

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: P1049627

Luminaire Tested: **GALN-SA6C-735-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049627
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 6xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29771.3 lumens
Efficiency: N/A
Efficacy: 105.4 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): 282.5
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

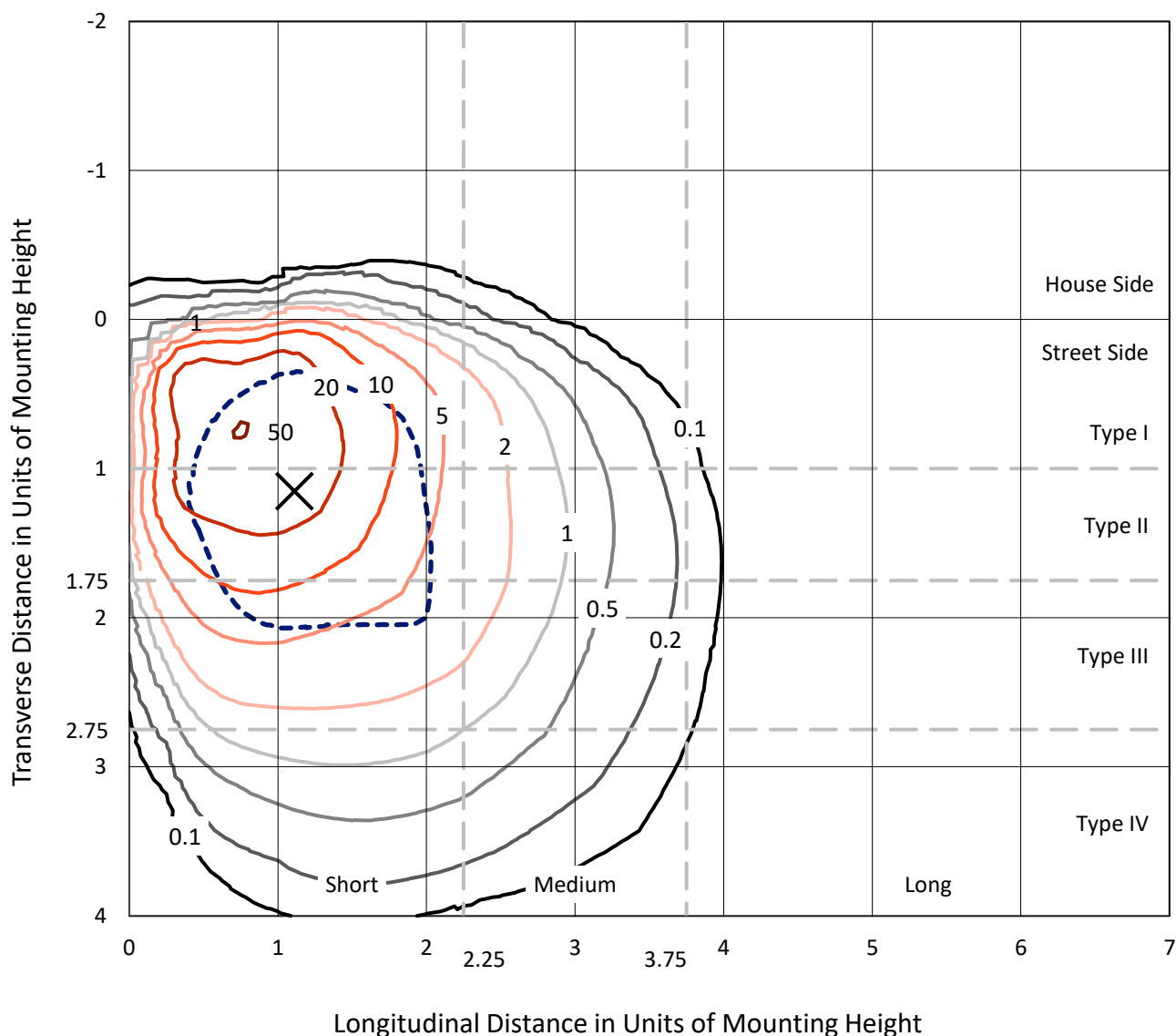
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

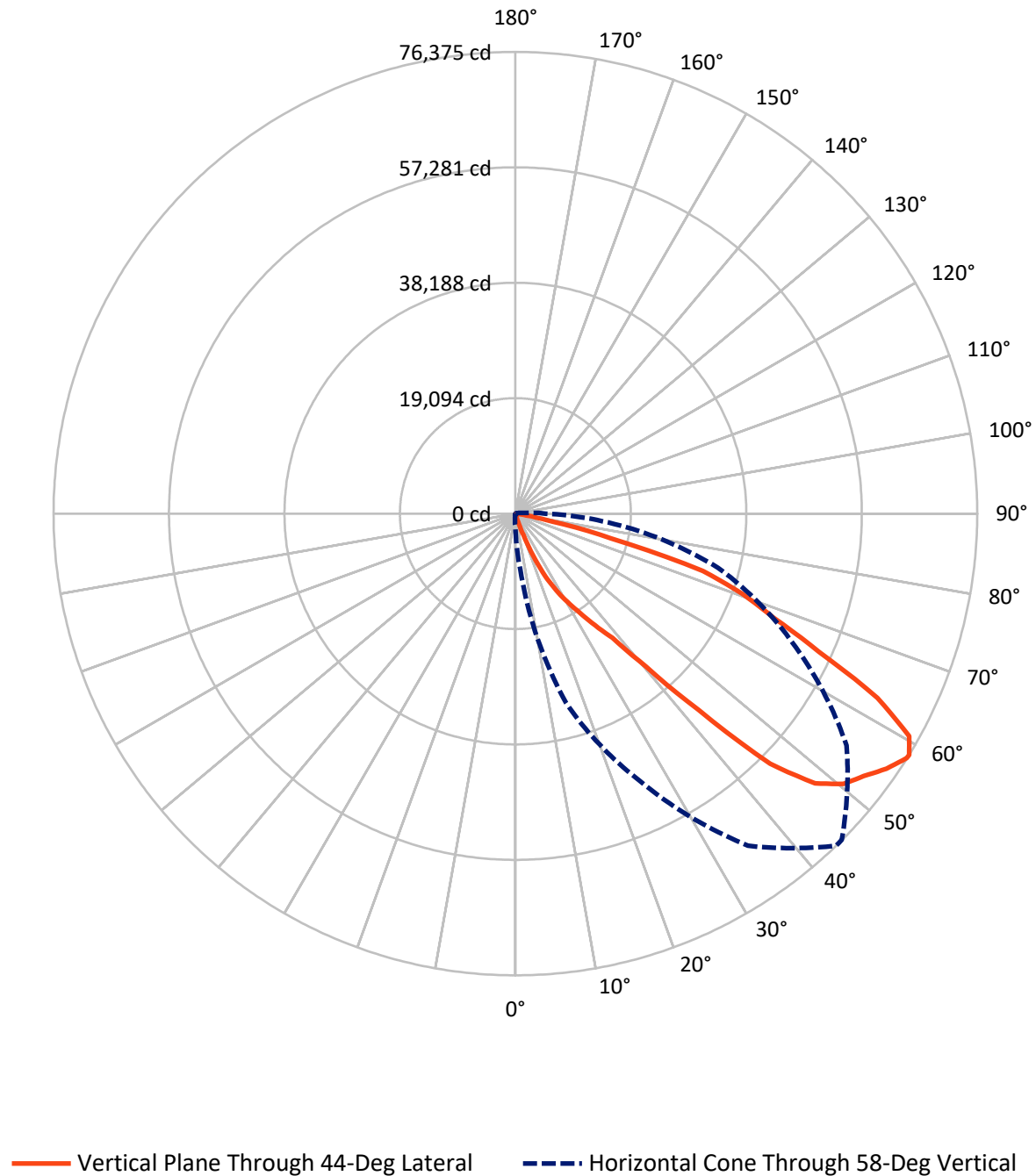


Based on 20 foot mounting height. Maximum calculated value = 51.8 fc

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	203.3	0.0	203.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	29568.1	0.0	29568.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	29771.3	0.0	29771.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	0.0
10°-20°	65.3	0.2
20°-30°	705.3	2.4
30°-40°	2085.8	7.0
40°-50°	6216.7	20.9
50°-60°	9864.4	33.1
60°-70°	8228.1	27.6
70°-80°	2537.7	8.5
80°-90°	56.4	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°	29771.3	100.0
0°-180°	29771.3	100.0



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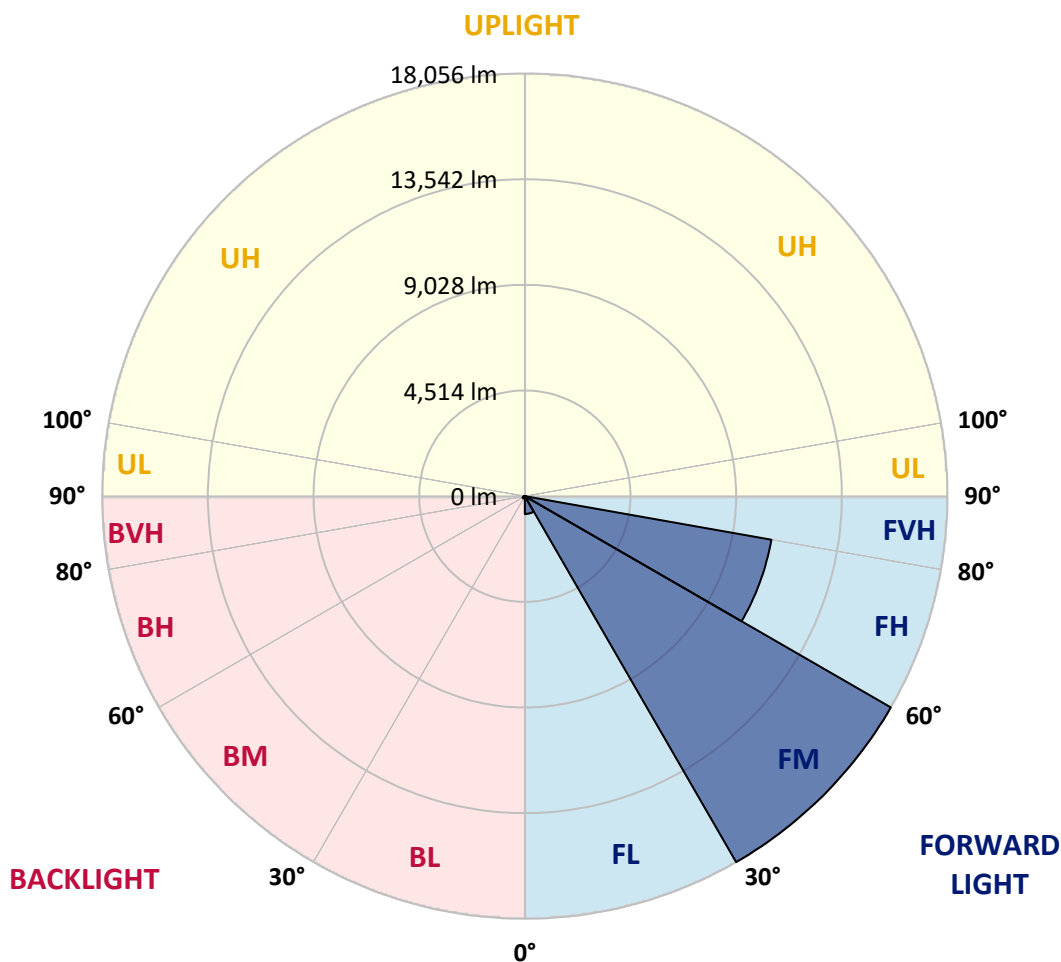
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	762.3	2.6			
FM	(30°-60°)	18055.7	60.6			
FH	(60°-80°)	10696.4	35.9			G4/12000
FVH	(80°-90°)	53.6	0.2			G1/100
BL	(0°-30°)	19.9	0.1	B0/110		
BM	(30°-60°)	111.3	0.4	B0/220		
BH	(60°-80°)	69.4	0.2	B0/110		G0/110
BVH	(80°-90°)	2.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4
2.5°	168.7	168.7	161.9	152.9	143.9	134.9	132.7	128.2	125.9	123.7
5°	175.4	175.4	173.2	166.4	157.4	150.7	150.7	143.9	139.4	134.9
7.5°	179.9	182.2	186.7	184.4	179.9	173.2	173.2	168.7	161.9	150.7
10°	186.7	193.4	202.4	206.9	209.2	209.2	206.9	204.7	193.4	177.7
12.5°	193.4	206.9	229.4	251.9	265.4	283.4	281.1	276.6	247.4	213.7
15°	206.9	227.1	274.4	339.6	440.8	503.8	528.5	506.0	409.3	287.9
17.5°	222.6	256.4	398.1	710.7	1165.0	1380.9	1511.3	1405.6	931.1	546.5
20°	238.4	312.6	739.9	1841.9	3022.6	3728.8	3924.5	3618.6	2323.2	1041.3
22.5°	265.4	438.5	1500.1	3807.5	6513.0	7572.3	7772.4	6794.1	4387.7	2055.6
25°	321.6	636.5	2586.3	6204.9	9720.1	11508.0	11424.8	10142.9	7118.0	3283.5
27.5°	402.6	926.6	3911.0	8816.0	12792.2	14368.7	14557.6	12972.1	9488.4	4828.5
30°	519.5	1284.2	5332.3	10907.5	15254.8	16959.5	16991.0	15351.5	11609.2	6184.7
32.5°	632.0	1621.5	6576.0	12929.3	17681.4	19550.3	19689.8	17672.4	13192.5	7597.0
35°	717.4	1841.9	7835.4	14706.0	20128.3	22703.4	22694.4	20299.2	15068.1	8858.7
37.5°	724.2	2062.3	8975.6	16523.2	23227.4	26110.6	26396.2	23755.9	17335.1	10419.5
40°	708.4	2309.7	10419.5	19356.9	28811.6	33235.3	33487.2	30158.7	21882.5	13091.3
42.5°	726.4	2739.2	12762.9	24590.3	38084.1	44437.4	44923.2	41423.8	30241.9	18542.8
45°	820.9	3546.6	17672.4	33345.5	51301.3	59046.8	58884.8	53844.9	39968.7	26841.5
47.5°	1133.5	5523.5	24950.1	41866.9	59748.4	66646.0	66785.5	60625.5	45645.1	33221.8
50°	1743.0	8451.6	31065.1	46371.6	63380.5	70300.6	70170.2	63052.2	47801.9	36363.6
52.5°	2267.0	10570.2	34132.7	47952.6	63846.1	72106.5	72097.6	63690.9	48137.0	36633.5
55°	2397.4	10729.8	34157.4	48038.0	64889.6	74470.2	74767.1	65262.9	48571.1	35455.0
57.5°	2345.7	9499.7	32731.5	48532.8	66747.2	76298.6	76314.4	66785.5	49673.0	34733.1
58°	2300.7	9306.2	32443.7	48813.9	67066.6	76375.1	76336.9	66855.2	50570.4	34706.1
60°	2048.8	8080.6	31321.4	49531.4	66592.1	74805.3	74447.7	65332.6	50437.7	34429.5
62.5°	1610.3	6303.9	30217.2	48701.5	61504.9	67206.0	67354.5	57841.3	45980.2	32817.0
65°	1281.9	4698.1	27914.2	42719.2	50646.9	55189.8	55743.0	47035.0	38378.7	27788.3
67.5°	1021.0	3395.9	23416.3	34011.2	40076.7	46061.2	46463.8	39489.7	29733.7	21291.0
70°	829.9	2296.2	16163.4	24873.6	33055.4	39784.3	39809.1	32805.8	22192.9	13950.4
72.5°	735.4	1590.0	9382.7	18140.2	26803.3	32418.9	31764.5	26621.1	17056.2	8262.7
75°	636.5	1054.8	4601.4	11089.7	16251.1	16361.3	16610.9	12349.1	8525.9	3929.0
77.5°	524.0	748.9	1812.7	3029.4	4873.5	6238.6	6470.3	4902.8	2836.0	967.1
80°	359.8	355.3	488.0	928.8	1394.4	1747.5	1630.5	1261.7	742.2	371.1
82.5°	155.2	168.7	220.4	265.4	215.9	209.2	200.2	128.2	99.0	76.5
85°	49.5	45.0	47.2	47.2	38.2	29.2	29.2	13.5	0.0	0.0
87.5°	24.7	20.2	20.2	18.0	11.2	4.5	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°
130.4	0°	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4
121.4	2.5°	119.2	119.2	114.7	110.2	108.0	103.5	101.2	99.0	96.7	94.5
130.4	5°	125.9	123.7	116.9	110.2	103.5	96.7	92.2	87.7	83.2	81.0
143.9	7.5°	137.2	132.7	119.2	108.0	99.0	90.0	85.5	78.7	74.2	67.5
159.7	10°	150.7	141.7	123.7	110.2	96.7	85.5	78.7	72.0	65.2	56.2
182.2	12.5°	168.7	152.9	130.4	108.0	92.2	78.7	72.0	63.0	56.2	49.5
211.4	15°	184.4	164.2	132.7	108.0	87.7	72.0	63.0	54.0	47.2	38.2
265.4	17.5°	206.9	173.2	130.4	101.2	81.0	63.0	54.0	47.2	36.0	22.5
393.6	20°	245.1	179.9	125.9	94.5	69.7	51.7	40.5	31.5	15.7	4.5
591.5	22.5°	305.9	197.9	121.4	85.5	60.7	40.5	27.0	11.2	0.0	0.0
899.6	25°	422.8	229.4	121.4	81.0	54.0	29.2	9.0	0.0	0.0	0.0
1277.4	27.5°	562.2	272.1	121.4	69.7	42.7	15.7	0.0	0.0	0.0	0.0
1740.7	30°	703.9	319.4	121.4	60.7	33.7	2.2	0.0	0.0	0.0	0.0
2143.3	32.5°	838.9	359.8	123.7	51.7	22.5	0.0	0.0	0.0	0.0	0.0
2701.0	35°	976.1	366.6	121.4	45.0	13.5	0.0	0.0	0.0	0.0	0.0
3384.7	37.5°	1151.5	353.1	114.7	40.5	6.7	0.0	0.0	0.0	0.0	0.0
4453.0	40°	1416.9	359.8	108.0	38.2	2.2	0.0	0.0	0.0	0.0	0.0
6357.8	42.5°	1907.1	389.1	99.0	38.2	0.0	0.0	0.0	0.0	0.0	0.0
10127.1	45°	3297.0	521.8	90.0	40.5	0.0	0.0	0.0	0.0	0.0	0.0
15203.1	47.5°	5453.8	937.8	87.7	40.5	0.0	0.0	0.0	0.0	0.0	0.0
18313.4	50°	6960.6	1180.7	92.2	42.7	0.0	0.0	0.0	0.0	0.0	0.0
18702.5	52.5°	6949.3	1315.6	96.7	45.0	9.0	0.0	0.0	0.0	0.0	0.0
17238.4	55°	6177.9	1340.4	103.5	49.5	29.2	0.0	0.0	0.0	0.0	0.0
14814.0	57.5°	5163.6	1223.4	119.2	60.7	54.0	0.0	0.0	0.0	0.0	0.0
14433.9	58°	4983.7	1169.5	123.7	63.0	58.5	0.0	0.0	0.0	0.0	0.0
12520.0	60°	4084.1	953.6	157.4	78.7	78.7	0.0	0.0	0.0	0.0	0.0
10264.3	62.5°	2820.2	832.1	179.9	101.2	81.0	0.0	0.0	0.0	0.0	0.0
7567.8	65°	1994.8	751.2	195.7	108.0	65.2	0.0	0.0	0.0	0.0	0.0
5377.3	67.5°	1491.1	692.7	215.9	110.2	33.7	0.0	0.0	0.0	0.0	0.0
3373.5	70°	1142.5	650.0	265.4	116.9	9.0	0.0	0.0	0.0	0.0	0.0
2010.6	72.5°	931.1	600.5	321.6	121.4	0.0	0.0	0.0	0.0	0.0	0.0
1205.4	75°	771.4	542.0	310.4	132.7	0.0	0.0	0.0	0.0	0.0	0.0
643.2	77.5°	512.8	420.6	283.4	132.7	0.0	0.0	0.0	0.0	0.0	0.0
229.4	80°	179.9	166.4	220.4	116.9	0.0	0.0	0.0	0.0	0.0	0.0
47.2	82.5°	27.0	22.5	31.5	40.5	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°
130.4	0°	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4
92.2	2.5°	92.2	92.2	90.0	92.2	92.2	96.7	108.0	123.7	141.7	148.4
78.7	5°	76.5	74.2	72.0	72.0	72.0	78.7	87.7	105.7	125.9	134.9
65.2	7.5°	63.0	60.7	58.5	56.2	56.2	60.7	72.0	92.2	112.4	121.4
54.0	10°	51.7	47.2	45.0	42.7	42.7	47.2	58.5	78.7	101.2	110.2
45.0	12.5°	42.7	36.0	31.5	29.2	27.0	33.7	45.0	63.0	87.7	99.0
33.7	15°	29.2	22.5	15.7	13.5	11.2	18.0	29.2	49.5	74.2	87.7
18.0	17.5°	15.7	6.7	2.2	0.0	0.0	4.5	13.5	36.0	60.7	72.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	45.0	56.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	27.0	38.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	20.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
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	6.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	18.0
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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
130.4	0°	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.4
155.2	2.5°	159.7	157.4	152.9	148.4	148.4	148.4	155.2	161.9	168.7	168.7
139.4	5°	148.4	148.4	146.2	141.7	141.7	143.9	152.9	164.2	173.2	175.4
128.2	7.5°	137.2	141.7	137.2	134.9	137.2	139.4	148.4	161.9	175.4	179.9
119.2	10°	130.4	132.7	132.7	130.4	130.4	134.9	143.9	161.9	179.9	186.7
108.0	12.5°	121.4	125.9	123.7	123.7	123.7	128.2	139.4	159.7	184.4	193.4
96.7	15°	112.4	119.2	119.2	116.9	116.9	119.2	134.9	157.4	191.2	206.9
83.2	17.5°	103.5	110.2	112.4	108.0	108.0	112.4	128.2	157.4	195.7	222.6
67.5	20°	85.5	96.7	103.5	96.7	96.7	101.2	116.9	148.4	197.9	238.4
49.5	22.5°	67.5	78.7	87.7	85.5	85.5	87.7	108.0	141.7	200.2	265.4
29.2	25°	49.5	60.7	67.5	72.0	72.0	78.7	99.0	137.2	209.2	321.6
13.5	27.5°	29.2	42.7	51.7	56.2	58.5	67.5	92.2	132.7	224.9	402.6
0.0	30°	13.5	24.7	36.0	45.0	45.0	60.7	85.5	128.2	245.1	519.5
0.0	32.5°	0.0	11.2	18.0	31.5	33.7	49.5	78.7	123.7	274.4	632.0
0.0	35°	0.0	0.0	9.0	24.7	24.7	40.5	72.0	119.2	319.4	717.4
0.0	37.5°	0.0	0.0	0.0	18.0	20.2	36.0	69.7	116.9	328.3	724.2
0.0	40°	0.0	0.0	0.0	13.5	15.7	33.7	69.7	119.2	296.9	708.4
0.0	42.5°	0.0	0.0	0.0	9.0	11.2	33.7	69.7	123.7	267.6	726.4
0.0	45°	0.0	0.0	0.0	6.7	9.0	36.0	67.5	121.4	251.9	820.9
0.0	47.5°	0.0	0.0	0.0	9.0	13.5	36.0	65.2	119.2	254.1	1133.5
0.0	50°	0.0	0.0	0.0	11.2	15.7	36.0	67.5	114.7	278.9	1743.0
0.0	52.5°	0.0	0.0	0.0	9.0	13.5	40.5	74.2	112.4	303.6	2267.0
0.0	55°	0.0	0.0	0.0	2.2	6.7	51.7	81.0	112.4	341.8	2397.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	58.5	92.2	119.2	404.8	2345.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	58.5	94.5	119.2	409.3	2300.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	58.5	103.5	132.7	440.8	2048.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	49.5	123.7	166.4	458.8	1610.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	40.5	146.2	182.2	472.3	1281.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	38.2	150.7	184.4	479.0	1021.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	40.5	148.4	197.9	501.5	829.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	45.0	134.9	218.2	501.5	735.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	47.2	125.9	245.1	456.5	636.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	45.0	123.7	285.6	407.1	524.0
0.0	80°	4.5	6.7	6.7	4.5	4.5	38.2	121.4	290.1	346.3	359.8
2.2	82.5°	13.5	18.0	15.7	11.2	11.2	33.7	108.0	242.9	179.9	155.2
13.5	85°	24.7	29.2	29.2	24.7	24.7	31.5	67.5	87.7	60.7	49.5
24.7	87.5°	33.7	38.2	38.2	33.7	33.7	31.5	29.2	27.0	24.7	24.7
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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

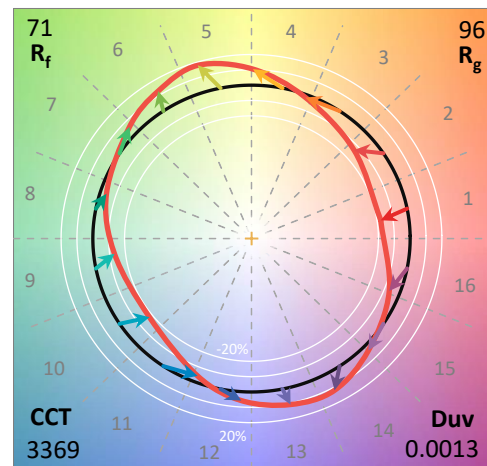
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 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-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3369	CRI (Ra):	70.1		
CIE u':	0.2386	R1:	66.6	R9:	-40.2
CIE v':	0.5156	R2:	77.6	R10:	49.1
Duv:	0.0013	R3:	88.5	R11:	66.3
CIE x:	0.4143	R4:	69.5	R12:	45.7
CIE y:	0.3980	R5:	66.4	R13:	68.0
CIE z:	0.1877	R6:	69.6	R14:	93.4
Peak Wavelength (nm):	590	R7:	77.5	R15:	57.6
Dominant Wavelength (nm):	580	R8:	44.9		
Purity:	43.80166				
Rf:	71.4				
Rg:	96				



Test Conditions

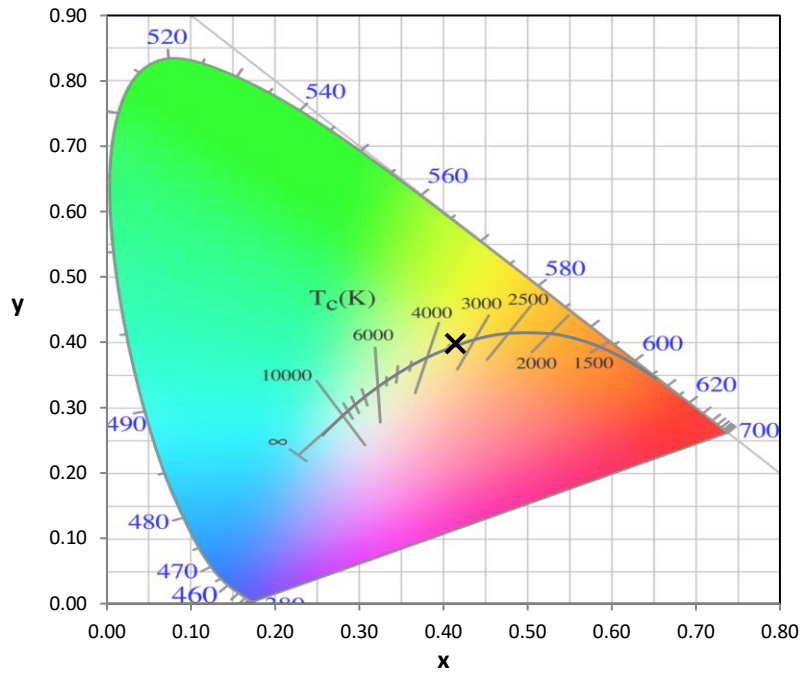
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

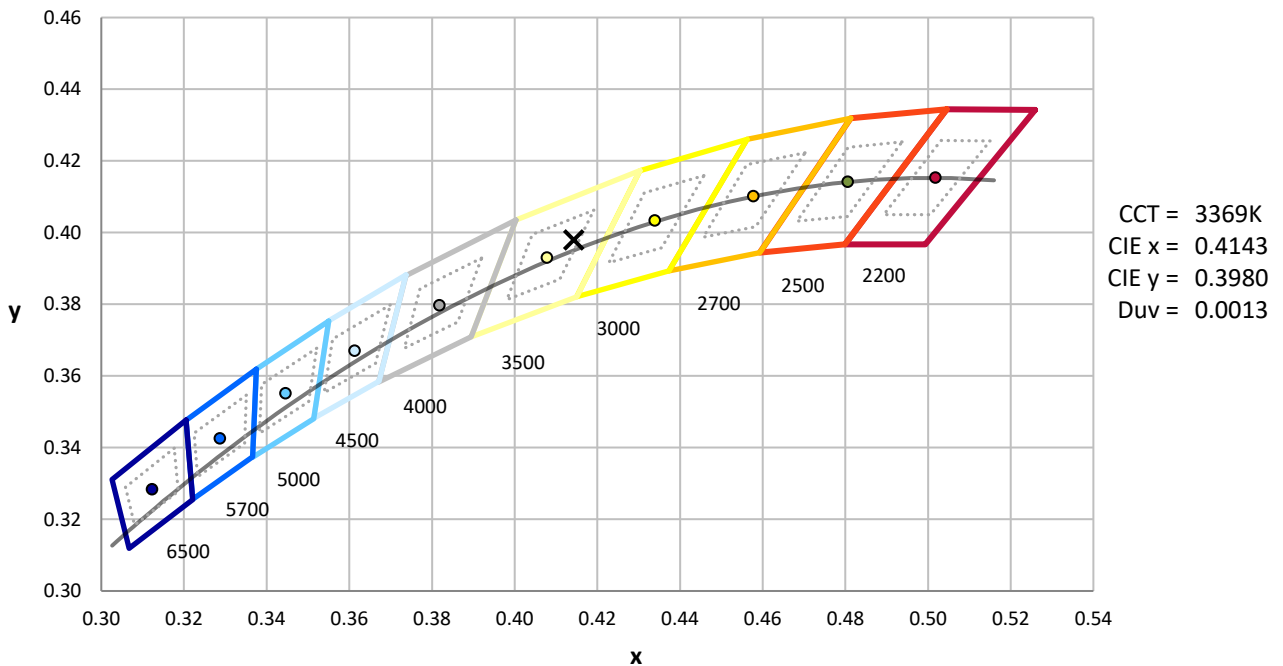
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



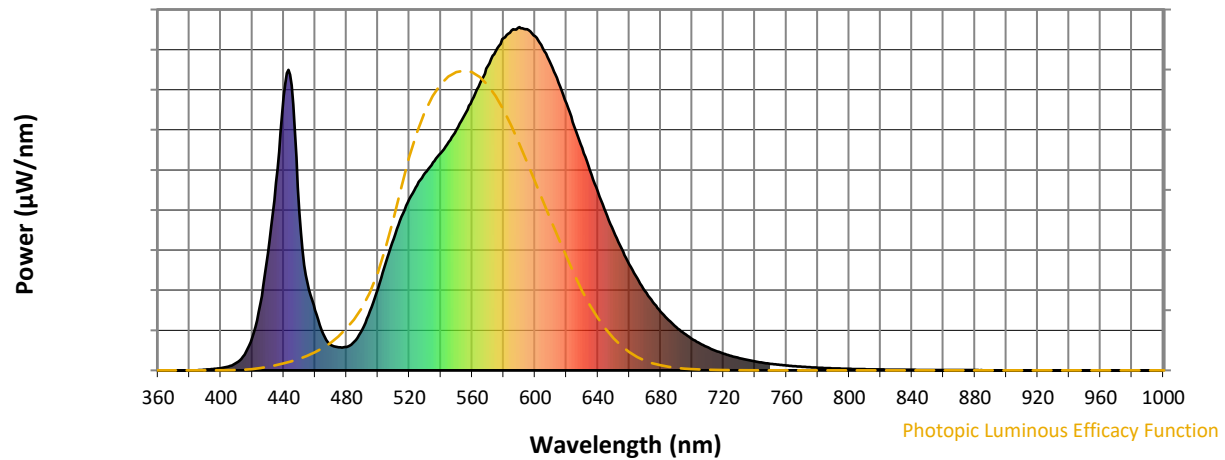
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

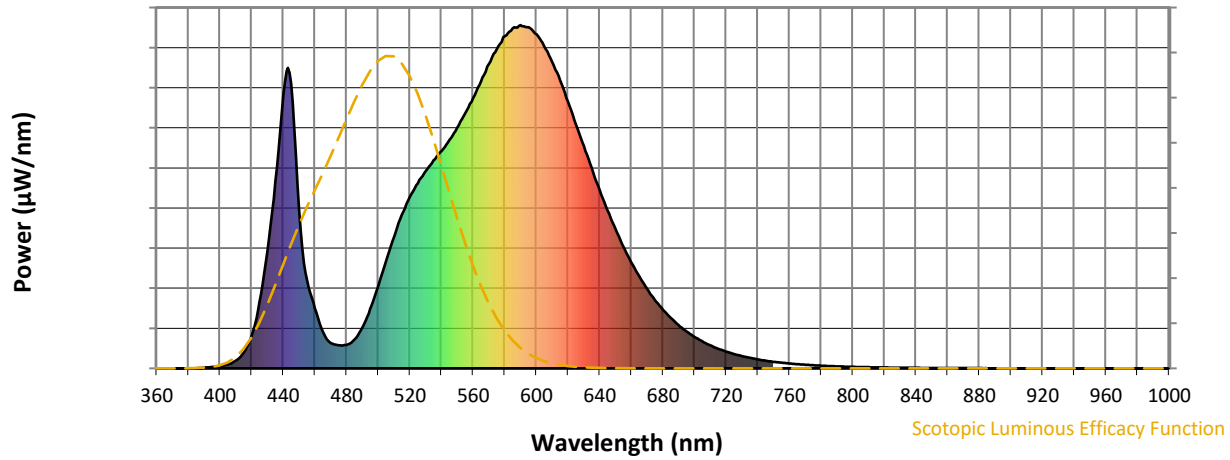


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



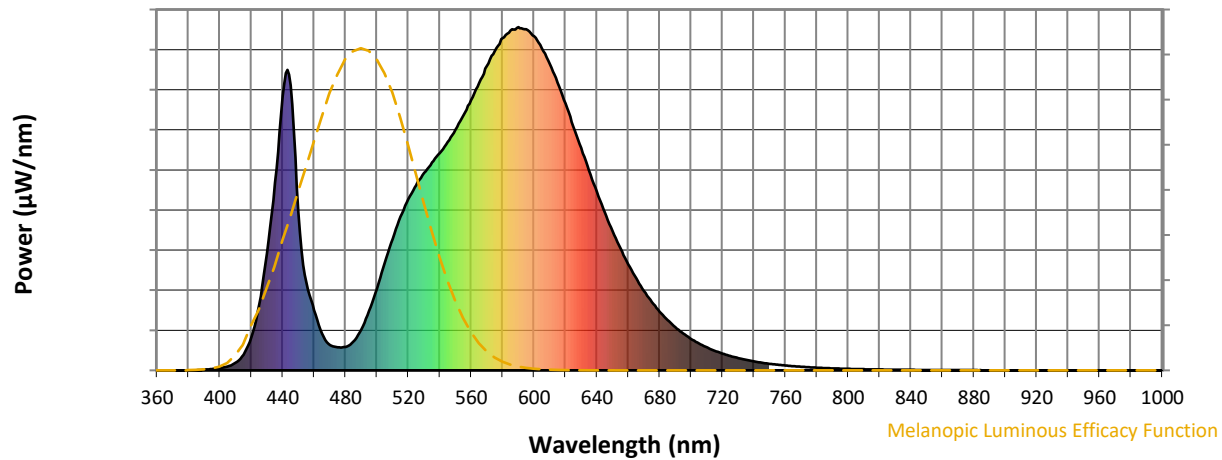
Scotopic Lumens: NR

S/P: 1.29

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.36

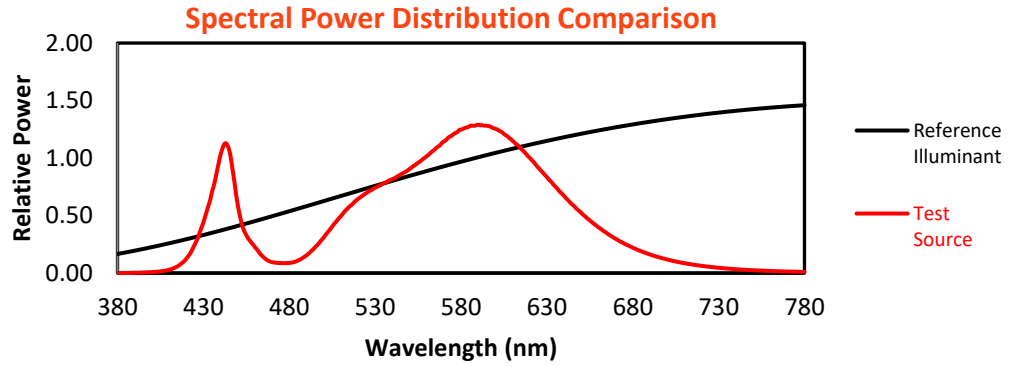
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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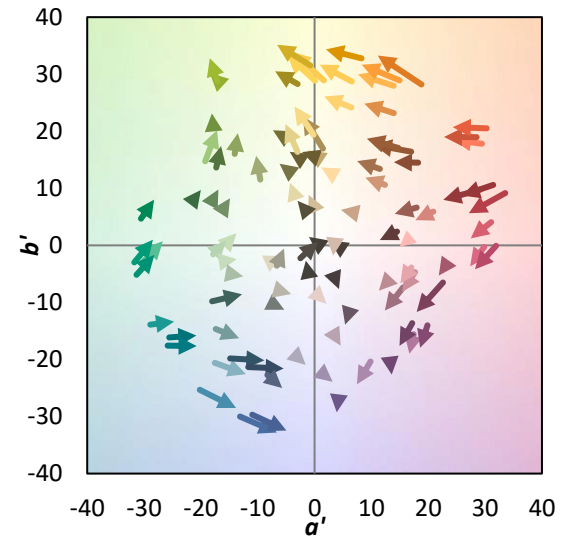
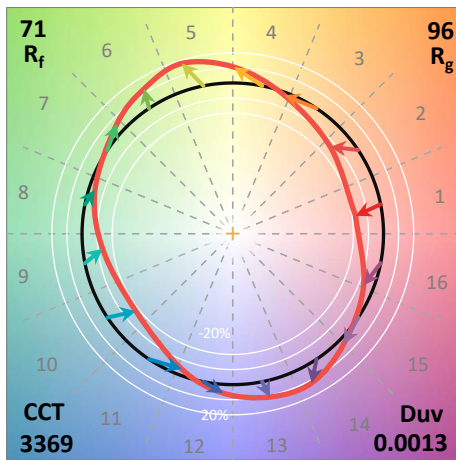
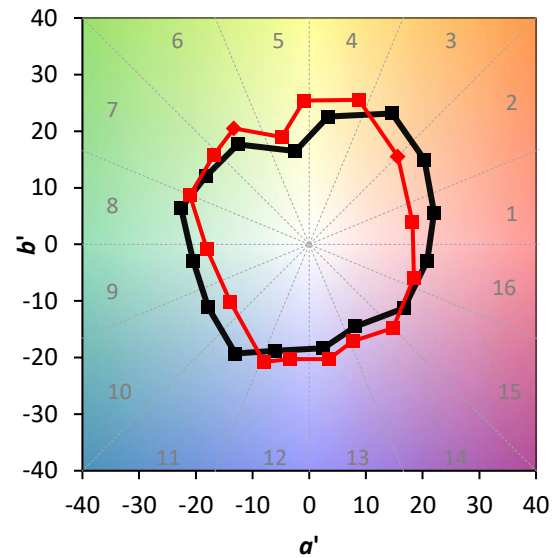
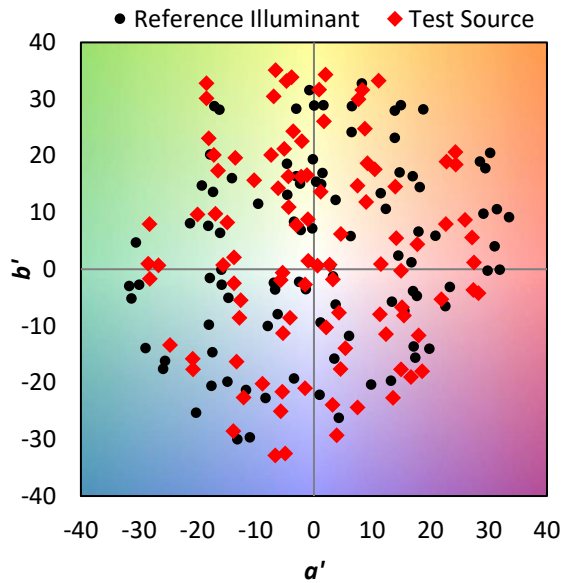
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 $CIE R_a = 70.1$
 $R_g = -40.2$

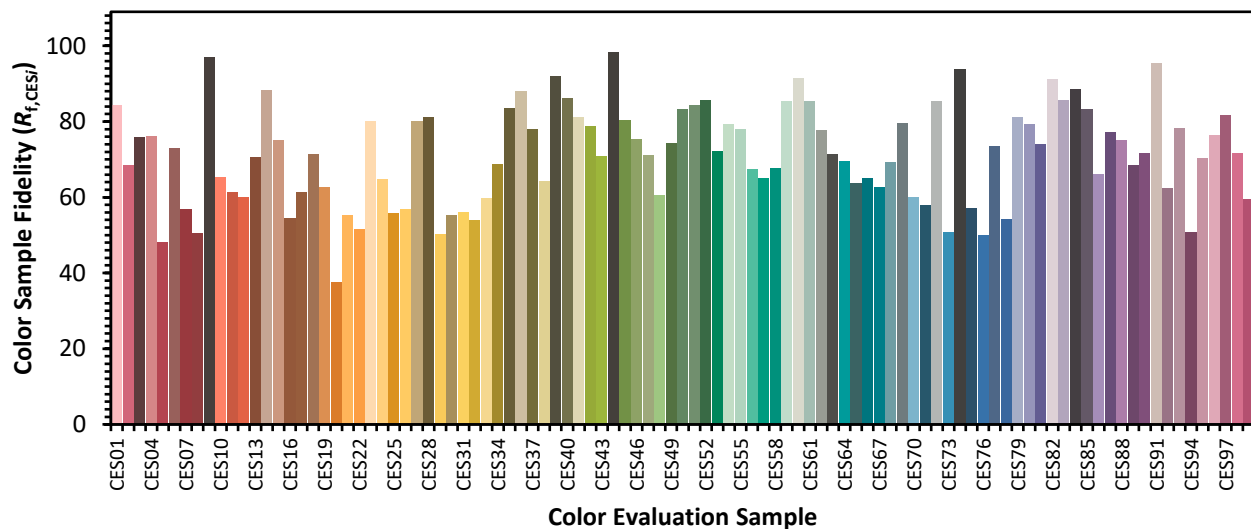


Color Vector Graphics

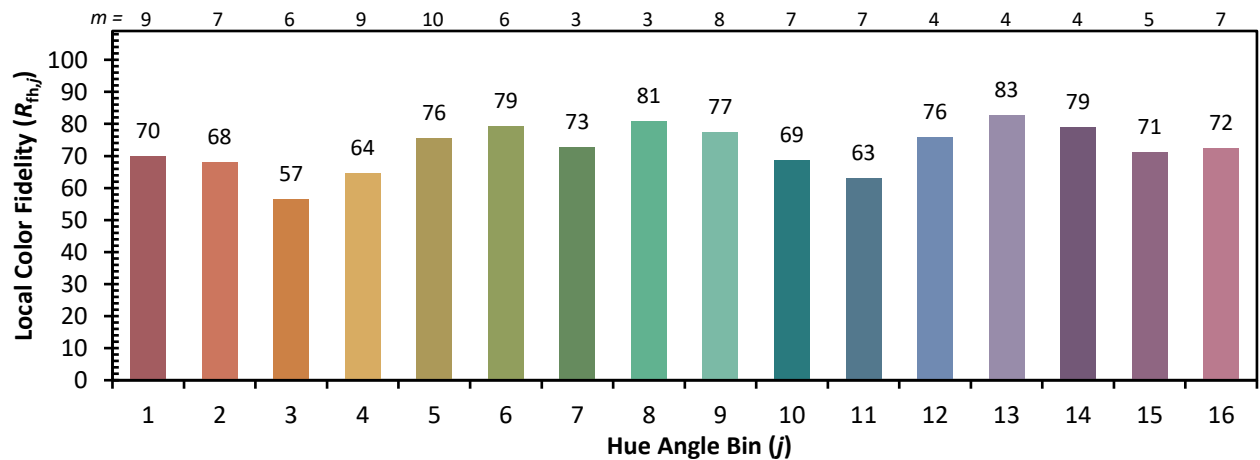
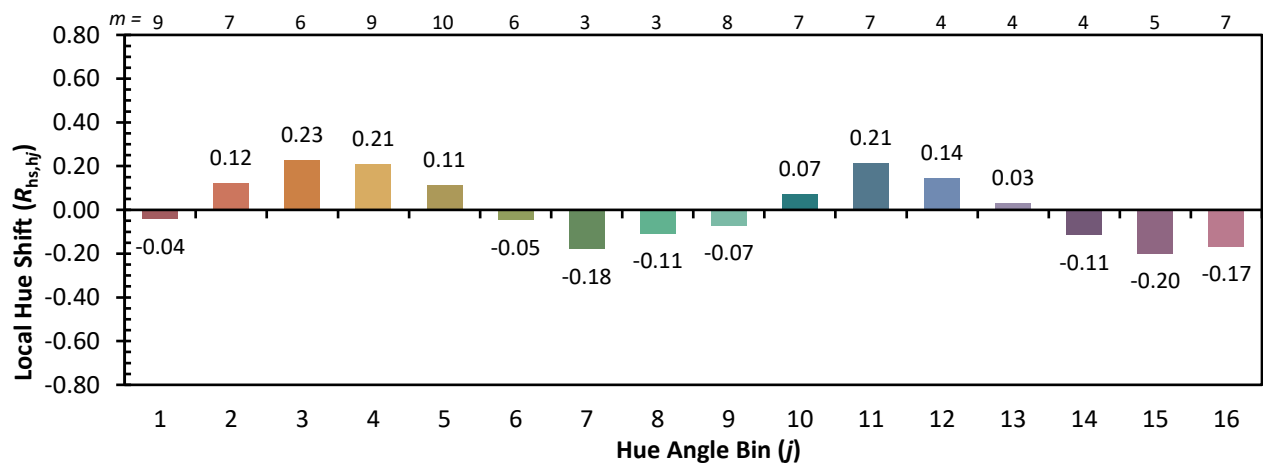
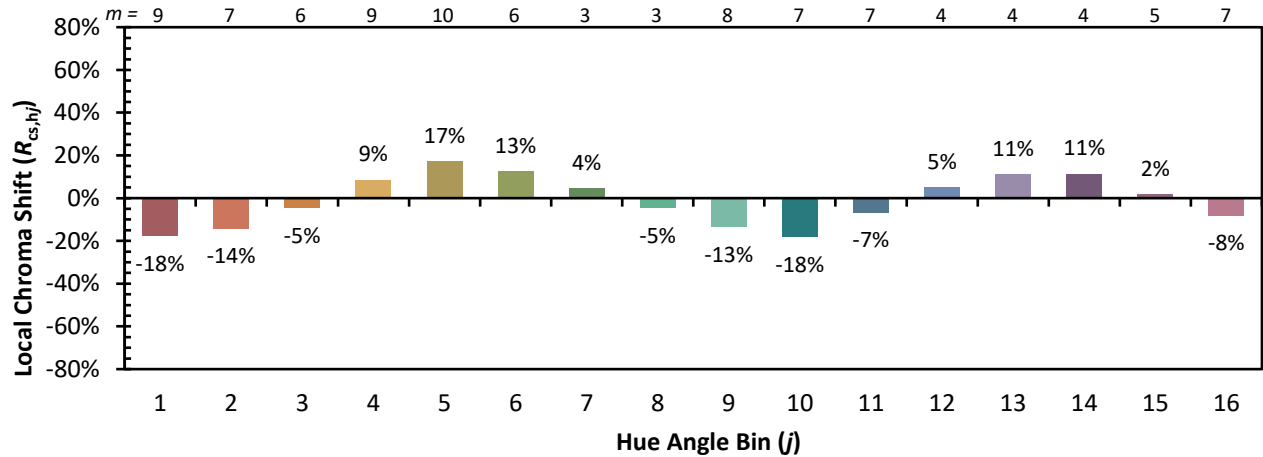


Individual Sample Fidelity Index ($R_{f,i}$)

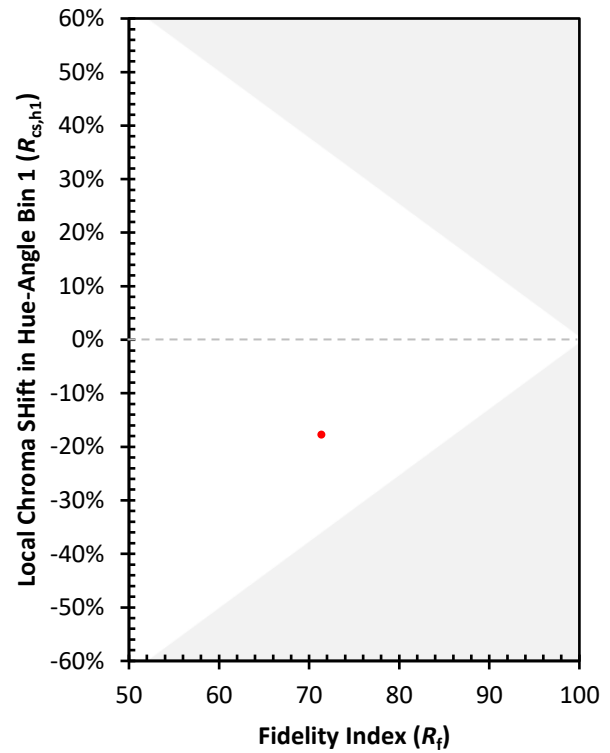
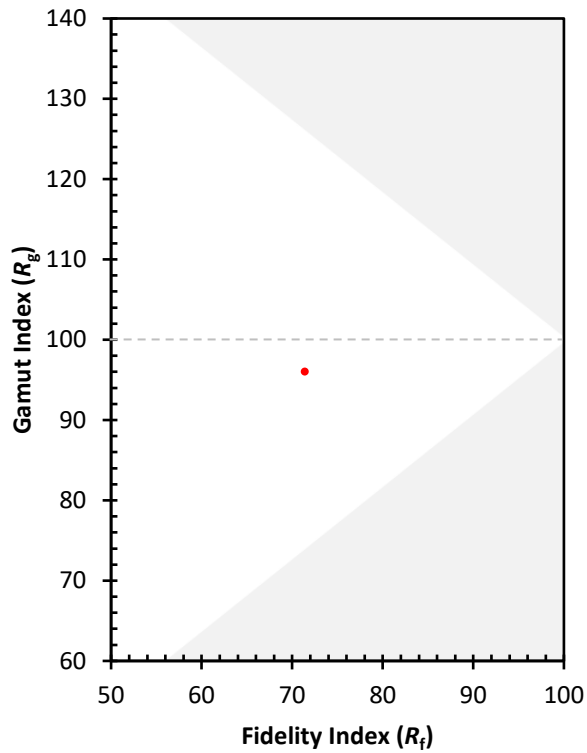
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



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TM-30-18
Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)