

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: INVUE

Report Number: P1442038

Luminaire Tested: ABB-C2-835-X-U-S-GM

Issue Date: 4/23/2026

Test Information

Test Method: LM-79-2024
Report Number: P1442038
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2509-539-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: INVUE
Catalog Number: ABB-C2-835-X-U-S-GM
Description: ARBOR OUTDOOR ARCHITECTURAL BOLLARD LUMINAIRE
SYMMETRIC OPTIC, GRAPHITE METALLIC PAINTED FINISH
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

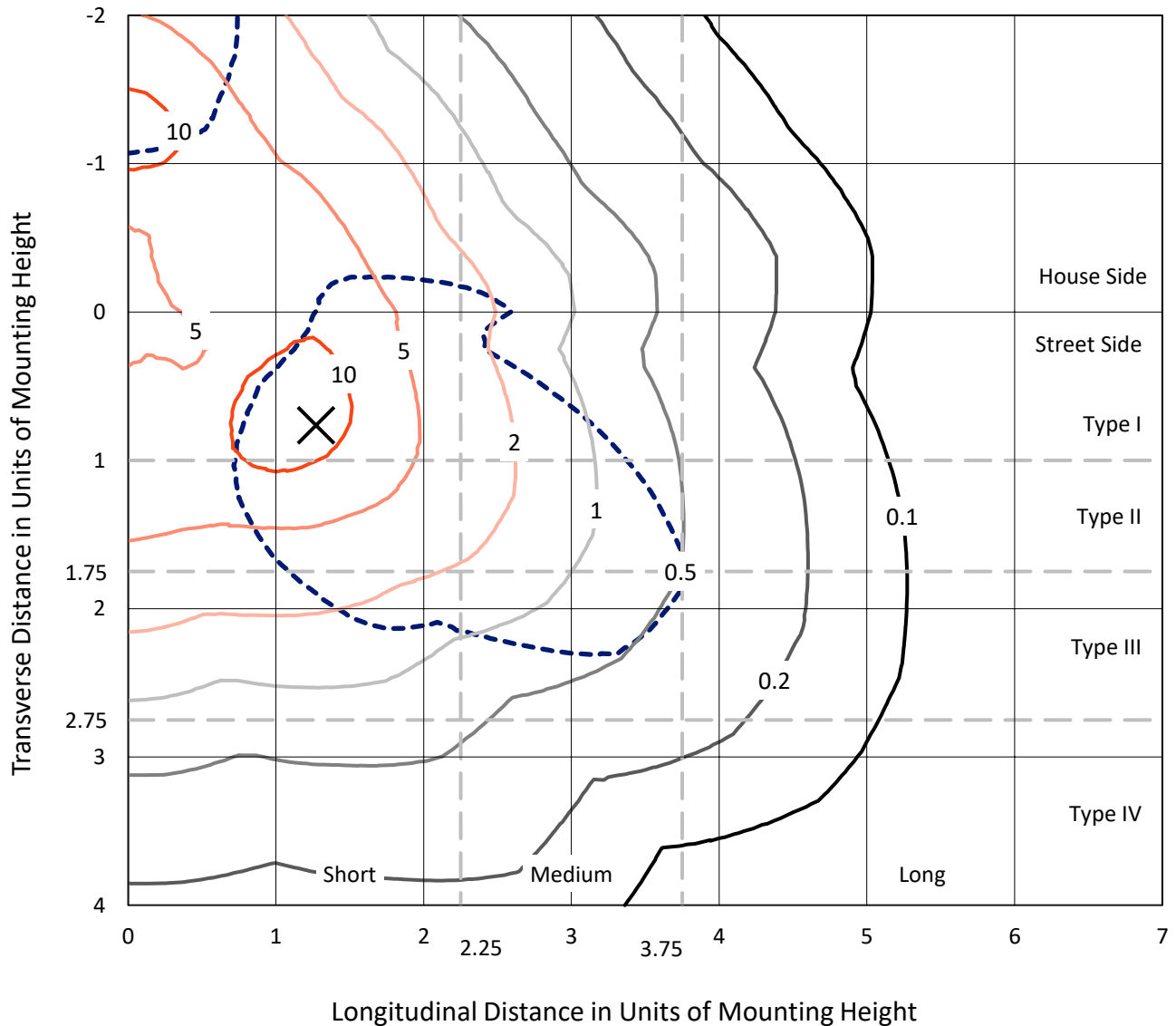
Lumens per Lamp: N/A
Luminaire Lumens: 1175.4 lumens
Efficiency: N/A
Efficacy: 42.9 lumens/watt
Luminous Opening: Circular (Dia: 0.4' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 27.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9937
Total Harmonic Distortion (THDi): 0.0861672
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
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

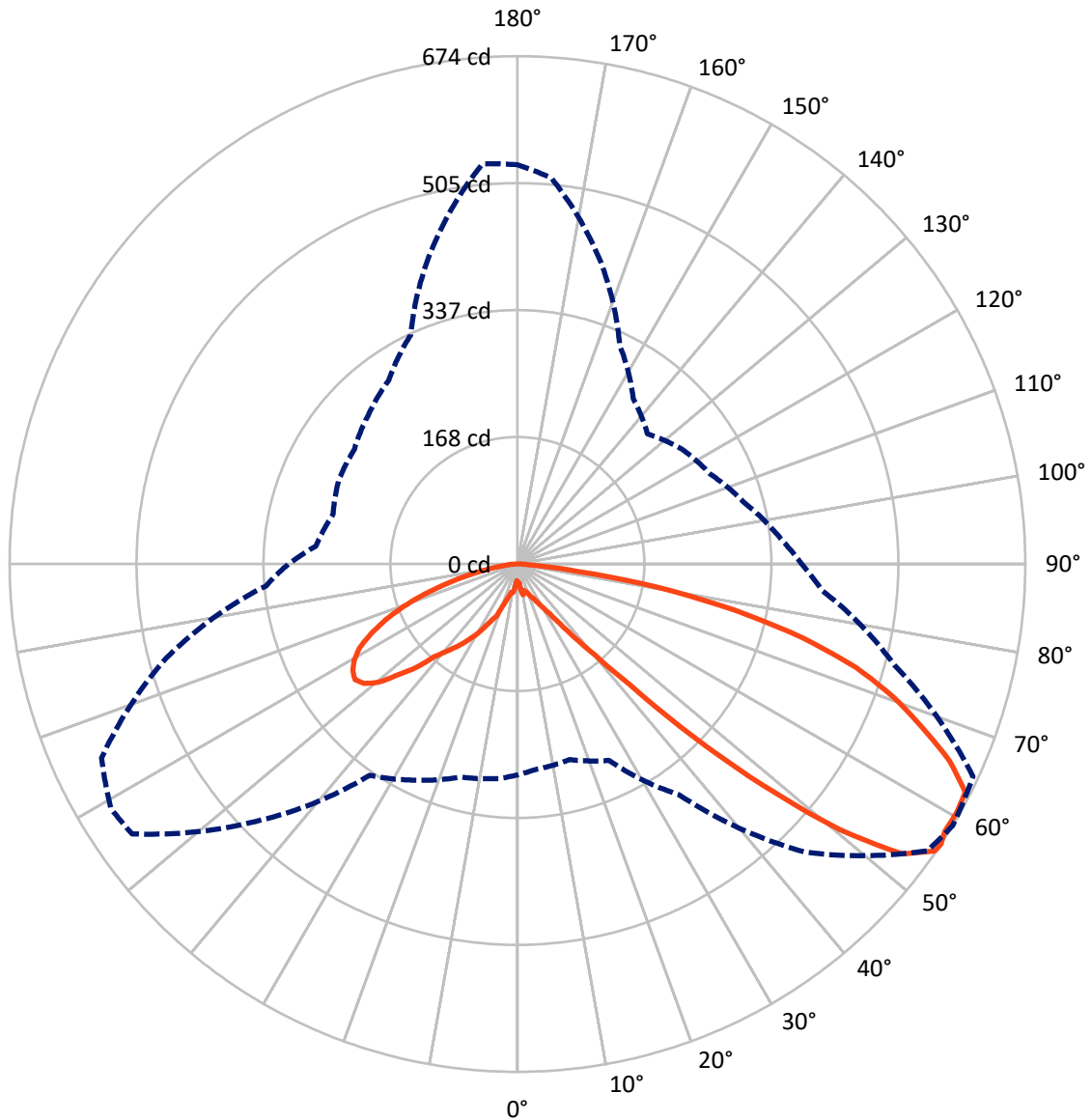


Based on 3 foot mounting height. Maximum calculated value = 16 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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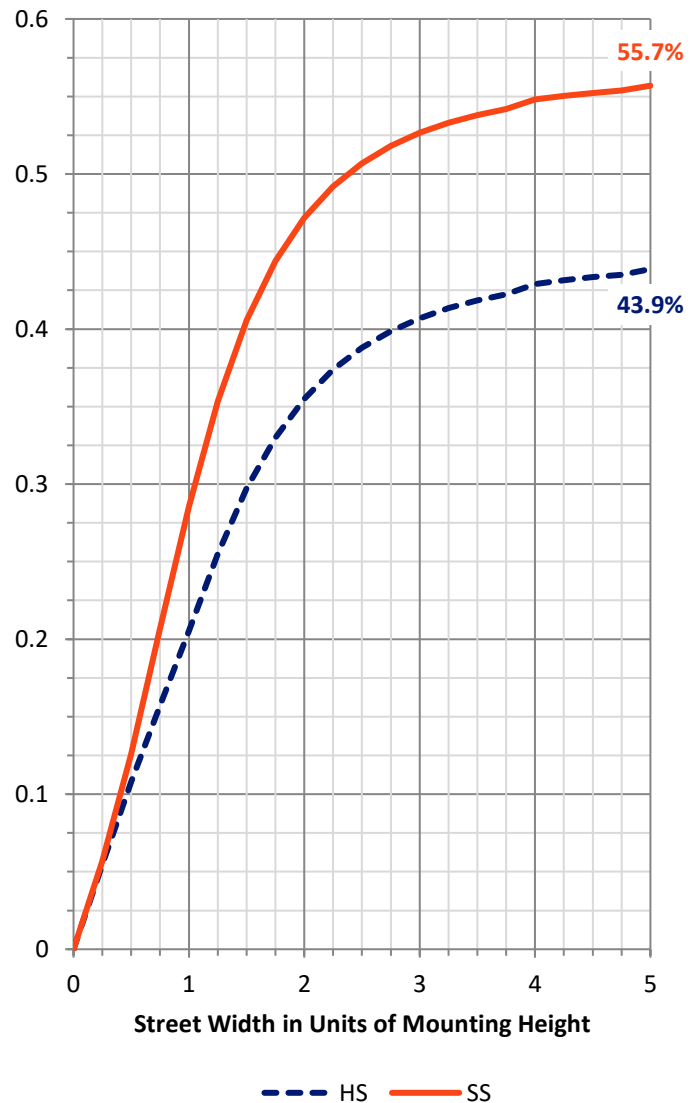
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	516.9	0.0	516.9
	% Fixture	44.0	0.0	44.0
Street Side	Lumens	658.5	0.0	658.5
	% Fixture	56.0	0.0	56.0
Total	Lumens	1175.4	0.0	1175.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.3
10°-20°	12.6	1.1
20°-30°	31.2	2.7
30°-40°	68.6	5.8
40°-50°	170.4	14.5
50°-60°	328.7	28.0
60°-70°	333.5	28.4
70°-80°	198.6	16.9
80°-90°	28.8	2.5
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°	1175.4	100.0
0°-180°	1175.4	100.0



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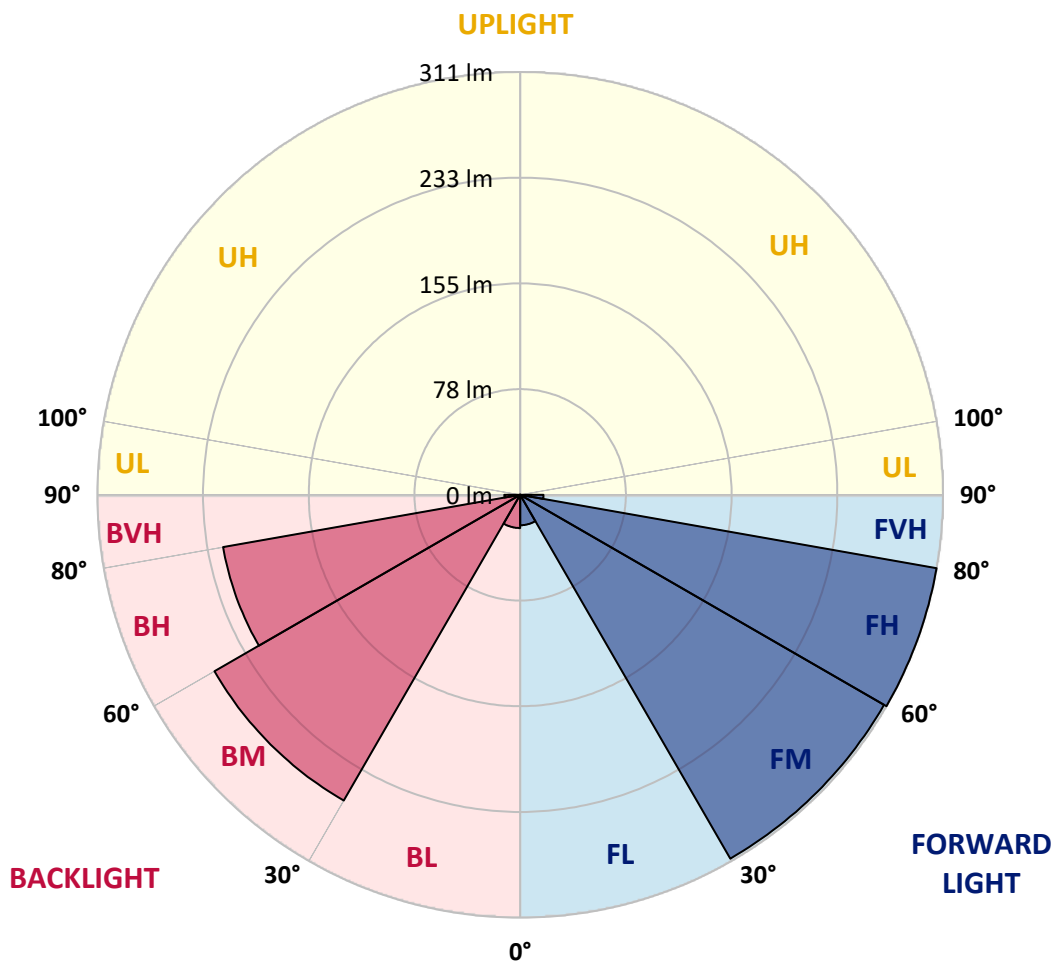
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	22.3	1.9			
FM	(30°-60°)	308.6	26.3			
FH	(60°-80°)	310.5	26.4			G0/660
FVH	(80°-90°)	17.1	1.5			G1/100
BL	(0°-30°)	24.4	2.1	B0/110		
BM	(30°-60°)	259.2	22.1	B1/1000		
BH	(60°-80°)	221.6	18.8	B1/500		G1/500
BVH	(80°-90°)	11.7	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
2.5°	28.1	29.0	31.6	31.6	30.7	29.0	27.3	27.3	26.4	24.7	23.0
5°	40.9	37.5	32.4	32.4	32.4	29.9	26.4	25.6	25.6	23.0	22.2
7.5°	40.1	42.6	44.4	42.6	41.8	41.8	37.5	36.7	32.4	29.9	32.4
10°	40.9	40.9	40.1	47.8	44.4	45.2	41.8	41.8	39.2	38.4	38.4
12.5°	39.2	37.5	40.1	43.5	39.2	42.6	38.4	35.8	35.8	38.4	40.9
15°	40.1	41.8	42.6	47.8	46.1	43.5	38.4	38.4	39.2	44.4	44.4
17.5°	46.1	49.5	49.5	50.3	50.3	46.1	38.4	39.2	41.8	45.2	50.3
20°	53.7	53.7	54.6	53.7	53.7	49.5	40.9	42.6	45.2	47.8	52.9
22.5°	62.3	64.0	67.4	62.3	60.6	52.0	48.6	47.8	52.0	50.3	57.2
25°	77.6	82.7	77.6	66.5	65.7	56.3	51.2	51.2	54.6	60.6	61.4
27.5°	93.0	95.5	82.7	71.7	73.4	63.1	58.9	58.9	61.4	68.2	71.7
30°	100.7	103.2	92.1	79.3	81.0	71.7	65.7	66.5	68.2	76.8	85.3
32.5°	110.9	115.2	102.4	89.6	90.4	88.7	79.3	79.3	76.8	85.3	92.1
35°	125.4	124.5	111.7	98.1	100.7	105.8	98.9	97.2	93.0	94.7	104.9
37.5°	136.5	136.5	126.2	110.0	111.7	123.7	124.5	124.5	116.0	109.2	117.7
40°	147.6	151.8	139.0	122.0	132.2	150.1	157.8	159.5	145.9	128.8	131.4
42.5°	161.2	168.9	158.7	142.5	162.1	196.2	214.1	218.4	195.3	172.3	156.1
45°	193.6	202.2	193.6	176.6	203.0	263.6	301.1	325.8	286.6	225.2	199.6
47.5°	215.8	221.8	214.1	200.5	240.5	326.7	390.7	439.3	400.1	293.4	246.5
50°	248.2	248.2	244.8	242.3	302.0	441.9	527.2	554.4	541.7	386.4	320.7
52.5°	266.1	264.4	262.7	270.4	345.5	495.6	609.9	638.9	631.2	459.8	371.1
55°	277.2	273.8	268.7	284.9	368.5	534.8	657.7	672.2	664.5	505.8	398.4
56°	279.8	273.8	268.7	287.5	373.6	540.8	663.6	673.9	667.0	517.8	406.0
57.5°	278.9	272.1	265.3	290.0	375.3	541.7	663.6	668.8	669.6	527.2	412.9
60°	272.1	266.1	255.0	290.0	377.9	529.7	656.0	669.6	673.9	528.0	415.4
62.5°	261.9	258.5	241.4	285.8	374.5	505.0	650.8	667.0	664.5	516.1	400.9
65°	243.1	239.7	220.1	276.4	355.7	465.7	616.7	630.4	621.8	487.9	364.2
67.5°	217.5	214.1	196.2	259.3	336.9	419.7	569.0	579.2	576.6	456.4	325.0
70°	187.7	186.0	172.3	237.1	315.6	366.8	517.8	529.7	534.0	412.9	285.8
72.5°	155.2	157.0	146.7	208.1	284.9	308.8	453.8	470.0	476.8	361.7	239.7
75°	119.4	121.1	117.7	173.2	244.8	242.3	376.2	390.7	397.5	299.4	188.5
77.5°	85.3	85.3	85.3	131.4	195.3	166.3	284.0	294.3	303.7	222.6	133.9
80°	55.4	52.9	54.6	83.6	128.8	97.2	180.0	189.4	187.7	136.5	78.5
82.5°	32.4	29.9	29.9	39.2	52.0	41.8	80.2	81.9	83.6	54.6	34.1
85°	16.2	14.5	13.6	15.4	14.5	16.2	16.2	15.4	15.4	11.1	13.6
87.5°	11.9	10.2	9.4	11.1	10.2	12.8	11.9	11.9	11.9	7.7	10.2
90°	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
2.5°	22.2	22.2	20.5	19.6	18.8	21.3	23.9	23.9	23.0	23.0	23.0
5°	23.0	23.9	26.4	30.7	31.6	29.0	27.3	24.7	22.2	20.5	19.6
7.5°	33.3	34.1	33.3	35.0	35.0	32.4	33.3	32.4	28.1	27.3	26.4
10°	39.2	40.1	45.2	43.5	41.8	40.1	40.1	38.4	35.0	33.3	31.6
12.5°	42.6	43.5	45.2	41.8	46.1	44.4	43.5	39.2	37.5	34.1	34.1
15°	44.4	48.6	49.5	49.5	46.9	48.6	45.2	41.8	40.9	35.0	34.1
17.5°	52.9	52.9	55.4	54.6	50.3	53.7	51.2	47.8	43.5	37.5	37.5
20°	54.6	60.6	61.4	62.3	59.7	59.7	61.4	57.2	50.3	46.9	46.1
22.5°	60.6	66.5	69.9	75.1	68.2	69.1	67.4	58.0	49.5	50.3	47.8
25°	65.7	69.9	74.2	85.3	79.3	72.5	72.5	64.8	56.3	55.4	53.7
27.5°	75.1	79.3	87.9	100.7	87.0	81.9	78.5	72.5	63.1	61.4	61.4
30°	90.4	90.4	100.7	108.3	105.8	86.2	87.0	78.5	71.7	67.4	69.1
32.5°	104.9	103.2	114.3	118.6	117.7	94.7	93.8	88.7	86.2	79.3	78.5
35°	115.2	122.8	124.5	129.7	127.1	110.9	101.5	98.1	98.1	94.7	94.7
37.5°	128.0	135.6	138.2	141.6	138.2	123.7	114.3	110.0	114.3	117.7	114.3
40°	144.2	155.2	151.8	153.5	150.1	138.2	131.4	128.8	139.9	150.1	145.0
42.5°	164.6	178.3	173.2	168.9	166.3	153.5	151.8	157.8	180.0	196.2	192.8
45°	203.0	215.0	205.6	198.7	195.3	180.0	181.7	198.7	240.5	269.5	278.9
47.5°	242.3	244.8	236.3	224.3	220.9	199.6	203.9	235.4	297.7	340.3	353.1
50°	306.2	307.1	280.6	255.0	244.8	228.6	236.3	283.2	362.5	412.9	433.3
52.5°	354.0	339.5	302.8	275.5	261.0	243.1	255.0	313.9	402.6	470.0	490.5
55°	372.8	349.7	313.1	283.2	266.1	245.7	266.1	321.6	418.0	508.4	528.0
56°	377.0	353.1	312.2	282.3	266.1	244.0	267.8	320.7	419.7	514.4	529.7
57.5°	383.8	352.3	308.8	280.6	262.7	239.7	267.0	318.2	418.0	516.9	532.3
60°	397.5	352.3	296.8	273.8	255.0	232.0	264.4	318.2	412.0	510.1	533.1
62.5°	399.2	348.9	278.9	257.6	244.8	220.9	254.2	315.6	396.6	503.3	530.6
65°	380.4	339.5	253.3	235.4	223.5	203.0	237.1	303.7	370.2	481.1	495.6
67.5°	354.0	324.1	225.2	208.1	197.0	180.0	217.5	283.2	332.7	435.0	446.1
70°	322.4	304.5	196.2	177.4	168.9	155.2	194.5	259.3	283.2	383.8	399.2
72.5°	273.8	267.8	171.5	144.2	136.5	129.7	165.5	229.5	230.3	329.3	345.5
75°	216.7	217.5	139.0	110.0	103.2	102.4	131.4	188.5	176.6	262.7	275.5
77.5°	154.4	158.7	102.4	79.3	70.8	74.2	93.8	141.6	123.7	190.2	198.7
80°	87.9	90.4	63.1	52.0	43.5	47.8	57.2	87.9	72.5	115.2	120.3
82.5°	30.7	31.6	30.7	29.9	26.4	25.6	28.1	35.0	30.7	45.2	48.6
85°	11.9	11.1	15.4	15.4	12.8	12.8	13.6	13.6	16.2	15.4	14.5
87.5°	9.4	7.7	11.9	11.9	10.2	10.2	10.2	10.2	12.8	11.9	11.9
90°	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
2.5°	23.9	24.7	24.7	23.9	22.2	22.2	22.2	22.2	23.0	23.9	23.9
5°	20.5	22.2	23.9	23.9	26.4	27.3	26.4	24.7	20.5	19.6	20.5
7.5°	27.3	30.7	27.3	27.3	29.9	35.8	33.3	32.4	29.0	25.6	23.9
10°	33.3	40.1	35.8	39.2	41.8	40.1	36.7	33.3	39.2	37.5	36.7
12.5°	34.1	37.5	39.2	46.1	50.3	39.2	36.7	40.1	40.9	38.4	35.8
15°	35.0	41.8	44.4	48.6	52.9	46.9	38.4	42.6	46.1	43.5	41.8
17.5°	38.4	44.4	46.9	53.7	58.0	54.6	44.4	46.9	50.3	53.7	50.3
20°	43.5	46.9	49.5	57.2	59.7	64.0	53.7	53.7	52.0	56.3	54.6
22.5°	50.3	56.3	55.4	63.1	64.0	76.8	69.9	57.2	53.7	58.0	58.9
25°	52.9	58.9	62.3	68.2	71.7	83.6	79.3	68.2	62.3	63.1	63.1
27.5°	61.4	66.5	70.8	75.1	84.4	89.6	95.5	75.9	70.8	69.9	69.9
30°	66.5	73.4	78.5	87.9	96.4	101.5	109.2	83.6	76.8	75.9	76.8
32.5°	78.5	80.2	87.9	100.7	104.9	115.2	116.9	94.7	86.2	84.4	84.4
35°	90.4	91.3	96.4	114.3	116.9	129.7	124.5	107.5	95.5	93.0	93.8
37.5°	112.6	105.8	109.2	126.2	131.4	141.6	135.6	120.3	108.3	105.8	107.5
40°	139.0	127.1	122.0	144.2	144.2	153.5	147.6	135.6	124.5	120.3	124.5
42.5°	184.2	151.0	145.0	163.8	163.8	168.9	162.1	153.5	145.9	145.9	152.7
45°	271.3	207.3	189.4	200.5	197.0	196.2	188.5	184.2	176.6	178.3	191.1
47.5°	354.0	261.9	222.6	236.3	229.5	216.7	210.7	205.6	197.9	205.6	226.0
50°	423.1	335.2	287.5	273.8	262.7	242.3	239.7	234.6	236.3	253.3	277.2
52.5°	493.9	397.5	321.6	296.0	279.8	259.3	255.0	249.9	257.6	287.5	313.1
55°	532.3	430.8	333.5	299.4	281.5	266.1	261.9	254.2	268.7	302.0	333.5
56°	533.1	435.0	335.2	297.7	279.8	264.4	261.9	253.3	268.7	303.7	335.2
57.5°	529.7	438.4	333.5	296.0	274.7	261.0	259.3	249.1	268.7	306.2	338.6
60°	520.3	435.0	326.7	295.1	262.7	250.8	251.6	237.1	264.4	309.6	342.9
62.5°	523.7	423.9	313.1	285.8	243.1	235.4	240.5	224.3	253.3	310.5	339.5
65°	499.0	406.9	290.0	269.5	220.1	211.5	220.9	202.2	238.8	297.7	324.1
67.5°	452.1	371.9	261.9	250.8	194.5	186.0	196.2	177.4	218.4	278.9	306.2
70°	399.2	325.8	230.3	222.6	169.7	157.0	168.0	151.0	194.5	257.6	285.8
72.5°	345.5	273.0	188.5	186.8	145.0	125.4	136.5	128.8	168.0	226.0	253.3
75°	276.4	213.2	144.2	145.0	114.3	94.7	101.5	98.1	135.6	186.0	210.7
77.5°	200.5	150.1	98.9	100.7	81.9	65.7	69.9	74.2	99.8	140.7	162.1
80°	119.4	86.2	57.2	60.6	49.5	42.6	42.6	45.2	61.4	87.9	101.5
82.5°	44.4	28.1	25.6	23.0	23.9	23.0	24.7	25.6	28.1	35.8	35.0
85°	14.5	9.4	11.9	10.2	12.8	12.8	11.9	11.1	11.9	11.9	11.9
87.5°	11.9	7.7	9.4	7.7	10.2	11.1	9.4	8.5	9.4	9.4	8.5
90°	0.0	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):

	285°	295°	301°	305°	315°	325°	335°	345°	355°	360°
0°	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
2.5°	23.0	23.9	23.9	24.7	27.3	28.1	28.1	28.1	28.1	28.1
5°	21.3	19.6	19.6	18.8	20.5	23.0	26.4	29.9	35.8	40.9
7.5°	25.6	25.6	25.6	24.7	24.7	26.4	29.9	34.1	39.2	40.1
10°	35.0	34.1	32.4	34.1	34.1	30.7	35.8	41.8	45.2	40.9
12.5°	35.8	33.3	30.7	31.6	33.3	34.1	41.8	46.9	38.4	39.2
15°	38.4	36.7	35.0	34.1	34.1	40.1	45.2	49.5	40.1	40.1
17.5°	42.6	37.5	35.8	36.7	39.2	43.5	49.5	50.3	45.2	46.1
20°	46.1	40.9	40.1	40.9	42.6	50.3	51.2	54.6	53.7	53.7
22.5°	50.3	43.5	42.6	42.6	47.8	54.6	58.0	65.7	58.0	62.3
25°	54.6	48.6	48.6	47.8	52.0	58.9	65.7	70.8	72.5	77.6
27.5°	62.3	57.2	56.3	56.3	57.2	64.8	75.9	79.3	89.6	93.0
30°	70.8	69.9	65.7	64.8	65.7	69.9	83.6	95.5	105.8	100.7
32.5°	82.7	83.6	78.5	81.0	75.1	79.3	93.8	107.5	112.6	110.9
35°	97.2	98.9	94.7	94.7	88.7	91.3	104.9	121.1	127.1	125.4
37.5°	120.3	120.3	115.2	113.4	103.2	103.2	119.4	132.2	139.0	136.5
40°	146.7	154.4	145.9	138.2	122.0	118.6	135.6	144.2	151.8	147.6
42.5°	186.0	197.0	195.3	186.0	145.0	135.6	154.4	162.9	166.3	161.2
45°	249.9	284.9	291.7	279.8	202.2	176.6	195.3	201.3	199.6	193.6
47.5°	308.8	360.0	371.1	368.5	267.8	209.8	225.2	230.3	224.3	215.8
50°	399.2	478.5	483.7	482.8	364.2	267.8	271.3	267.8	255.9	248.2
52.5°	448.7	554.4	569.0	564.7	426.5	313.1	302.0	286.6	276.4	266.1
55°	476.0	603.1	627.0	620.1	470.0	339.5	315.6	294.3	284.0	277.2
56°	482.8	609.0	629.5	624.4	480.2	342.1	316.5	292.6	285.8	279.8
57.5°	485.4	609.9	623.5	621.0	489.6	342.9	316.5	289.2	283.2	278.9
60°	472.6	601.4	613.3	607.3	493.0	341.2	314.8	277.2	275.5	272.1
62.5°	442.7	594.5	619.3	610.7	487.1	329.3	313.9	259.3	261.9	261.9
65°	410.3	564.7	591.1	585.2	466.6	305.4	307.1	237.1	237.1	243.1
67.5°	368.5	516.1	537.4	537.4	432.5	271.3	291.7	214.1	208.1	217.5
70°	313.9	458.9	483.7	481.1	389.0	236.3	272.1	189.4	177.4	187.7
72.5°	256.8	394.9	426.5	423.1	337.8	198.7	240.5	165.5	145.0	155.2
75°	197.9	320.7	349.7	347.2	280.6	157.8	198.7	139.0	112.6	119.4
77.5°	132.2	240.5	263.6	261.9	212.4	112.6	149.3	104.9	81.0	85.3
80°	75.9	155.2	171.5	170.6	136.5	69.1	93.0	67.4	55.4	55.4
82.5°	29.0	70.8	77.6	77.6	59.7	32.4	38.4	34.1	32.4	32.4
85°	13.6	15.4	15.4	15.4	11.9	12.8	12.8	16.2	16.2	16.2
87.5°	11.1	11.1	11.1	11.9	8.5	9.4	8.5	11.9	12.8	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Invue

Report Number: SP1-2509-539-7

Test Date: 04/15/2026

Luminaire Tested: Luxscape Bollard

Data in this report applies to families of products including ;Luxscape

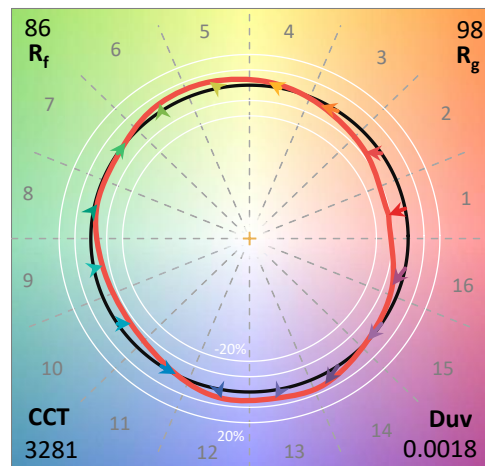
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2509-539-7
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 04/15/2026
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Invue
 Catalog Number: **Luxscape Bollard**
 Description: ARB-C1-835-LED-XX-Dx-S-GM-SPECULAR REFLECTOR

Spectral Parameters

CCT (K): 3281
 CIE u': 0.2408
 CIE v': 0.5181
 Duv: 0.0018
 CIE x: 0.4204
 CIE y: 0.4020
 CIE z: 0.1776
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 581
 Purity: 46.84629
 Rf: 85.8
 Rg: 97.6

CRI (Ra):	83.9		
R1:	82.0	R9:	9.4
R2:	89.5	R10:	76.7
R3:	96.9	R11:	85.1
R4:	84.3	R12:	73.1
R5:	82.6	R13:	83.6
R6:	87.7	R14:	98.3
R7:	85.4	R15:	74.0
R8:	62.6		



Test Conditions

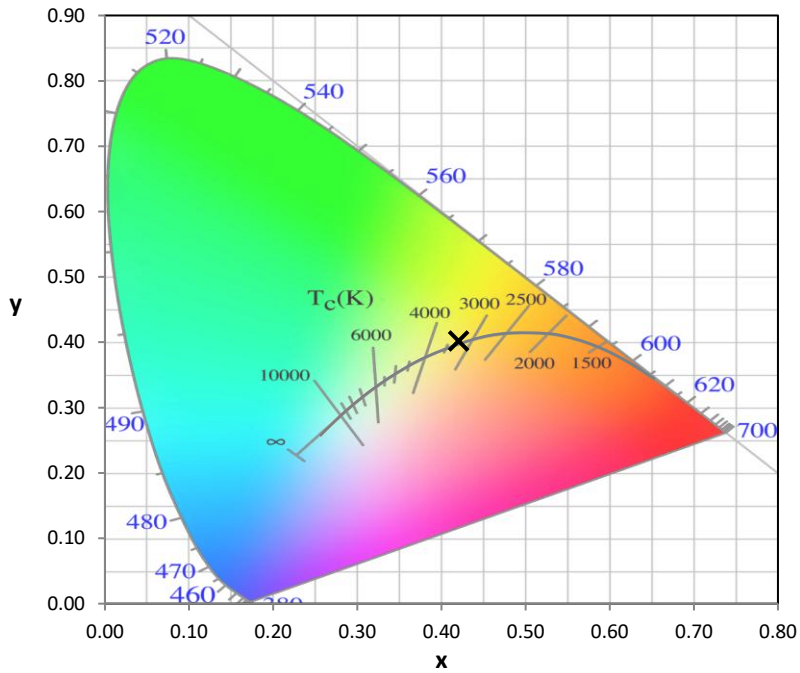
Stabilization Time: 31M
 Operation Time: 1H 31M
 Sphere Temperature (°C): 25.1

REPORT NUMBER: SP1-2509-539-7

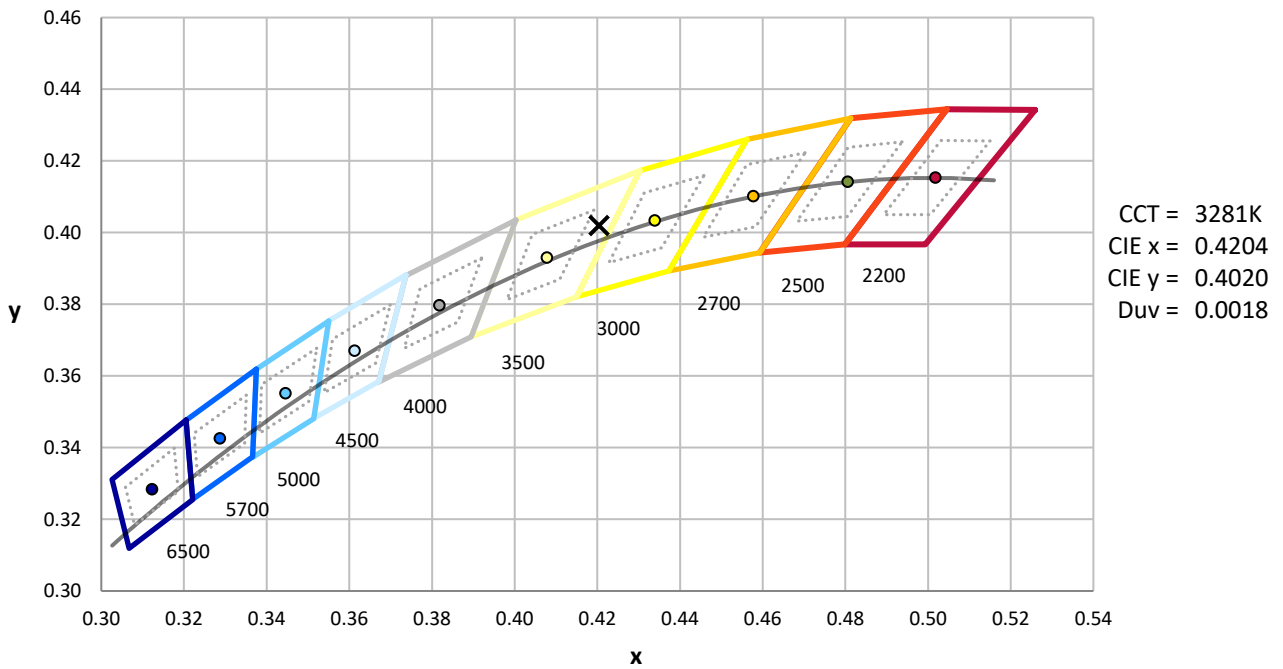
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2509-539-7

CIE 1931 Chromaticity Diagram



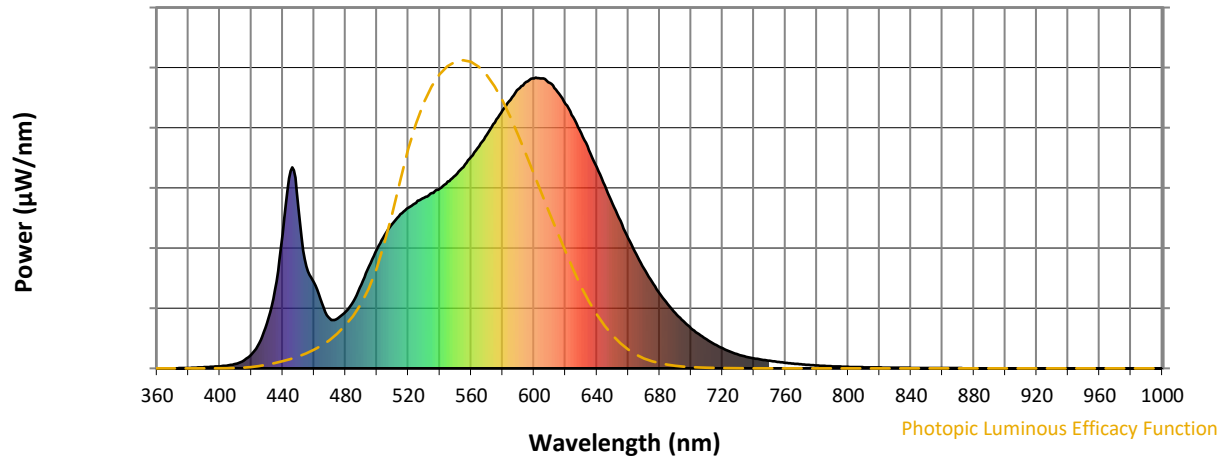
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2509-539-7

Photopic Flux vs. Wavelength

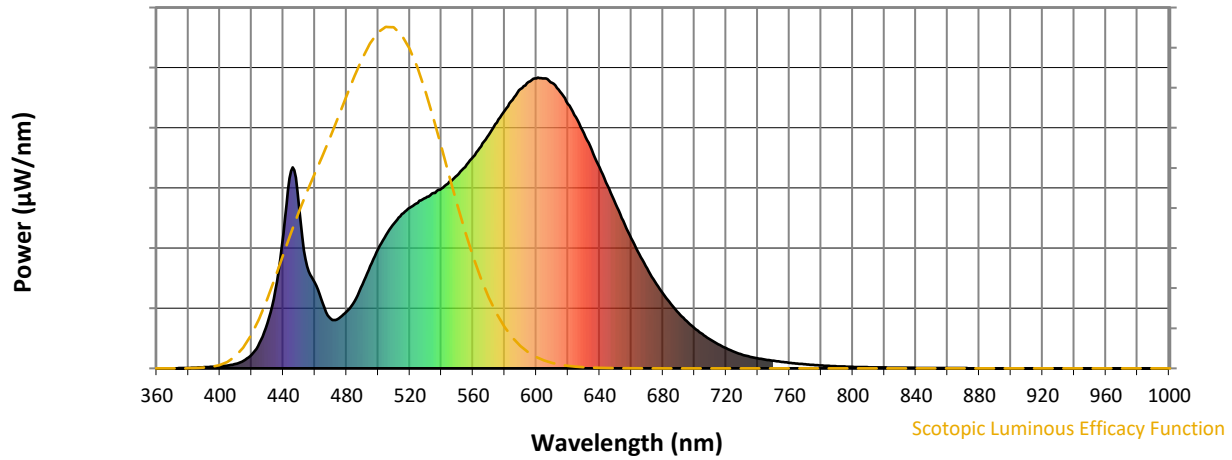


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	288	NR	620	909	NR	750	26	NR	880	0	NR
365	0	NR	495	351	NR	625	864	NR	755	22	NR	885	0	NR
370	0	NR	500	411	NR	630	809	NR	760	19	NR	890	0	NR
375	1	NR	505	459	NR	635	750	NR	765	16	NR	895	0	NR
380	2	NR	510	498	NR	640	691	NR	770	14	NR	900	0	NR
385	3	NR	515	530	NR	645	629	NR	775	12	NR	905	0	NR
390	4	NR	520	553	NR	650	566	NR	780	10	NR	910	0	NR
395	5	NR	525	569	NR	655	507	NR	785	8	NR	915	0	NR
400	7	NR	530	586	NR	660	447	NR	790	7	NR	920	0	NR
405	10	NR	535	603	NR	665	393	NR	795	6	NR	925	0	NR
410	16	NR	540	619	NR	670	343	NR	800	5	NR	930	0	NR
415	27	NR	545	642	NR	675	298	NR	805	4	NR	935	0	NR
420	48	NR	550	663	NR	680	257	NR	810	4	NR	940	0	NR
425	87	NR	555	692	NR	685	221	NR	815	3	NR	945	0	NR
430	155	NR	560	728	NR	690	190	NR	820	3	NR	950	0	NR
435	270	NR	565	763	NR	695	163	NR	825	2	NR	955	0	NR
440	462	NR	570	804	NR	700	138	NR	830	2	NR	960	0	NR
445	679	NR	575	845	NR	705	117	NR	835	2	NR	965	0	NR
450	553	NR	580	886	NR	710	99	NR	840	2	NR	970	0	NR
455	351	NR	585	924	NR	715	82	NR	845	1	NR	975	0	NR
460	295	NR	590	960	NR	720	69	NR	850	1	NR	980	0	NR
465	223	NR	595	985	NR	725	57	NR	855	1	NR	985	0	NR
470	170	NR	600	997	NR	730	47	NR	860	1	NR	990	0	NR
475	171	NR	605	997	NR	735	40	NR	865	1	NR	995	0	NR
480	195	NR	610	982	NR	740	34	NR	870	1	NR	1000	0	NR
485	230	NR	615	951	NR	745	30	NR	875	1	NR			

REPORT NUMBER: SP1-2509-539-7

Scotopic Flux vs. Wavelength



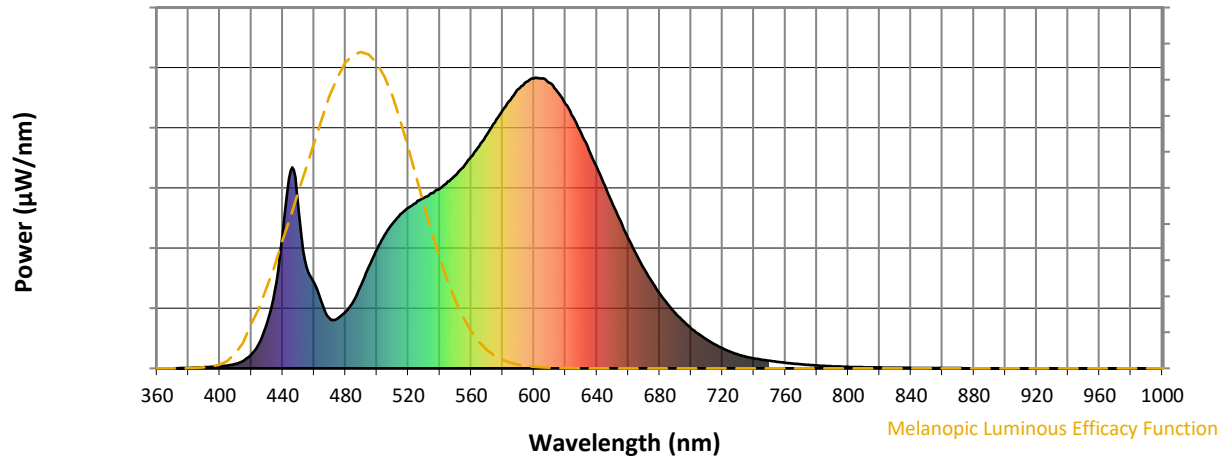
Scotopic Lumens: NR

S/P: 1.44

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	288	NR	620	909	NR	750	26	NR	880	0	NR
365	0	NR	495	351	NR	625	864	NR	755	22	NR	885	0	NR
370	0	NR	500	411	NR	630	809	NR	760	19	NR	890	0	NR
375	1	NR	505	459	NR	635	750	NR	765	16	NR	895	0	NR
380	2	NR	510	498	NR	640	691	NR	770	14	NR	900	0	NR
385	3	NR	515	530	NR	645	629	NR	775	12	NR	905	0	NR
390	4	NR	520	553	NR	650	566	NR	780	10	NR	910	0	NR
395	5	NR	525	569	NR	655	507	NR	785	8	NR	915	0	NR
400	7	NR	530	586	NR	660	447	NR	790	7	NR	920	0	NR
405	10	NR	535	603	NR	665	393	NR	795	6	NR	925	0	NR
410	16	NR	540	619	NR	670	343	NR	800	5	NR	930	0	NR
415	27	NR	545	642	NR	675	298	NR	805	4	NR	935	0	NR
420	48	NR	550	663	NR	680	257	NR	810	4	NR	940	0	NR
425	87	NR	555	692	NR	685	221	NR	815	3	NR	945	0	NR
430	155	NR	560	728	NR	690	190	NR	820	3	NR	950	0	NR
435	270	NR	565	763	NR	695	163	NR	825	2	NR	955	0	NR
440	462	NR	570	804	NR	700	138	NR	830	2	NR	960	0	NR
445	679	NR	575	845	NR	705	117	NR	835	2	NR	965	0	NR
450	553	NR	580	886	NR	710	99	NR	840	2	NR	970	0	NR
455	351	NR	585	924	NR	715	82	NR	845	1	NR	975	0	NR
460	295	NR	590	960	NR	720	69	NR	850	1	NR	980	0	NR
465	223	NR	595	985	NR	725	57	NR	855	1	NR	985	0	NR
470	170	NR	600	997	NR	730	47	NR	860	1	NR	990	0	NR
475	171	NR	605	997	NR	735	40	NR	865	1	NR	995	0	NR
480	195	NR	610	982	NR	740	34	NR	870	1	NR	1000	0	NR
485	230	NR	615	951	NR	745	30	NR	875	1	NR			

REPORT NUMBER: SP1-2509-539-7

Melanopic Flux vs. Wavelength



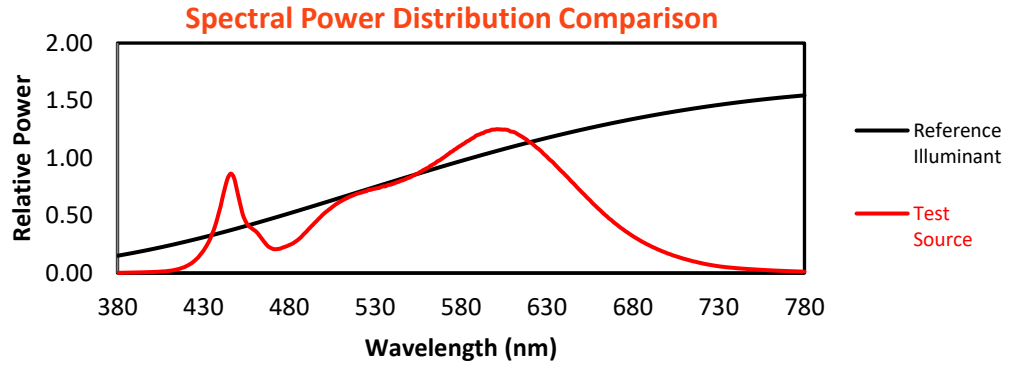
Melanopic Lumens: NR

M/P: 2.79

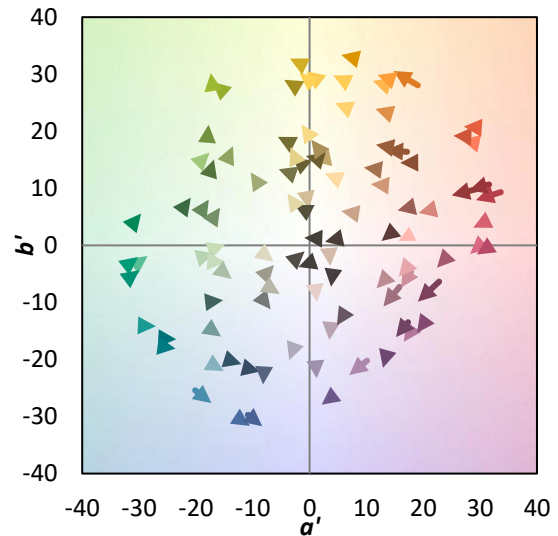
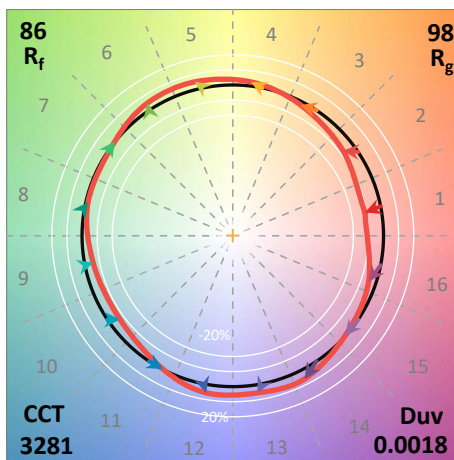
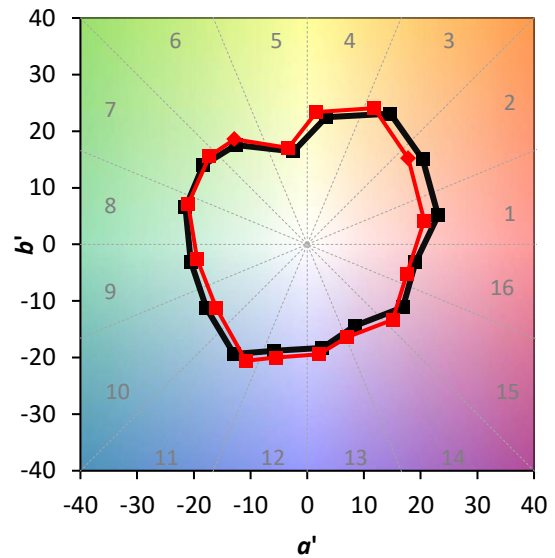
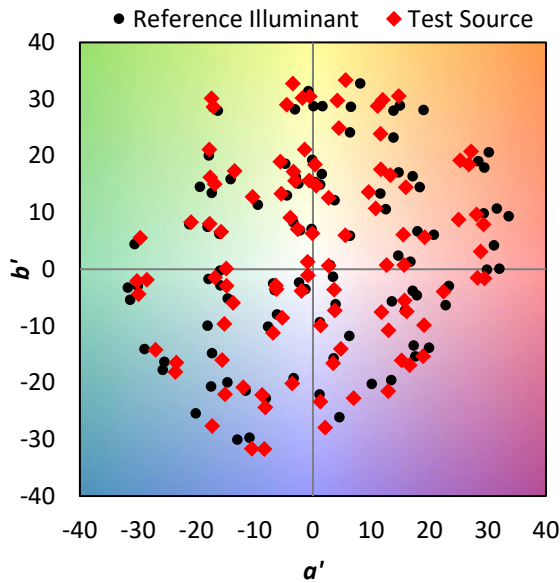
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	288	NR	620	909	NR	750	26	NR	880	0	NR
365	0	NR	495	351	NR	625	864	NR	755	22	NR	885	0	NR
370	0	NR	500	411	NR	630	809	NR	760	19	NR	890	0	NR
375	1	NR	505	459	NR	635	750	NR	765	16	NR	895	0	NR
380	2	NR	510	498	NR	640	691	NR	770	14	NR	900	0	NR
385	3	NR	515	530	NR	645	629	NR	775	12	NR	905	0	NR
390	4	NR	520	553	NR	650	566	NR	780	10	NR	910	0	NR
395	5	NR	525	569	NR	655	507	NR	785	8	NR	915	0	NR
400	7	NR	530	586	NR	660	447	NR	790	7	NR	920	0	NR
405	10	NR	535	603	NR	665	393	NR	795	6	NR	925	0	NR
410	16	NR	540	619	NR	670	343	NR	800	5	NR	930	0	NR
415	27	NR	545	642	NR	675	298	NR	805	4	NR	935	0	NR
420	48	NR	550	663	NR	680	257	NR	810	4	NR	940	0	NR
425	87	NR	555	692	NR	685	221	NR	815	3	NR	945	0	NR
430	155	NR	560	728	NR	690	190	NR	820	3	NR	950	0	NR
435	270	NR	565	763	NR	695	163	NR	825	2	NR	955	0	NR
440	462	NR	570	804	NR	700	138	NR	830	2	NR	960	0	NR
445	679	NR	575	845	NR	705	117	NR	835	2	NR	965	0	NR
450	553	NR	580	886	NR	710	99	NR	840	2	NR	970	0	NR
455	351	NR	585	924	NR	715	82	NR	845	1	NR	975	0	NR
460	295	NR	590	960	NR	720	69	NR	850	1	NR	980	0	NR
465	223	NR	595	985	NR	725	57	NR	855	1	NR	985	0	NR
470	170	NR	600	997	NR	730	47	NR	860	1	NR	990	0	NR
475	171	NR	605	997	NR	735	40	NR	865	1	NR	995	0	NR
480	195	NR	610	982	NR	740	34	NR	870	1	NR	1000	0	NR
485	230	NR	615	951	NR	745	30	NR	875	1	NR			

Summary

$R_f = 85.8$
 $R_g = 97.6$
 $CIE R_a = 83.9$
 $R_9 = 9.4$

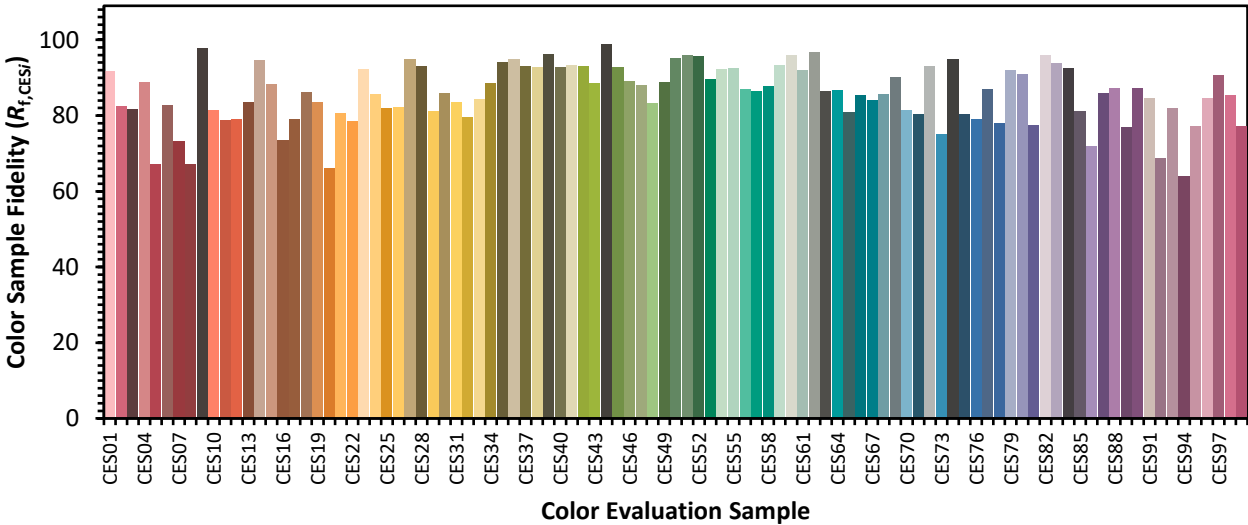


Color Vector Graphics

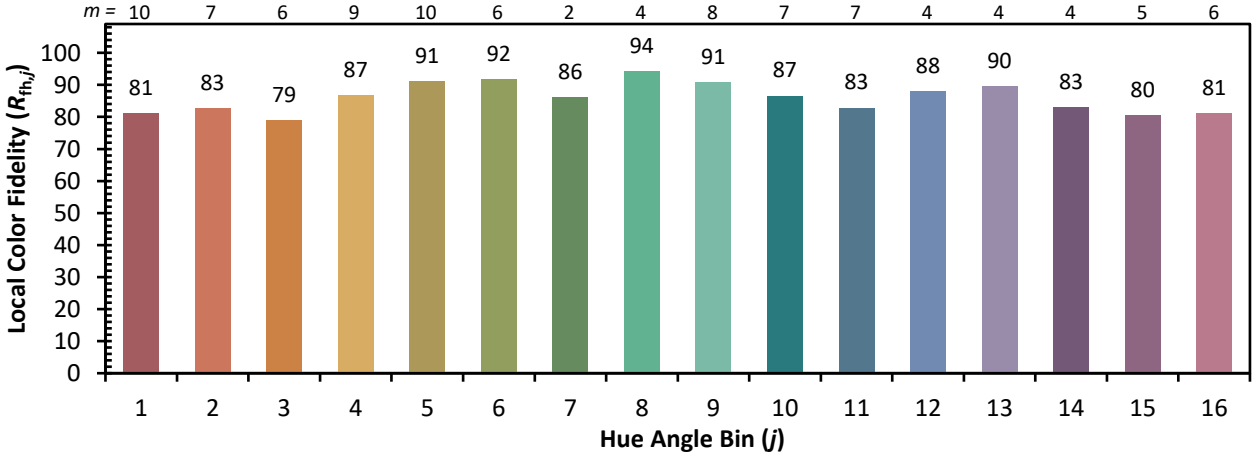
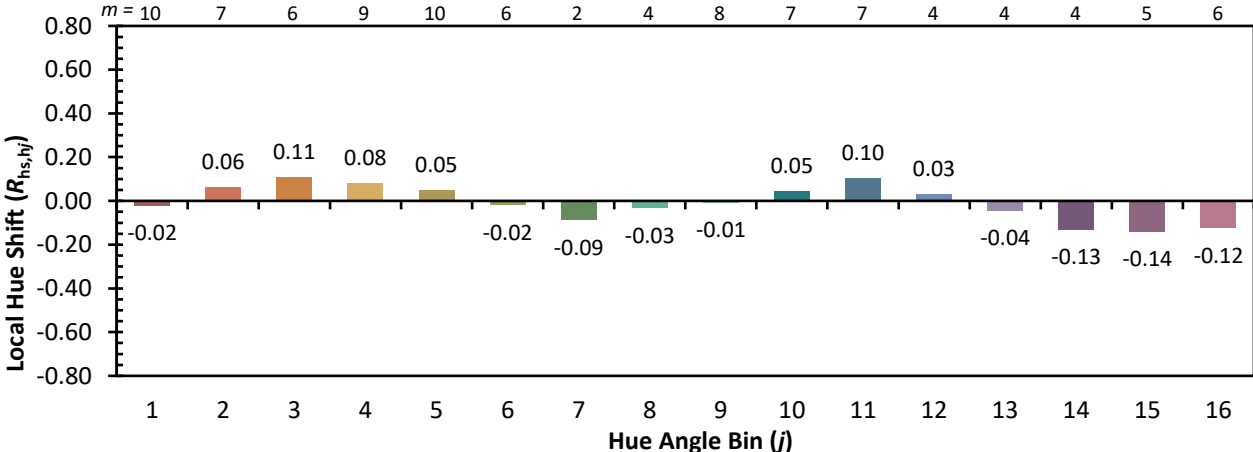
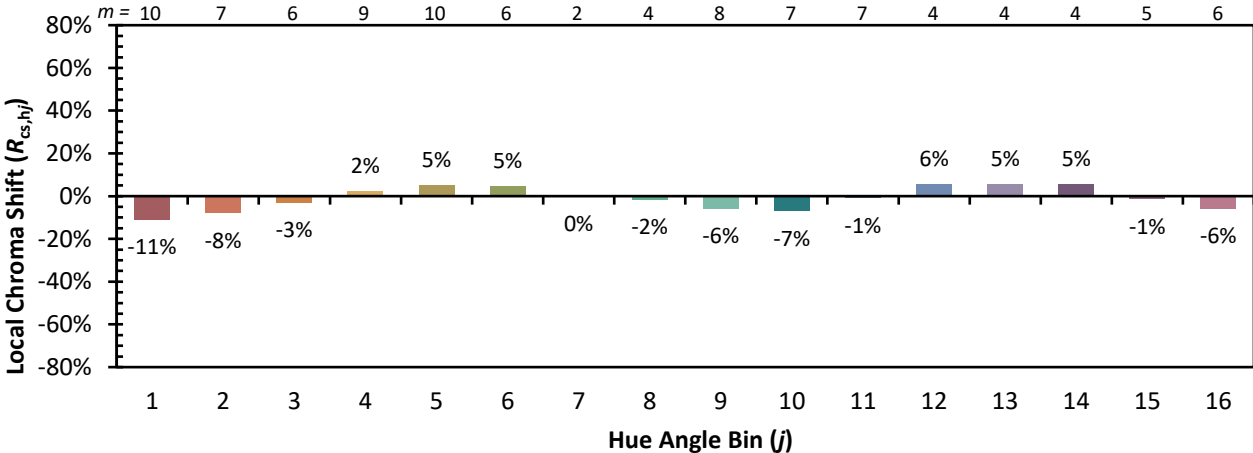


Individual Sample Fidelity Index ($R_{f,i}$)

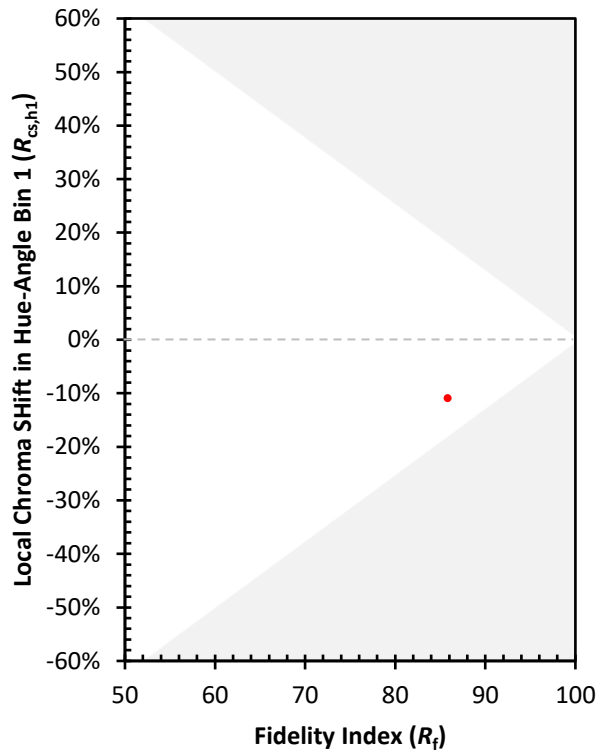
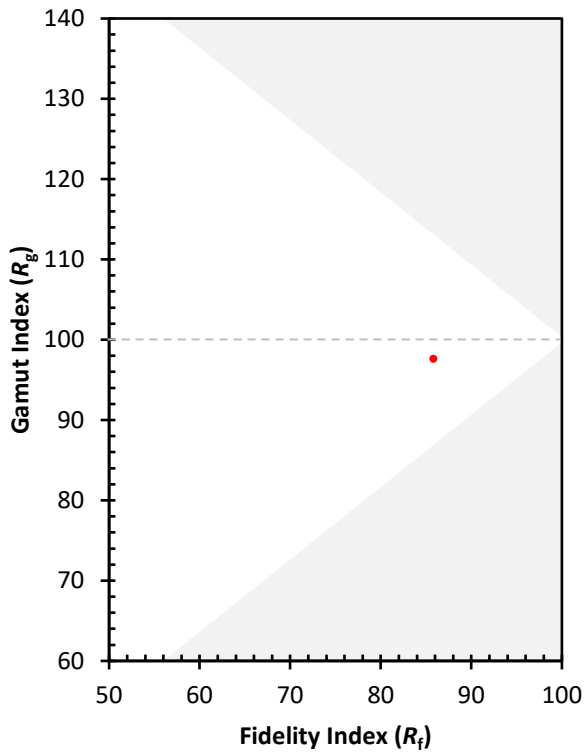
CES01 = 86	CES26 = 82	CES51 = 96	CES76 = 79
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 93	CES53 = 90	CES78 = 78
CES04 = 70	CES29 = 81	CES54 = 92	CES79 = 92
CES05 = 49	CES30 = 86	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 84	CES56 = 87	CES81 = 77
CES07 = 42	CES32 = 80	CES57 = 86	CES82 = 96
CES08 = 40	CES33 = 84	CES58 = 88	CES83 = 94
CES09 = 29	CES34 = 89	CES59 = 93	CES84 = 93
CES10 = 75	CES35 = 94	CES60 = 96	CES85 = 81
CES11 = 58	CES36 = 95	CES61 = 92	CES86 = 72
CES12 = 64	CES37 = 93	CES62 = 97	CES87 = 86
CES13 = 43	CES38 = 93	CES63 = 87	CES88 = 87
CES14 = 74	CES39 = 96	CES64 = 87	CES89 = 77
CES15 = 71	CES40 = 93	CES65 = 81	CES90 = 87
CES16 = 47	CES41 = 93	CES66 = 85	CES91 = 85
CES17 = 50	CES42 = 93	CES67 = 84	CES92 = 69
CES18 = 56	CES43 = 89	CES68 = 86	CES93 = 82
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 93	CES70 = 81	CES95 = 77
CES21 = 86	CES46 = 89	CES71 = 80	CES96 = 85
CES22 = 79	CES47 = 88	CES72 = 93	CES97 = 91
CES23 = 92	CES48 = 83	CES73 = 75	CES98 = 85
CES24 = 91	CES49 = 89	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 95	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)