

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: P1049495

Luminaire Tested: **GALN-SA9C-740-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049495
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-740-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 9xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44975.6 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G5

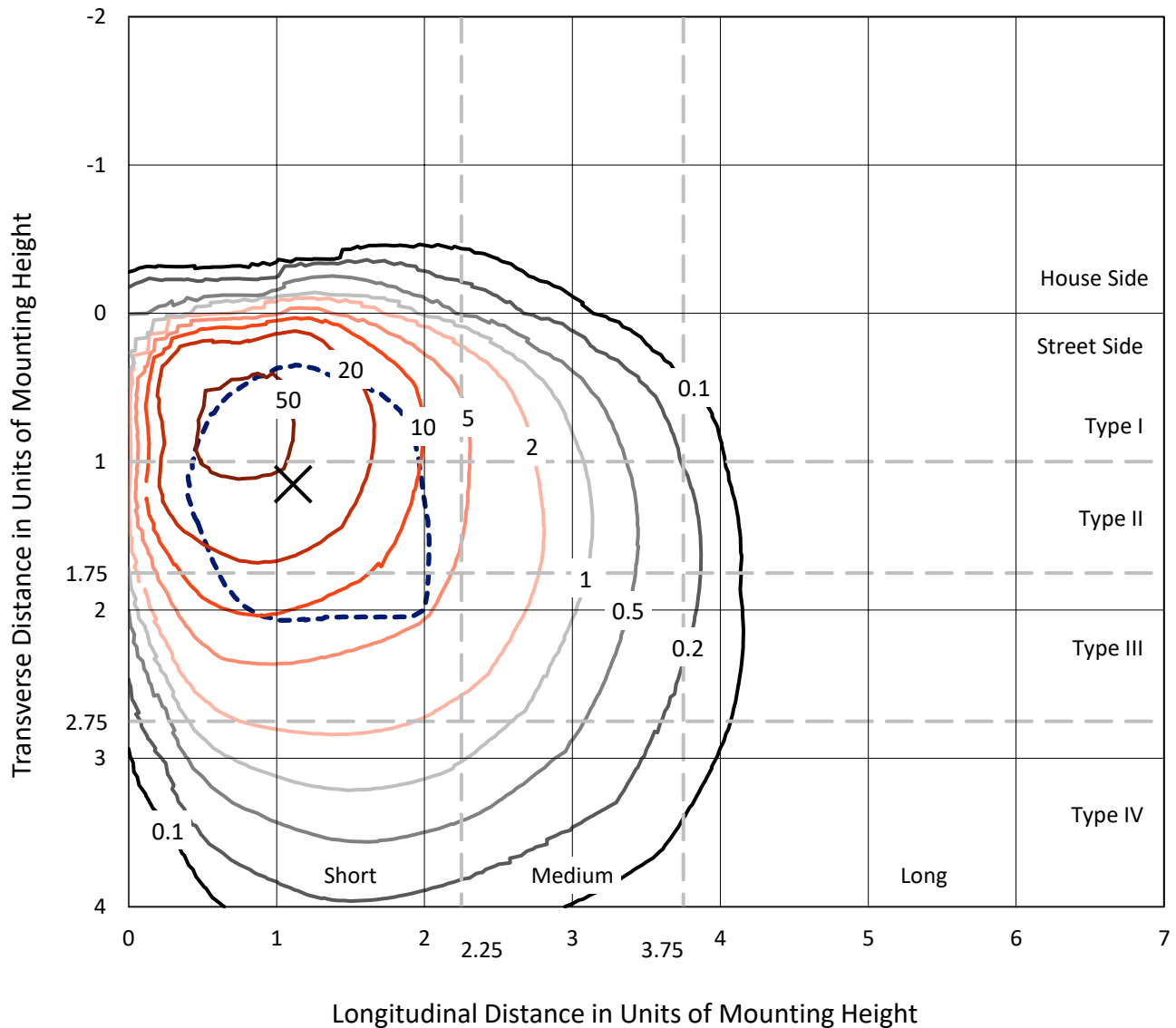
Input Watts (W): 417.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

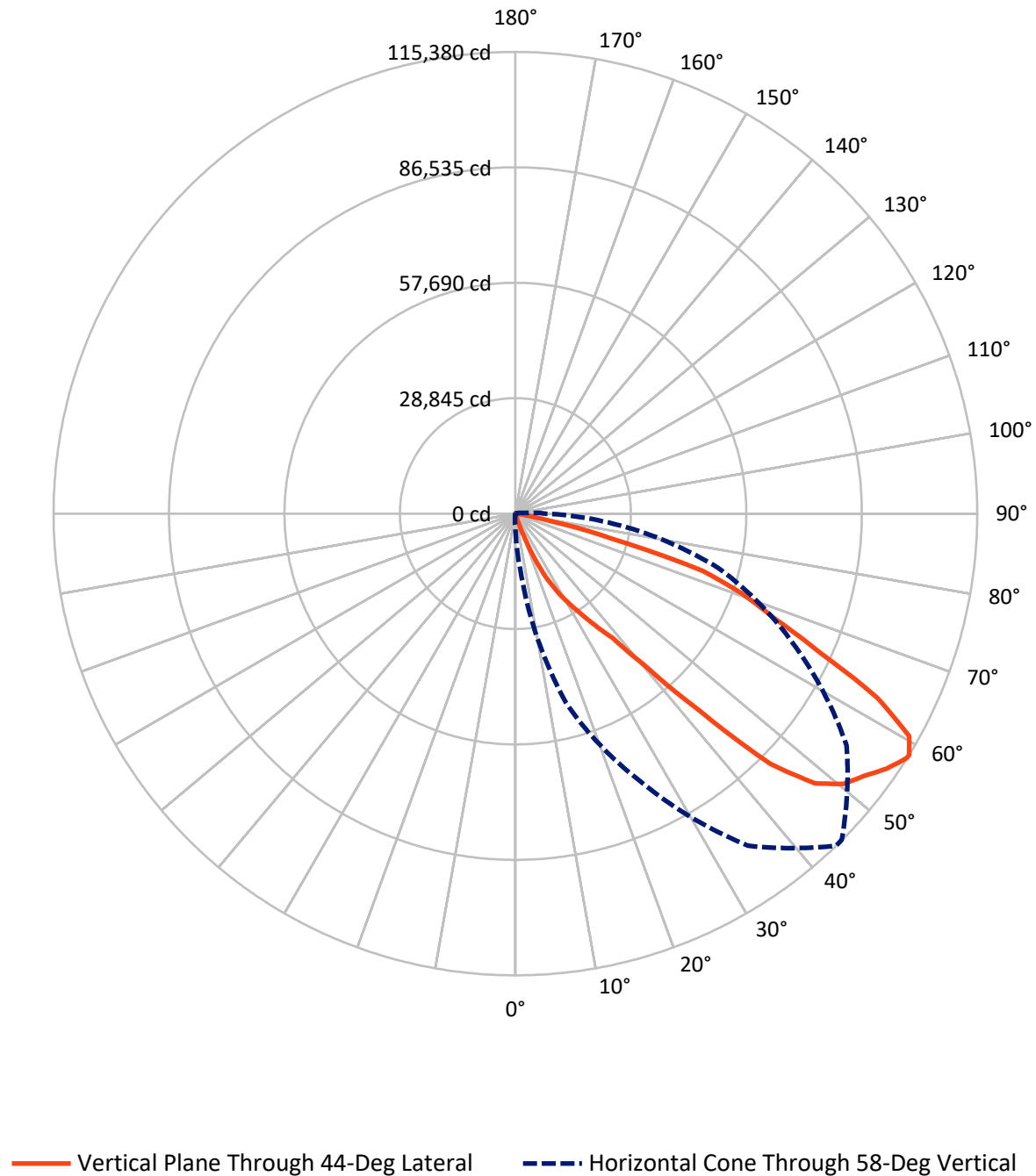
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 78.3 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	307.1	0.0	307.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	44668.5	0.0	44668.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	44975.6	0.0	44975.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.6	0.0
10°-20°	98.6	0.2
20°-30°	1065.5	2.4
30°-40°	3151.0	7.0
40°-50°	9391.6	20.9
50°-60°	14902.2	33.1
60°-70°	12430.2	27.6
70°-80°	3833.7	8.5
80°-90°	85.2	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°	44975.6	100.0
0°-180°	44975.6	100.0



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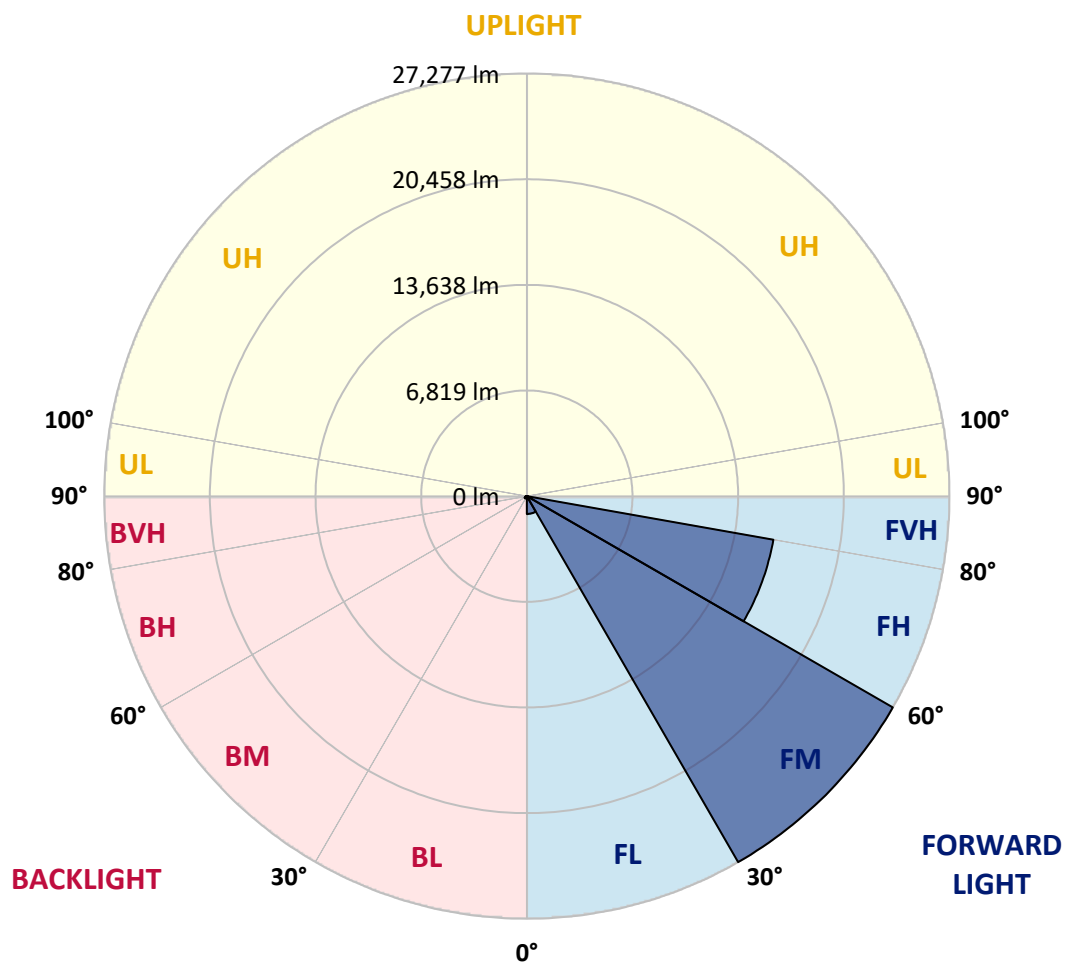
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1151.6	2.6			
FM	(30°-60°)	27276.7	60.6			
FH	(60°-80°)	16159.1	35.9			G5
FVH	(80°-90°)	81.0	0.2			G1/100
BL	(0°-30°)	30.0	0.1	B0/110		
BM	(30°-60°)	168.1	0.4	B0/220		
BH	(60°-80°)	104.8	0.2	B0/110		G0/110
BVH	(80°-90°)	4.1	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-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	197.1	197.1	197.1	197.1	197.1	197.1	197.1	197.1	197.1	197.1
2.5°	254.8	254.8	244.6	231.0	217.4	203.9	200.5	193.7	190.3	186.9
5°	265.0	265.0	261.6	251.4	237.8	227.6	227.6	217.4	210.6	203.9
7.5°	271.8	275.2	282.0	278.6	271.8	261.6	261.6	254.8	244.6	227.6
10°	282.0	292.2	305.8	312.6	316.0	316.0	312.6	309.2	292.2	268.4
12.5°	292.2	312.6	346.5	380.5	400.9	428.1	424.7	417.9	373.7	322.8
15°	312.6	343.1	414.5	513.0	665.9	761.0	798.4	764.4	618.3	434.9
17.5°	336.4	387.3	601.4	1073.6	1759.9	2086.1	2283.1	2123.5	1406.6	825.6
20°	360.1	472.3	1117.8	2782.6	4566.3	5633.1	5928.7	5466.6	3509.6	1573.1
22.5°	400.9	662.5	2266.1	5752.0	9839.2	11439.5	11741.8	10263.9	6628.6	3105.3
25°	485.8	961.5	3907.1	9373.8	14684.1	17385.1	17259.4	15322.8	10753.2	4960.4
27.5°	608.2	1399.8	5908.3	13318.3	19325.1	21706.8	21992.2	19596.9	14334.1	7294.5
30°	784.8	1940.0	8055.5	16478.0	23045.4	25620.7	25668.3	23191.5	17538.0	9343.2
32.5°	954.7	2449.6	9934.4	19532.4	26711.3	29534.7	29745.3	26697.7	19929.9	11476.8
35°	1083.8	2782.6	11837.0	22216.4	30407.8	34298.0	34284.4	30666.0	22763.4	13382.8
37.5°	1094.0	3115.5	13559.5	24961.6	35089.6	39445.2	39876.7	35888.0	26188.1	15740.7
40°	1070.2	3489.3	15740.7	29242.5	43525.6	50208.6	50589.1	45560.8	33057.9	19777.0
42.5°	1097.4	4138.2	19280.9	37148.5	57533.6	67131.6	67865.5	62578.9	45686.5	28012.6
45°	1240.1	5357.9	26697.7	50375.1	77500.9	89201.9	88957.3	81343.5	60380.8	40549.4
47.5°	1712.4	8344.3	37692.1	63248.3	90262.0	100682.2	100892.8	91587.0	68956.1	50188.2
50°	2633.1	12767.9	46930.0	70053.5	95749.0	106203.1	106006.1	95252.9	72214.3	54934.5
52.5°	3424.7	15968.4	51564.2	72442.0	96452.2	108931.3	108917.7	96217.8	72720.6	55342.2
55°	3621.8	16209.6	51601.6	72571.1	98028.7	112502.1	112950.6	98592.7	73376.3	53561.9
57.5°	3543.6	14351.1	49447.5	73318.5	100835.0	115264.3	115288.1	100892.8	75041.1	52471.3
58°	3475.7	14058.9	49012.6	73743.2	101317.5	115379.8	115322.1	100998.1	76396.7	52430.6
60°	3095.1	12207.3	47317.3	74827.0	100600.6	113008.4	112468.2	98698.0	76196.2	52012.7
62.5°	2432.6	9523.3	45649.1	73573.3	92915.4	101528.1	101752.4	87380.9	69462.3	49576.6
65°	1936.6	7097.4	42170.0	64535.9	76512.2	83375.2	84211.0	71055.8	57978.7	41979.8
67.5°	1542.5	5130.3	35375.0	51380.7	60543.8	69584.6	70192.8	59657.1	44918.6	32164.3
70°	1253.7	3468.9	24418.0	37576.6	49936.8	60102.2	60139.5	49559.6	33526.7	21074.8
72.5°	1111.0	2402.0	14174.5	27404.4	40491.7	48975.3	47986.6	40216.5	25766.8	12482.5
75°	961.5	1593.4	6951.3	16753.2	24550.5	24717.0	25094.1	18655.8	12880.0	5935.5
77.5°	791.6	1131.4	2738.4	4576.5	7362.4	9424.7	9774.7	7406.6	4284.3	1460.9
80°	543.6	536.8	737.3	1403.2	2106.5	2639.9	2463.2	1906.0	1121.2	560.6
82.5°	234.4	254.8	333.0	400.9	326.2	316.0	302.4	193.7	149.5	115.5
85°	74.7	68.0	71.3	71.3	57.8	44.2	44.2	20.4	0.0	0.0
87.5°	37.4	30.6	30.6	27.2	17.0	6.8	3.4	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°
197.1	0°	197.1	197.1	197.1	197.1	197.1	197.1	197.1	197.1	197.1	197.1
183.5	2.5°	180.1	180.1	173.3	166.5	163.1	156.3	152.9	149.5	146.1	142.7
197.1	5°	190.3	186.9	176.7	166.5	156.3	146.1	139.3	132.5	125.7	122.3
217.4	7.5°	207.2	200.5	180.1	163.1	149.5	135.9	129.1	118.9	112.1	101.9
241.2	10°	227.6	214.0	186.9	166.5	146.1	129.1	118.9	108.7	98.5	84.9
275.2	12.5°	254.8	231.0	197.1	163.1	139.3	118.9	108.7	95.1	84.9	74.7
319.4	15°	278.6	248.0	200.5	163.1	132.5	108.7	95.1	81.5	71.3	57.8
400.9	17.5°	312.6	261.6	197.1	152.9	122.3	95.1	81.5	71.3	54.4	34.0
594.6	20°	370.3	271.8	190.3	142.7	105.3	78.1	61.2	47.6	23.8	6.8
893.5	22.5°	462.1	299.0	183.5	129.1	91.7	61.2	40.8	17.0	0.0	0.0
1359.0	25°	638.7	346.5	183.5	122.3	81.5	44.2	13.6	0.0	0.0	0.0
1929.8	27.5°	849.4	411.1	183.5	105.3	64.6	23.8	0.0	0.0	0.0	0.0
2629.7	30°	1063.4	482.4	183.5	91.7	51.0	3.4	0.0	0.0	0.0	0.0
3237.8	32.5°	1267.3	543.6	186.9	78.1	34.0	0.0	0.0	0.0	0.0	0.0
4080.4	35°	1474.5	553.8	183.5	68.0	20.4	0.0	0.0	0.0	0.0	0.0
5113.3	37.5°	1739.5	533.4	173.3	61.2	10.2	0.0	0.0	0.0	0.0	0.0
6727.1	40°	2140.4	543.6	163.1	57.8	3.4	0.0	0.0	0.0	0.0	0.0
9604.8	42.5°	2881.1	587.8	149.5	57.8	0.0	0.0	0.0	0.0	0.0	0.0
15299.0	45°	4980.8	788.2	135.9	61.2	0.0	0.0	0.0	0.0	0.0	0.0
22967.2	47.5°	8239.0	1416.8	132.5	61.2	0.0	0.0	0.0	0.0	0.0	0.0
27666.0	50°	10515.3	1783.7	139.3	64.6	0.0	0.0	0.0	0.0	0.0	0.0
28253.8	52.5°	10498.3	1987.6	146.1	68.0	13.6	0.0	0.0	0.0	0.0	0.0
26042.0	55°	9333.0	2024.9	156.3	74.7	44.2	0.0	0.0	0.0	0.0	0.0
22379.5	57.5°	7800.7	1848.3	180.1	91.7	81.5	0.0	0.0	0.0	0.0	0.0
21805.3	58°	7528.9	1766.7	186.9	95.1	88.3	0.0	0.0	0.0	0.0	0.0
18914.0	60°	6169.9	1440.5	237.8	118.9	118.9	0.0	0.0	0.0	0.0	0.0
15506.3	62.5°	4260.5	1257.1	271.8	152.9	122.3	0.0	0.0	0.0	0.0	0.0
11432.7	65°	3013.6	1134.8	295.6	163.1	98.5	0.0	0.0	0.0	0.0	0.0
8123.5	67.5°	2252.6	1046.4	326.2	166.5	51.0	0.0	0.0	0.0	0.0	0.0
5096.3	70°	1725.9	981.9	400.9	176.7	13.6	0.0	0.0	0.0	0.0	0.0
3037.4	72.5°	1406.6	907.1	485.8	183.5	0.0	0.0	0.0	0.0	0.0	0.0
1821.1	75°	1165.3	818.8	468.9	200.5	0.0	0.0	0.0	0.0	0.0	0.0
971.7	77.5°	774.6	635.3	428.1	200.5	0.0	0.0	0.0	0.0	0.0	0.0
346.5	80°	271.8	251.4	333.0	176.7	0.0	0.0	0.0	0.0	0.0	0.0
71.3	82.5°	40.8	34.0	47.6	61.2	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°
197.1	0°	197.1	197.1	197.1	197.1	197.1	197.1	197.1	197.1	197.1	197.1
139.3	2.5°	139.3	139.3	135.9	139.3	139.3	146.1	163.1	186.9	214.0	224.2
118.9	5°	115.5	112.1	108.7	108.7	108.7	118.9	132.5	159.7	190.3	203.9
98.5	7.5°	95.1	91.7	88.3	84.9	84.9	91.7	108.7	139.3	169.9	183.5
81.5	10°	78.1	71.3	68.0	64.6	64.6	71.3	88.3	118.9	152.9	166.5
68.0	12.5°	64.6	54.4	47.6	44.2	40.8	51.0	68.0	95.1	132.5	149.5
51.0	15°	44.2	34.0	23.8	20.4	17.0	27.2	44.2	74.7	112.1	132.5
27.2	17.5°	23.8	10.2	3.4	0.0	0.0	6.8	20.4	54.4	91.7	108.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.2	68.0	84.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	40.8	57.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	30.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
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	10.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	27.2
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°
197.1	0°	197.1	197.1	197.1	197.1	197.1	197.1	197.1	197.1	197.1	197.1
234.4	2.5°	241.2	237.8	231.0	224.2	224.2	224.2	234.4	244.6	254.8	254.8
210.6	5°	224.2	224.2	220.8	214.0	214.0	217.4	231.0	248.0	261.6	265.0
193.7	7.5°	207.2	214.0	207.2	203.9	207.2	210.6	224.2	244.6	265.0	271.8
180.1	10°	197.1	200.5	200.5	197.1	197.1	203.9	217.4	244.6	271.8	282.0
163.1	12.5°	183.5	190.3	186.9	186.9	186.9	193.7	210.6	241.2	278.6	292.2
146.1	15°	169.9	180.1	180.1	176.7	176.7	180.1	203.9	237.8	288.8	312.6
125.7	17.5°	156.3	166.5	169.9	163.1	163.1	169.9	193.7	237.8	295.6	336.4
101.9	20°	129.1	146.1	156.3	146.1	146.1	152.9	176.7	224.2	299.0	360.1
74.7	22.5°	101.9	118.9	132.5	129.1	129.1	132.5	163.1	214.0	302.4	400.9
44.2	25°	74.7	91.7	101.9	108.7	108.7	118.9	149.5	207.2	316.0	485.8
20.4	27.5°	44.2	64.6	78.1	84.9	88.3	101.9	139.3	200.5	339.8	608.2
0.0	30°	20.4	37.4	54.4	68.0	68.0	91.7	129.1	193.7	370.3	784.8
0.0	32.5°	0.0	17.0	27.2	47.6	51.0	74.7	118.9	186.9	414.5	954.7
0.0	35°	0.0	0.0	13.6	37.4	37.4	61.2	108.7	180.1	482.4	1083.8
0.0	37.5°	0.0	0.0	0.0	27.2	30.6	54.4	105.3	176.7	496.0	1094.0
0.0	40°	0.0	0.0	0.0	20.4	23.8	51.0	105.3	180.1	448.5	1070.2
0.0	42.5°	0.0	0.0	0.0	13.6	17.0	51.0	105.3	186.9	404.3	1097.4
0.0	45°	0.0	0.0	0.0	10.2	13.6	54.4	101.9	183.5	380.5	1240.1
0.0	47.5°	0.0	0.0	0.0	13.6	20.4	54.4	98.5	180.1	383.9	1712.4
0.0	50°	0.0	0.0	0.0	17.0	23.8	54.4	101.9	173.3	421.3	2633.1
0.0	52.5°	0.0	0.0	0.0	13.6	20.4	61.2	112.1	169.9	458.7	3424.7
0.0	55°	0.0	0.0	0.0	3.4	10.2	78.1	122.3	169.9	516.4	3621.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	88.3	139.3	180.1	611.6	3543.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	88.3	142.7	180.1	618.3	3475.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	88.3	156.3	200.5	665.9	3095.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	74.7	186.9	251.4	693.1	2432.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	61.2	220.8	275.2	713.5	1936.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	57.8	227.6	278.6	723.7	1542.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	61.2	224.2	299.0	757.6	1253.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	68.0	203.9	329.6	757.6	1111.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	71.3	190.3	370.3	689.7	961.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	68.0	186.9	431.5	615.0	791.6
0.0	80°	6.8	10.2	10.2	6.8	6.8	57.8	183.5	438.3	523.2	543.6
3.4	82.5°	20.4	27.2	23.8	17.0	17.0	51.0	163.1	366.9	271.8	234.4
20.4	85°	37.4	44.2	44.2	37.4	37.4	47.6	101.9	132.5	91.7	74.7
37.4	87.5°	51.0	57.8	57.8	51.0	51.0	47.6	44.2	40.8	37.4	37.4
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

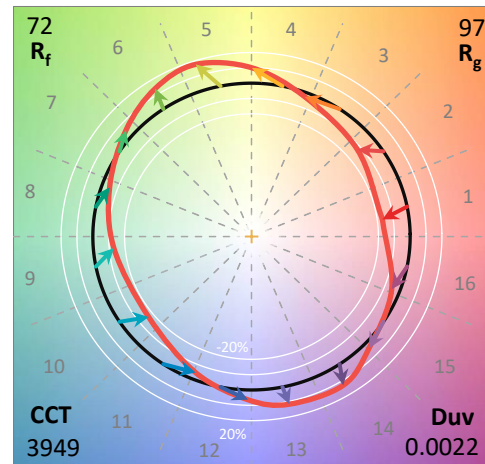
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

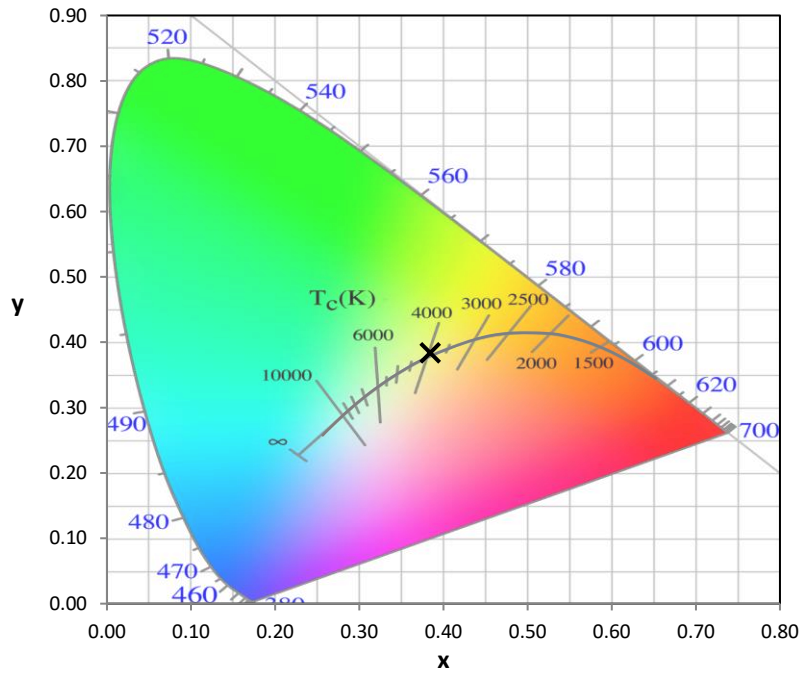
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

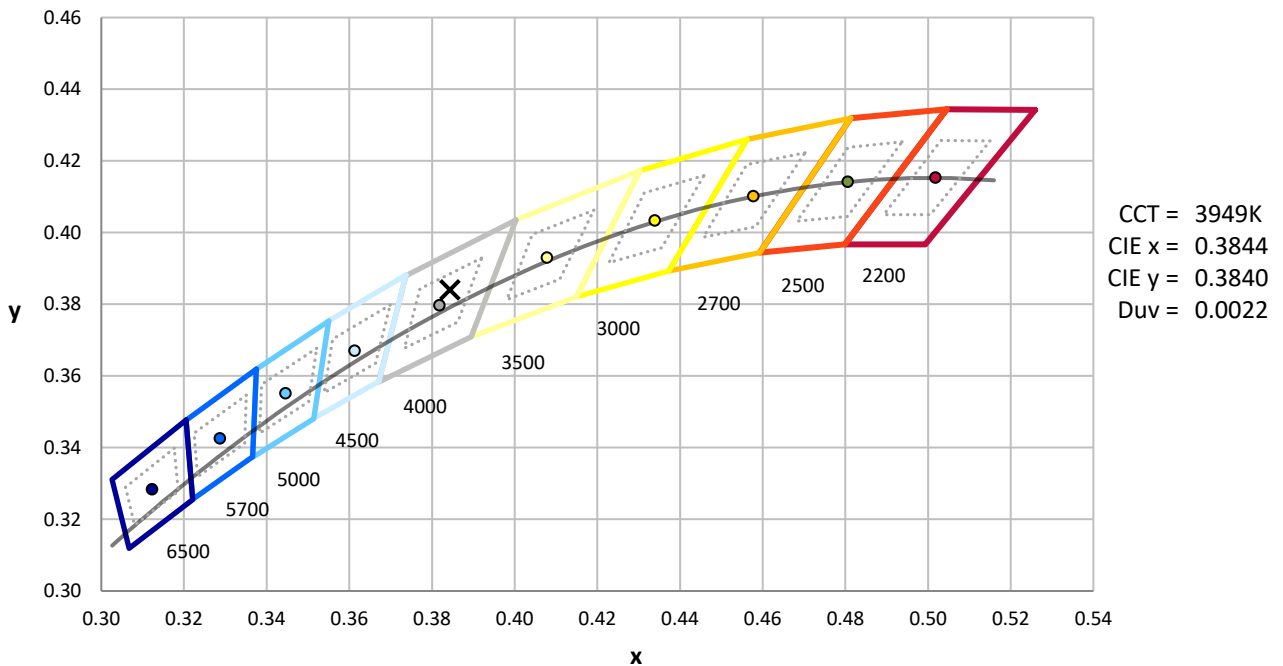
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



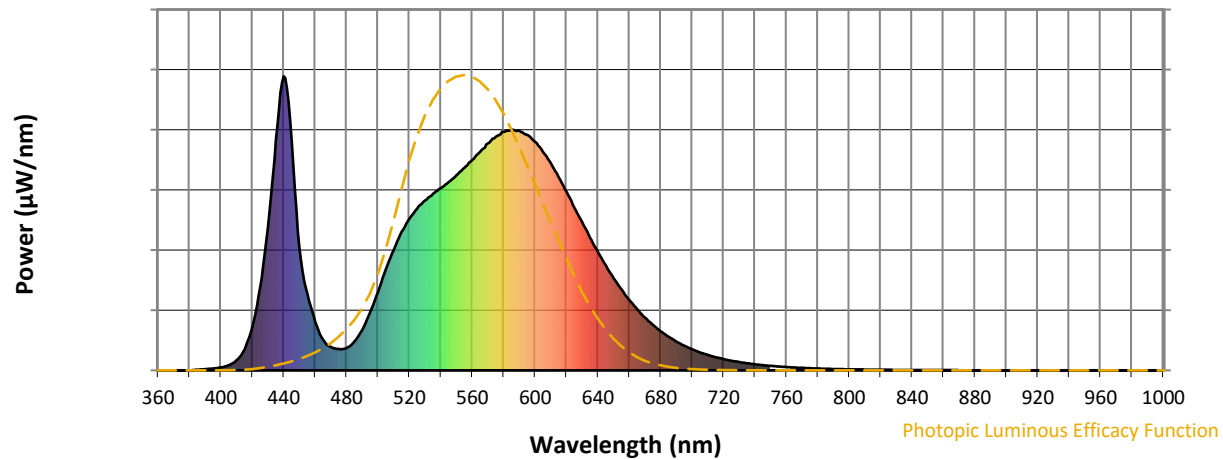
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

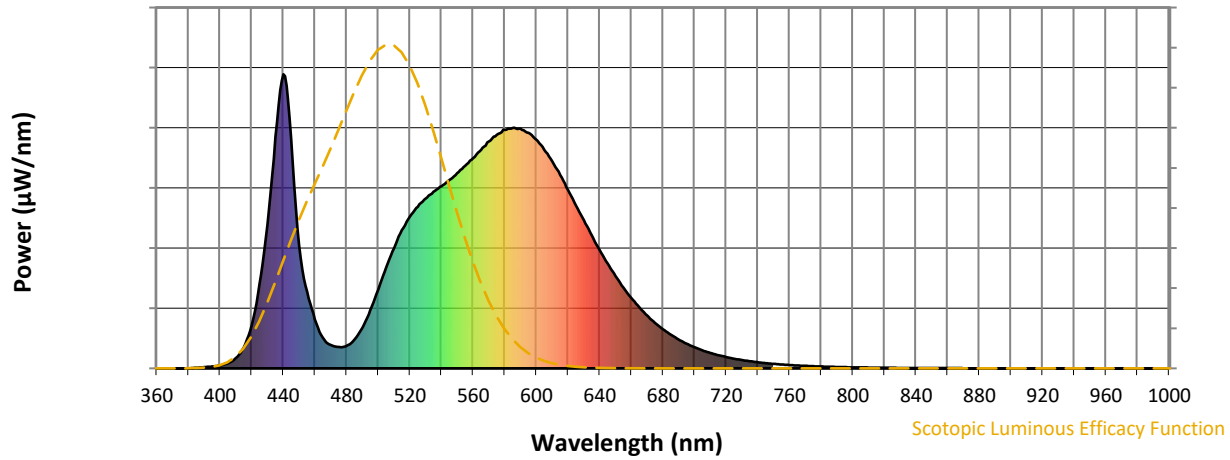


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



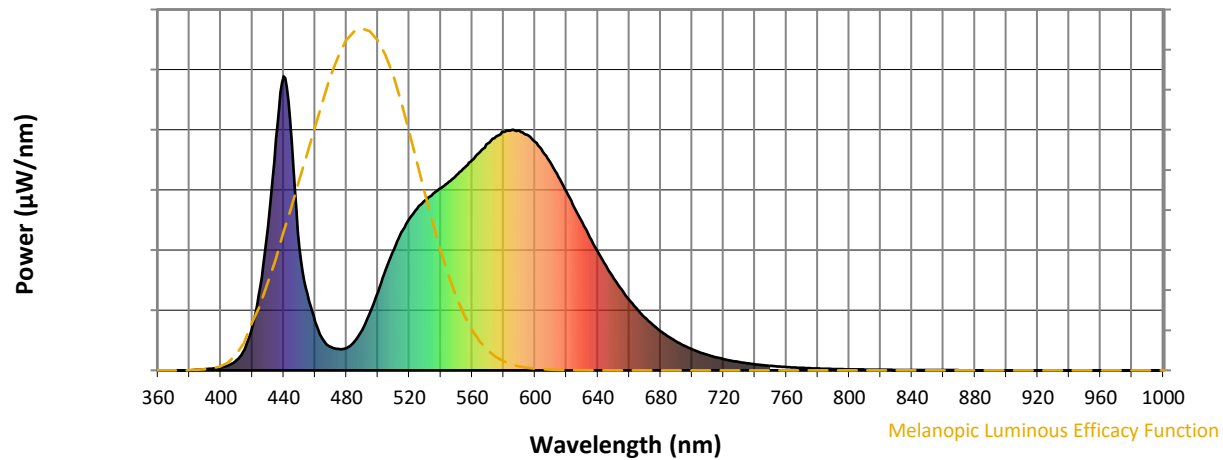
Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

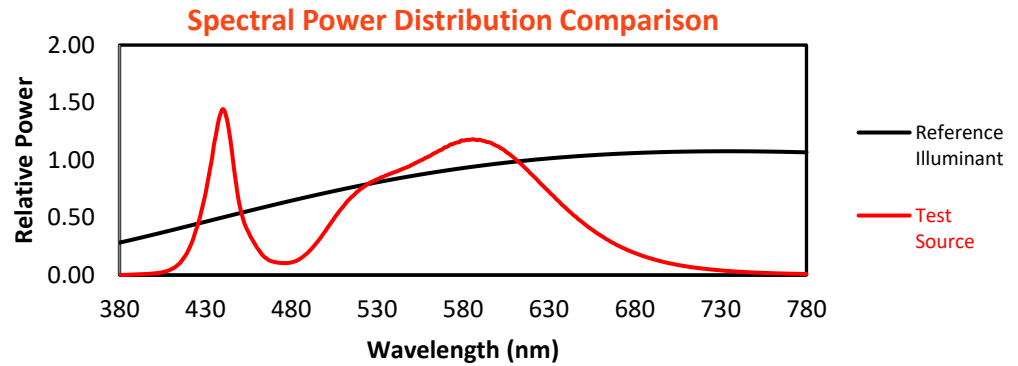
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

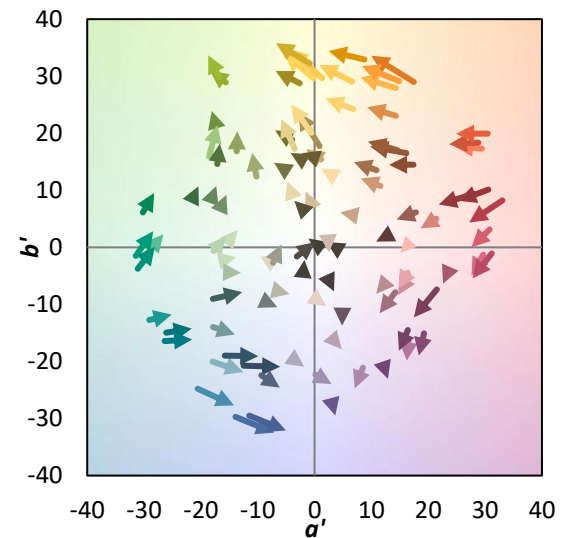
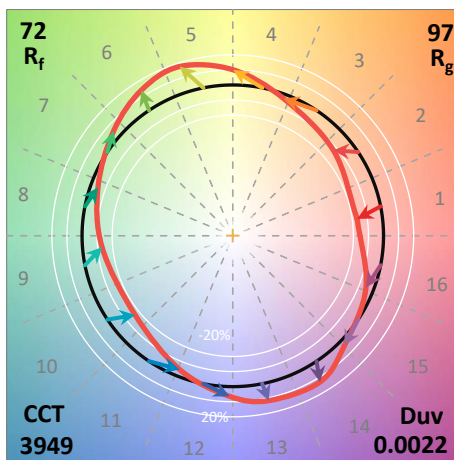
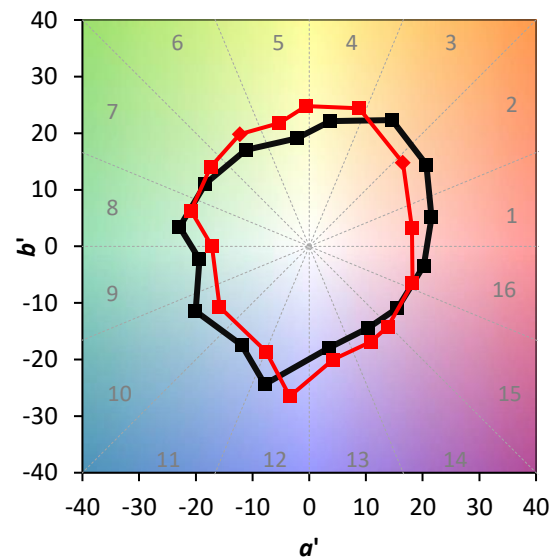
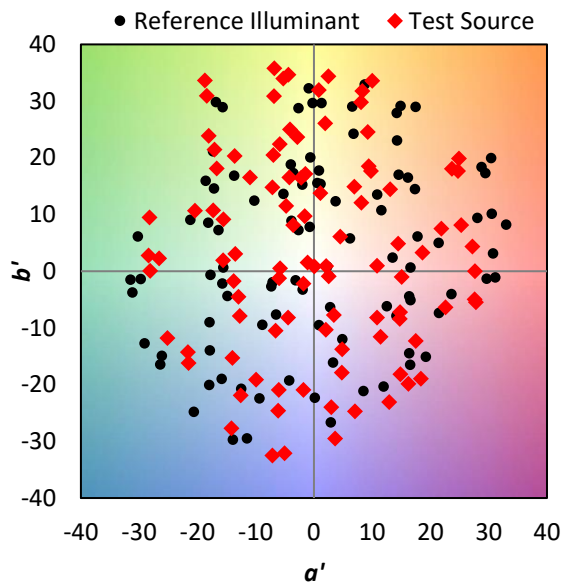
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 $CIE R_a = 70.7$
 $R_g = -36.7$

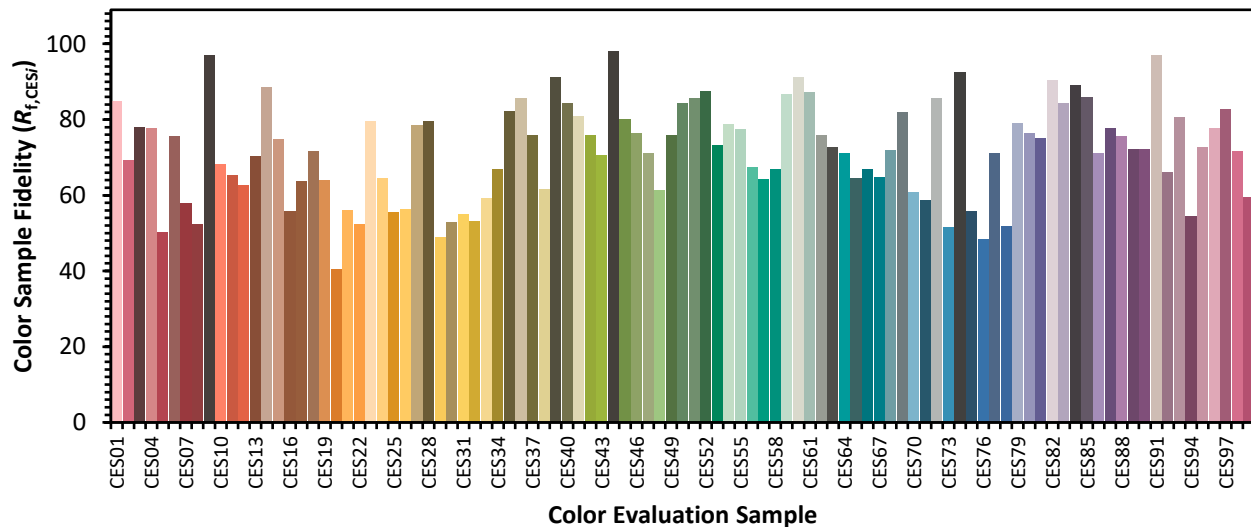


Color Vector Graphics

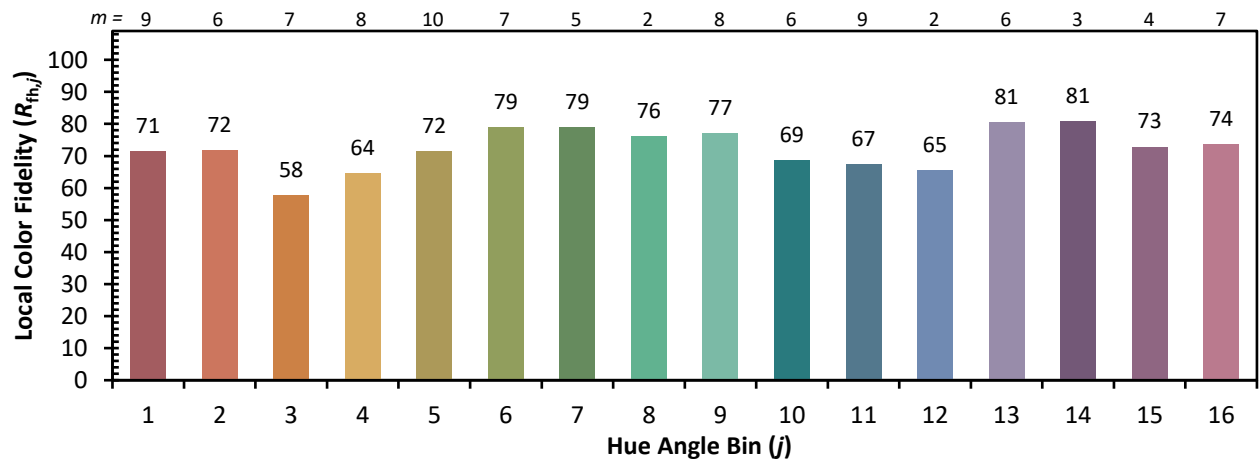
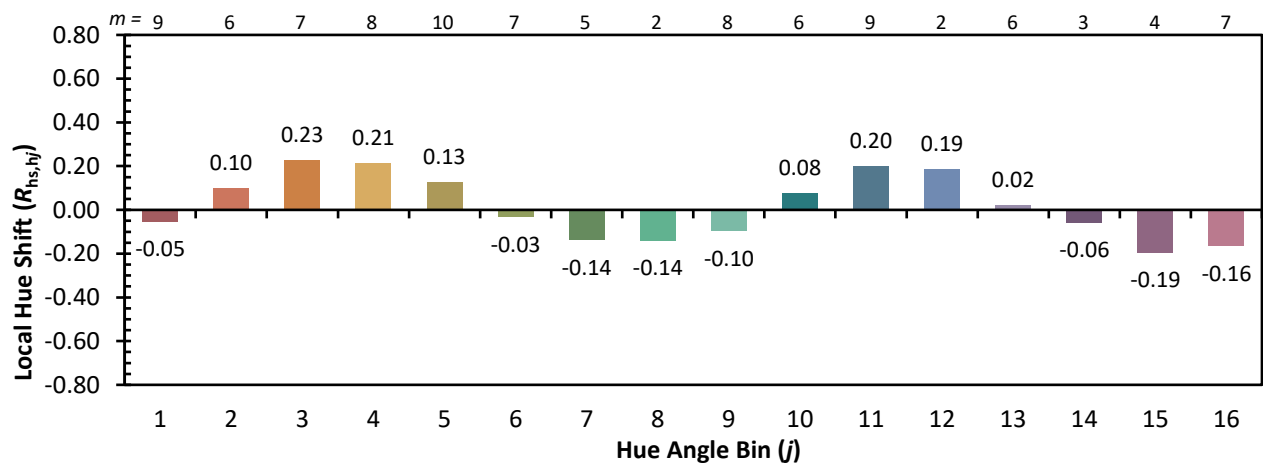
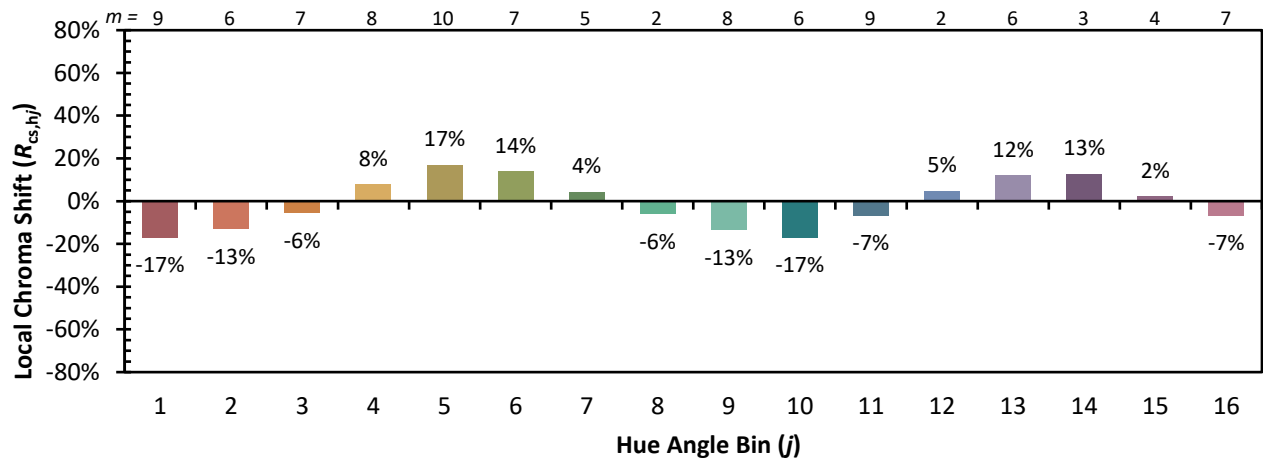


Individual Sample Fidelity Index ($R_{f,i}$)

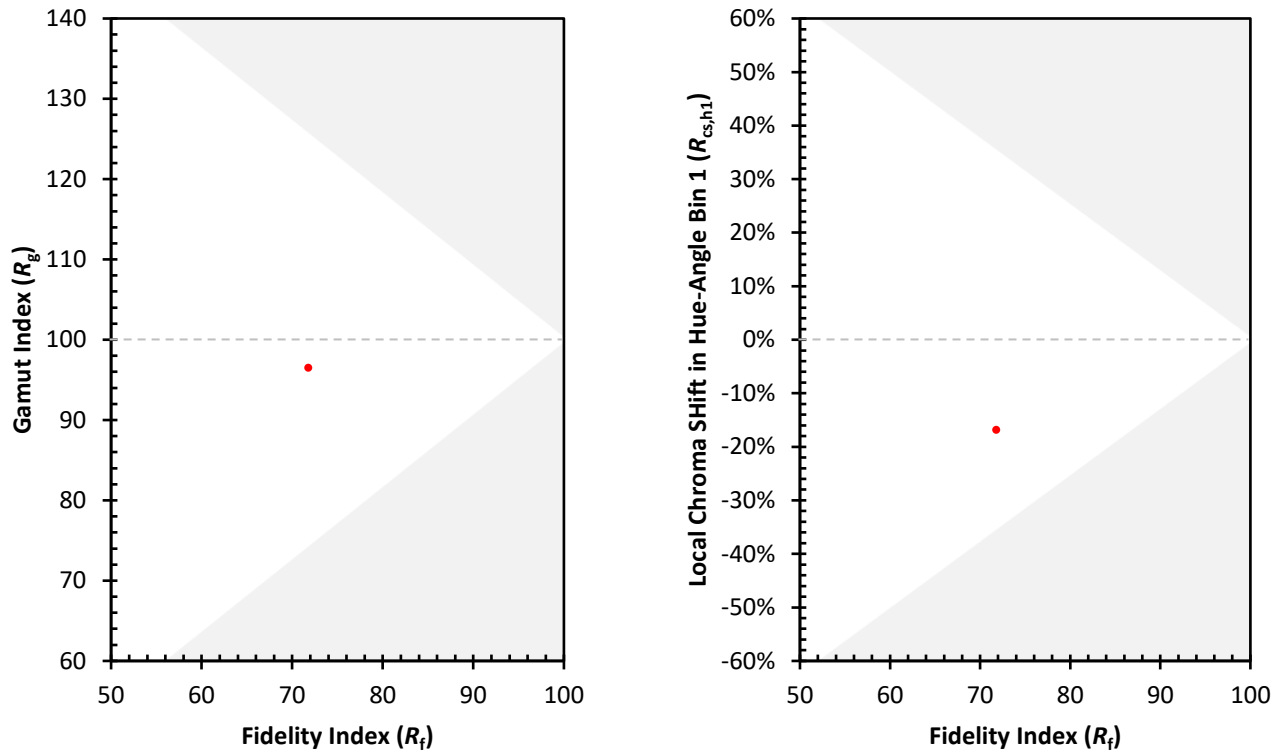
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)