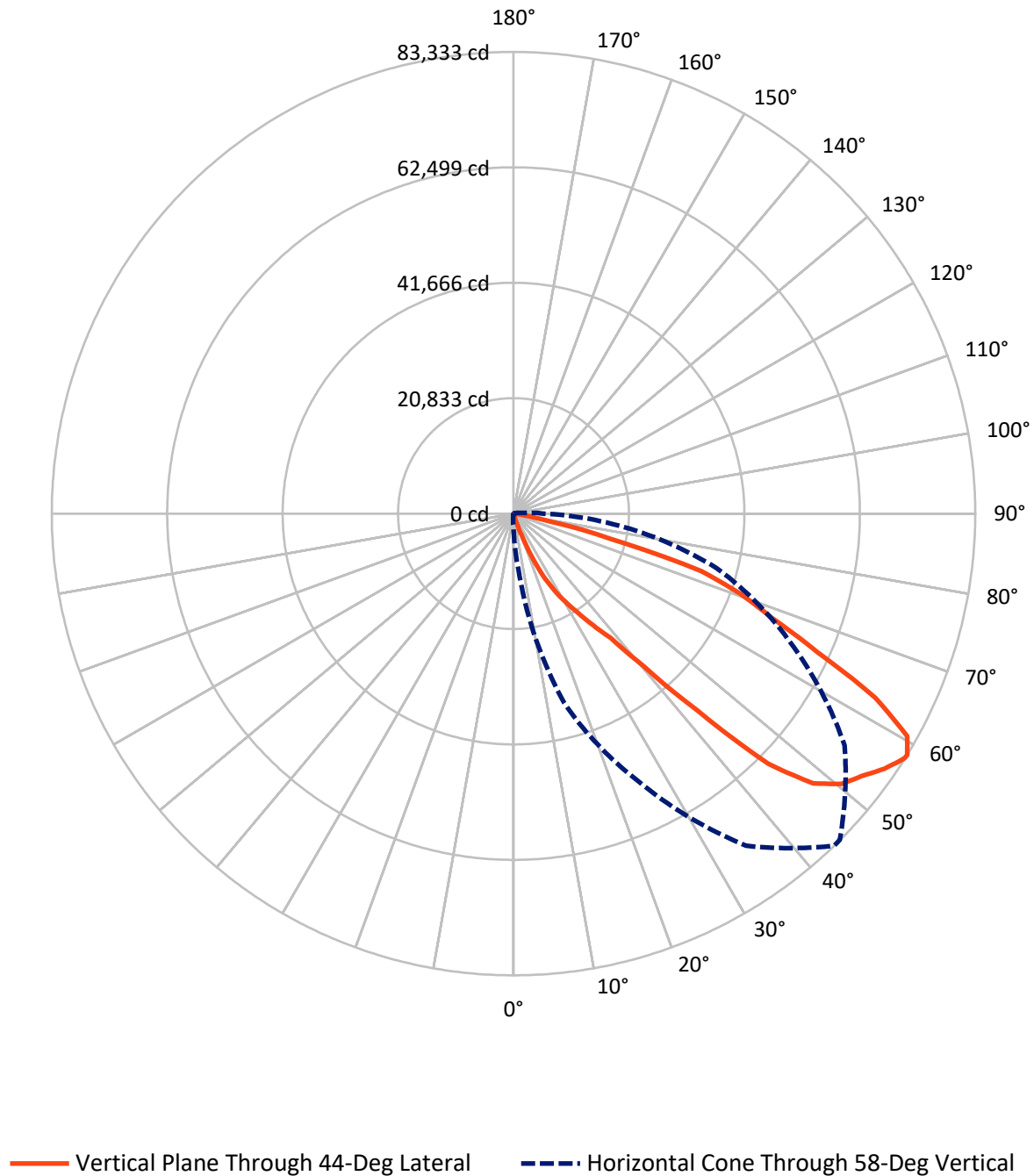


Based on 20 foot mounting height. Maximum calculated value = 56.5 fc

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	221.8	0.0	221.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	32261.6	0.0	32261.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	32483.4	0.0	32483.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.7	0.0
10°-20°	71.2	0.2
20°-30°	769.5	2.4
30°-40°	2275.8	7.0
40°-50°	6783.1	20.9
50°-60°	10763.1	33.1
60°-70°	8977.7	27.6
70°-80°	2768.9	8.5
80°-90°	61.5	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°	32483.4	100.0
0°-180°	32483.4	100.0



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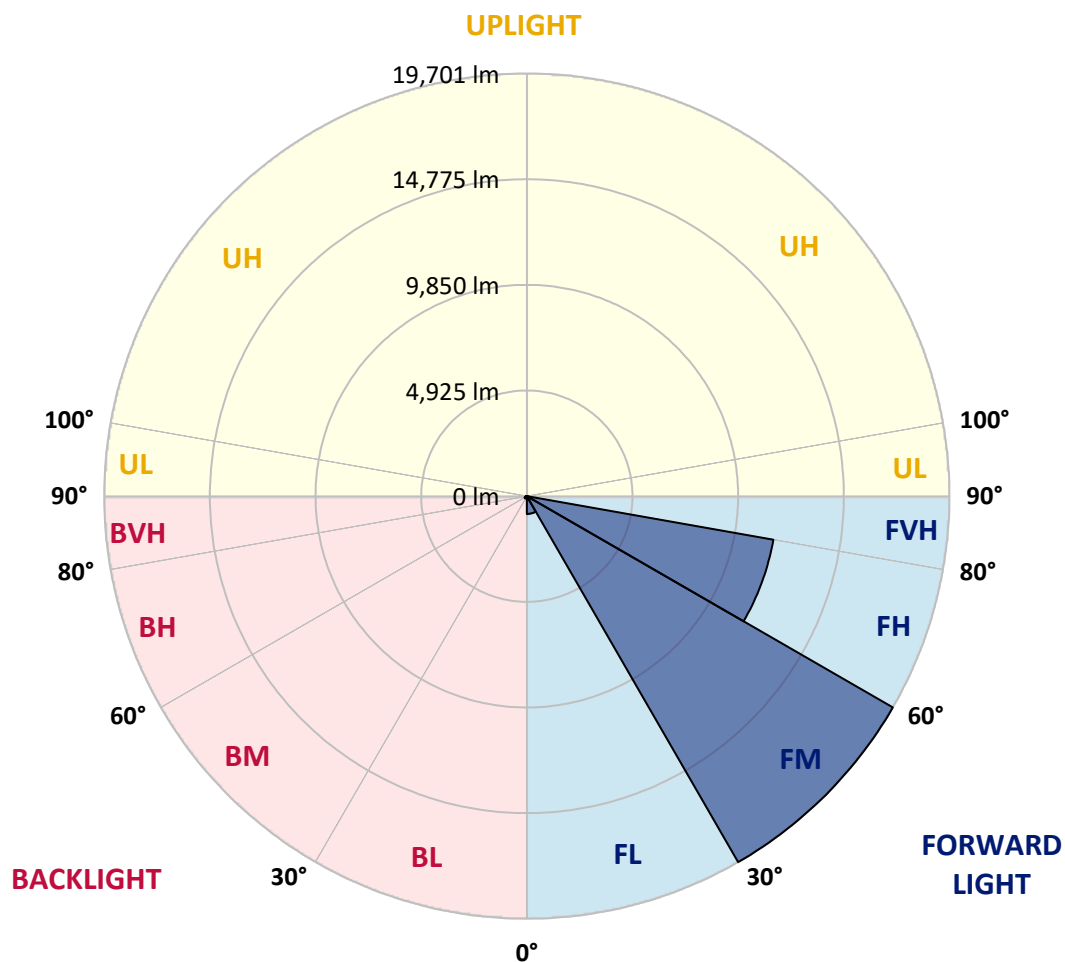
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	831.8	2.6			
FM	(30°-60°)	19700.5	60.6			
FH	(60°-80°)	11670.8	35.9			G4/12000
FVH	(80°-90°)	58.5	0.2			G1/100
BL	(0°-30°)	21.7	0.1	B0/110		
BM	(30°-60°)	121.4	0.4	B0/220		
BH	(60°-80°)	75.7	0.2	B0/110		G0/110
BVH	(80°-90°)	3.0	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°	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3
2.5°	184.0	184.0	176.7	166.9	157.0	147.2	144.8	139.9	137.4	135.0
5°	191.4	191.4	188.9	181.6	171.8	164.4	164.4	157.0	152.1	147.2
7.5°	196.3	198.8	203.7	201.2	196.3	188.9	188.9	184.0	176.7	164.4
10°	203.7	211.0	220.8	225.8	228.2	228.2	225.8	223.3	211.0	193.9
12.5°	211.0	225.8	250.3	274.8	289.6	309.2	306.7	301.8	269.9	233.1
15°	225.8	247.8	299.4	370.5	481.0	549.7	576.7	552.1	446.6	314.1
17.5°	242.9	279.7	434.3	775.4	1271.1	1506.7	1649.0	1533.7	1015.9	596.3
20°	260.1	341.1	807.3	2009.7	3298.0	4068.5	4282.0	3948.2	2534.8	1136.1
22.5°	289.6	478.5	1636.7	4154.4	7106.3	8262.1	8480.5	7413.1	4787.5	2242.8
25°	350.9	694.4	2821.9	6770.2	10605.5	12556.3	12465.5	11066.8	7766.4	3582.6
27.5°	439.2	1011.0	4267.2	9619.1	13957.5	15677.6	15883.7	14153.8	10352.8	5268.4
30°	566.8	1401.1	5818.1	11901.2	16644.4	18504.5	18538.8	16750.0	12666.8	6748.1
32.5°	689.5	1769.2	7175.0	14107.2	19292.1	21331.3	21483.4	19282.3	14394.3	8289.1
35°	782.8	2009.7	8549.2	16045.7	21961.9	24771.6	24761.8	22148.4	16440.8	9665.7
37.5°	790.1	2250.2	9793.3	18028.4	25343.3	28489.2	28800.8	25920.0	18914.2	11368.7
40°	773.0	2520.1	11368.7	21120.3	31436.2	36262.9	36537.8	32906.1	23875.9	14283.8
42.5°	792.6	2988.8	13925.6	26830.4	41553.4	48485.5	49015.6	45197.4	32996.9	20232.0
45°	895.7	3869.7	19282.3	36383.2	55974.7	64425.7	64249.1	58750.0	43609.8	29286.7
47.5°	1236.7	6026.6	27223.0	45680.8	65191.3	72717.3	72869.4	66148.3	49803.3	36248.2
50°	1901.7	9221.6	33895.0	50595.9	69154.3	76704.8	76562.5	68796.0	52156.5	39676.2
52.5°	2473.5	11533.1	37242.0	52320.9	69662.2	78675.2	78665.4	69492.9	52522.1	39970.7
55°	2615.8	11707.3	37269.0	52414.2	70800.8	81254.2	81578.1	71208.2	52995.7	38684.9
57.5°	2559.4	10365.0	35713.3	52954.0	72827.7	83249.2	83266.4	72869.4	54198.1	37897.2
58°	2510.3	10154.0	35399.2	53260.7	73176.1	83332.6	83290.9	72945.5	55177.2	37867.8
60°	2235.5	8816.7	34174.7	54043.5	72658.4	81619.8	81229.7	71284.2	55032.4	37565.9
62.5°	1757.0	6878.1	32969.9	53138.0	67107.8	73328.3	73490.2	63110.5	50168.9	35806.5
65°	1398.7	5126.1	30457.1	46610.8	55260.6	60217.4	60821.0	51319.7	41874.9	30319.7
67.5°	1114.0	3705.3	25549.4	37109.5	43727.5	50257.2	50696.5	43087.1	32442.3	23230.6
70°	905.5	2505.4	17635.8	27139.5	36066.6	43408.5	43435.5	35794.3	24214.6	15221.2
72.5°	802.4	1734.9	10237.4	19792.7	29244.9	35372.2	34658.1	29046.2	18610.0	9015.4
75°	694.4	1150.9	5020.6	12099.9	17731.5	17851.7	18124.1	13474.1	9302.5	4286.9
77.5°	571.7	817.1	1977.8	3305.3	5317.5	6807.0	7059.7	5349.4	3094.3	1055.2
80°	392.6	387.7	532.5	1013.4	1521.4	1906.6	1779.0	1376.6	809.8	404.9
82.5°	169.3	184.0	240.5	289.6	235.6	228.2	218.4	139.9	108.0	83.4
85°	54.0	49.1	51.5	51.5	41.7	31.9	31.9	14.7	0.0	0.0
87.5°	27.0	22.1	22.1	19.6	12.3	4.9	2.5	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°
142.3	0°	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3
132.5	2.5°	130.1	130.1	125.1	120.2	117.8	112.9	110.4	108.0	105.5	103.1
142.3	5°	137.4	135.0	127.6	120.2	112.9	105.5	100.6	95.7	90.8	88.3
157.0	7.5°	149.7	144.8	130.1	117.8	108.0	98.2	93.2	85.9	81.0	73.6
174.2	10°	164.4	154.6	135.0	120.2	105.5	93.2	85.9	78.5	71.2	61.3
198.8	12.5°	184.0	166.9	142.3	117.8	100.6	85.9	78.5	68.7	61.3	54.0
230.7	15°	201.2	179.1	144.8	117.8	95.7	78.5	68.7	58.9	51.5	41.7
289.6	17.5°	225.8	188.9	142.3	110.4	88.3	68.7	58.9	51.5	39.3	24.5
429.4	20°	267.5	196.3	137.4	103.1	76.1	56.4	44.2	34.4	17.2	4.9
645.4	22.5°	333.7	215.9	132.5	93.2	66.3	44.2	29.4	12.3	0.0	0.0
981.5	25°	461.3	250.3	132.5	88.3	58.9	31.9	9.8	0.0	0.0	0.0
1393.8	27.5°	613.5	296.9	132.5	76.1	46.6	17.2	0.0	0.0	0.0	0.0
1899.3	30°	768.1	348.4	132.5	66.3	36.8	2.5	0.0	0.0	0.0	0.0
2338.5	32.5°	915.3	392.6	135.0	56.4	24.5	0.0	0.0	0.0	0.0	0.0
2947.1	35°	1065.0	400.0	132.5	49.1	14.7	0.0	0.0	0.0	0.0	0.0
3693.0	37.5°	1256.4	385.3	125.1	44.2	7.4	0.0	0.0	0.0	0.0	0.0
4858.6	40°	1545.9	392.6	117.8	41.7	2.5	0.0	0.0	0.0	0.0	0.0
6937.0	42.5°	2080.9	424.5	108.0	41.7	0.0	0.0	0.0	0.0	0.0	0.0
11049.7	45°	3597.3	569.3	98.2	44.2	0.0	0.0	0.0	0.0	0.0	0.0
16588.0	47.5°	5950.6	1023.3	95.7	44.2	0.0	0.0	0.0	0.0	0.0	0.0
19981.7	50°	7594.7	1288.3	100.6	46.6	0.0	0.0	0.0	0.0	0.0	0.0
20406.2	52.5°	7582.4	1435.5	105.5	49.1	9.8	0.0	0.0	0.0	0.0	0.0
18808.7	55°	6740.7	1462.5	112.9	54.0	31.9	0.0	0.0	0.0	0.0	0.0
16163.5	57.5°	5634.0	1334.9	130.1	66.3	58.9	0.0	0.0	0.0	0.0	0.0
15748.8	58°	5437.7	1276.0	135.0	68.7	63.8	0.0	0.0	0.0	0.0	0.0
13660.6	60°	4456.2	1040.4	171.8	85.9	85.9	0.0	0.0	0.0	0.0	0.0
11199.4	62.5°	3077.1	907.9	196.3	110.4	88.3	0.0	0.0	0.0	0.0	0.0
8257.2	65°	2176.6	819.6	213.5	117.8	71.2	0.0	0.0	0.0	0.0	0.0
5867.1	67.5°	1626.9	755.8	235.6	120.2	36.8	0.0	0.0	0.0	0.0	0.0
3680.8	70°	1246.6	709.2	289.6	127.6	9.8	0.0	0.0	0.0	0.0	0.0
2193.7	72.5°	1015.9	655.2	350.9	132.5	0.0	0.0	0.0	0.0	0.0	0.0
1315.3	75°	841.7	591.4	338.6	144.8	0.0	0.0	0.0	0.0	0.0	0.0
701.8	77.5°	559.5	458.9	309.2	144.8	0.0	0.0	0.0	0.0	0.0	0.0
250.3	80°	196.3	181.6	240.5	127.6	0.0	0.0	0.0	0.0	0.0	0.0
51.5	82.5°	29.4	24.5	34.4	44.2	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°
142.3	0°	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3
100.6	2.5°	100.6	100.6	98.2	100.6	100.6	105.5	117.8	135.0	154.6	162.0
85.9	5°	83.4	81.0	78.5	78.5	78.5	85.9	95.7	115.3	137.4	147.2
71.2	7.5°	68.7	66.3	63.8	61.3	61.3	66.3	78.5	100.6	122.7	132.5
58.9	10°	56.4	51.5	49.1	46.6	46.6	51.5	63.8	85.9	110.4	120.2
49.1	12.5°	46.6	39.3	34.4	31.9	29.4	36.8	49.1	68.7	95.7	108.0
36.8	15°	31.9	24.5	17.2	14.7	12.3	19.6	31.9	54.0	81.0	95.7
19.6	17.5°	17.2	7.4	2.5	0.0	0.0	4.9	14.7	39.3	66.3	78.5
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.6	49.1	61.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	29.4	41.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	22.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
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	7.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	19.6
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°
142.3	0°	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3
169.3	2.5°	174.2	171.8	166.9	162.0	162.0	162.0	169.3	176.7	184.0	184.0
152.1	5°	162.0	162.0	159.5	154.6	154.6	157.0	166.9	179.1	188.9	191.4
139.9	7.5°	149.7	154.6	149.7	147.2	149.7	152.1	162.0	176.7	191.4	196.3
130.1	10°	142.3	144.8	144.8	142.3	142.3	147.2	157.0	176.7	196.3	203.7
117.8	12.5°	132.5	137.4	135.0	135.0	135.0	139.9	152.1	174.2	201.2	211.0
105.5	15°	122.7	130.1	130.1	127.6	127.6	130.1	147.2	171.8	208.6	225.8
90.8	17.5°	112.9	120.2	122.7	117.8	117.8	122.7	139.9	171.8	213.5	242.9
73.6	20°	93.2	105.5	112.9	105.5	105.5	110.4	127.6	162.0	215.9	260.1
54.0	22.5°	73.6	85.9	95.7	93.2	93.2	95.7	117.8	154.6	218.4	289.6
31.9	25°	54.0	66.3	73.6	78.5	78.5	85.9	108.0	149.7	228.2	350.9
14.7	27.5°	31.9	46.6	56.4	61.3	63.8	73.6	100.6	144.8	245.4	439.2
0.0	30°	14.7	27.0	39.3	49.1	49.1	66.3	93.2	139.9	267.5	566.8
0.0	32.5°	0.0	12.3	19.6	34.4	36.8	54.0	85.9	135.0	299.4	689.5
0.0	35°	0.0	0.0	9.8	27.0	27.0	44.2	78.5	130.1	348.4	782.8
0.0	37.5°	0.0	0.0	0.0	19.6	22.1	39.3	76.1	127.6	358.3	790.1
0.0	40°	0.0	0.0	0.0	14.7	17.2	36.8	76.1	130.1	323.9	773.0
0.0	42.5°	0.0	0.0	0.0	9.8	12.3	36.8	76.1	135.0	292.0	792.6
0.0	45°	0.0	0.0	0.0	7.4	9.8	39.3	73.6	132.5	274.8	895.7
0.0	47.5°	0.0	0.0	0.0	9.8	14.7	39.3	71.2	130.1	277.3	1236.7
0.0	50°	0.0	0.0	0.0	12.3	17.2	39.3	73.6	125.1	304.3	1901.7
0.0	52.5°	0.0	0.0	0.0	9.8	14.7	44.2	81.0	122.7	331.3	2473.5
0.0	55°	0.0	0.0	0.0	2.5	7.4	56.4	88.3	122.7	373.0	2615.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	63.8	100.6	130.1	441.7	2559.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	63.8	103.1	130.1	446.6	2510.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	63.8	112.9	144.8	481.0	2235.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	54.0	135.0	181.6	500.6	1757.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	44.2	159.5	198.8	515.3	1398.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	41.7	164.4	201.2	522.7	1114.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	44.2	162.0	215.9	547.2	905.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	49.1	147.2	238.0	547.2	802.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	51.5	137.4	267.5	498.1	694.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	49.1	135.0	311.6	444.1	571.7
0.0	80°	4.9	7.4	7.4	4.9	4.9	41.7	132.5	316.5	377.9	392.6
2.5	82.5°	14.7	19.6	17.2	12.3	12.3	36.8	117.8	265.0	196.3	169.3
14.7	85°	27.0	31.9	31.9	27.0	27.0	34.4	73.6	95.7	66.3	54.0
27.0	87.5°	36.8	41.7	41.7	36.8	36.8	34.4	31.9	29.4	27.0	27.0
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



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: SP1-2407-184-9

Test Date: 10/10/2024

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

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

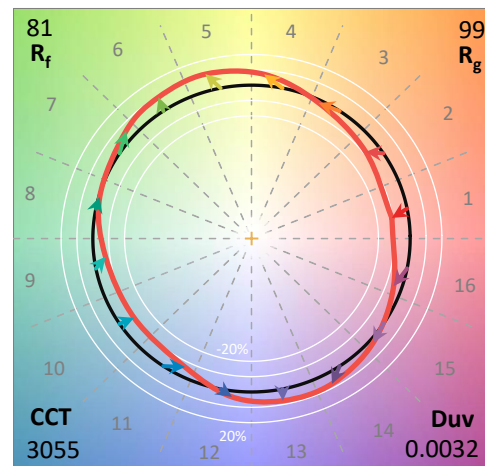
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

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

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



Test Conditions

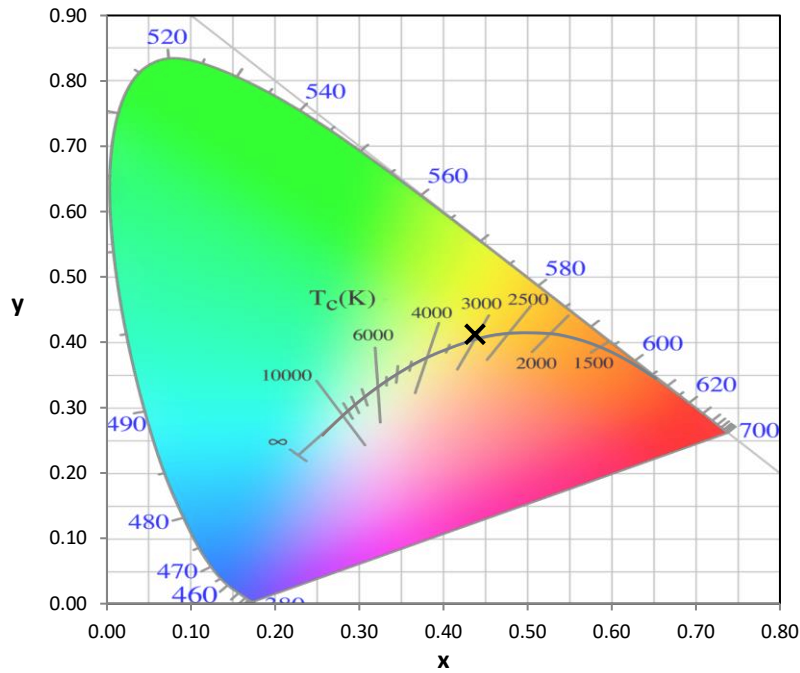
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

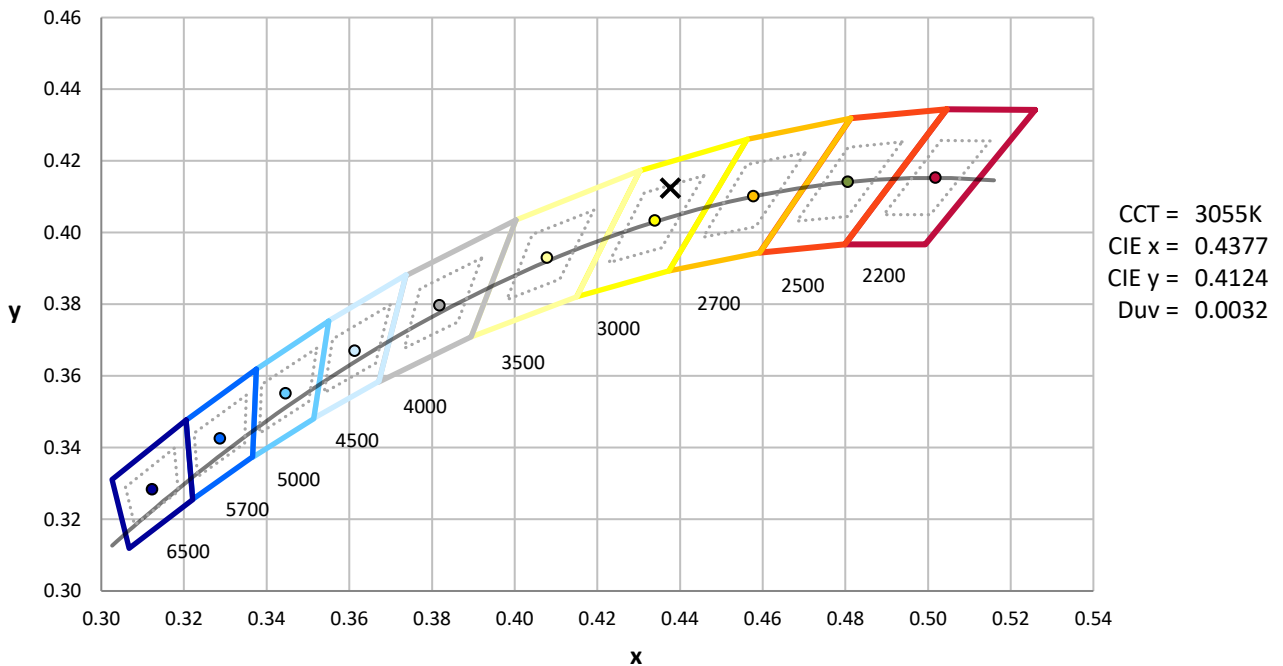
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



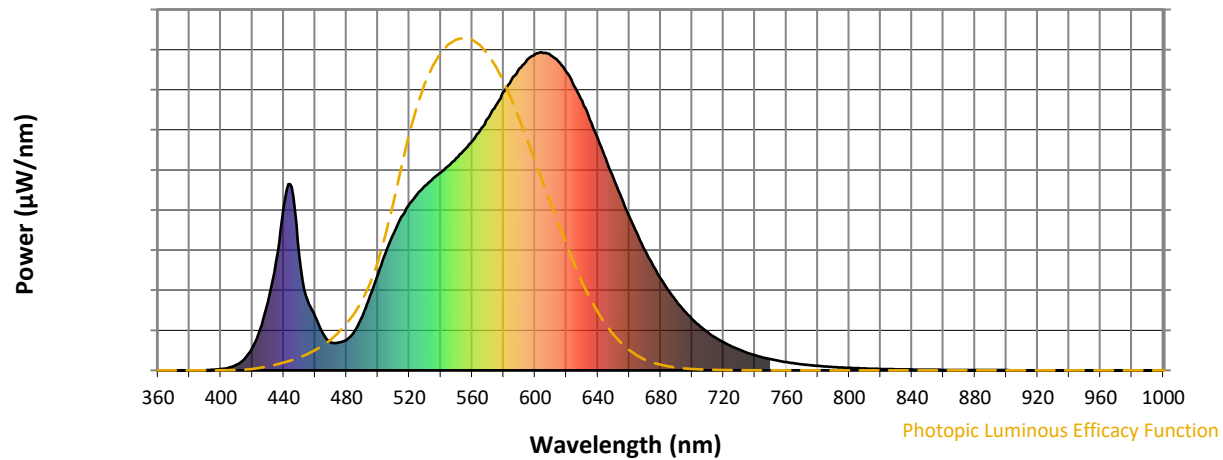
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

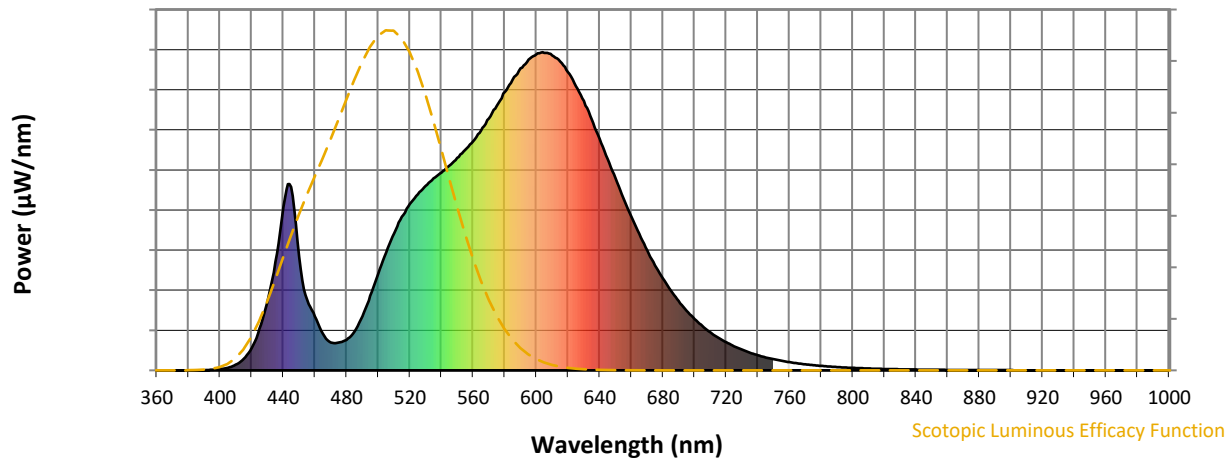


Photopic Lumens: NR

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

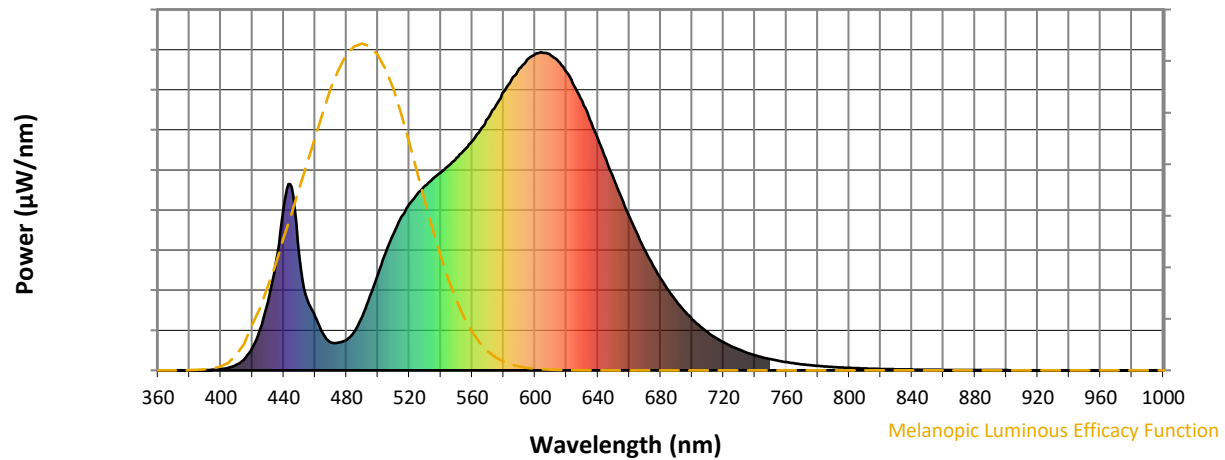
REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.28

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

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Melanopic Flux vs. Wavelength

Melanopic Lumens: NR
M/P: 2.33

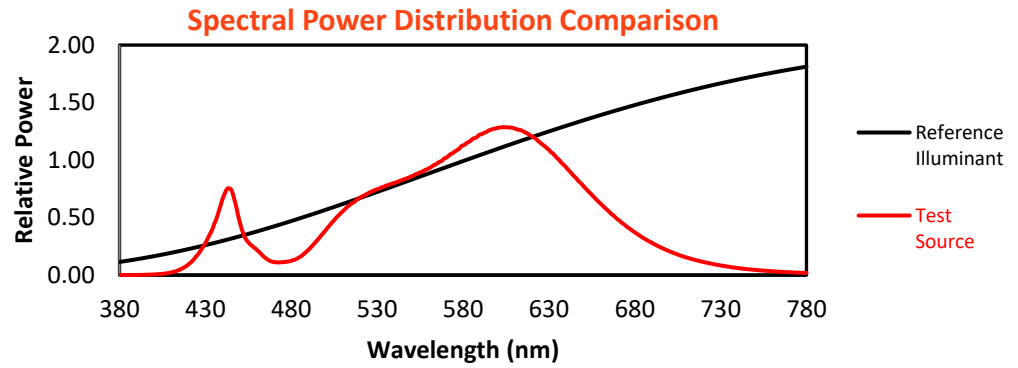
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938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

REPORT NUMBER: SP1-2407-184-9

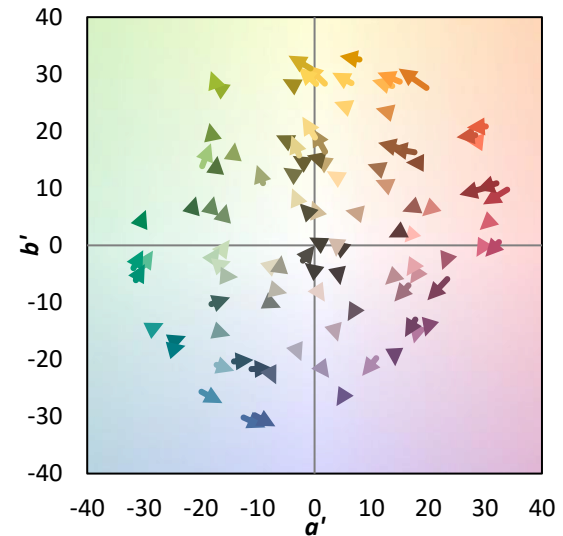
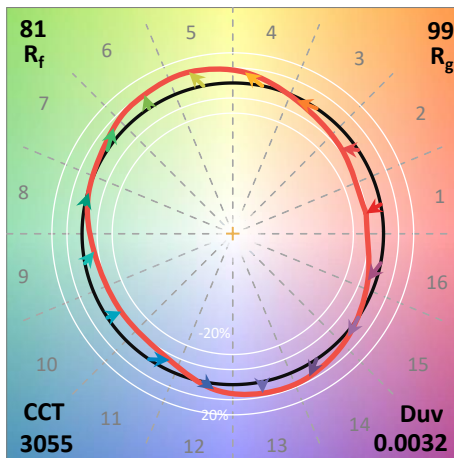
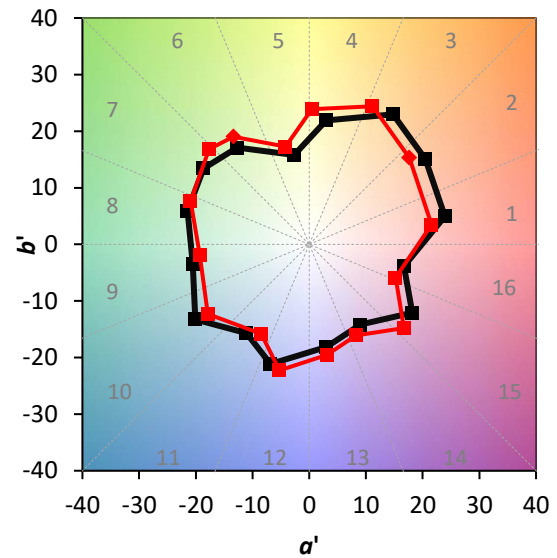
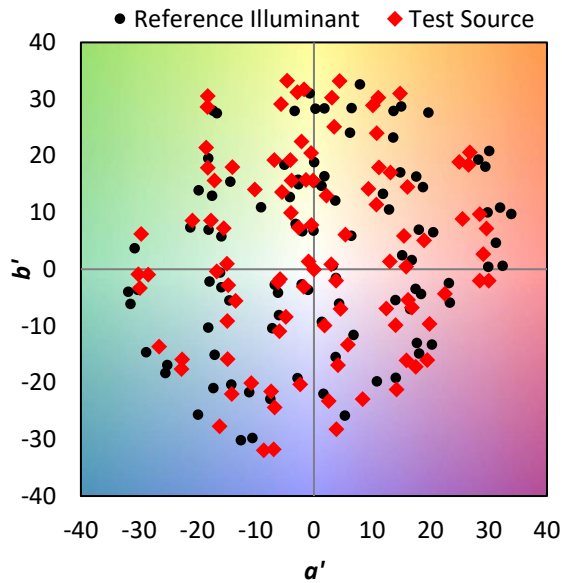
TM-30-18

Summary

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

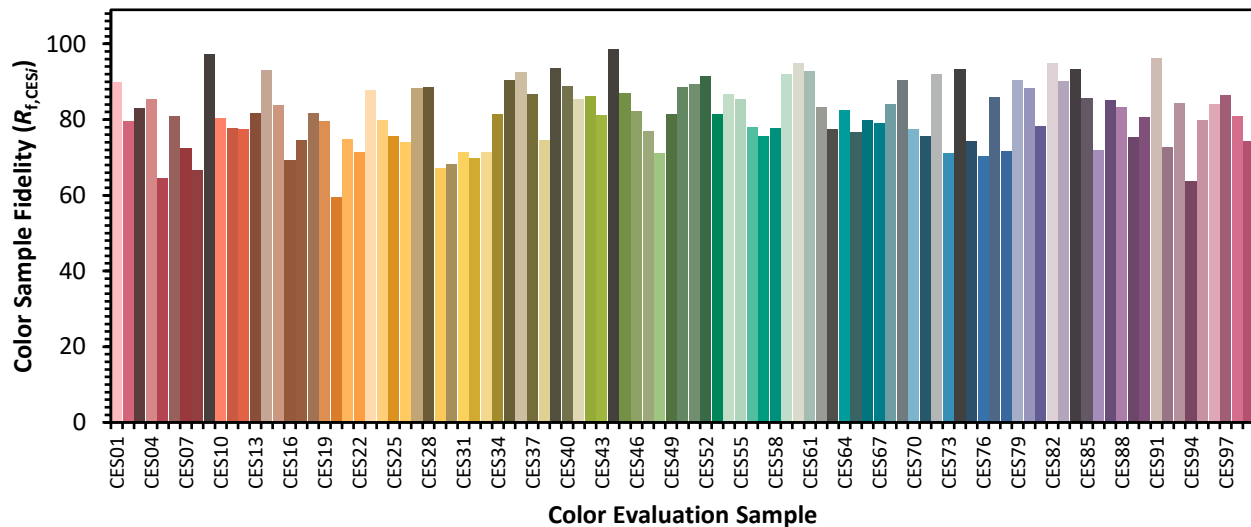


Color Vector Graphics

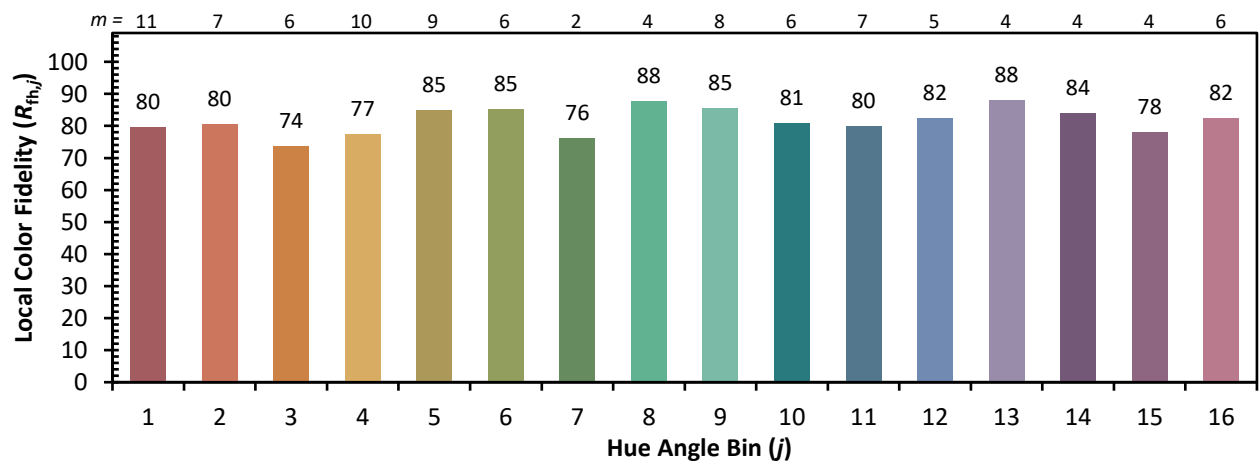
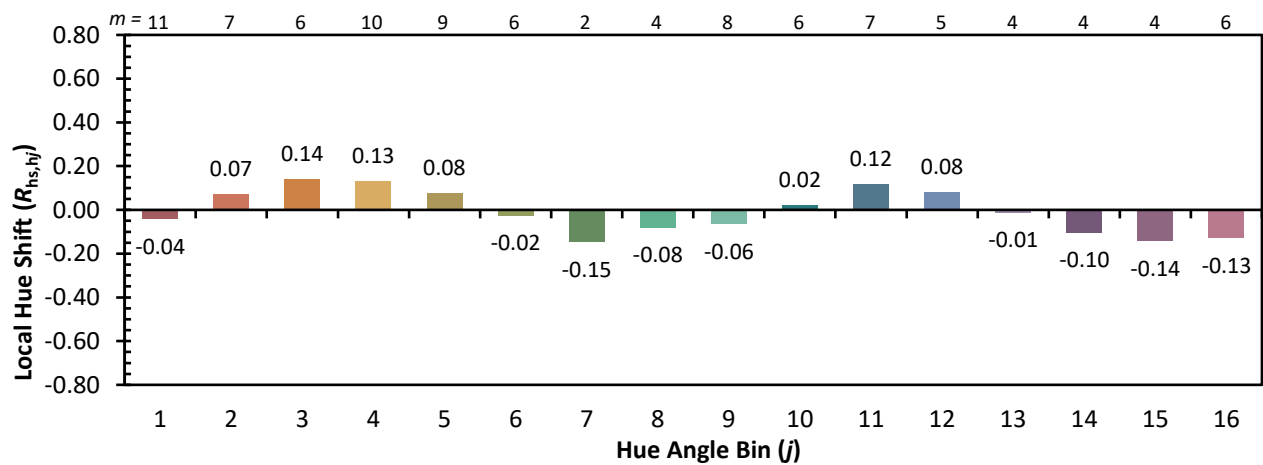
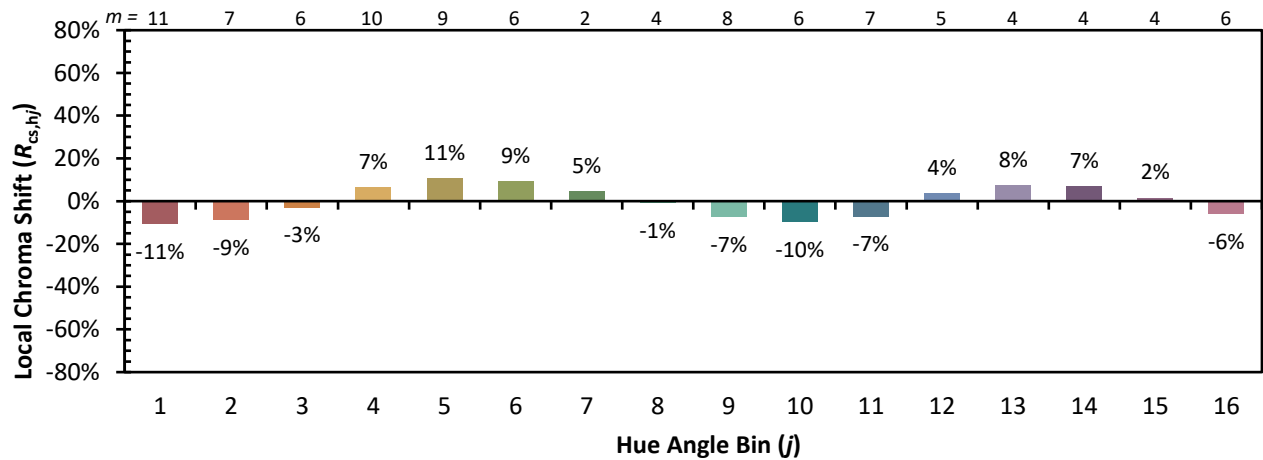


Individual Sample Fidelity Index ($R_{f,i}$)

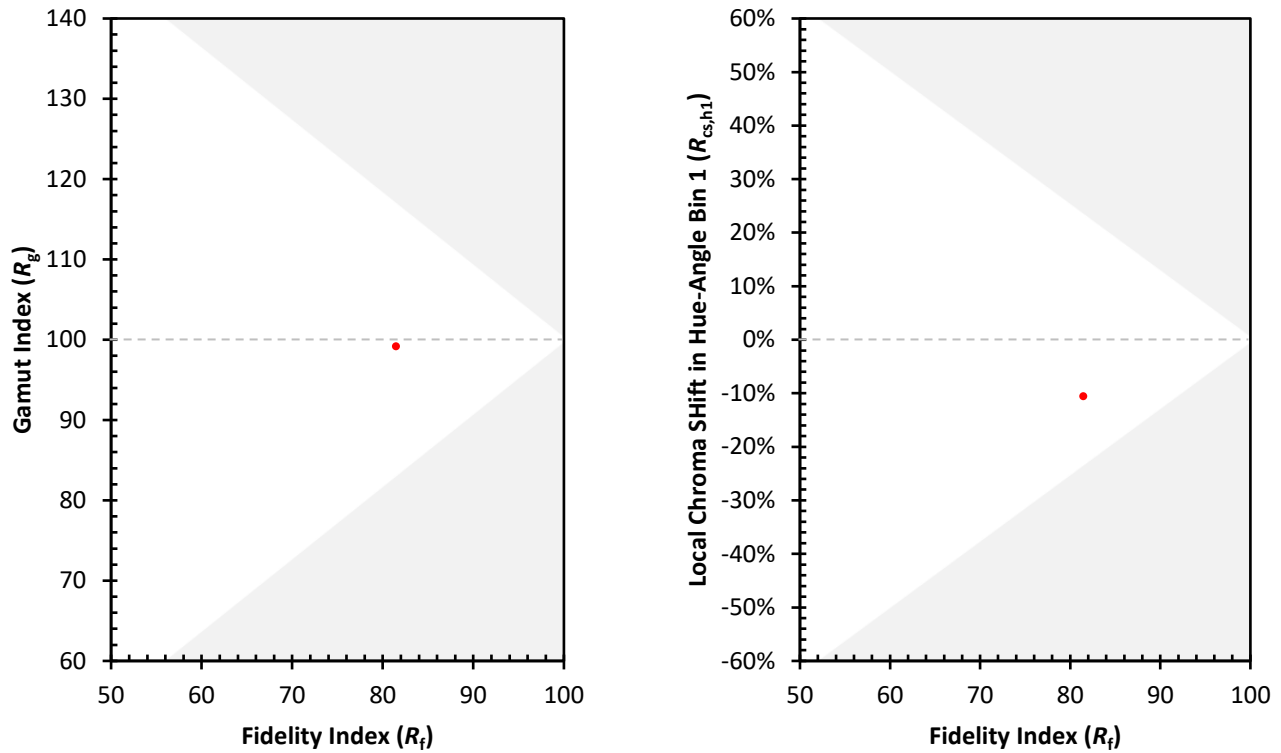
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)