

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: P1049774

Luminaire Tested: **GALN-SA7B-830-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049774
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 7xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25592.9 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 249.5
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

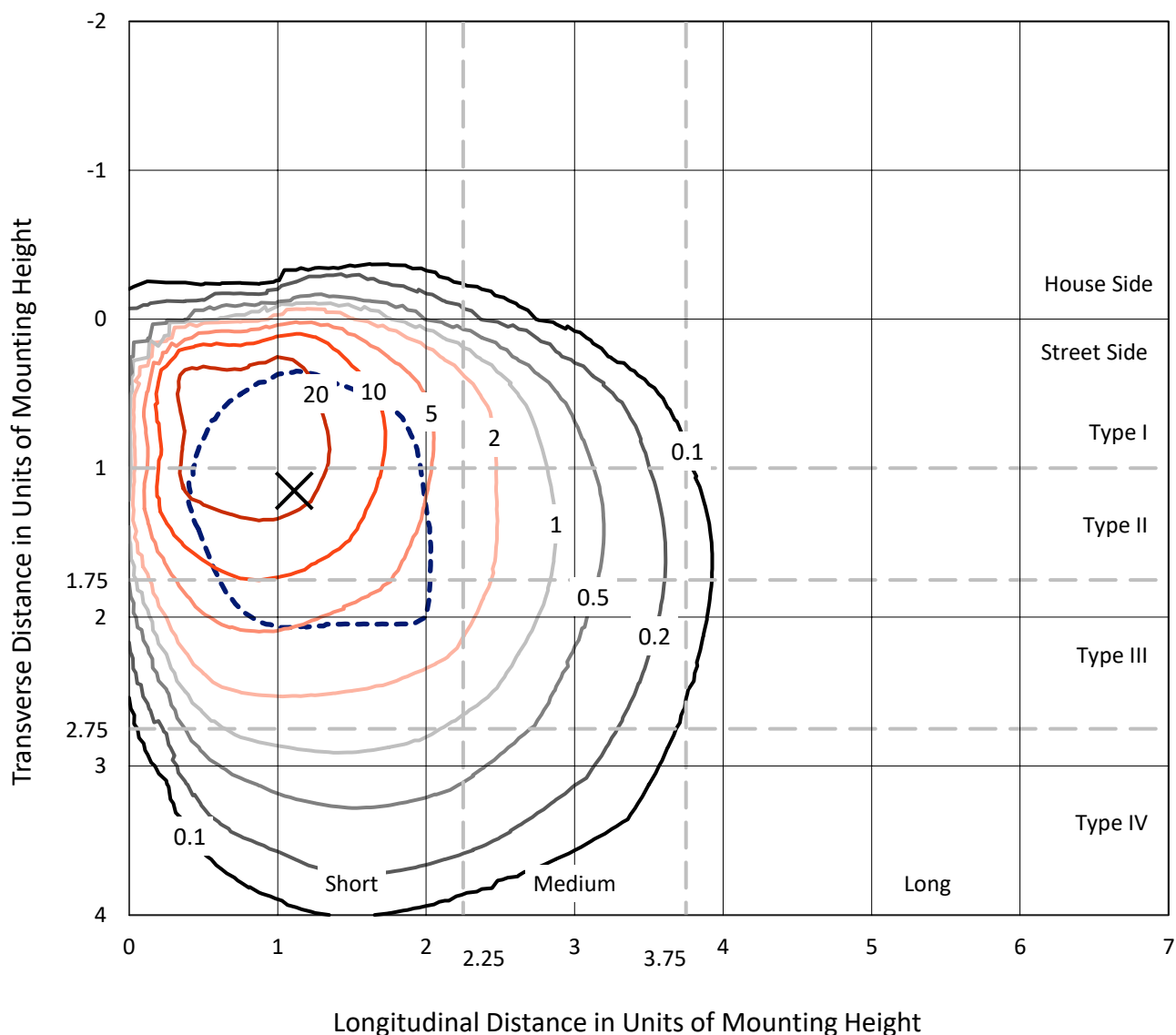
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

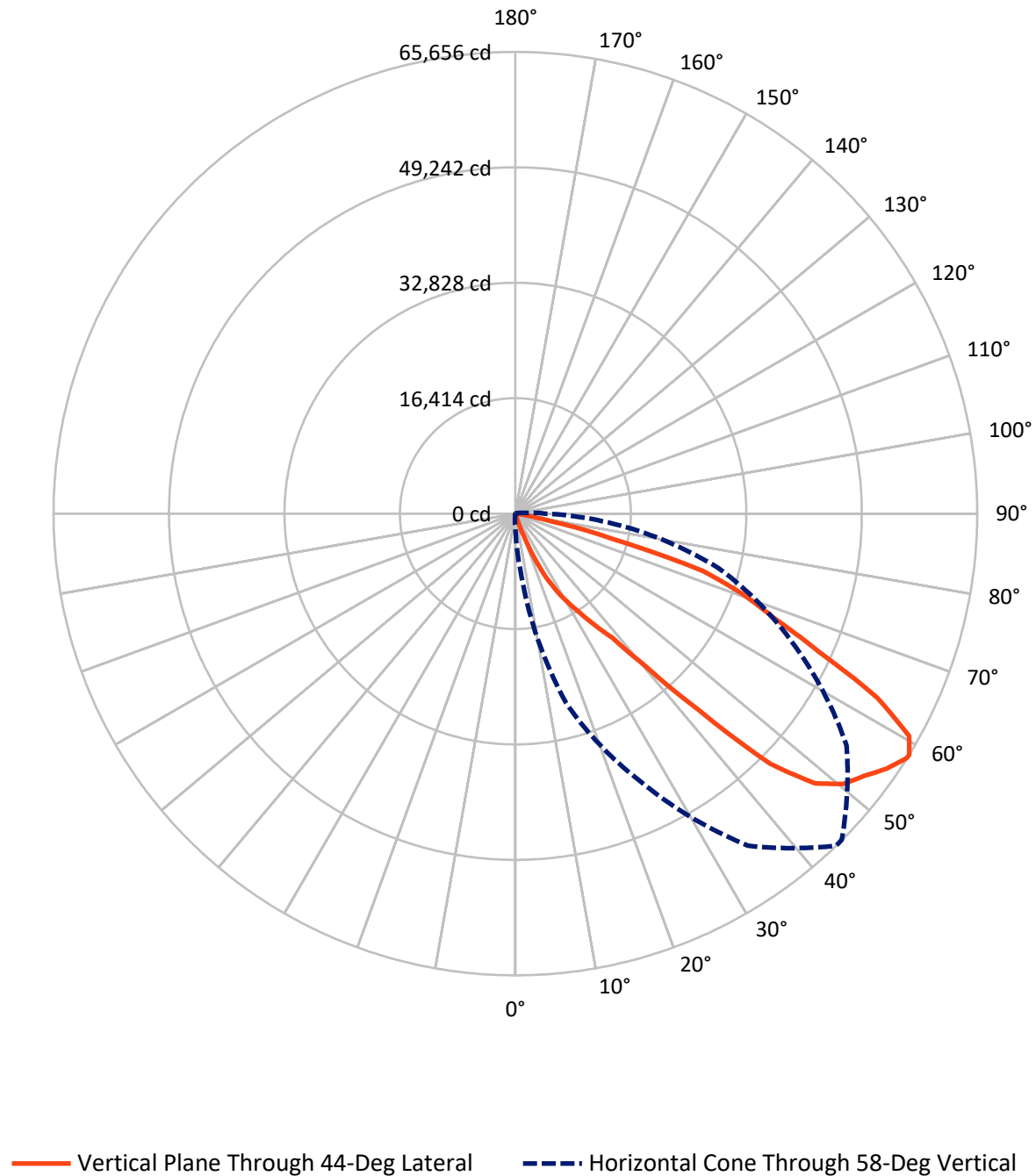


Based on 20 foot mounting height. Maximum calculated value = 44.6 fc

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	174.7	0.0	174.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	25418.2	0.0	25418.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	25592.9	0.0	25592.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.0
10°-20°	56.1	0.2
20°-30°	606.3	2.4
30°-40°	1793.0	7.0
40°-50°	5344.2	20.9
50°-60°	8480.0	33.1
60°-70°	7073.3	27.6
70°-80°	2181.5	8.5
80°-90°	48.5	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25592.9	100.0
0°-180°	25592.9	100.0



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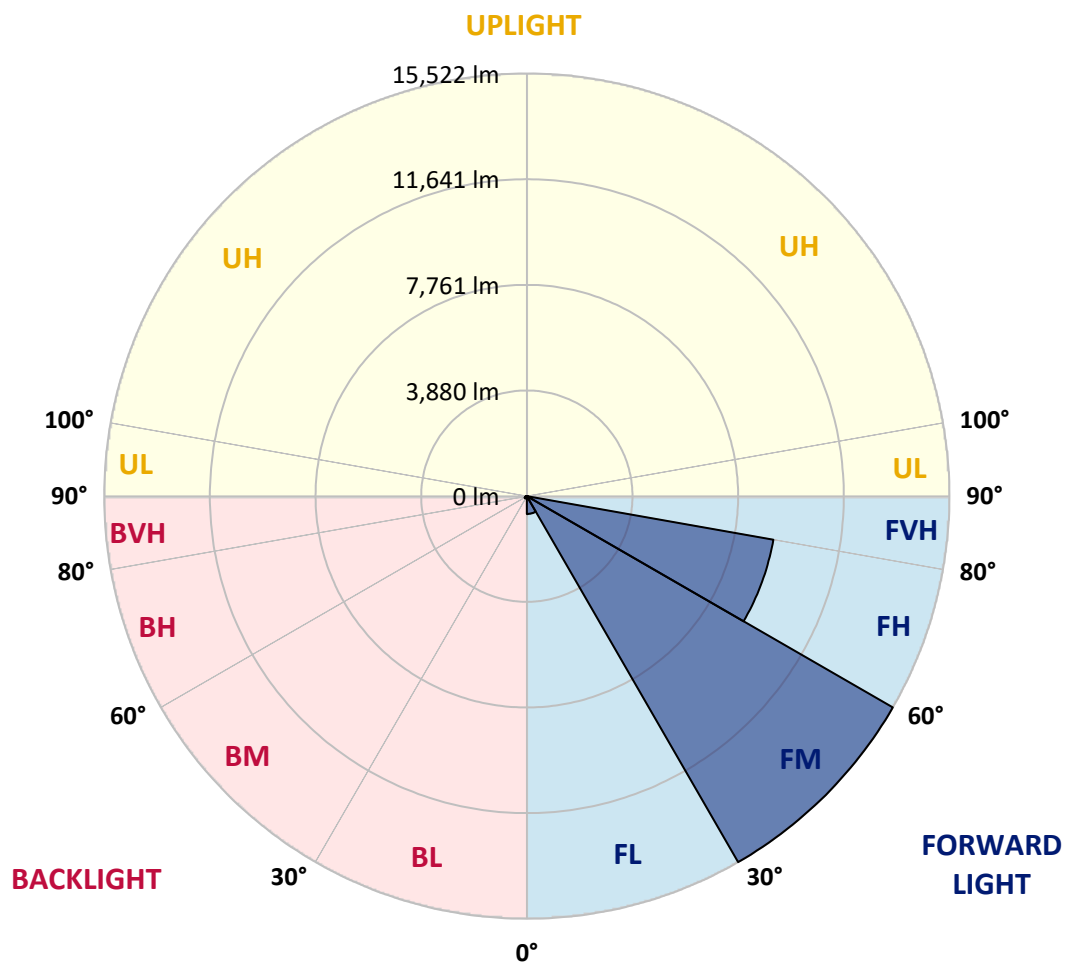
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	655.3	2.6			
FM	(30°-60°)	15521.6	60.6			
FH	(60°-80°)	9195.2	35.9			G4/12000
FVH	(80°-90°)	46.1	0.2			G1/100
BL	(0°-30°)	17.1	0.1	B0/110		
BM	(30°-60°)	95.6	0.4	B0/220		
BH	(60°-80°)	59.7	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°	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1
2.5°	145.0	145.0	139.2	131.5	123.7	116.0	114.1	110.2	108.3	106.3
5°	150.8	150.8	148.9	143.1	135.3	129.5	129.5	123.7	119.9	116.0
7.5°	154.7	156.6	160.5	158.5	154.7	148.9	148.9	145.0	139.2	129.5
10°	160.5	166.3	174.0	177.9	179.8	179.8	177.9	175.9	166.3	152.7
12.5°	166.3	177.9	197.2	216.5	228.1	243.6	241.7	237.8	212.7	183.7
15°	177.9	195.3	235.9	291.9	378.9	433.1	454.3	435.0	351.9	247.5
17.5°	191.4	220.4	342.2	610.9	1001.5	1187.1	1299.2	1208.3	800.4	469.8
20°	204.9	268.7	636.1	1583.4	2598.4	3205.5	3373.7	3110.7	1997.1	895.1
22.5°	228.1	377.0	1289.5	3273.1	5598.9	6509.5	6681.6	5840.6	3771.9	1767.1
25°	276.5	547.1	2223.3	5334.1	8355.9	9892.8	9821.3	8719.3	6119.0	2822.7
27.5°	346.1	796.5	3362.1	7578.7	10996.8	12352.0	12514.4	11151.4	8156.7	4150.9
30°	446.6	1103.9	4583.9	9376.6	13113.8	14579.2	14606.3	13196.9	9979.8	5316.7
32.5°	543.3	1393.9	5653.1	11114.7	15199.8	16806.4	16926.3	15192.1	11340.9	6530.8
35°	616.7	1583.4	6735.7	12642.0	17303.3	19517.0	19509.2	17450.2	12953.3	7615.4
37.5°	622.5	1772.9	7715.9	14204.2	19967.4	22446.0	22691.5	20421.8	14902.1	8957.1
40°	609.0	1985.5	8957.1	16640.2	24767.9	28570.7	28787.3	25926.0	18811.3	11253.9
42.5°	624.5	2354.8	10971.6	21139.0	32739.0	38200.7	38618.3	35610.0	25997.5	15940.3
45°	705.7	3048.9	15192.1	28665.5	44101.2	50759.6	50620.4	46287.8	34359.1	23074.3
47.5°	974.4	4748.3	21448.4	35990.9	51362.8	57292.3	57412.2	52116.8	39238.9	28559.1
50°	1498.3	7265.5	26705.1	39863.3	54485.1	60434.0	60321.8	54202.8	41092.9	31260.0
52.5°	1948.8	9086.7	29342.1	41222.5	54885.3	61986.4	61978.7	54751.9	41381.0	31492.0
55°	2060.9	9223.9	29363.4	41295.9	55782.4	64018.3	64273.5	56103.3	41754.1	30478.9
57.5°	2016.5	8166.4	28137.7	41721.3	57379.3	65590.1	65603.7	57412.2	42701.5	29858.3
58°	1977.8	8000.1	27890.2	41962.9	57653.8	65655.9	65623.0	57472.1	43472.9	29835.1
60°	1761.3	6946.5	26925.5	42579.7	57245.9	64306.4	63999.0	56163.2	43358.8	29597.3
62.5°	1384.3	5419.1	25976.2	41866.3	52872.7	57773.7	57901.3	49723.3	39526.9	28211.1
65°	1102.0	4038.7	23996.5	36723.6	43538.6	47443.9	47919.5	40433.7	32992.3	23888.2
67.5°	877.7	2919.3	20129.8	29237.7	34451.9	39596.5	39942.6	33947.3	25560.6	18302.8
70°	713.4	1973.9	13894.8	21382.6	28416.1	34200.6	34221.9	28201.5	19078.1	11992.4
72.5°	632.2	1366.9	8065.9	15594.2	23041.4	27868.9	27306.4	22884.8	14662.4	7103.1
75°	547.1	906.7	3955.6	9533.2	13970.2	14065.0	14279.6	10615.9	7329.3	3377.5
77.5°	450.5	643.8	1558.3	2604.2	4189.5	5363.1	5562.2	4214.7	2437.9	831.3
80°	309.3	305.5	419.5	798.5	1198.7	1502.2	1401.7	1084.6	638.0	319.0
82.5°	133.4	145.0	189.5	228.1	185.6	179.8	172.1	110.2	85.1	65.7
85°	42.5	38.7	40.6	40.6	32.9	25.1	25.1	11.6	0.0	0.0
87.5°	21.3	17.4	17.4	15.5	9.7	3.9	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°
112.1	0°	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1
104.4	2.5°	102.5	102.5	98.6	94.7	92.8	88.9	87.0	85.1	83.1	81.2
112.1	5°	108.3	106.3	100.5	94.7	88.9	83.1	79.3	75.4	71.5	69.6
123.7	7.5°	117.9	114.1	102.5	92.8	85.1	77.3	73.5	67.7	63.8	58.0
137.3	10°	129.5	121.8	106.3	94.7	83.1	73.5	67.7	61.9	56.1	48.3
156.6	12.5°	145.0	131.5	112.1	92.8	79.3	67.7	61.9	54.1	48.3	42.5
181.7	15°	158.5	141.1	114.1	92.8	75.4	61.9	54.1	46.4	40.6	32.9
228.1	17.5°	177.9	148.9	112.1	87.0	69.6	54.1	46.4	40.6	30.9	19.3
338.3	20°	210.7	154.7	108.3	81.2	59.9	44.5	34.8	27.1	13.5	3.9
508.5	22.5°	262.9	170.1	104.4	73.5	52.2	34.8	23.2	9.7	0.0	0.0
773.3	25°	363.5	197.2	104.4	69.6	46.4	25.1	7.7	0.0	0.0	0.0
1098.1	27.5°	483.3	233.9	104.4	59.9	36.7	13.5	0.0	0.0	0.0	0.0
1496.4	30°	605.1	274.5	104.4	52.2	29.0	1.9	0.0	0.0	0.0	0.0
1842.5	32.5°	721.1	309.3	106.3	44.5	19.3	0.0	0.0	0.0	0.0	0.0
2321.9	35°	839.1	315.1	104.4	38.7	11.6	0.0	0.0	0.0	0.0	0.0
2909.7	37.5°	989.9	303.5	98.6	34.8	5.8	0.0	0.0	0.0	0.0	0.0
3828.0	40°	1218.0	309.3	92.8	32.9	1.9	0.0	0.0	0.0	0.0	0.0
5465.5	42.5°	1639.5	334.5	85.1	32.9	0.0	0.0	0.0	0.0	0.0	0.0
8705.8	45°	2834.3	448.5	77.3	34.8	0.0	0.0	0.0	0.0	0.0	0.0
13069.3	47.5°	4688.3	806.2	75.4	34.8	0.0	0.0	0.0	0.0	0.0	0.0
15743.1	50°	5983.7	1015.0	79.3	36.7	0.0	0.0	0.0	0.0	0.0	0.0
16077.6	52.5°	5974.0	1131.0	83.1	38.7	7.7	0.0	0.0	0.0	0.0	0.0
14819.0	55°	5310.9	1152.3	88.9	42.5	25.1	0.0	0.0	0.0	0.0	0.0
12734.8	57.5°	4438.9	1051.7	102.5	52.2	46.4	0.0	0.0	0.0	0.0	0.0
12408.1	58°	4284.3	1005.3	106.3	54.1	50.3	0.0	0.0	0.0	0.0	0.0
10762.8	60°	3510.9	819.7	135.3	67.7	67.7	0.0	0.0	0.0	0.0	0.0
8823.7	62.5°	2424.4	715.3	154.7	87.0	69.6	0.0	0.0	0.0	0.0	0.0
6505.7	65°	1714.9	645.7	168.2	92.8	56.1	0.0	0.0	0.0	0.0	0.0
4622.6	67.5°	1281.8	595.5	185.6	94.7	29.0	0.0	0.0	0.0	0.0	0.0
2900.0	70°	982.1	558.7	228.1	100.5	7.7	0.0	0.0	0.0	0.0	0.0
1728.4	72.5°	800.4	516.2	276.5	104.4	0.0	0.0	0.0	0.0	0.0	0.0
1036.3	75°	663.1	465.9	266.8	114.1	0.0	0.0	0.0	0.0	0.0	0.0
552.9	77.5°	440.8	361.5	243.6	114.1	0.0	0.0	0.0	0.0	0.0	0.0
197.2	80°	154.7	143.1	189.5	100.5	0.0	0.0	0.0	0.0	0.0	0.0
40.6	82.5°	23.2	19.3	27.1	34.8	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°
112.1	0°	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1
79.3	2.5°	79.3	79.3	77.3	79.3	79.3	83.1	92.8	106.3	121.8	127.6
67.7	5°	65.7	63.8	61.9	61.9	61.9	67.7	75.4	90.9	108.3	116.0
56.1	7.5°	54.1	52.2	50.3	48.3	48.3	52.2	61.9	79.3	96.7	104.4
46.4	10°	44.5	40.6	38.7	36.7	36.7	40.6	50.3	67.7	87.0	94.7
38.7	12.5°	36.7	30.9	27.1	25.1	23.2	29.0	38.7	54.1	75.4	85.1
29.0	15°	25.1	19.3	13.5	11.6	9.7	15.5	25.1	42.5	63.8	75.4
15.5	17.5°	13.5	5.8	1.9	0.0	0.0	3.9	11.6	30.9	52.2	61.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5	38.7	48.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	23.2	32.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	17.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	15.5
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°
112.1	0°	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1
133.4	2.5°	137.3	135.3	131.5	127.6	127.6	127.6	133.4	139.2	145.0	145.0
119.9	5°	127.6	127.6	125.7	121.8	121.8	123.7	131.5	141.1	148.9	150.8
110.2	7.5°	117.9	121.8	117.9	116.0	117.9	119.9	127.6	139.2	150.8	154.7
102.5	10°	112.1	114.1	114.1	112.1	112.1	116.0	123.7	139.2	154.7	160.5
92.8	12.5°	104.4	108.3	106.3	106.3	106.3	110.2	119.9	137.3	158.5	166.3
83.1	15°	96.7	102.5	102.5	100.5	100.5	102.5	116.0	135.3	164.3	177.9
71.5	17.5°	88.9	94.7	96.7	92.8	92.8	96.7	110.2	135.3	168.2	191.4
58.0	20°	73.5	83.1	88.9	83.1	83.1	87.0	100.5	127.6	170.1	204.9
42.5	22.5°	58.0	67.7	75.4	73.5	73.5	75.4	92.8	121.8	172.1	228.1
25.1	25°	42.5	52.2	58.0	61.9	61.9	67.7	85.1	117.9	179.8	276.5
11.6	27.5°	25.1	36.7	44.5	48.3	50.3	58.0	79.3	114.1	193.3	346.1
0.0	30°	11.6	21.3	30.9	38.7	38.7	52.2	73.5	110.2	210.7	446.6
0.0	32.5°	0.0	9.7	15.5	27.1	29.0	42.5	67.7	106.3	235.9	543.3
0.0	35°	0.0	0.0	7.7	21.3	21.3	34.8	61.9	102.5	274.5	616.7
0.0	37.5°	0.0	0.0	0.0	15.5	17.4	30.9	59.9	100.5	282.3	622.5
0.0	40°	0.0	0.0	0.0	11.6	13.5	29.0	59.9	102.5	255.2	609.0
0.0	42.5°	0.0	0.0	0.0	7.7	9.7	29.0	59.9	106.3	230.1	624.5
0.0	45°	0.0	0.0	0.0	5.8	7.7	30.9	58.0	104.4	216.5	705.7
0.0	47.5°	0.0	0.0	0.0	7.7	11.6	30.9	56.1	102.5	218.5	974.4
0.0	50°	0.0	0.0	0.0	9.7	13.5	30.9	58.0	98.6	239.7	1498.3
0.0	52.5°	0.0	0.0	0.0	7.7	11.6	34.8	63.8	96.7	261.0	1948.8
0.0	55°	0.0	0.0	0.0	1.9	5.8	44.5	69.6	96.7	293.9	2060.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	50.3	79.3	102.5	348.0	2016.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	50.3	81.2	102.5	351.9	1977.8
0.0	60°	0.0	0.0	0.0	0.0	0.0	50.3	88.9	114.1	378.9	1761.3
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	42.5	106.3	143.1	394.4	1384.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	34.8	125.7	156.6	406.0	1102.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	32.9	129.5	158.5	411.8	877.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	34.8	127.6	170.1	431.1	713.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	38.7	116.0	187.5	431.1	632.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	40.6	108.3	210.7	392.5	547.1
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	38.7	106.3	245.5	349.9	450.5
0.0	80°	3.9	5.8	5.8	3.9	3.9	32.9	104.4	249.4	297.7	309.3
1.9	82.5°	11.6	15.5	13.5	9.7	9.7	29.0	92.8	208.8	154.7	133.4
11.6	85°	21.3	25.1	25.1	21.3	21.3	27.1	58.0	75.4	52.2	42.5
21.3	87.5°	29.0	32.9	32.9	29.0	29.0	27.1	25.1	23.2	21.3	21.3
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: SP1-2407-184-9

Test Date: 10/10/2024

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

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

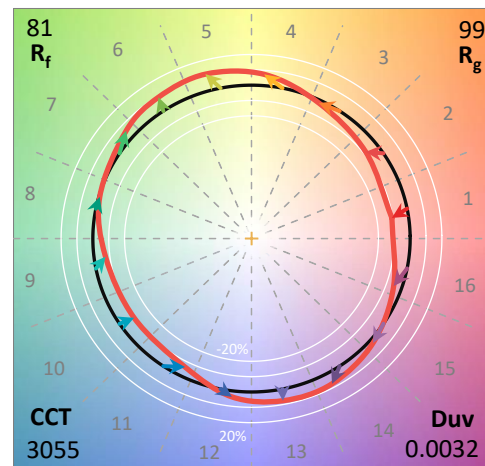
Test Information

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

Spectral Parameters

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

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



Test Conditions

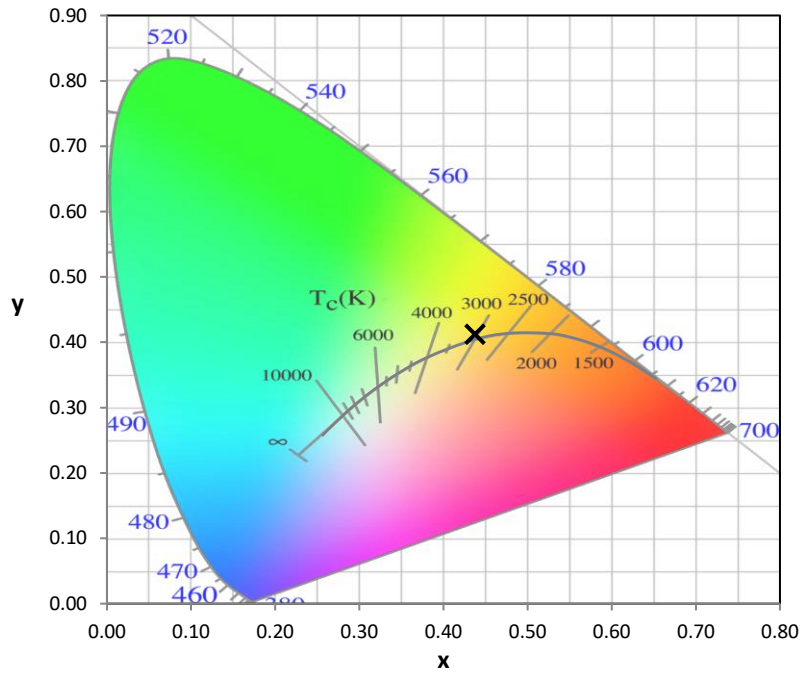
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

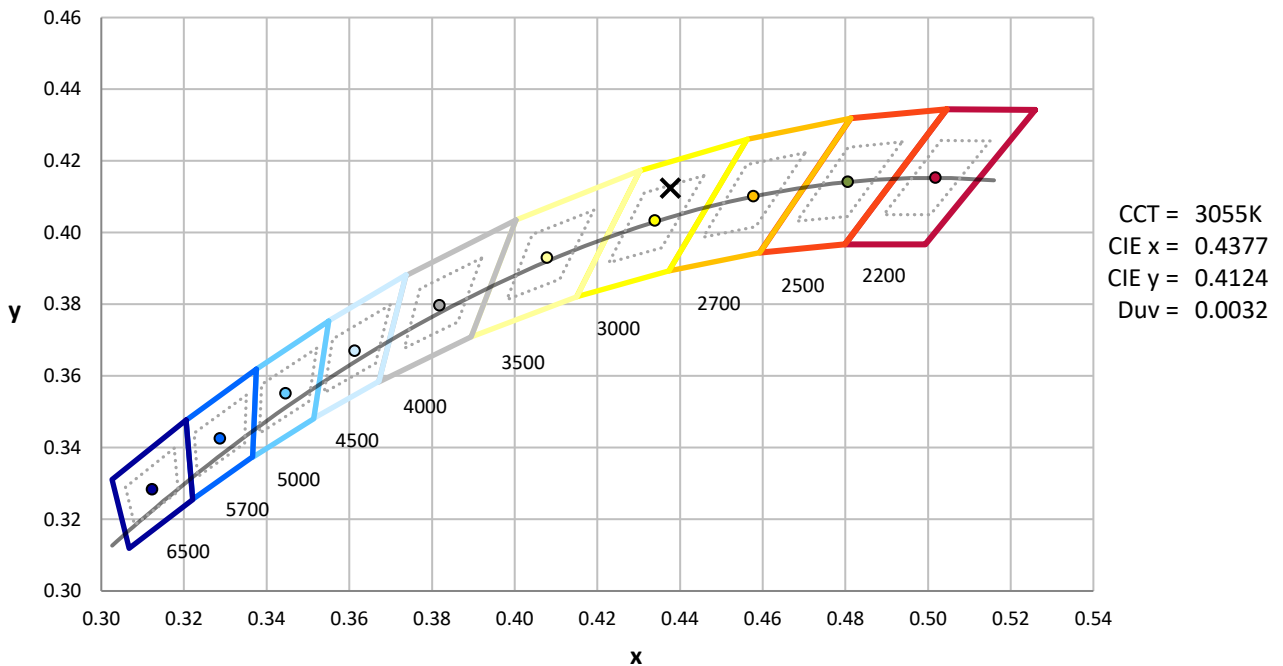
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



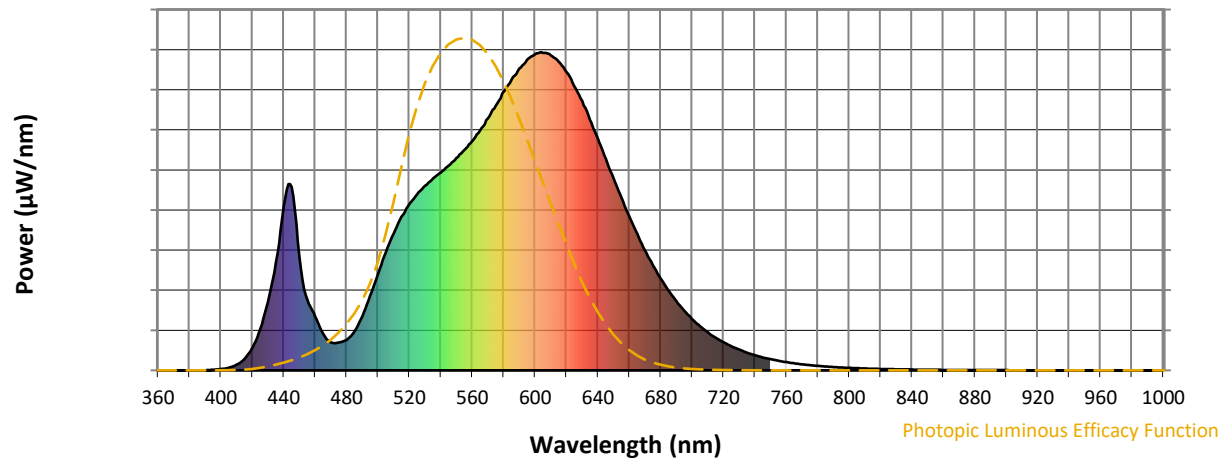
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

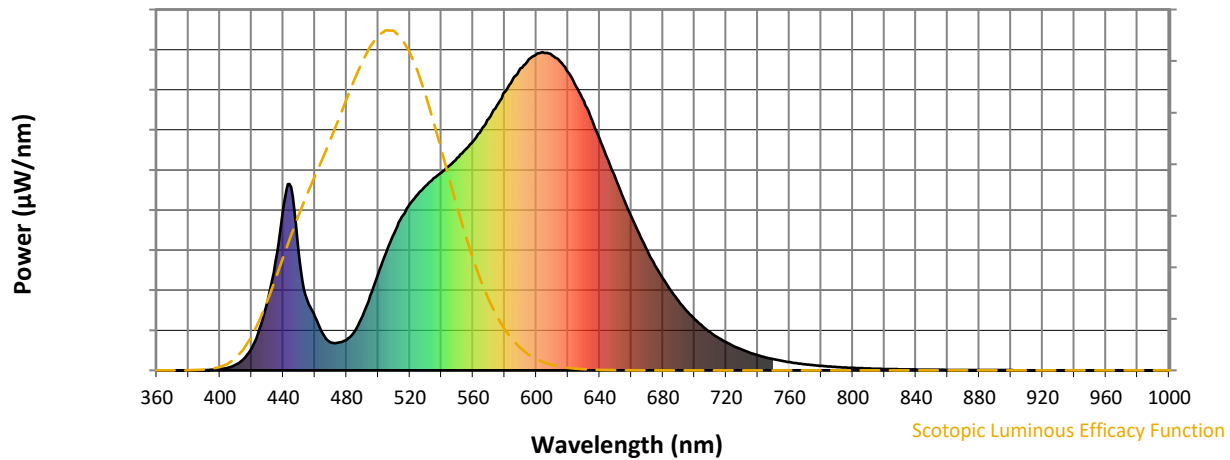


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



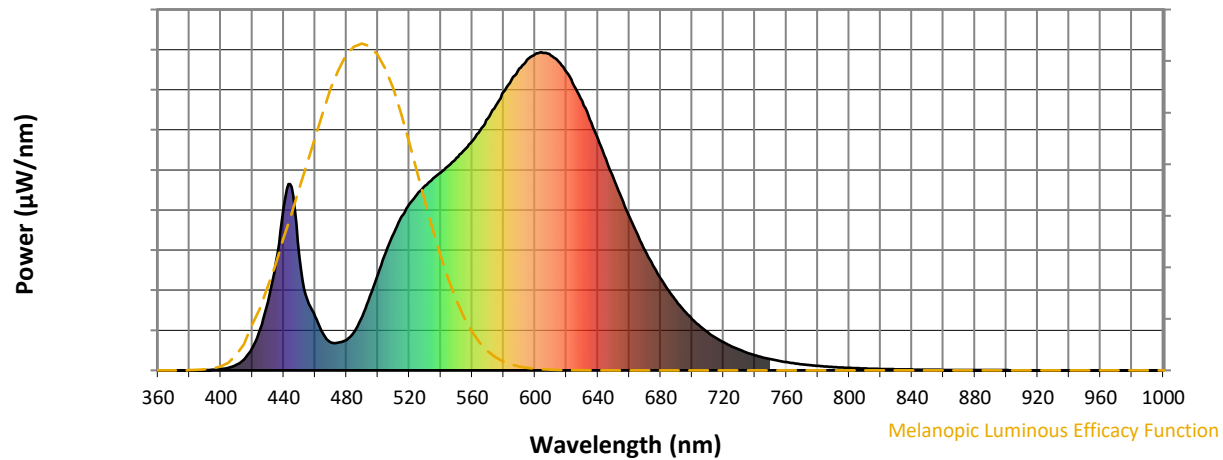
Scotopic Lumens: NR

S/P: 1.28

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

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.33

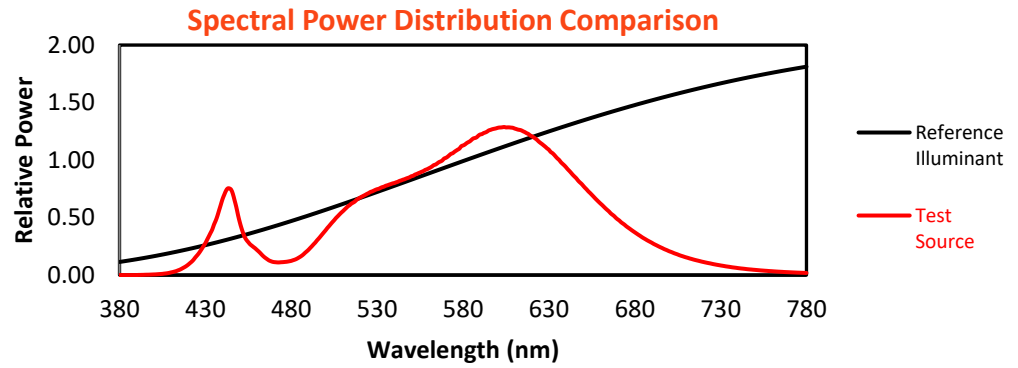
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938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

REPORT NUMBER: SP1-2407-184-9

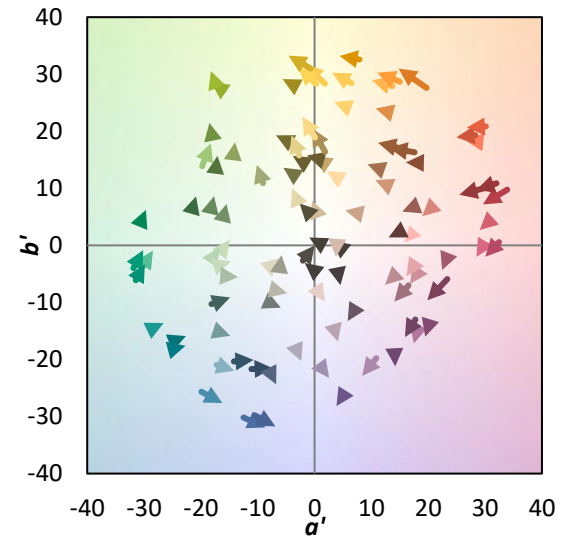
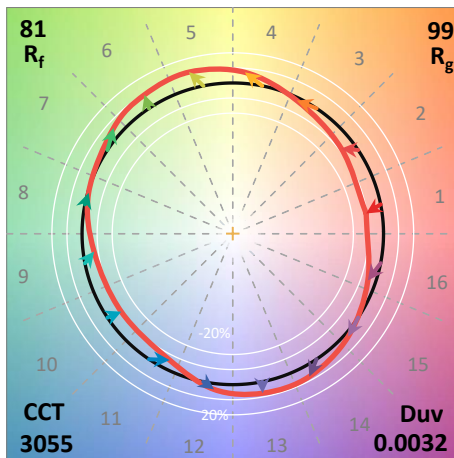
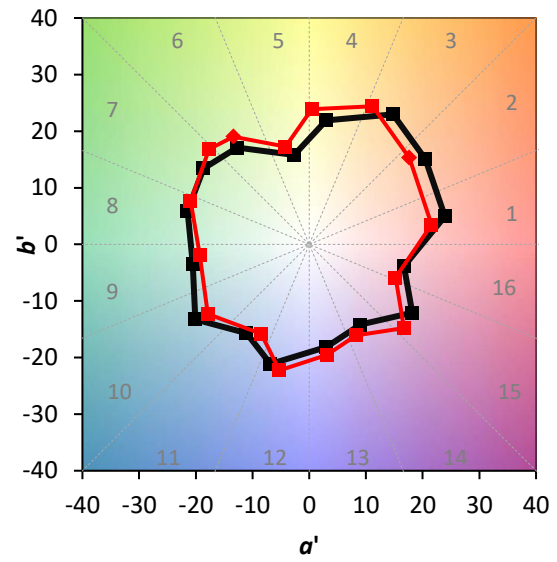
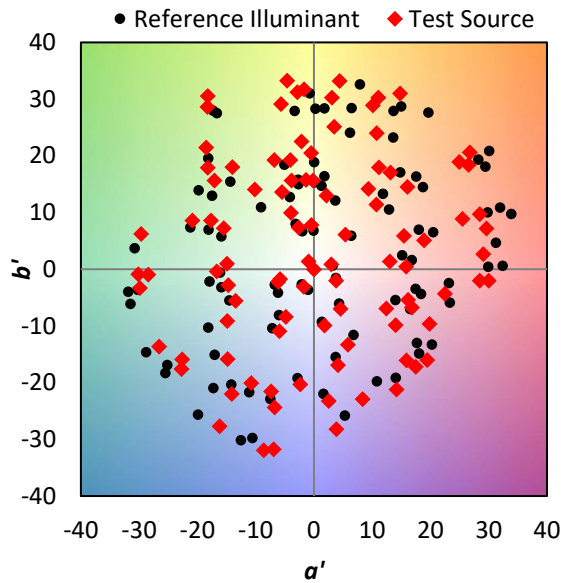
TM-30-18

Summary

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

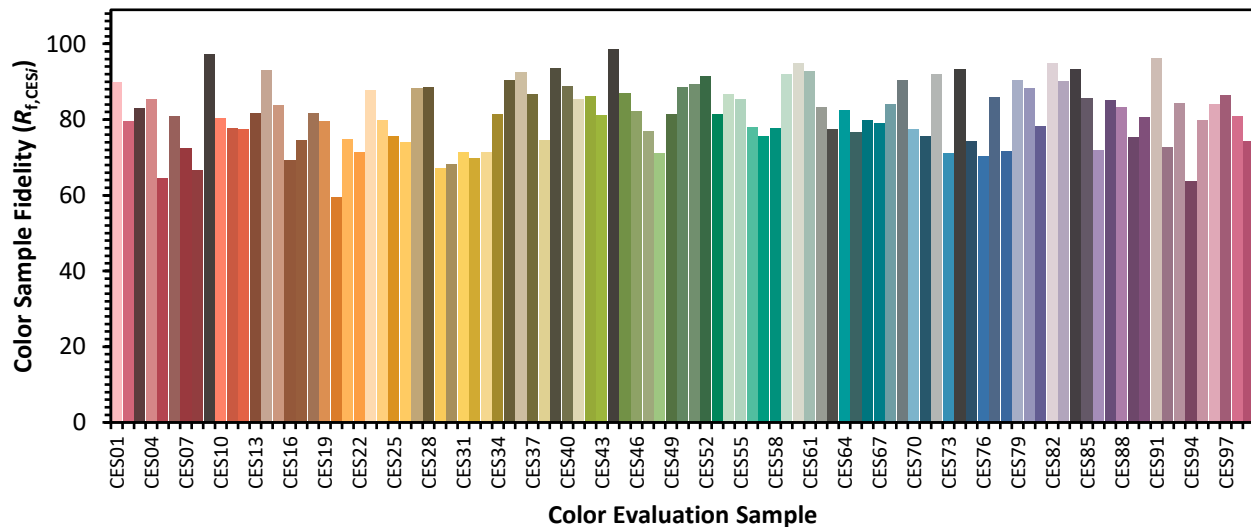


Color Vector Graphics

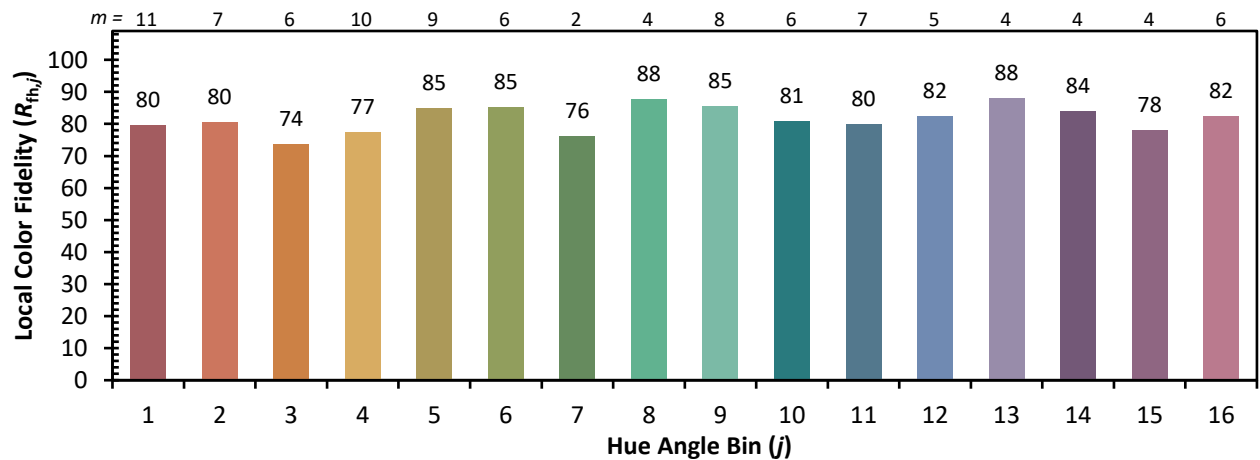
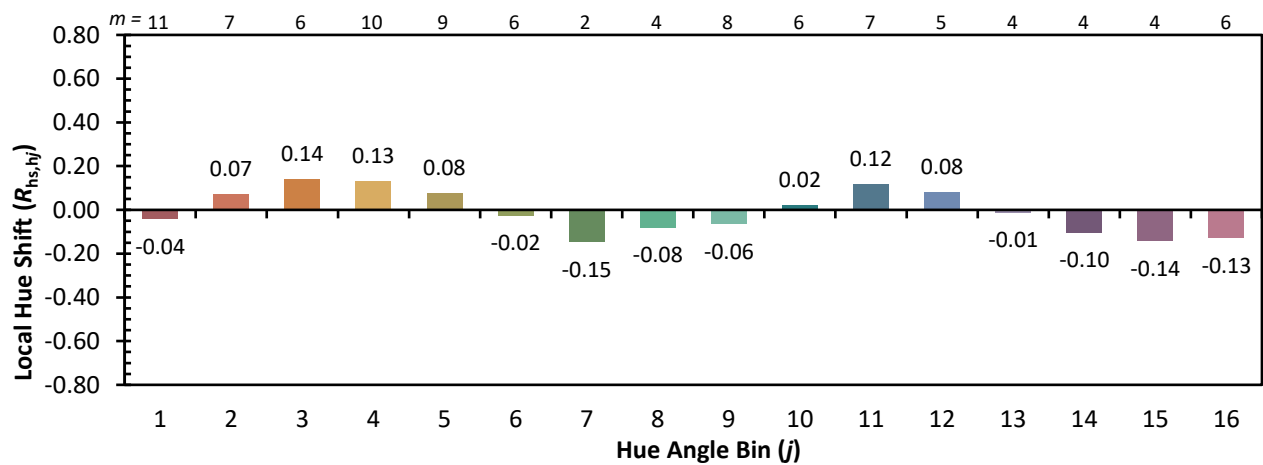
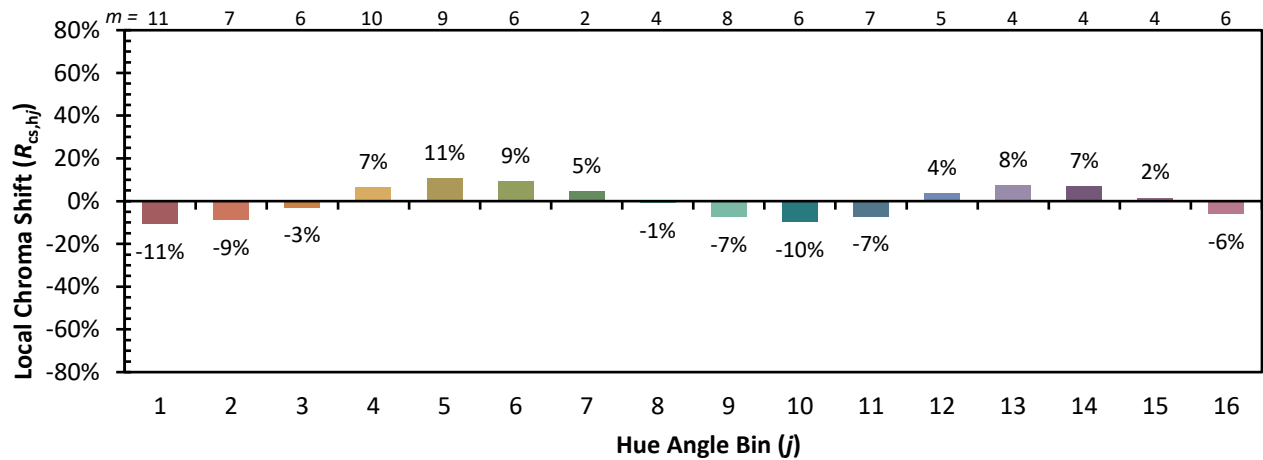


Individual Sample Fidelity Index ($R_{f,i}$)

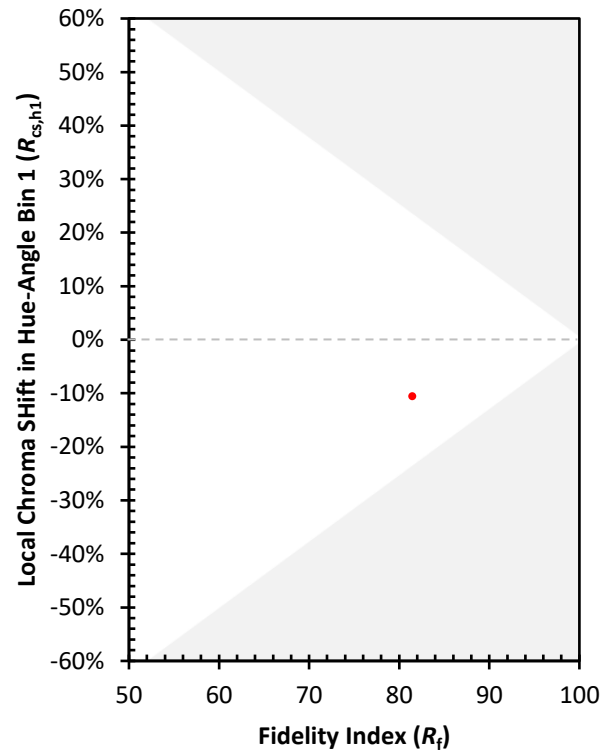
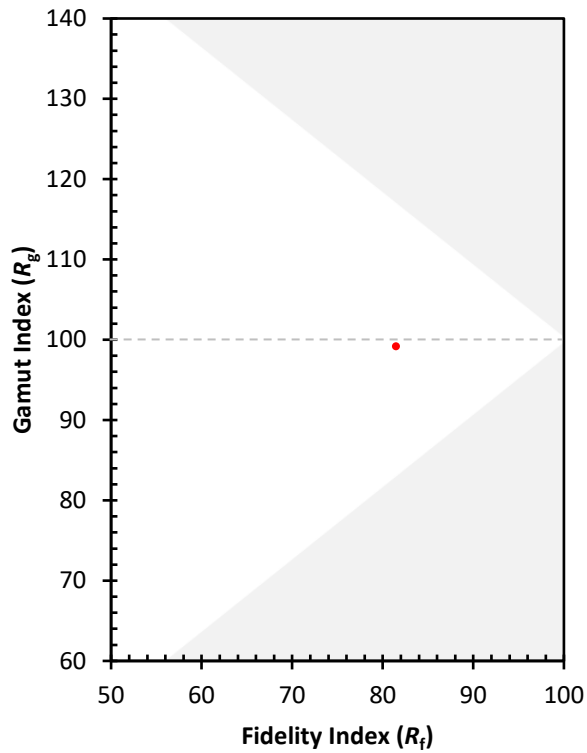
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)