

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: P1049479

Luminaire Tested: **GALN-SA5C-740-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049479
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-740-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25246.9 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 236
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

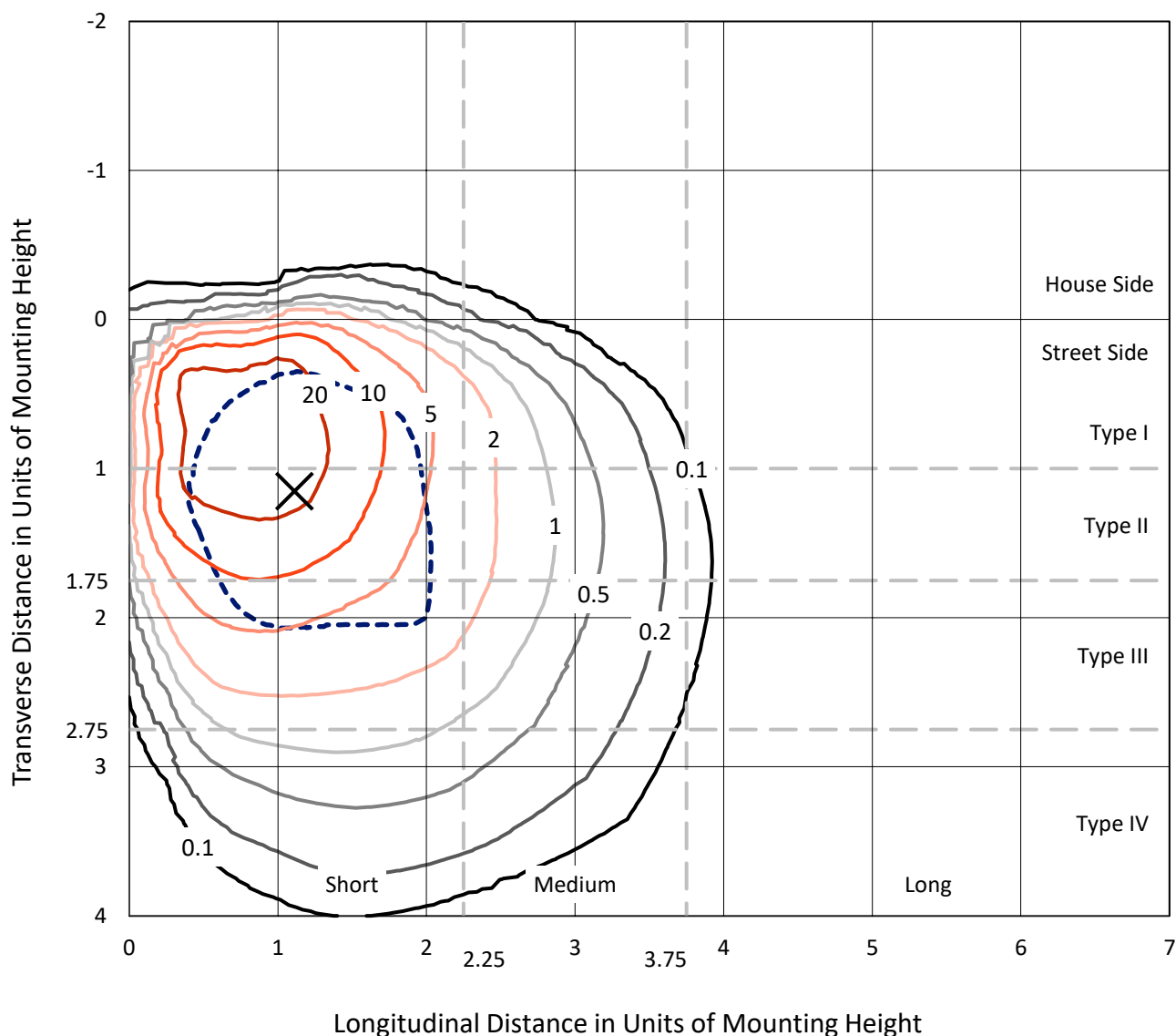
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

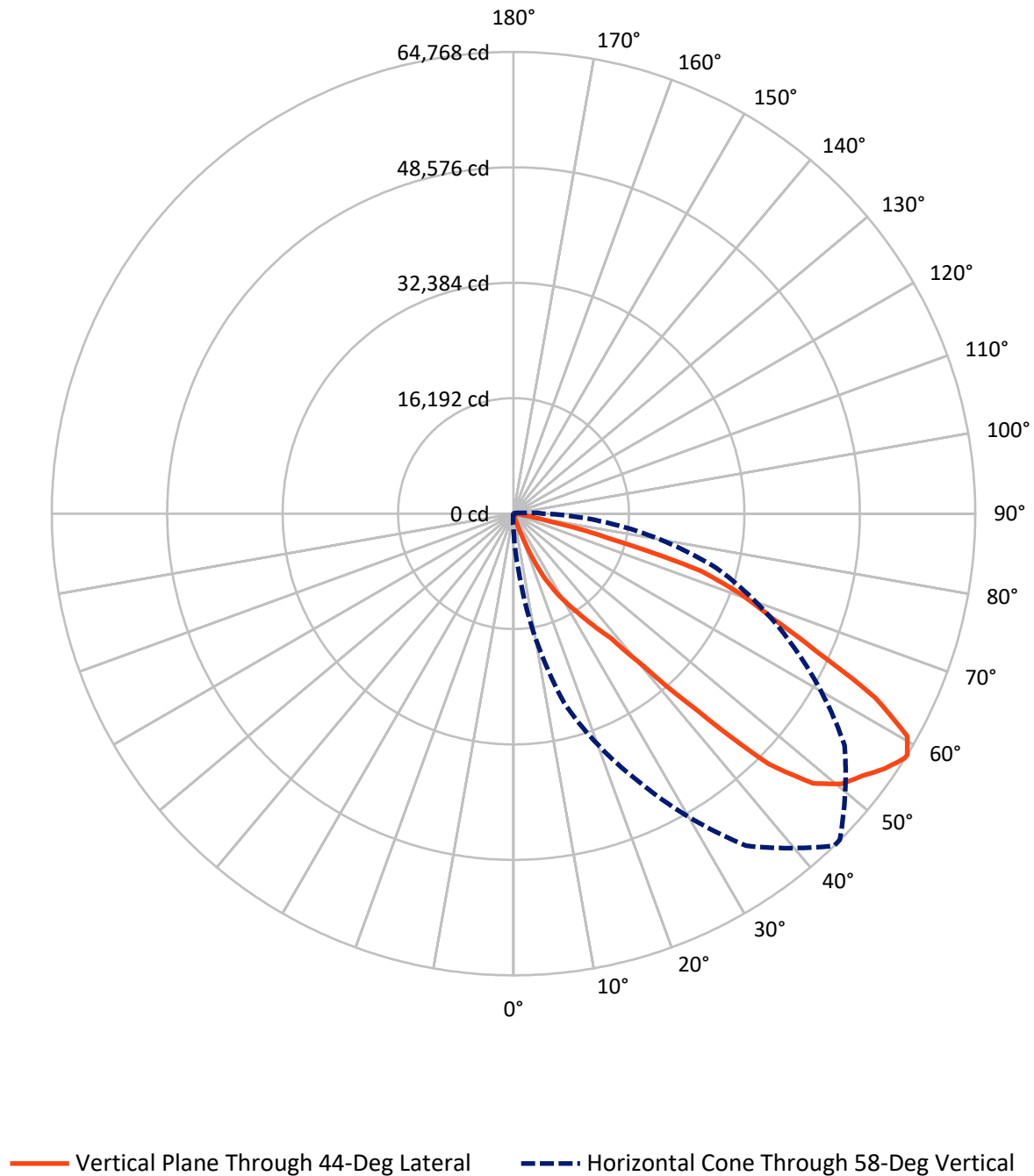


Based on 20 foot mounting height. Maximum calculated value = 43.9 fc

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	172.4	0.0	172.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	25074.6	0.0	25074.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	25246.9	0.0	25246.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	0.0
10°-20°	55.4	0.2
20°-30°	598.1	2.4
30°-40°	1768.8	7.0
40°-50°	5272.0	20.9
50°-60°	8365.3	33.1
60°-70°	6977.7	27.6
70°-80°	2152.0	8.5
80°-90°	47.8	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°	25246.9	100.0
0°-180°	25246.9	100.0



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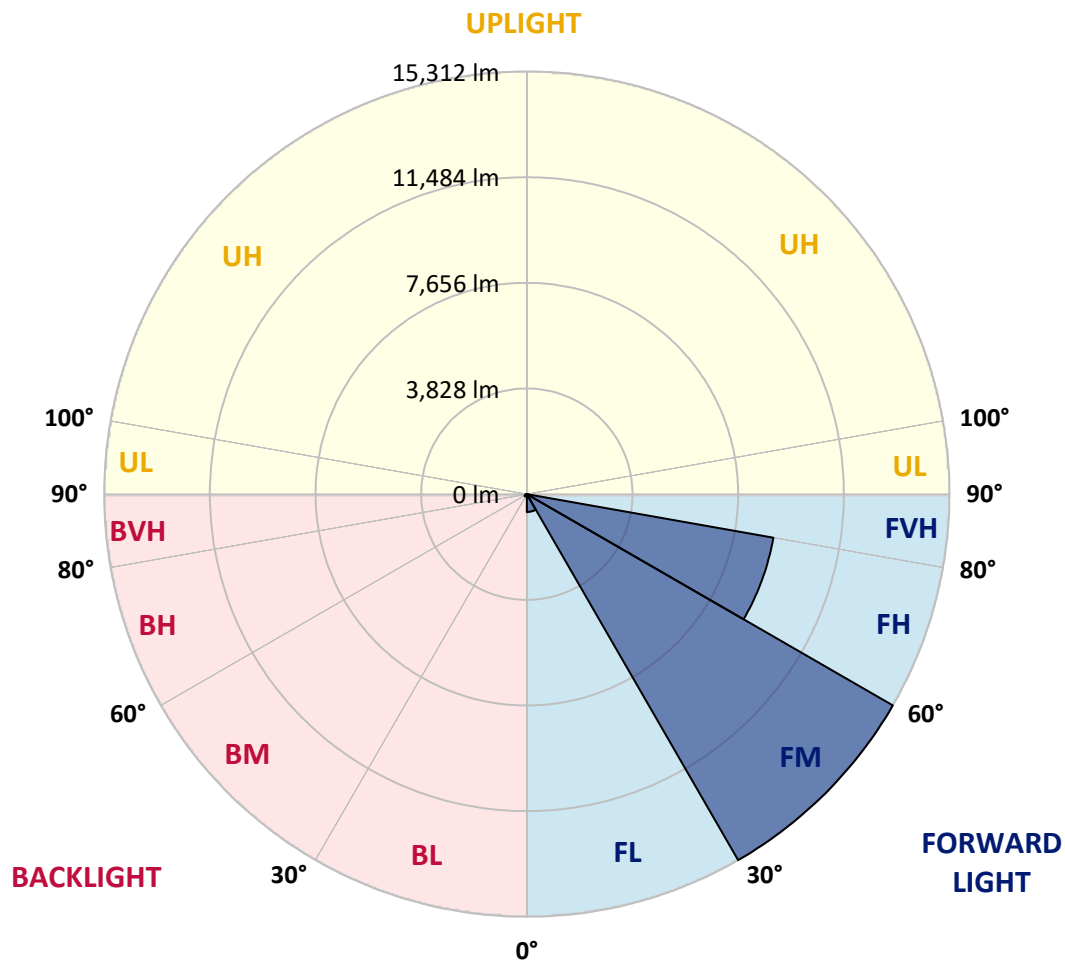
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	646.5	2.6			
FM	(30°-60°)	15311.7	60.6			
FH	(60°-80°)	9070.9	35.9			G4/12000
FVH	(80°-90°)	45.5	0.2			G1/100
BL	(0°-30°)	16.9	0.1	B0/110		
BM	(30°-60°)	94.4	0.4	B0/220		
BH	(60°-80°)	58.9	0.2	B0/110		G0/110
BVH	(80°-90°)	2.3	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°	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6
2.5°	143.0	143.0	137.3	129.7	122.1	114.4	112.5	108.7	106.8	104.9
5°	148.8	148.8	146.9	141.1	133.5	127.8	127.8	122.1	118.2	114.4
7.5°	152.6	154.5	158.3	156.4	152.6	146.9	146.9	143.0	137.3	127.8
10°	158.3	164.0	171.6	175.5	177.4	177.4	175.5	173.6	164.0	150.7
12.5°	164.0	175.5	194.5	213.6	225.0	240.3	238.4	234.6	209.8	181.2
15°	175.5	192.6	232.7	288.0	373.8	427.2	448.2	429.1	347.1	244.1
17.5°	188.8	217.4	337.6	602.7	987.9	1171.0	1281.6	1192.0	789.6	463.4
20°	202.2	265.1	627.5	1562.0	2563.3	3162.1	3328.0	3068.7	1970.1	883.0
22.5°	225.0	371.9	1272.1	3228.9	5523.2	6421.5	6591.3	5761.6	3720.9	1743.2
25°	272.7	539.7	2193.3	5261.9	8242.9	9759.1	9688.5	8601.4	6036.3	2784.5
27.5°	341.4	785.8	3316.6	7476.2	10848.1	12185.0	12345.3	11000.7	8046.4	4094.7
30°	440.6	1089.0	4522.0	9249.9	12936.5	14382.1	14408.8	13018.5	9844.9	5244.8
32.5°	535.9	1375.1	5576.6	10964.4	14994.3	16579.2	16697.5	14986.7	11187.6	6442.5
35°	608.4	1562.0	6644.7	12471.1	17069.4	19253.1	19245.5	17214.3	12778.2	7512.4
37.5°	614.1	1748.9	7611.6	14012.1	19697.5	22142.5	22384.7	20145.7	14700.6	8836.0
40°	600.8	1958.7	8836.0	16415.2	24433.0	28184.5	28398.1	25575.4	18557.0	11101.8
42.5°	616.0	2323.0	10823.3	20853.2	32296.4	37684.2	38096.1	35128.6	25646.0	15724.8
45°	696.1	3007.6	14986.7	28277.9	43504.9	50073.3	49936.0	45662.0	33894.6	22762.3
47.5°	961.2	4684.1	21158.4	35504.3	50668.4	56517.7	56636.0	51412.2	38708.4	28173.0
50°	1478.1	7167.2	26344.0	39324.4	53748.5	59616.9	59506.3	53470.0	40537.4	30837.4
52.5°	1922.4	8963.8	28945.4	40665.1	54143.3	61148.4	61140.7	54011.7	40821.5	31066.2
55°	2033.1	9099.2	28966.4	40737.6	55028.2	63152.8	63404.6	55344.8	41189.6	30066.9
57.5°	1989.2	8056.0	27757.3	41157.2	56603.5	64703.4	64716.7	56636.0	42124.1	29454.7
58°	1951.1	7892.0	27513.1	41395.6	56874.4	64768.2	64735.8	56695.1	42885.1	29431.8
60°	1737.5	6852.5	26561.5	42004.0	56471.9	63437.0	63133.8	55403.9	42772.6	29197.2
62.5°	1365.5	5345.9	25625.0	41300.2	52157.9	56992.6	57118.5	49051.1	38992.5	27829.7
65°	1087.1	3984.1	23672.1	36227.1	42950.0	46802.5	47271.6	39887.0	32546.2	23565.3
67.5°	865.9	2879.9	19857.7	28842.5	33986.2	39061.2	39402.6	33488.4	25215.0	18055.4
70°	703.8	1947.2	13707.0	21093.5	28031.9	33738.2	33759.2	27820.2	18820.2	11830.3
72.5°	623.7	1348.4	7956.8	15383.4	22729.9	27492.2	26937.2	22575.4	14464.1	7007.0
75°	539.7	894.5	3902.1	9404.4	13781.4	13874.8	14086.5	10472.4	7230.2	3331.9
77.5°	444.4	635.1	1537.2	2569.0	4132.9	5290.5	5487.0	4157.7	2405.0	820.1
80°	305.2	301.3	413.9	787.7	1182.5	1481.9	1382.7	1069.9	629.4	314.7
82.5°	131.6	143.0	186.9	225.0	183.1	177.4	169.7	108.7	83.9	64.8
85°	42.0	38.1	40.1	40.1	32.4	24.8	24.8	11.4	0.0	0.0
87.5°	21.0	17.2	17.2	15.3	9.5	3.8	1.9	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°
110.6	0°	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6
103.0	2.5°	101.1	101.1	97.3	93.5	91.5	87.7	85.8	83.9	82.0	80.1
110.6	5°	106.8	104.9	99.2	93.5	87.7	82.0	78.2	74.4	70.6	68.7
122.1	7.5°	116.3	112.5	101.1	91.5	83.9	76.3	72.5	66.8	62.9	57.2
135.4	10°	127.8	120.2	104.9	93.5	82.0	72.5	66.8	61.0	55.3	47.7
154.5	12.5°	143.0	129.7	110.6	91.5	78.2	66.8	61.0	53.4	47.7	42.0
179.3	15°	156.4	139.2	112.5	91.5	74.4	61.0	53.4	45.8	40.1	32.4
225.0	17.5°	175.5	146.9	110.6	85.8	68.7	53.4	45.8	40.1	30.5	19.1
333.8	20°	207.9	152.6	106.8	80.1	59.1	43.9	34.3	26.7	13.4	3.8
501.6	22.5°	259.4	167.8	103.0	72.5	51.5	34.3	22.9	9.5	0.0	0.0
762.9	25°	358.6	194.5	103.0	68.7	45.8	24.8	7.6	0.0	0.0	0.0
1083.3	27.5°	476.8	230.8	103.0	59.1	36.2	13.4	0.0	0.0	0.0	0.0
1476.2	30°	597.0	270.8	103.0	51.5	28.6	1.9	0.0	0.0	0.0	0.0
1817.6	32.5°	711.4	305.2	104.9	43.9	19.1	0.0	0.0	0.0	0.0	0.0
2290.5	35°	827.7	310.9	103.0	38.1	11.4	0.0	0.0	0.0	0.0	0.0
2870.3	37.5°	976.5	299.4	97.3	34.3	5.7	0.0	0.0	0.0	0.0	0.0
3776.2	40°	1201.5	305.2	91.5	32.4	1.9	0.0	0.0	0.0	0.0	0.0
5391.6	42.5°	1617.3	329.9	83.9	32.4	0.0	0.0	0.0	0.0	0.0	0.0
8588.1	45°	2795.9	442.5	76.3	34.3	0.0	0.0	0.0	0.0	0.0	0.0
12892.6	47.5°	4624.9	795.3	74.4	34.3	0.0	0.0	0.0	0.0	0.0	0.0
15530.3	50°	5902.8	1001.3	78.2	36.2	0.0	0.0	0.0	0.0	0.0	0.0
15860.2	52.5°	5893.2	1115.7	82.0	38.1	7.6	0.0	0.0	0.0	0.0	0.0
14618.6	55°	5239.1	1136.7	87.7	42.0	24.8	0.0	0.0	0.0	0.0	0.0
12562.7	57.5°	4378.9	1037.5	101.1	51.5	45.8	0.0	0.0	0.0	0.0	0.0
12240.4	58°	4226.3	991.7	104.9	53.4	49.6	0.0	0.0	0.0	0.0	0.0
10617.3	60°	3463.5	808.6	133.5	66.8	66.8	0.0	0.0	0.0	0.0	0.0
8704.4	62.5°	2391.6	705.7	152.6	85.8	68.7	0.0	0.0	0.0	0.0	0.0
6417.7	65°	1691.7	637.0	165.9	91.5	55.3	0.0	0.0	0.0	0.0	0.0
4560.1	67.5°	1264.5	587.4	183.1	93.5	28.6	0.0	0.0	0.0	0.0	0.0
2860.8	70°	968.9	551.2	225.0	99.2	7.6	0.0	0.0	0.0	0.0	0.0
1705.0	72.5°	789.6	509.2	272.7	103.0	0.0	0.0	0.0	0.0	0.0	0.0
1022.3	75°	654.2	459.6	263.2	112.5	0.0	0.0	0.0	0.0	0.0	0.0
545.5	77.5°	434.8	356.6	240.3	112.5	0.0	0.0	0.0	0.0	0.0	0.0
194.5	80°	152.6	141.1	186.9	99.2	0.0	0.0	0.0	0.0	0.0	0.0
40.1	82.5°	22.9	19.1	26.7	34.3	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°
110.6	0°	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6
78.2	2.5°	78.2	78.2	76.3	78.2	78.2	82.0	91.5	104.9	120.2	125.9
66.8	5°	64.8	62.9	61.0	61.0	61.0	66.8	74.4	89.6	106.8	114.4
55.3	7.5°	53.4	51.5	49.6	47.7	47.7	51.5	61.0	78.2	95.4	103.0
45.8	10°	43.9	40.1	38.1	36.2	36.2	40.1	49.6	66.8	85.8	93.5
38.1	12.5°	36.2	30.5	26.7	24.8	22.9	28.6	38.1	53.4	74.4	83.9
28.6	15°	24.8	19.1	13.4	11.4	9.5	15.3	24.8	42.0	62.9	74.4
15.3	17.5°	13.4	5.7	1.9	0.0	0.0	3.8	11.4	30.5	51.5	61.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	38.1	47.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	22.9	32.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	17.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
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	5.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	15.3
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°
110.6	0°	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6
131.6	2.5°	135.4	133.5	129.7	125.9	125.9	125.9	131.6	137.3	143.0	143.0
118.2	5°	125.9	125.9	124.0	120.2	120.2	122.1	129.7	139.2	146.9	148.8
108.7	7.5°	116.3	120.2	116.3	114.4	116.3	118.2	125.9	137.3	148.8	152.6
101.1	10°	110.6	112.5	112.5	110.6	110.6	114.4	122.1	137.3	152.6	158.3
91.5	12.5°	103.0	106.8	104.9	104.9	104.9	108.7	118.2	135.4	156.4	164.0
82.0	15°	95.4	101.1	101.1	99.2	99.2	101.1	114.4	133.5	162.1	175.5
70.6	17.5°	87.7	93.5	95.4	91.5	91.5	95.4	108.7	133.5	165.9	188.8
57.2	20°	72.5	82.0	87.7	82.0	82.0	85.8	99.2	125.9	167.8	202.2
42.0	22.5°	57.2	66.8	74.4	72.5	72.5	74.4	91.5	120.2	169.7	225.0
24.8	25°	42.0	51.5	57.2	61.0	61.0	66.8	83.9	116.3	177.4	272.7
11.4	27.5°	24.8	36.2	43.9	47.7	49.6	57.2	78.2	112.5	190.7	341.4
0.0	30°	11.4	21.0	30.5	38.1	38.1	51.5	72.5	108.7	207.9	440.6
0.0	32.5°	0.0	9.5	15.3	26.7	28.6	42.0	66.8	104.9	232.7	535.9
0.0	35°	0.0	0.0	7.6	21.0	21.0	34.3	61.0	101.1	270.8	608.4
0.0	37.5°	0.0	0.0	0.0	15.3	17.2	30.5	59.1	99.2	278.4	614.1
0.0	40°	0.0	0.0	0.0	11.4	13.4	28.6	59.1	101.1	251.7	600.8
0.0	42.5°	0.0	0.0	0.0	7.6	9.5	28.6	59.1	104.9	227.0	616.0
0.0	45°	0.0	0.0	0.0	5.7	7.6	30.5	57.2	103.0	213.6	696.1
0.0	47.5°	0.0	0.0	0.0	7.6	11.4	30.5	55.3	101.1	215.5	961.2
0.0	50°	0.0	0.0	0.0	9.5	13.4	30.5	57.2	97.3	236.5	1478.1
0.0	52.5°	0.0	0.0	0.0	7.6	11.4	34.3	62.9	95.4	257.5	1922.4
0.0	55°	0.0	0.0	0.0	1.9	5.7	43.9	68.7	95.4	289.9	2033.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	49.6	78.2	101.1	343.3	1989.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	49.6	80.1	101.1	347.1	1951.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	49.6	87.7	112.5	373.8	1737.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	42.0	104.9	141.1	389.1	1365.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	34.3	124.0	154.5	400.5	1087.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	32.4	127.8	156.4	406.2	865.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	34.3	125.9	167.8	425.3	703.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	38.1	114.4	185.0	425.3	623.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	40.1	106.8	207.9	387.2	539.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	38.1	104.9	242.2	345.2	444.4
0.0	80°	3.8	5.7	5.7	3.8	3.8	32.4	103.0	246.0	293.7	305.2
1.9	82.5°	11.4	15.3	13.4	9.5	9.5	28.6	91.5	206.0	152.6	131.6
11.4	85°	21.0	24.8	24.8	21.0	21.0	26.7	57.2	74.4	51.5	42.0
21.0	87.5°	28.6	32.4	32.4	28.6	28.6	26.7	24.8	22.9	21.0	21.0
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



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

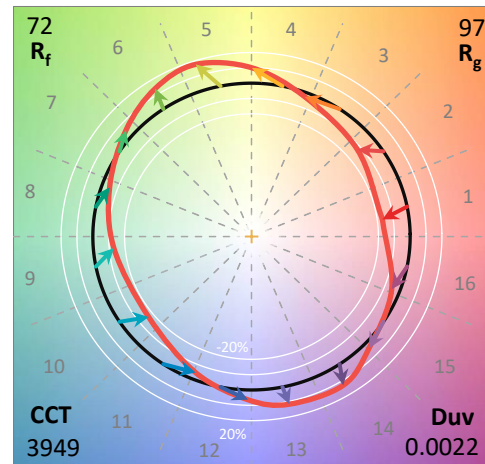
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

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

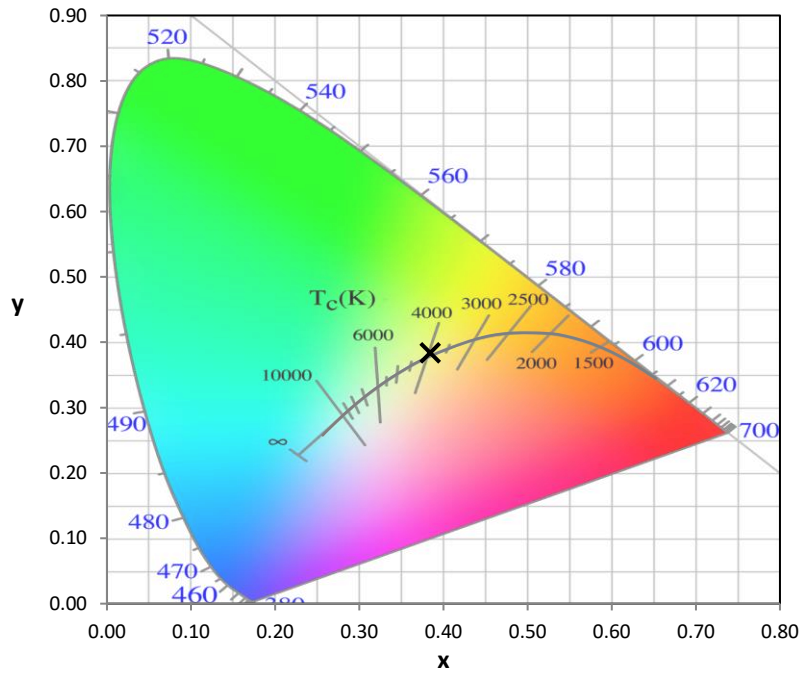
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

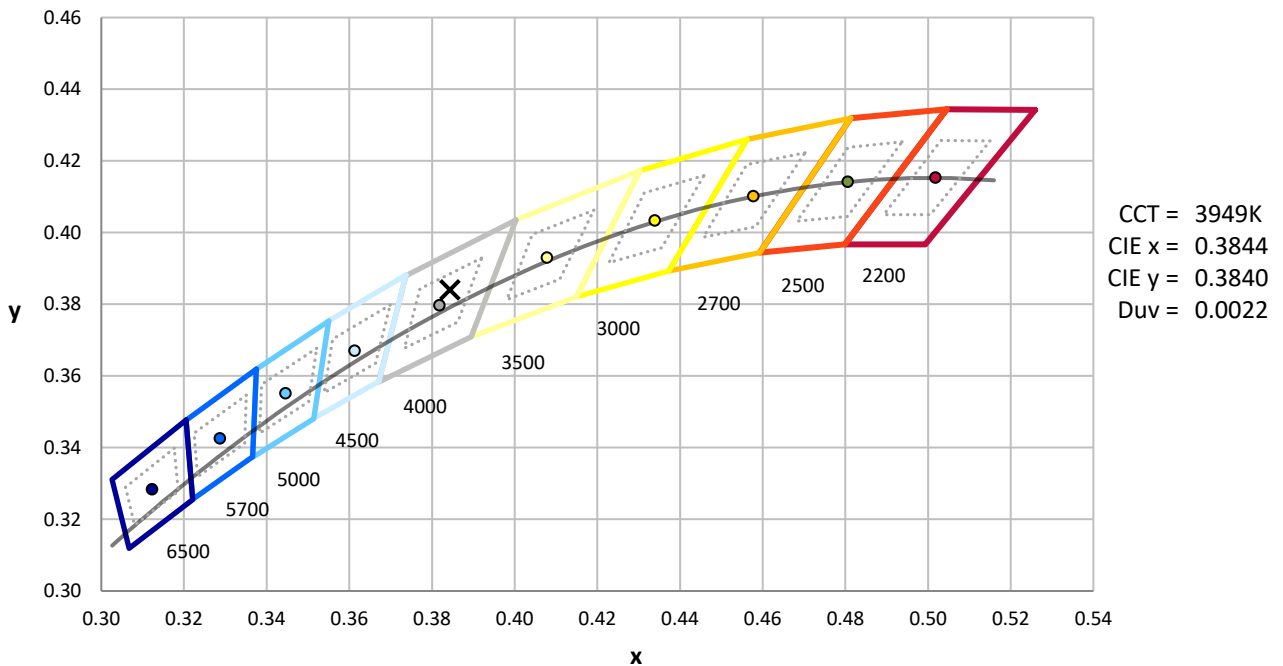
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



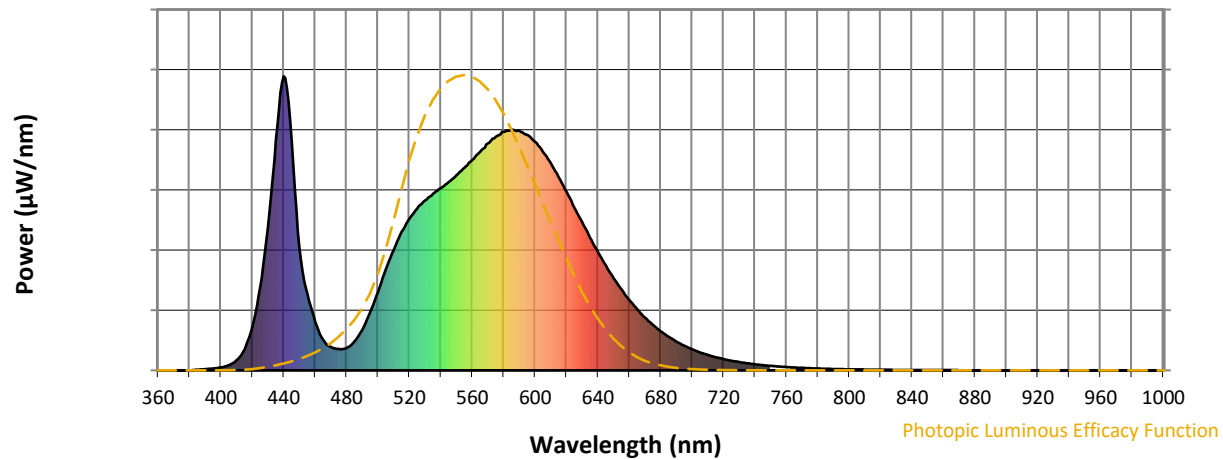
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

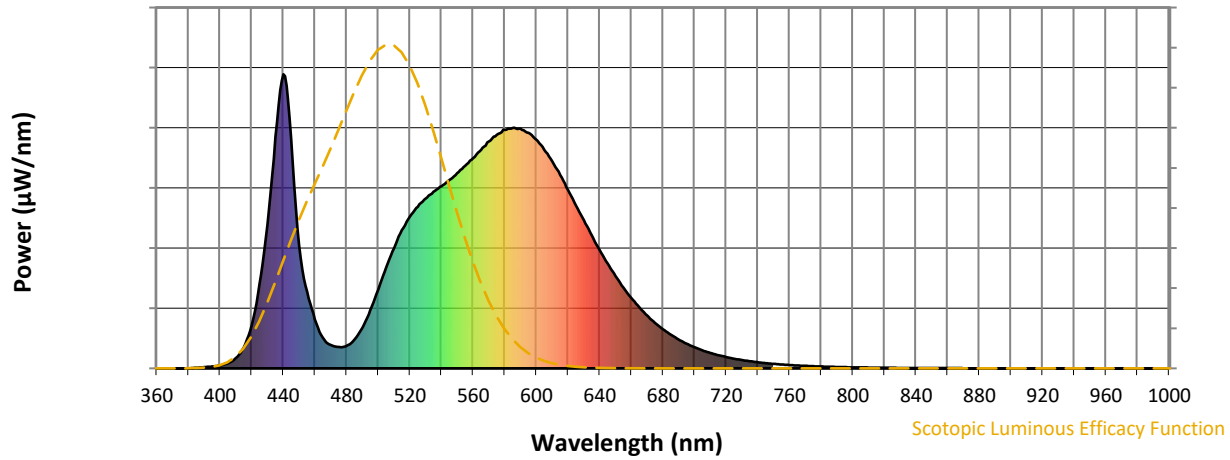


Photopic Lumens: NR

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



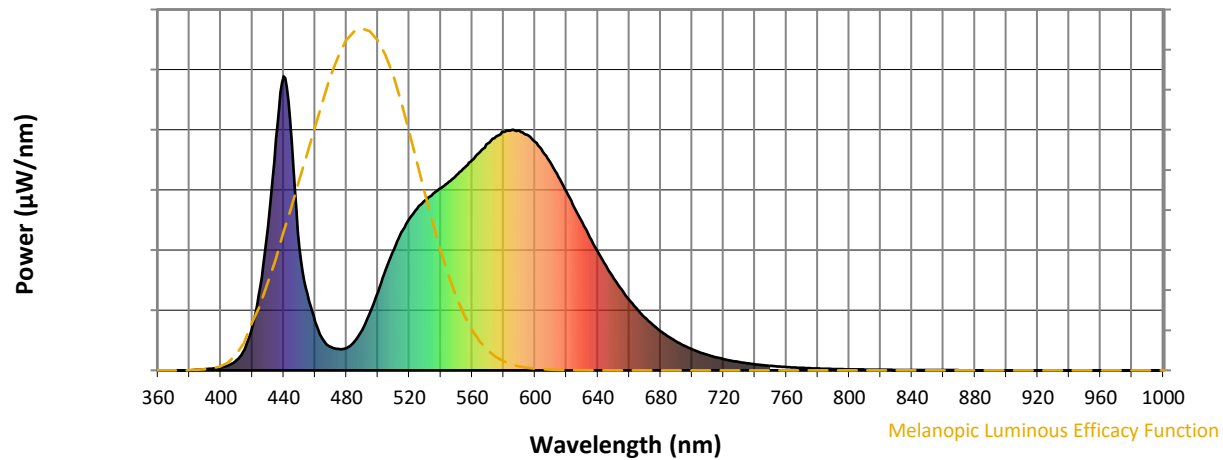
Scotopic Lumens: NR

S/P: 1.47

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

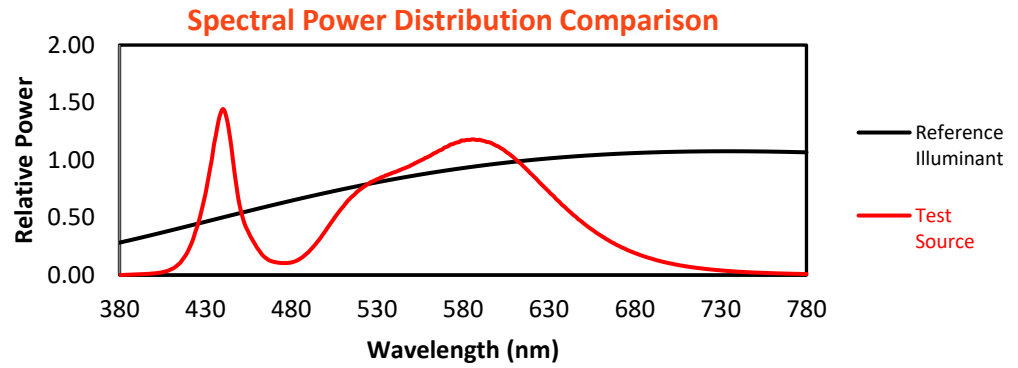
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	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

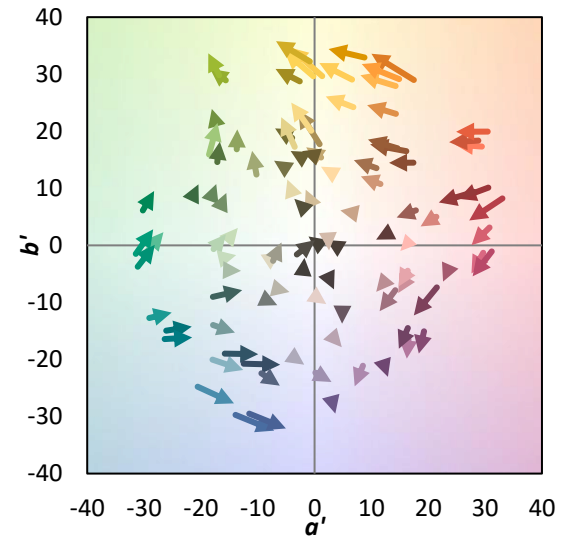
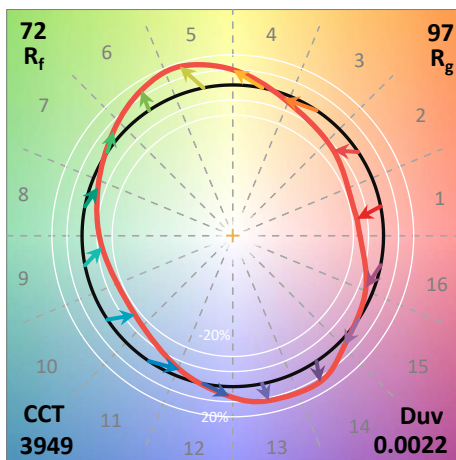
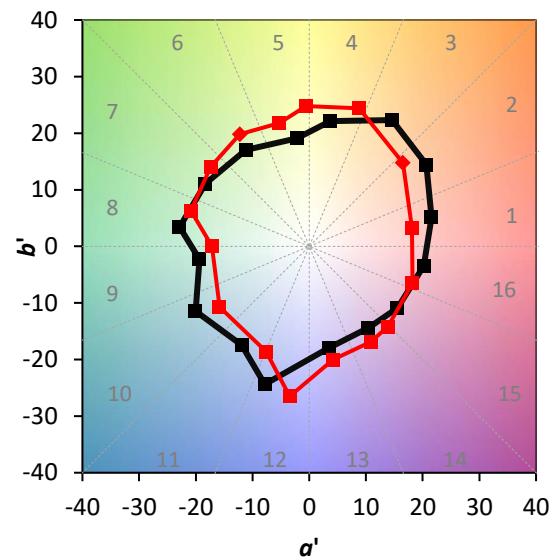
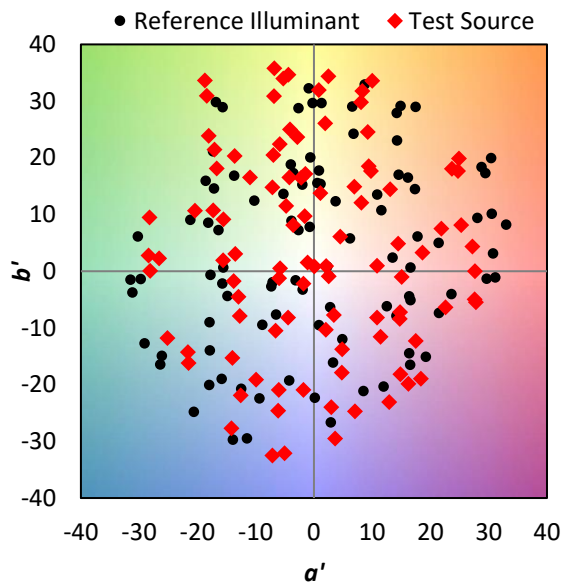
TM-30-18

Summary

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

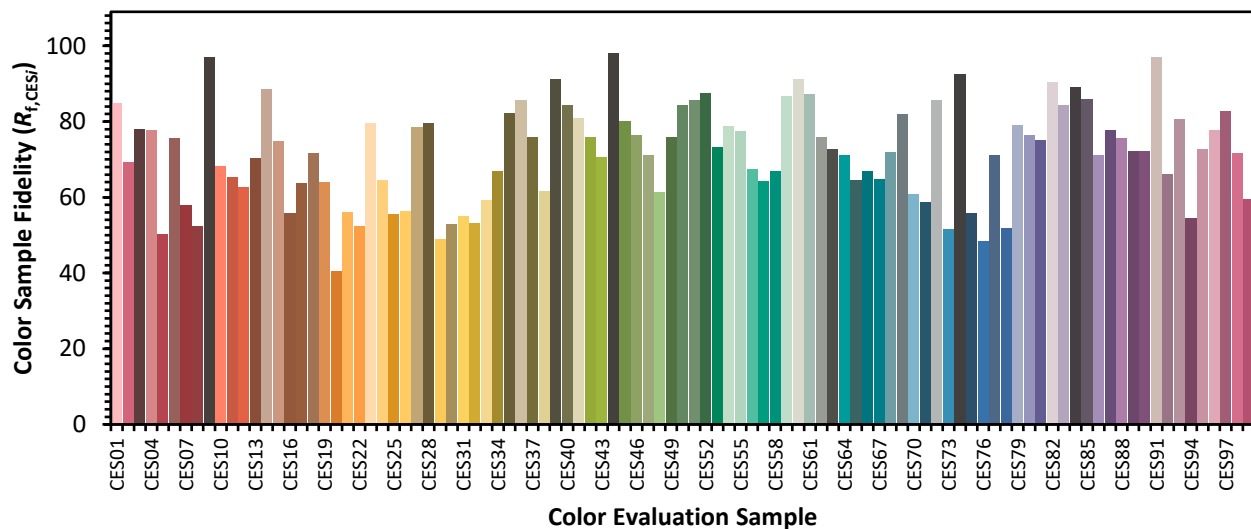


Color Vector Graphics

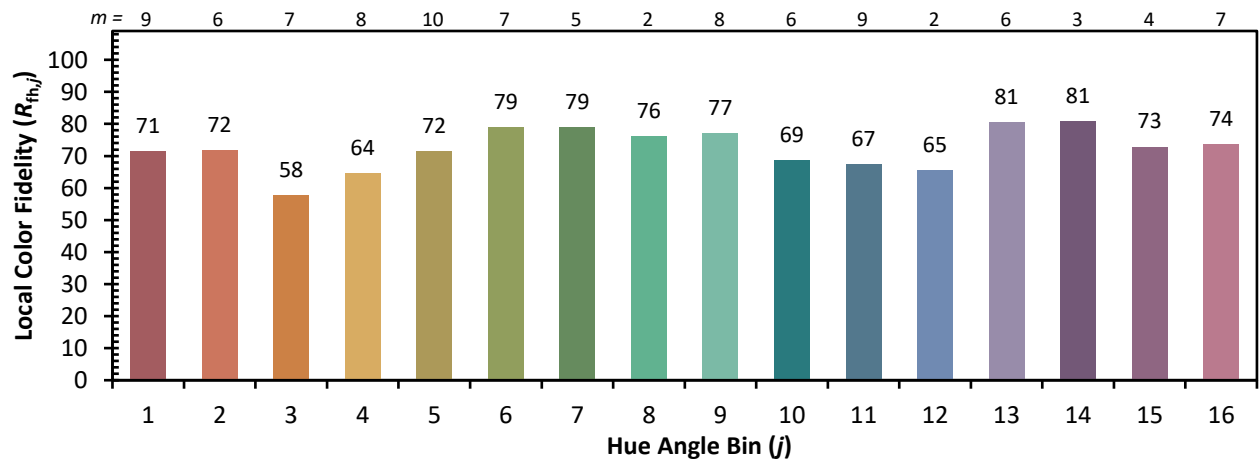
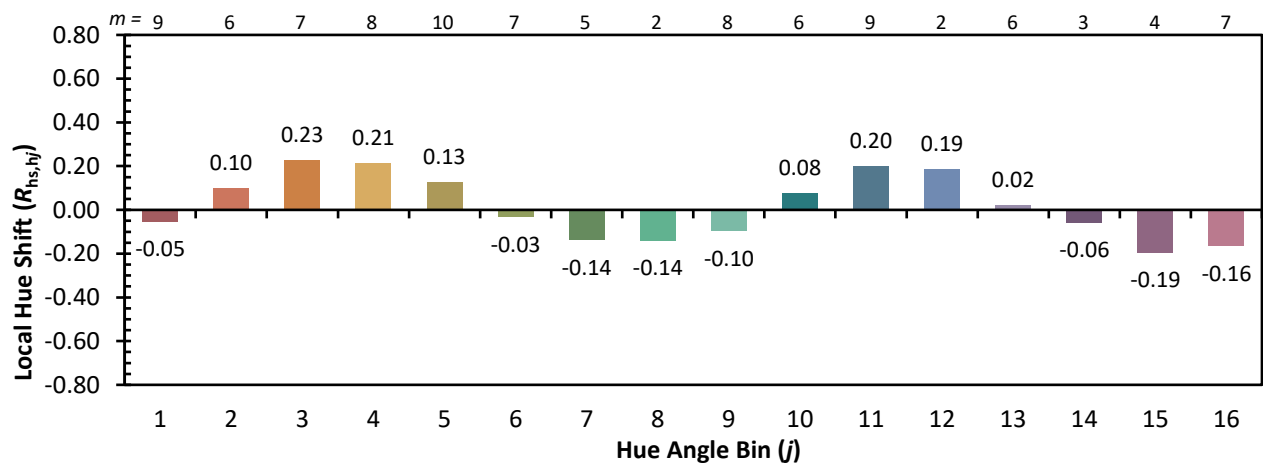
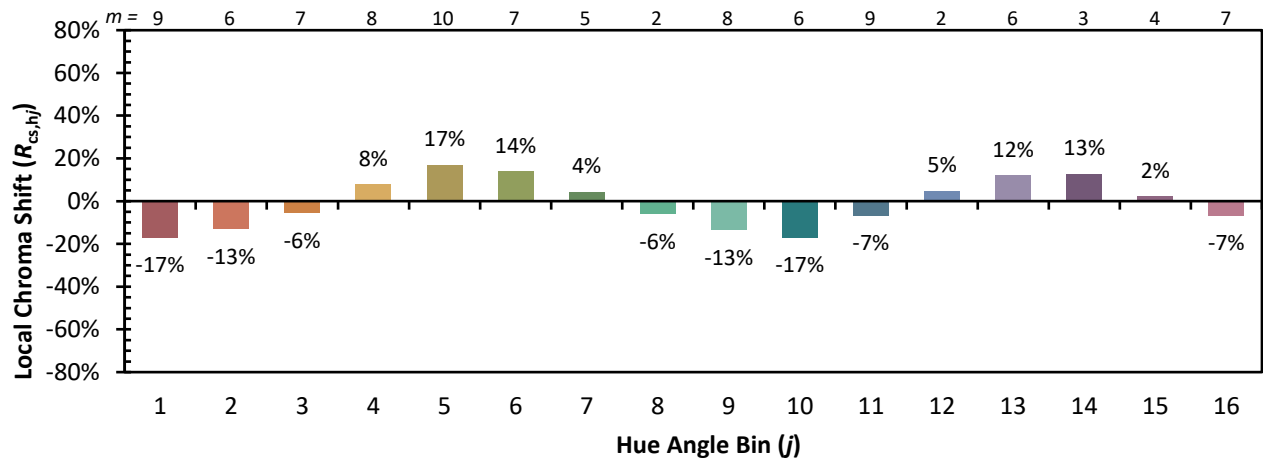


Individual Sample Fidelity Index ($R_{f,i}$)

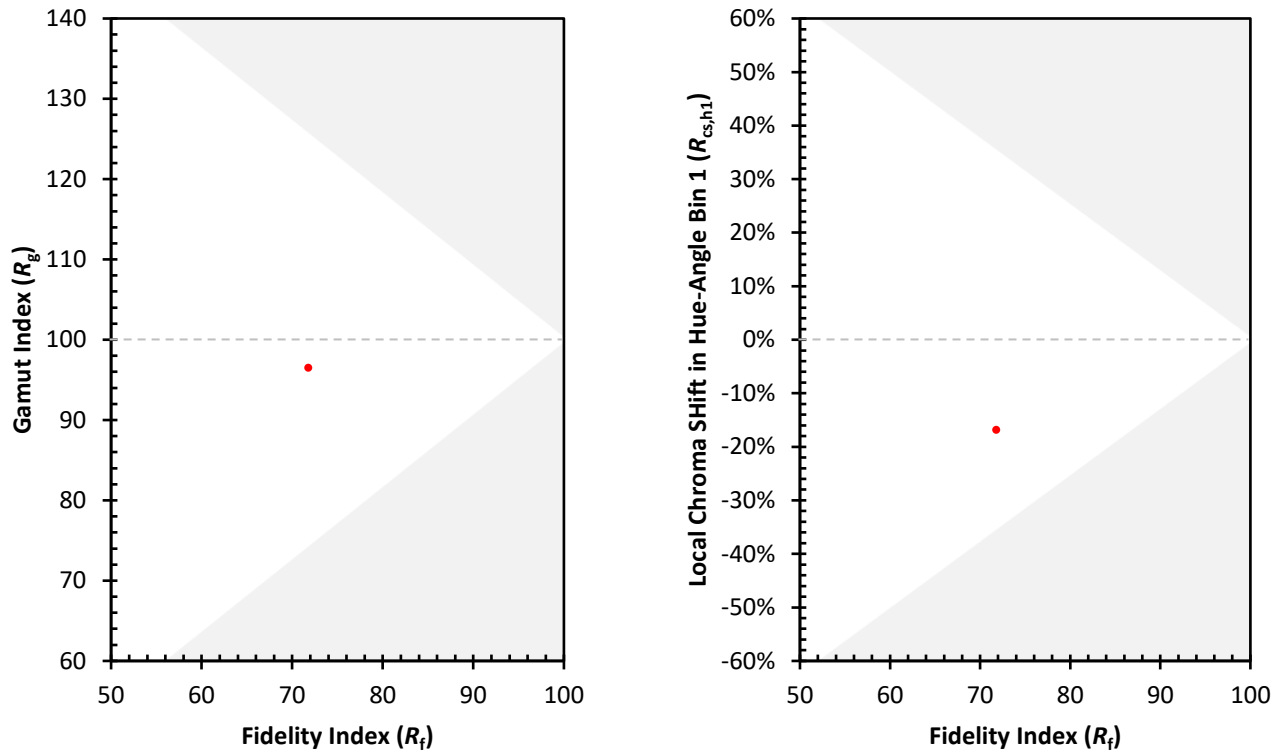
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 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)