

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: P1049745

Luminaire Tested: **GALN-SA9A-827-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049745
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 9xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25248.9 lumens
Efficiency: N/A
Efficacy: 103.2 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

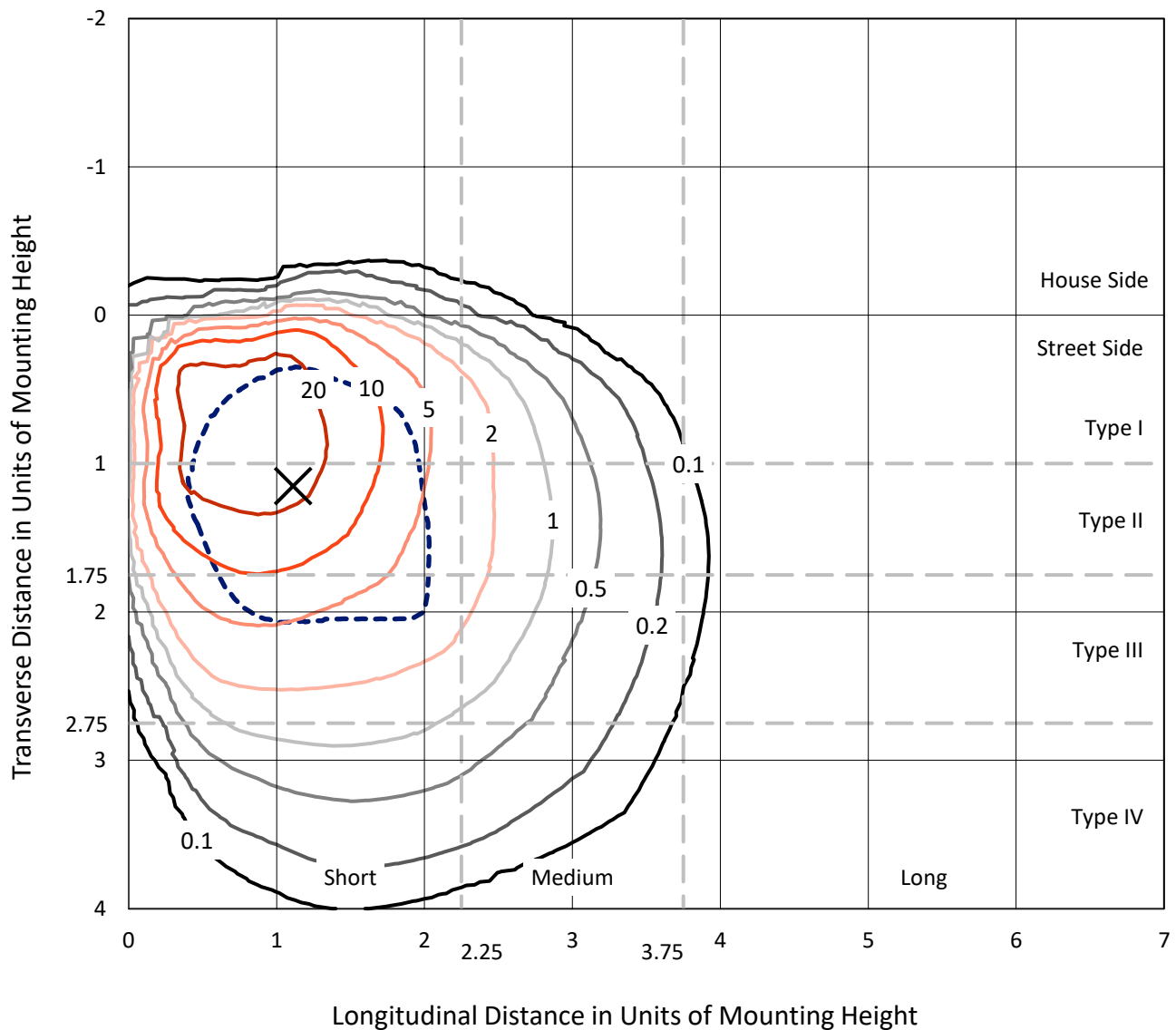
Input Watts (W): 244.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

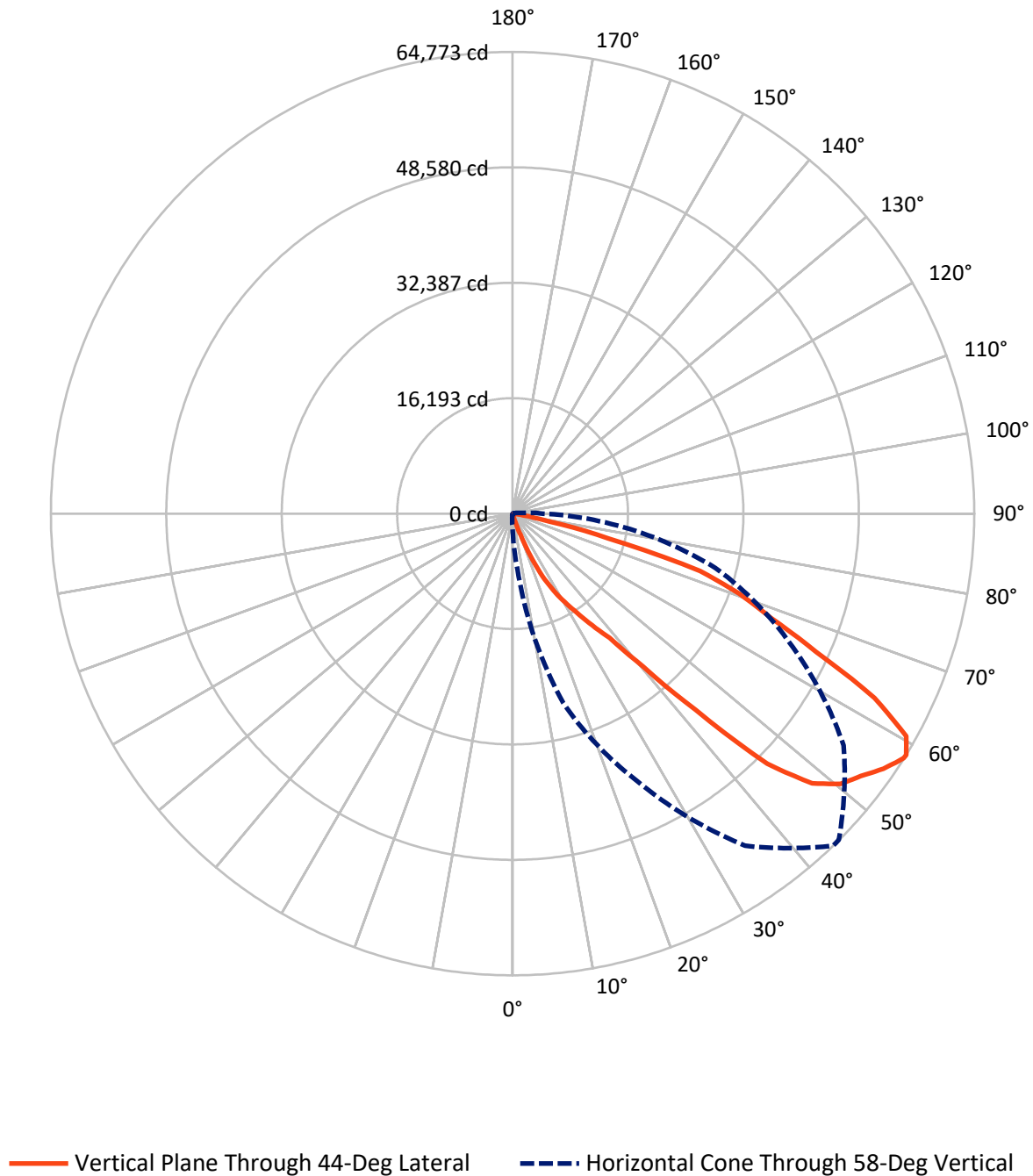
× Max cd
- - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 44 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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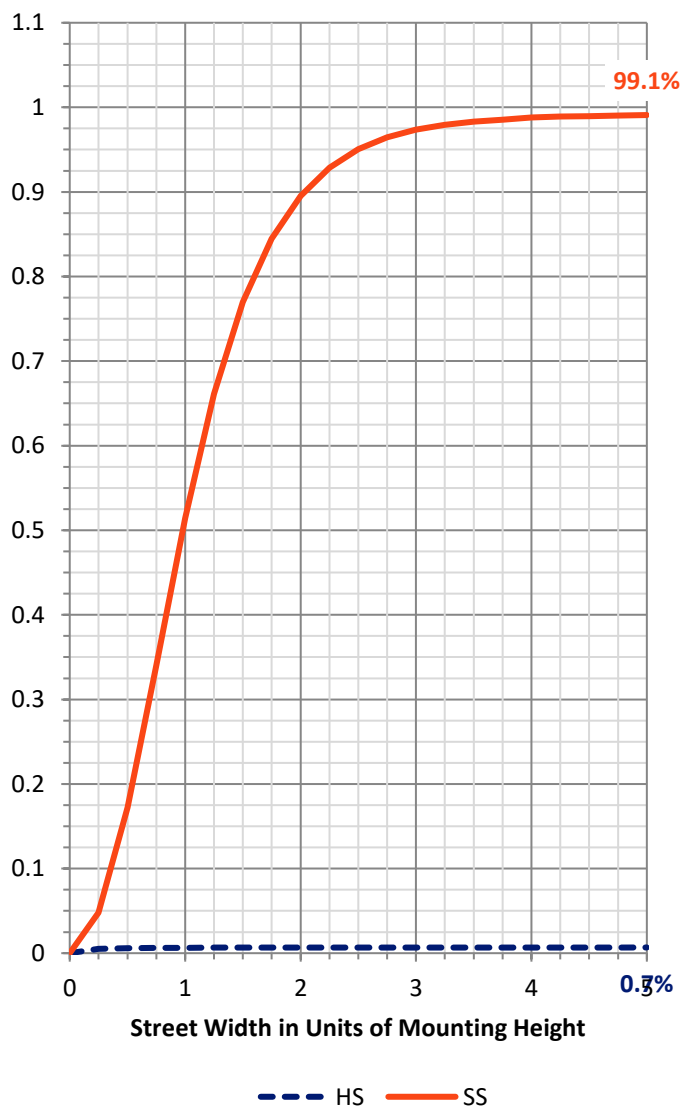
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	172.4	0.0	172.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	25076.5	0.0	25076.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	25248.9	0.0	25248.9
	% Fixture	100.0	0.0	100.0

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°	1768.9	7.0
40°-50°	5272.4	20.9
50°-60°	8366.0	33.1
60°-70°	6978.2	27.6
70°-80°	2152.2	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°	25248.9	100.0
0°-180°	25248.9	100.0

Coefficient of Utilization



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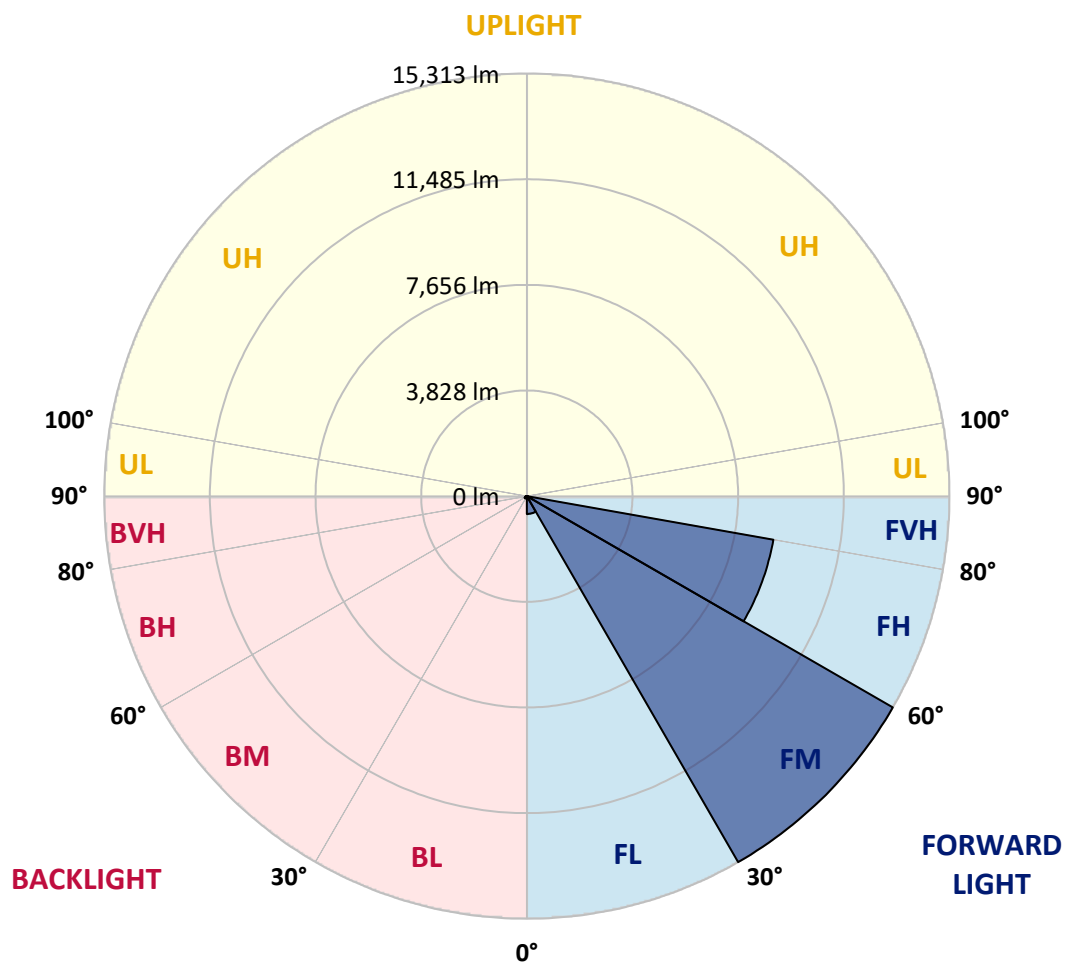
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	646.5	2.6			
FM	(30°-60°)	15312.9	60.6			
FH	(60°-80°)	9071.6	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°	143.1	143.1	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	118.3	114.4
7.5°	152.6	154.5	158.3	156.4	152.6	146.9	146.9	143.1	137.3	127.8
10°	158.3	164.0	171.7	175.5	177.4	177.4	175.5	173.6	164.0	150.7
12.5°	164.0	175.5	194.5	213.6	225.1	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	429.2	347.1	244.1
17.5°	188.8	217.4	337.6	602.7	988.0	1171.1	1281.7	1192.1	789.6	463.5
20°	202.2	265.1	627.5	1562.1	2563.5	3162.4	3328.3	3068.9	1970.3	883.1
22.5°	225.1	371.9	1272.2	3229.1	5523.7	6422.0	6591.8	5762.1	3721.2	1743.3
25°	272.7	539.8	2193.4	5262.4	8243.5	9759.9	9689.3	8602.1	6036.7	2784.7
27.5°	341.4	785.8	3316.9	7476.8	10849.0	12186.0	12346.2	11001.5	8047.1	4095.1
30°	440.6	1089.1	4522.3	9250.6	12937.5	14383.3	14410.0	13019.5	9845.7	5245.2
32.5°	536.0	1375.2	5577.1	10965.3	14995.5	16580.5	16698.8	14987.9	11188.5	6443.0
35°	608.4	1562.1	6645.2	12472.1	17070.7	19254.6	19247.0	17215.7	12779.2	7513.0
37.5°	614.2	1749.0	7612.2	14013.2	19699.0	22144.2	22386.5	20147.3	14701.8	8836.7
40°	600.8	1958.8	8836.7	16416.5	24435.0	28186.7	28400.3	25577.5	18558.4	11102.6
42.5°	616.1	2323.1	10824.2	20854.9	32298.9	37687.2	38099.2	35131.3	25648.0	15726.0
45°	696.2	3007.9	14987.9	28280.2	43508.4	50077.3	49939.9	45665.6	33897.3	22764.1
47.5°	961.3	4684.4	21160.0	35507.1	50672.3	56522.2	56640.4	51416.2	38711.4	28175.3
50°	1478.2	7167.8	26346.1	39327.5	53752.7	59621.6	59511.0	53474.2	40540.5	30839.8
52.5°	1922.6	8964.5	28947.7	40668.3	54147.5	61153.2	61145.6	54015.9	40824.7	31068.7
55°	2033.2	9099.9	28968.7	40740.8	55032.5	63157.8	63409.6	55349.2	41192.9	30069.2
57.5°	1989.4	8056.6	27759.5	41160.4	56608.0	64708.5	64721.8	56640.4	42127.5	29457.0
58°	1951.2	7892.6	27515.3	41398.9	56878.8	64773.3	64740.9	56699.5	42888.5	29434.1
60°	1737.6	6853.1	26563.5	42007.3	56476.4	63442.0	63138.7	55408.3	42776.0	29199.5
62.5°	1365.7	5346.3	25627.0	41303.5	52162.0	56997.1	57123.0	49054.9	38995.6	27831.9
65°	1087.2	3984.4	23673.9	36230.0	42953.3	46806.2	47275.4	39890.1	32548.8	23567.1
67.5°	865.9	2880.1	19859.2	28844.7	33988.8	39064.3	39405.7	33491.0	25217.0	18056.8
70°	703.8	1947.4	13708.1	21095.2	28034.1	33740.9	33761.9	27822.4	18821.6	11831.2
72.5°	623.7	1348.5	7957.4	15384.6	22731.7	27494.3	26939.3	22577.2	14465.3	7007.6
75°	539.8	894.5	3902.4	9405.1	13782.5	13875.9	14087.6	10473.2	7230.7	3332.1
77.5°	444.4	635.1	1537.3	2569.2	4133.2	5291.0	5487.4	4158.0	2405.2	820.2
80°	305.2	301.4	413.9	787.7	1182.6	1482.0	1382.8	1070.0	629.4	314.7
82.5°	131.6	143.1	186.9	225.1	183.1	177.4	169.8	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	91.6	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	91.6	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°	143.1	129.7	110.6	91.6	78.2	66.8	61.0	53.4	47.7	42.0
179.3	15°	156.4	139.2	112.5	91.6	74.4	61.0	53.4	45.8	40.1	32.4
225.1	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
1083.4	27.5°	476.8	230.8	103.0	59.1	36.2	13.4	0.0	0.0	0.0	0.0
1476.3	30°	597.0	270.8	103.0	51.5	28.6	1.9	0.0	0.0	0.0	0.0
1817.7	32.5°	711.4	305.2	104.9	43.9	19.1	0.0	0.0	0.0	0.0	0.0
2290.7	35°	827.8	310.9	103.0	38.1	11.4	0.0	0.0	0.0	0.0	0.0
2870.5	37.5°	976.6	299.5	97.3	34.3	5.7	0.0	0.0	0.0	0.0	0.0
3776.5	40°	1201.6	305.2	91.6	32.4	1.9	0.0	0.0	0.0	0.0	0.0
5392.1	42.5°	1617.4	330.0	83.9	32.4	0.0	0.0	0.0	0.0	0.0	0.0
8588.8	45°	2796.2	442.5	76.3	34.3	0.0	0.0	0.0	0.0	0.0	0.0
12893.6	47.5°	4625.3	795.4	74.4	34.3	0.0	0.0	0.0	0.0	0.0	0.0
15531.5	50°	5903.2	1001.4	78.2	36.2	0.0	0.0	0.0	0.0	0.0	0.0
15861.5	52.5°	5893.7	1115.8	82.0	38.1	7.6	0.0	0.0	0.0	0.0	0.0
14619.8	55°	5239.5	1136.8	87.7	42.0	24.8	0.0	0.0	0.0	0.0	0.0
12563.7	57.5°	4379.3	1037.6	101.1	51.5	45.8	0.0	0.0	0.0	0.0	0.0
12241.3	58°	4226.7	991.8	104.9	53.4	49.6	0.0	0.0	0.0	0.0	0.0
10618.2	60°	3463.7	808.7	133.5	66.8	66.8	0.0	0.0	0.0	0.0	0.0
8705.1	62.5°	2391.8	705.7	152.6	85.8	68.7	0.0	0.0	0.0	0.0	0.0
6418.2	65°	1691.8	637.1	165.9	91.6	55.3	0.0	0.0	0.0	0.0	0.0
4560.5	67.5°	1264.6	587.5	183.1	93.5	28.6	0.0	0.0	0.0	0.0	0.0
2861.0	70°	968.9	551.2	225.1	99.2	7.6	0.0	0.0	0.0	0.0	0.0
1705.2	72.5°	789.6	509.3	272.7	103.0	0.0	0.0	0.0	0.0	0.0	0.0
1022.3	75°	654.2	459.7	263.2	112.5	0.0	0.0	0.0	0.0	0.0	0.0
545.5	77.5°	434.9	356.7	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	91.6	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	143.1	143.1
118.3	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	118.3	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
91.6	12.5°	103.0	106.8	104.9	104.9	104.9	108.7	118.3	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	91.6	91.6	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	91.6	120.2	169.8	225.1
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	536.0
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	278.5	614.2
0.0	40°	0.0	0.0	0.0	11.4	13.4	28.6	59.1	101.1	251.8	600.8
0.0	42.5°	0.0	0.0	0.0	7.6	9.5	28.6	59.1	104.9	227.0	616.1
0.0	45°	0.0	0.0	0.0	5.7	7.6	30.5	57.2	103.0	213.6	696.2
0.0	47.5°	0.0	0.0	0.0	7.6	11.4	30.5	55.3	101.1	215.5	961.3
0.0	50°	0.0	0.0	0.0	9.5	13.4	30.5	57.2	97.3	236.5	1478.2
0.0	52.5°	0.0	0.0	0.0	7.6	11.4	34.3	62.9	95.4	257.5	1922.6
0.0	55°	0.0	0.0	0.0	1.9	5.7	43.9	68.7	95.4	289.9	2033.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	49.6	78.2	101.1	343.3	1989.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	49.6	80.1	101.1	347.1	1951.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	49.6	87.7	112.5	373.8	1737.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	42.0	104.9	141.1	389.1	1365.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	34.3	124.0	154.5	400.5	1087.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	32.4	127.8	156.4	406.3	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	539.8
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	91.6	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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

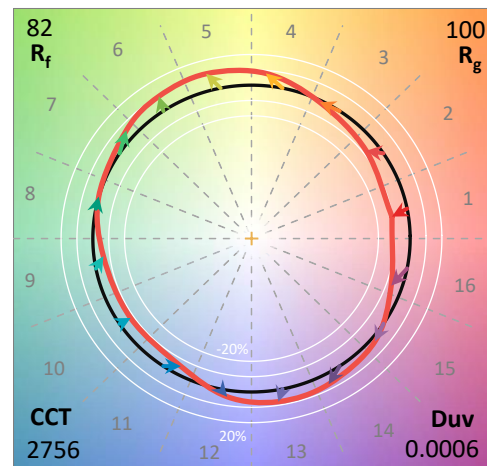
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 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-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 R_f: 82.2
 R_g: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

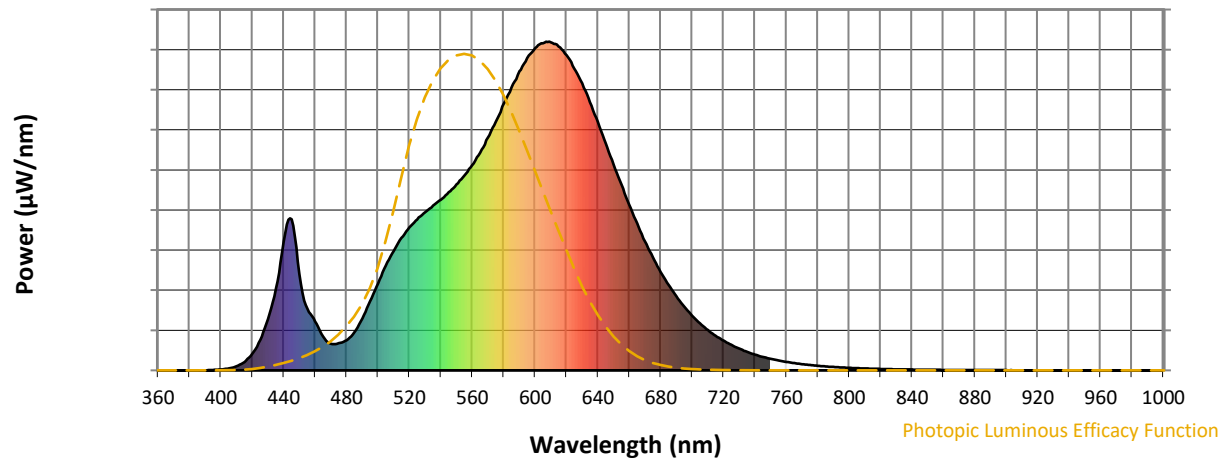
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

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

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

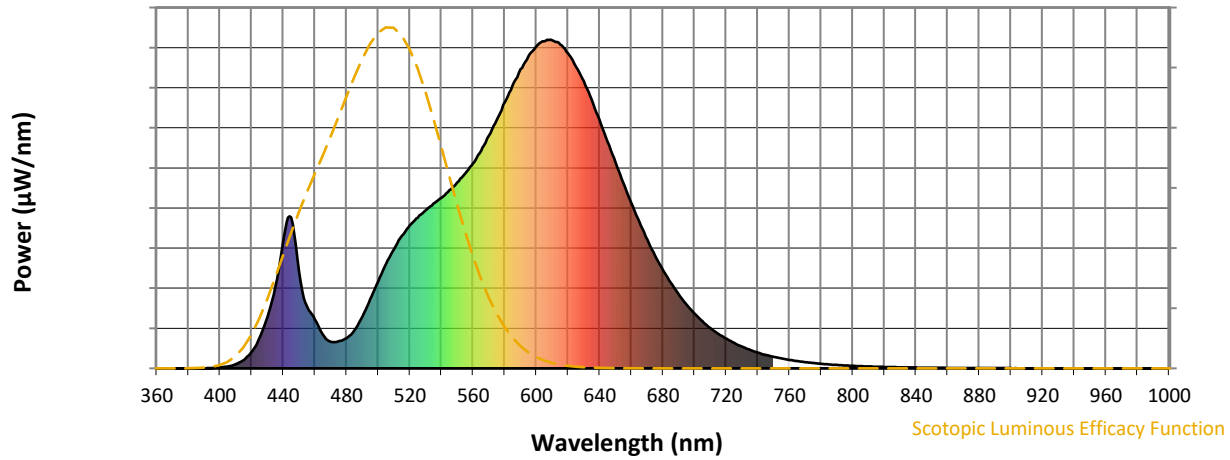


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength



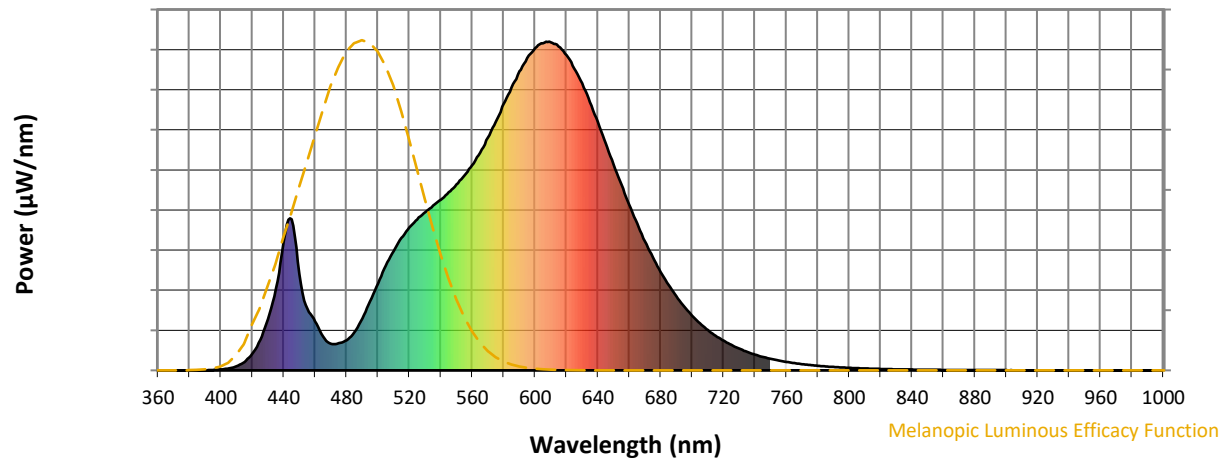
Scotopic Lumens: NR

S/P: 1.2

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.16

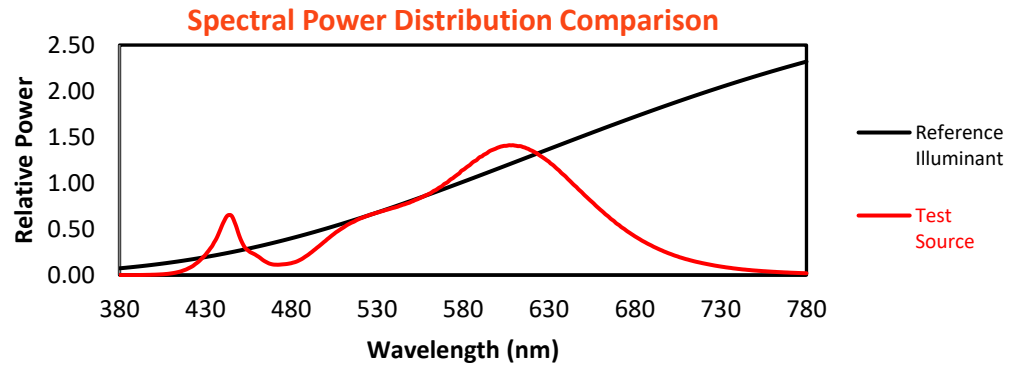
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

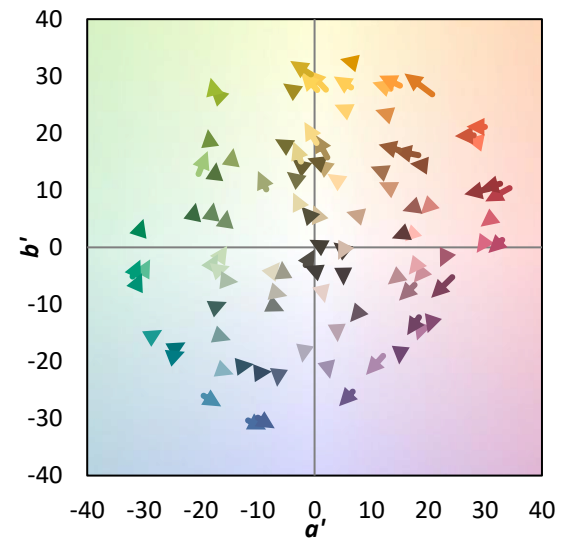
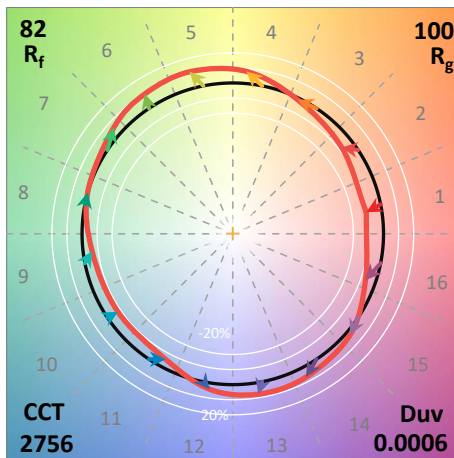
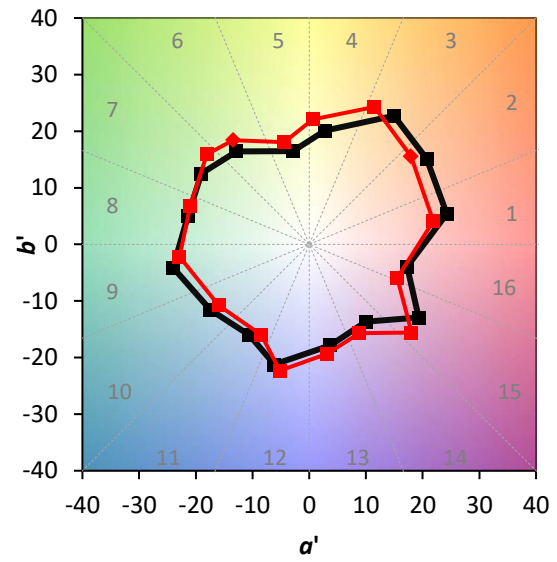
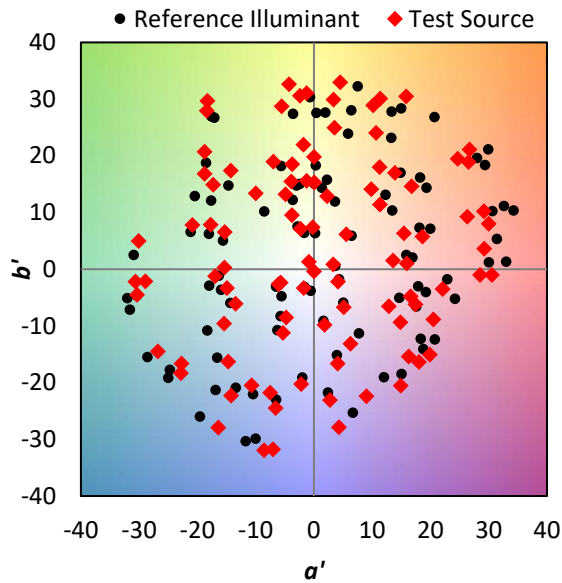
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE R_a = 82.9$
 $R_9 = 10.8$

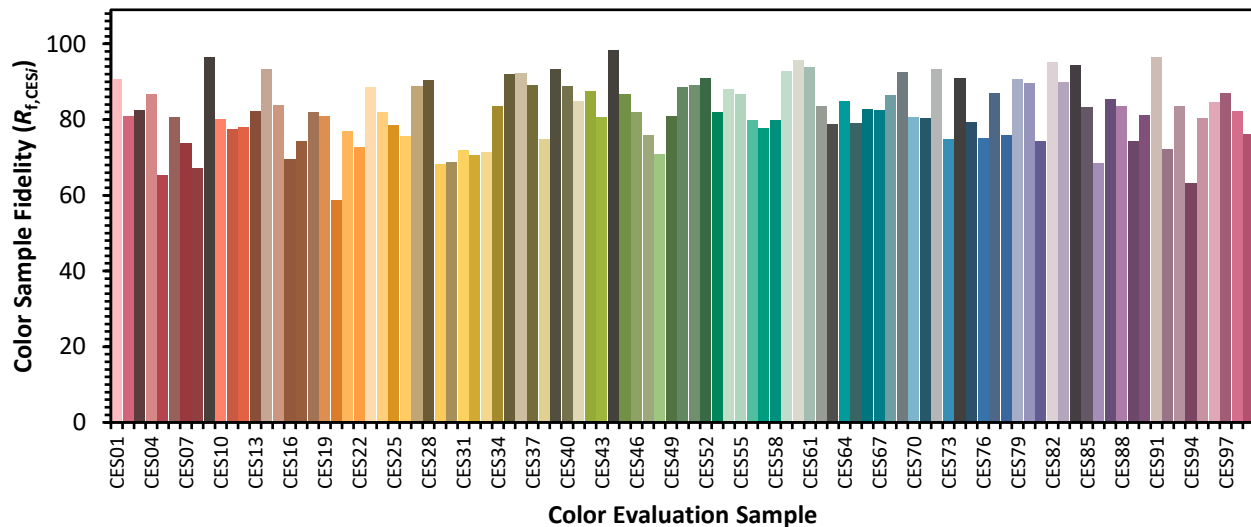


Color Vector Graphics

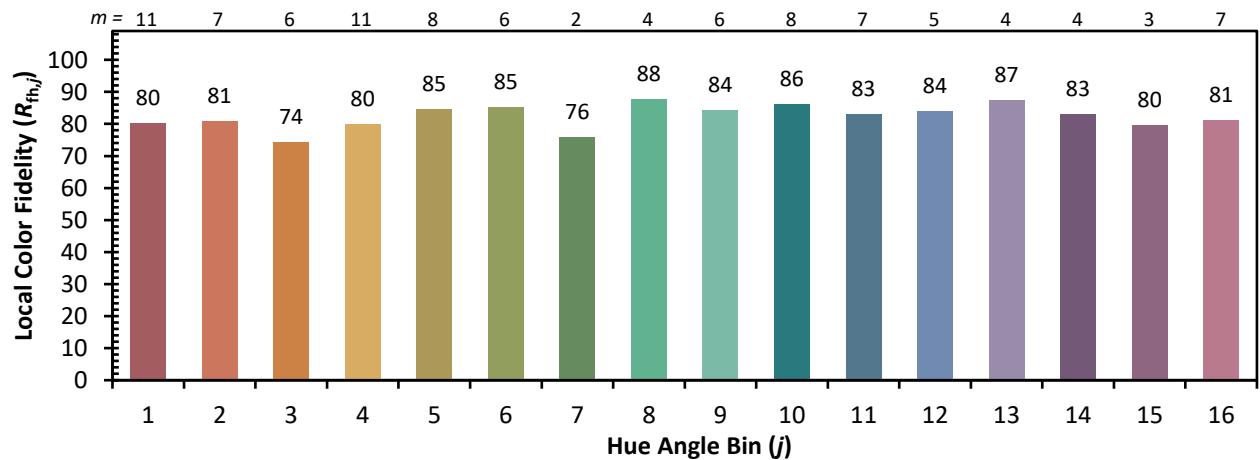
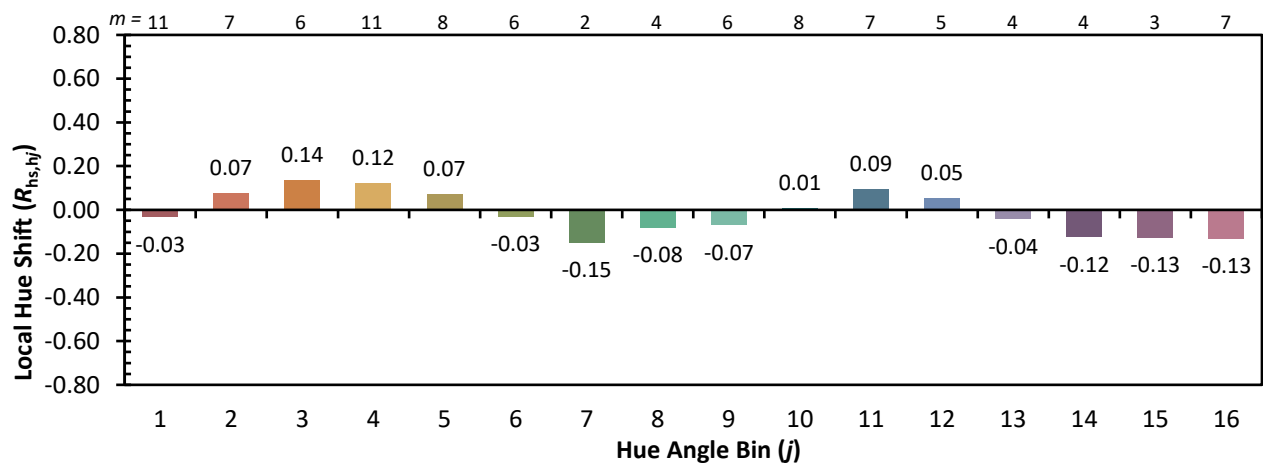
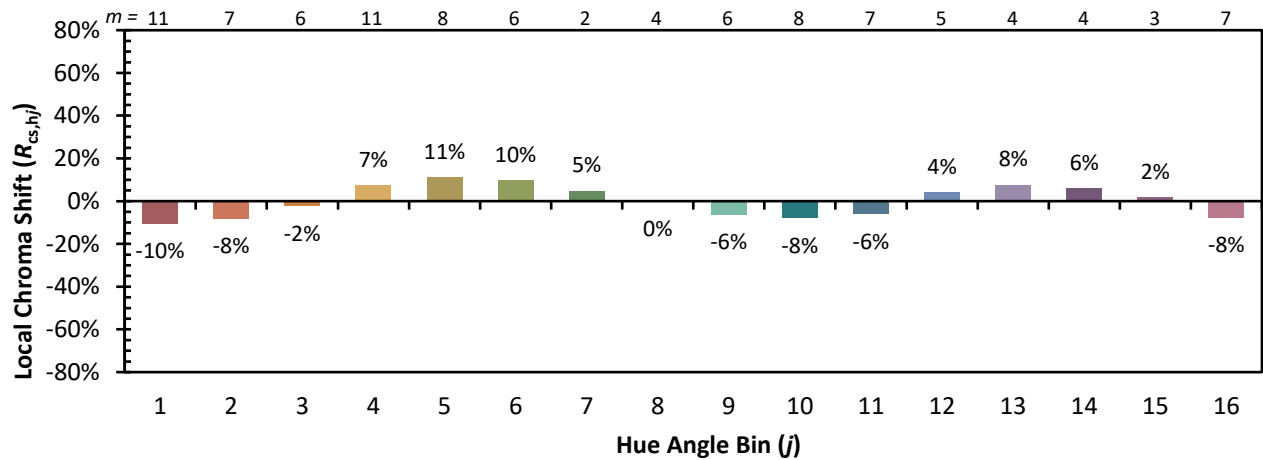


Individual Sample Fidelity Index ($R_{f,i}$)

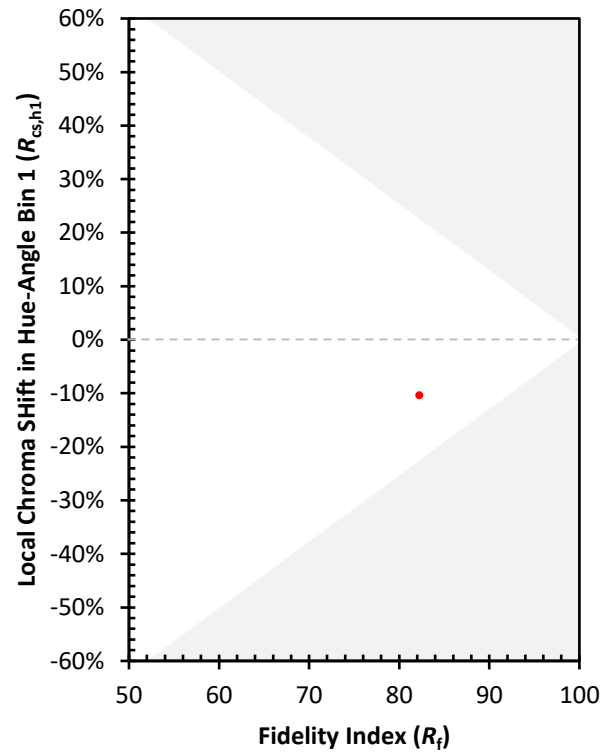
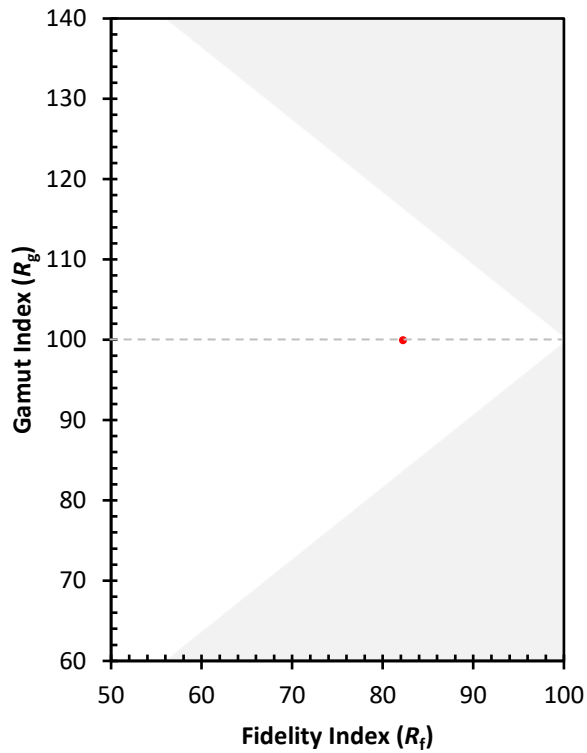
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)