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: P324330

Luminaire Tested: **GLEON-SA6C-830-U-SLL-HSS**

Issue Date: 3/3/2020

Report Generated By E0585644

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P324330
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA6C-830-U-SLL-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	24922 lumens
Efficiency:	N/A
Efficacy:	74.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G4

Input Watts (W):	333
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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REPORT NUMBER: P324330
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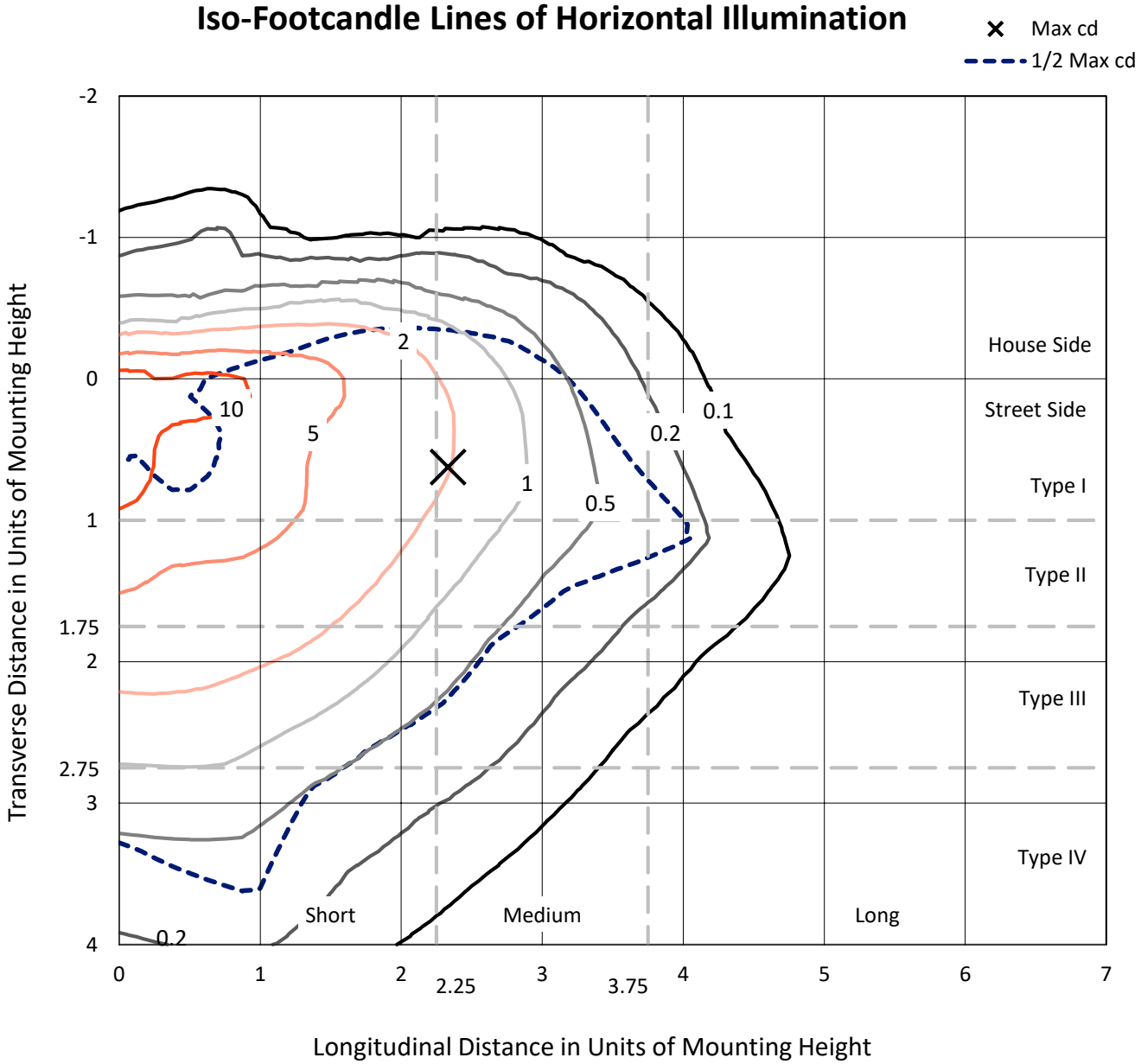
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
Type III - Medium - N/A

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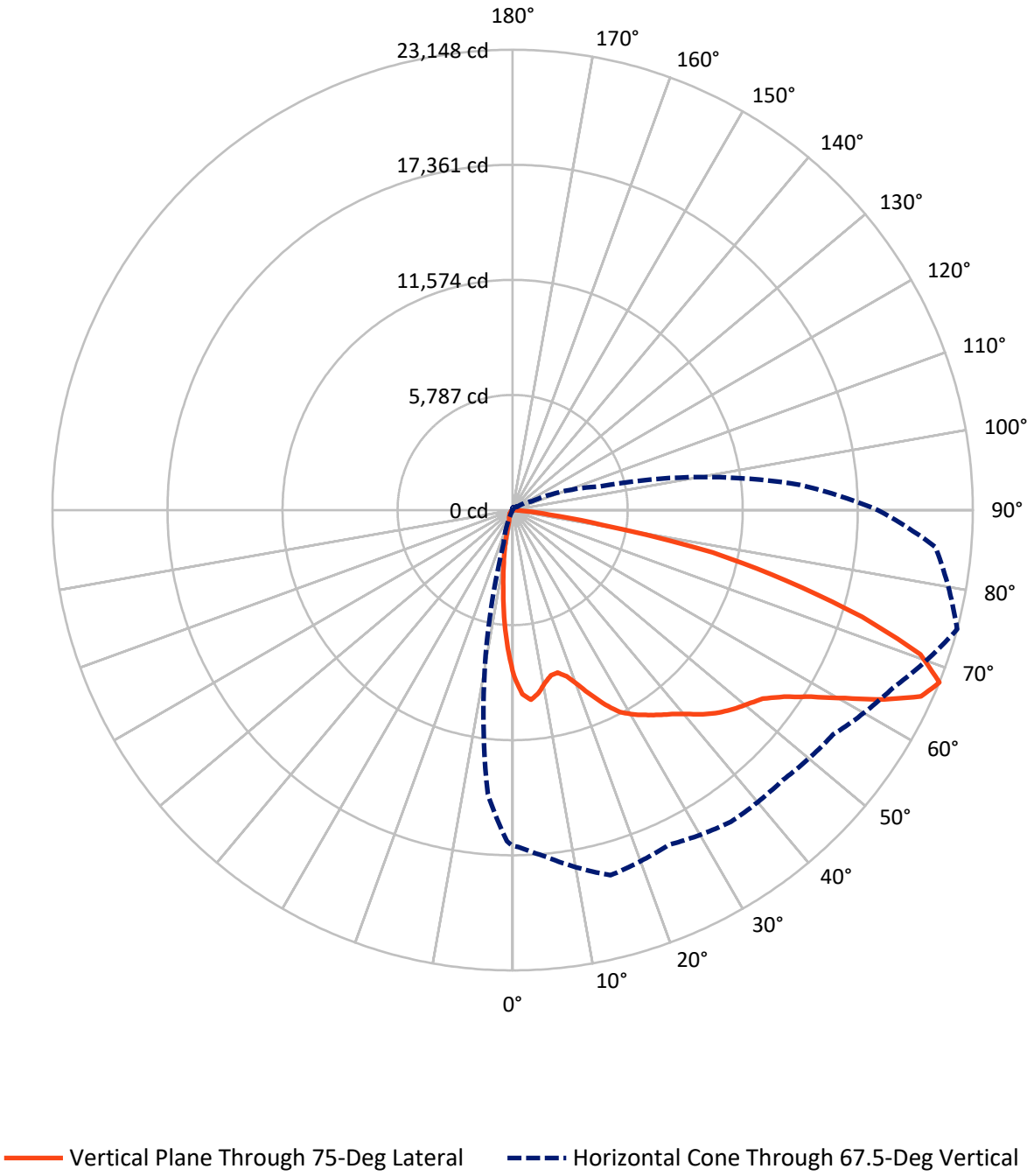
Luminous Intensity Polar Plot



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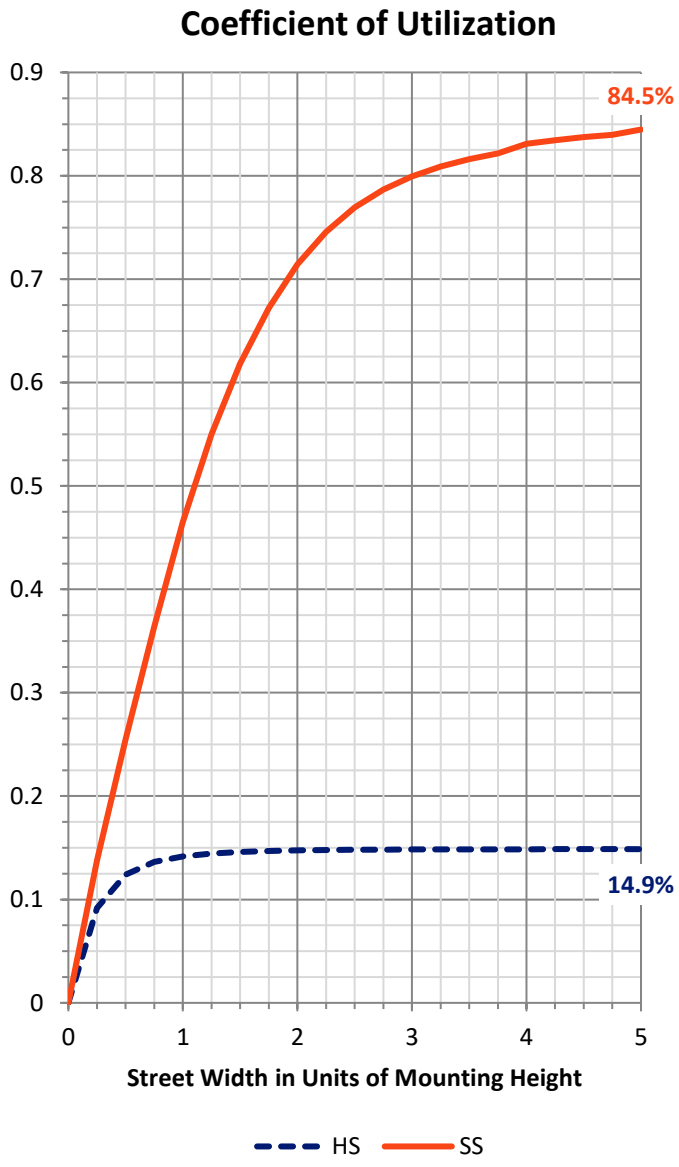
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3739.8	0.0	3739.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	21182.2	0.0	21182.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	24922.0	0.0	24922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.2	2.5
10°-20°	1248.8	5.0
20°-30°	1766.7	7.1
30°-40°	2597.5	10.4
40°-50°	3733.4	15.0
50°-60°	5255.7	21.1
60°-70°	6138.2	24.6
70°-80°	3131.5	12.6
80°-90°	416.0	1.7
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°	24922.0	100.0
0°-180°	24922.0	100.0



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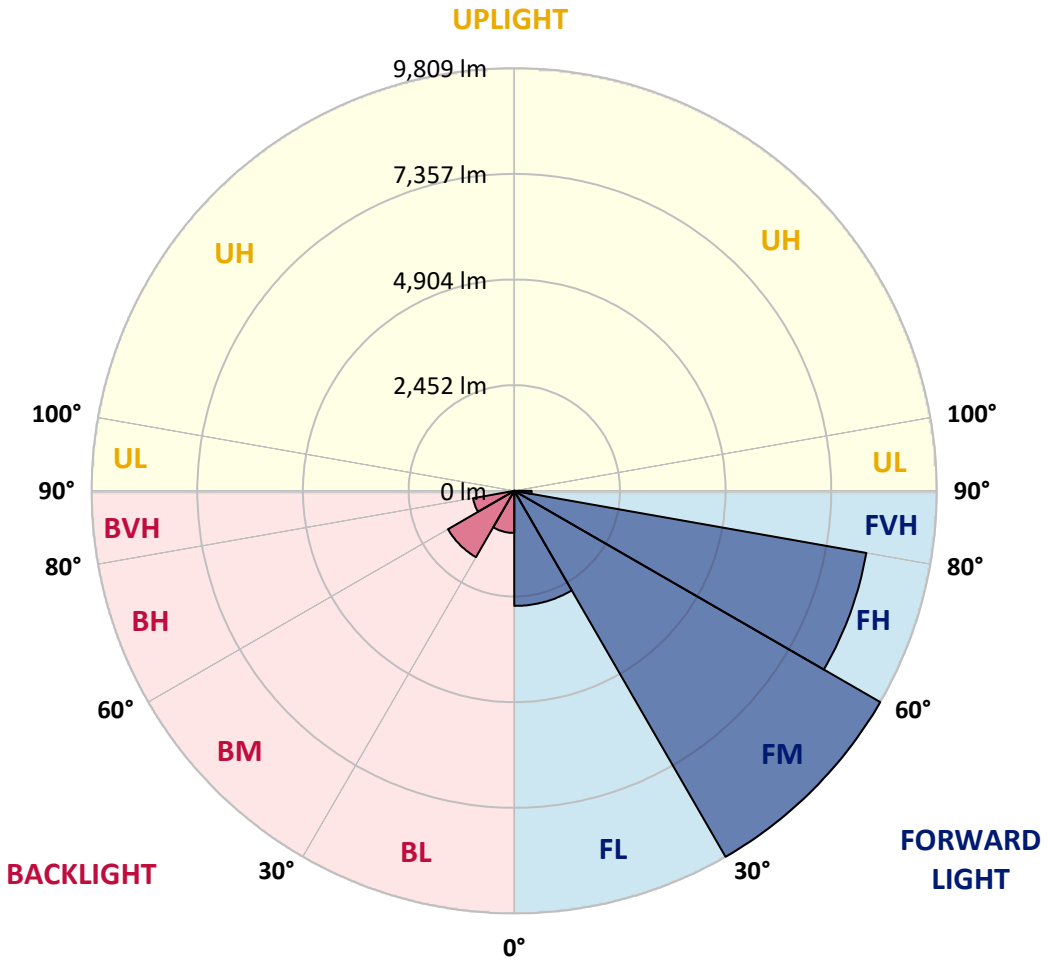
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2671.6	10.7			
FM	(30°-60°)	9808.9	39.4			
FH	(60°-80°)	8298.3	33.3			G4/12000
FVH	(80°-90°)	403.4	1.6			G3/500
BL	(0°-30°)	978.0	3.9	B2/1000		
BM	(30°-60°)	1777.8	7.1	B2/2500		
BH	(60°-80°)	971.4	3.9	B2/1000		G2/1000
BVH	(80°-90°)	12.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9	*8360.9*	8360.9
2.5°	9063.4	9077.5	9150.7	9320.7	9506.1	9520.2	9645.4	9516.7	9473.0	*9265.2*	9050.4
5°	9131.8	9186.1	9437.6	9937.0	10370.3	10509.6	10608.7	10356.1	10090.5	*9582.8*	9040.9
7.5°	8580.5	8671.4	9066.9	10004.3	10778.7	11121.1	11186.0	10790.5	10140.0	*9304.2*	8489.6
10°	7874.5	7978.4	8455.4	9607.6	10671.3	11258.1	11347.8	10829.5	9894.5	*8853.2*	7893.4
12.5°	7303.1	7424.7	7912.3	9161.3	10301.8	10951.1	11128.2	10698.5	9682.0	*8533.3*	7486.1
15°	7039.8	7179.1	7691.5	8873.3	9892.1	10403.3	10549.7	10364.4	9563.9	*8482.5*	7391.6
17.5°	7190.9	7342.1	7871.0	8898.1	9507.3	9725.7	9843.7	9919.3	9563.9	*8788.3*	7667.9
20°	7810.8	7973.7	8533.3	9149.5	9188.5	9107.0	9233.4	9499.0	9674.9	*9369.1*	8331.4
22.5°	8667.9	8859.1	9490.7	9580.4	9032.7	8724.5	8741.1	9157.8	9876.8	*10105.8*	9252.2
25°	9712.7	9946.4	10588.7	10222.7	9097.6	8496.7	8490.8	8876.8	10073.9	*10843.7*	10278.2
27.5°	10750.4	11007.8	11572.1	11006.6	9365.6	8455.4	8443.5	8791.8	10266.4	*11500.1*	11398.6
30°	11620.5	11870.8	12357.2	11574.5	9654.8	8552.2	8495.5	8882.7	10380.9	*11926.3*	12215.5
32.5°	12328.9	12529.6	12922.7	11965.2	9964.1	8739.9	8617.1	9125.9	10575.7	*12286.4*	12966.4
35°	13108.0	13319.4	13476.4	12337.1	10311.2	9010.2	8834.3	9512.0	10875.6	*12652.3*	13789.2
37.5°	13997.0	14207.2	14188.3	12677.1	10751.6	9457.7	9345.5	10123.5	11341.9	*13014.8*	14707.7
40°	14867.1	15082.0	14928.5	13049.0	11268.7	10195.5	10112.9	11042.0	11966.4	*13478.7*	15784.4
42.5°	15681.7	15914.3	15586.1	13400.8	11885.0	11125.8	11267.5	12225.0	12748.0	*14050.1*	16712.4
45°	16338.1	16575.4	16137.4	13743.2	12534.3	12254.5	12680.7	13535.4	13687.7	*14533.0*	17339.3
47.5°	16815.1	17039.4	16519.9	14085.6	13365.4	13634.6	14377.2	14909.6	14536.5	*14952.1*	17784.3
50°	17119.7	17294.4	16632.1	14514.1	14456.3	15244.9	16144.5	16404.2	15335.8	*15329.9*	18325.0
52.5°	17313.3	17392.4	16714.7	14961.6	15594.4	16998.1	17875.2	17956.7	16158.7	*15745.5*	19053.5
55°	17980.3	18044.1	17300.3	15503.4	16535.3	18534.0	19440.7	19365.1	17090.2	*16558.9*	19912.9
57.5°	19118.4	19185.7	18510.4	16282.6	17296.8	19483.2	20575.2	20711.0	18182.2	*17701.7*	20833.8
60°	19689.8	19814.9	19574.1	17269.6	18034.6	20090.0	21348.5	21781.8	19547.0	*19208.1*	21726.3
62.5°	19171.5	19353.3	19702.8	18364.0	18767.8	20424.1	21589.4	22165.5	20944.8	*20963.7*	22276.5
65°	18137.3	18282.5	18875.2	18963.7	19192.8	20382.8	20994.3	21629.5	21800.7	*22576.3*	22246.9
67.5°	*16888.3*	*16942.6*	*17445.5*	*19011.0*	*18576.5*	*19140.8*	*19206.9*	*19676.8*	*21124.2*	*23147.7*	*21353.2*
70°	15090.2	15119.8	15558.9	17430.2	15963.9	16087.8	15989.8	16085.5	18160.9	*21755.8*	19097.1
72.5°	12144.7	12219.1	12843.6	14475.2	11629.9	11272.2	12042.0	11999.5	13986.4	*18380.5*	14183.6
75°	8941.8	9070.4	10013.7	11659.5	8162.6	7383.4	7945.3	8095.3	9942.9	*14217.8*	8869.7
77.5°	6260.6	6356.3	7270.0	8571.0	5907.6	5279.6	5076.5	5254.8	6562.9	*10285.3*	4468.5
80°	3606.7	3642.1	4225.3	4949.0	3980.9	4554.7	4126.1	4248.9	3932.5	*4575.9*	1922.0
82.5°	2360.0	2365.9	2593.7	2945.6	2479.2	2880.6	2132.1	2726.0	2419.0	*1838.2*	625.7
85°	1275.0	1282.1	1504.1	2090.8	1403.7	793.4	466.3	957.5	1495.8	*421.5*	171.2
87.5°	140.5	128.7	453.3	760.3	389.6	72.0	24.8	107.4	239.7	*27.2*	0.0
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°	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9
2.5°	8940.6	8842.6	8598.2	8339.7	8131.9	7937.1	7741.1	7501.4	7316.1	7278.3	7216.9
5°	8749.3	8438.8	7926.4	7411.7	6997.3	6474.3	6142.6	5884.0	5631.4	5616.0	5565.3
7.5°	8081.1	7672.6	6951.3	6239.4	5656.2	5158.0	4655.0	4318.6	4054.1	3960.9	3905.4
10°	7438.9	6979.6	6078.8	5266.6	4746.0	4305.6	3951.4	3599.6	3280.8	3061.3	2962.1
12.5°	6990.2	6482.6	5489.7	4789.6	4416.6	3998.6	3566.5	3127.4	2760.2	2495.8	2334.0
15°	6816.7	6274.8	5292.6	4600.7	4140.3	3611.4	3058.9	2557.1	2149.8	1910.2	1765.0
17.5°	7023.3	6392.9	5277.2	4370.5	3727.1	3069.5	2459.2	1866.5	1482.8	1301.0	1207.7
20°	7547.5	6768.3	5271.3	4088.4	3236.0	2427.3	1665.8	1227.8	995.2	893.7	850.0
22.5°	8288.9	7247.6	5318.5	3809.7	2724.8	1734.3	1149.9	902.0	782.7	728.4	703.6
25°	9242.8	7920.5	5451.9	3557.1	2244.3	1293.9	896.1	755.6	671.8	629.3	611.5
27.5°	10259.3	8695.0	5659.7	3337.5	1853.5	1031.8	767.4	647.0	586.8	557.2	540.7
30°	11097.5	9592.3	5869.9	3093.1	1570.2	899.6	702.4	590.3	520.6	501.7	486.4
32.5°	11830.6	10271.1	6018.6	2872.4	1384.8	799.3	635.2	527.7	480.5	443.9	427.4
35°	12589.8	10836.6	6013.9	2717.7	1257.3	723.7	578.5	472.2	415.6	373.1	360.1
37.5°	13411.4	11475.3	5911.2	2585.5	1201.8	663.5	546.6	442.7	386.1	343.6	327.0
40°	14373.6	12145.9	5806.1	2461.5	1186.5	615.1	524.2	419.1	358.9	317.6	301.0
42.5°	15311.0	12750.3	5714.0	2369.4	1120.4	613.9	504.1	401.4	337.6	297.5	278.6
45°	16060.7	13313.5	5696.3	2313.9	1050.7	635.2	493.5	389.6	321.1	281.0	263.3
47.5°	16684.0	13925.0	5809.7	2275.0	984.6	579.7	519.5	381.3	305.8	266.8	246.7
50°	17425.4	14675.9	6076.5	2211.2	915.0	521.8	595.0	383.7	292.8	252.6	231.4
52.5°	18459.6	15714.8	6468.4	2103.8	819.3	468.7	585.6	386.1	278.6	237.3	216.0
55°	19619.0	17012.2	6889.9	1925.5	685.9	399.0	501.7	369.5	251.5	220.8	200.7
57.5°	20837.3	18189.3	7140.2	1713.0	545.4	344.7	401.4	336.5	222.0	198.3	185.4
60°	21028.6	18636.7	7025.7	1452.1	433.3	299.9	297.5	342.4	198.3	174.7	165.3
62.5°	20552.8	18074.8	6472.0	1219.5	362.4	263.3	244.4	298.7	179.4	155.8	146.4
65°	19637.9	16555.3	5574.7	1099.1	336.5	225.5	203.1	210.1	157.0	135.8	127.5
67.5°	*18365.2*	*14527.1*	*4577.1*	*1030.7*	*332.9*	*193.6*	*173.5*	*159.4*	*135.8*	*118.1*	*111.0*
70°	15763.2	12102.2	3651.6	992.9	323.5	162.9	146.4	129.9	113.3	100.3	94.4
72.5°	11601.6	8575.8	2840.5	951.6	325.8	129.9	127.5	107.4	90.9	77.9	75.6
75°	6703.4	4899.4	1863.0	770.9	310.5	100.3	106.3	75.6	63.8	54.3	54.3
77.5°	3572.5	2988.1	709.5	321.1	113.3	63.8	60.2	44.9	40.1	33.1	31.9
80°	1557.2	1315.2	213.7	89.7	62.6	34.2	22.4	20.1	17.7	14.2	13.0
82.5°	551.3	475.8	69.7	43.7	27.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	125.1	89.7	0.0	10.6	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	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9
2.5°	7091.8	7065.8	6912.3	6918.2	6945.4	6984.3	6892.3	6934.8	7049.3	7159.1	7200.4
5°	5483.8	5489.7	5396.5	5454.3	5506.2	5541.7	5392.9	5395.3	5486.2	5610.1	5675.1
7.5°	3864.1	3854.6	3859.3	3997.5	4095.5	4024.6	4080.1	3887.7	3899.5	3988.0	3921.9
10°	2872.4	2742.5	2669.3	2773.2	2880.6	2841.7	2746.0	2683.5	2727.2	2825.1	2818.1
12.5°	2257.3	2070.7	1961.0	1886.6	1975.1	1901.9	1899.6	1845.3	1786.2	1796.9	1953.9
15°	1697.7	1561.9	1432.0	1312.8	1310.4	1285.7	1159.3	1017.7	1005.9	1012.9	1094.4
17.5°	1167.6	1121.6	1068.4	965.7	938.6	834.7	711.9	655.2	626.9	639.9	667.0
20°	820.5	802.8	808.7	753.2	714.3	615.1	543.1	520.6	515.9	528.9	541.9
22.5°	680.0	648.1	644.6	619.8	580.8	508.8	469.9	456.9	451.0	462.8	472.2
25°	595.0	563.1	550.2	534.8	493.5	443.9	420.3	408.5	402.6	409.7	415.6
27.5°	524.2	494.7	482.9	472.2	432.1	396.7	377.8	367.2	362.4	364.8	370.7
30°	471.1	445.1	429.7	416.7	382.5	357.7	341.2	330.6	325.8	325.8	331.7
32.5°	415.6	401.4	387.2	370.7	338.8	322.3	305.8	294.0	289.2	290.4	295.1
35°	345.9	341.2	344.7	329.4	302.2	288.1	271.5	258.5	255.0	256.2	260.9
37.5°	307.0	285.7	298.7	290.4	275.1	256.2	234.9	223.1	217.2	220.8	223.1
40°	282.2	256.2	246.7	255.0	252.6	222.0	203.1	191.3	186.5	187.7	190.1
42.5°	260.9	230.2	209.0	207.8	222.0	193.6	173.5	162.9	157.0	157.0	159.4
45°	240.8	207.8	181.8	161.7	186.5	164.1	145.2	135.8	128.7	128.7	129.9
47.5°	225.5	188.9	158.2	132.2	140.5	134.6	119.2	109.8	102.7	102.7	103.9
50°	211.3	170.0	136.9	111.0	105.1	111.0	96.8	86.2	81.5	80.3	82.6
52.5°	196.0	151.1	116.9	94.4	82.6	83.8	75.6	68.5	62.6	62.6	64.9
55°	180.6	135.8	101.5	80.3	68.5	62.6	60.2	55.5	50.8	50.8	53.1
57.5°	165.3	119.2	86.2	66.1	54.3	49.6	49.6	46.0	42.5	42.5	44.9
60°	151.1	102.7	70.8	54.3	42.5	41.3	42.5	39.0	36.6	36.6	39.0
62.5°	134.6	87.4	57.8	44.9	34.2	33.1	36.6	34.2	31.9	31.9	34.2
65°	114.5	74.4	46.0	34.2	26.0	26.0	30.7	28.3	26.0	26.0	28.3
67.5°	*96.8*	*62.6*	*35.4*	*24.8*	*18.9*	*20.1*	*26.0*	*23.6*	*22.4*	*22.4*	*24.8*
70°	80.3	48.4	24.8	15.3	10.6	15.3	20.1	20.1	20.1	20.1	22.4
72.5°	60.2	33.1	14.2	5.9	4.7	10.6	16.5	18.9	17.7	17.7	21.3
75°	39.0	18.9	4.7	0.0	0.0	5.9	13.0	15.3	15.3	14.2	17.7
77.5°	22.4	5.9	0.0	0.0	0.0	0.0	8.3	7.1	5.9	4.7	8.3
80°	5.9	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	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	0.0

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

Scaled Data Report

REPORT NUMBER: P324330
CATALOG NUMBER: GLEON-SA6C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9	8360.9
2.5°	7366.9	7506.2	7702.1	7909.9	8229.9	8483.7	8732.8	8946.5	9029.1	9063.4
5°	5830.9	6035.2	6322.0	6690.4	7267.7	7787.1	8313.7	8843.8	9074.0	9131.8
7.5°	4184.0	4444.9	4809.7	5271.3	5947.8	6620.7	7356.2	8134.2	8490.8	8580.5
10°	3096.7	3415.4	3833.4	4319.8	4965.5	5657.4	6459.0	7348.0	7755.3	7874.5
12.5°	2197.1	2628.0	3187.6	3779.1	4338.7	4956.1	5767.2	6747.0	7174.4	7303.1
15°	1290.4	1707.1	2369.4	3161.6	3878.2	4503.9	5328.0	6438.9	6910.0	7039.8
17.5°	740.2	948.0	1448.6	2331.7	3304.5	4171.0	5189.9	6515.7	7070.5	7190.9
20°	565.5	631.6	834.7	1501.7	2633.9	3844.0	5189.9	6950.1	7633.7	7810.8
22.5°	494.7	543.1	625.7	896.1	1938.5	3493.4	5250.1	7578.2	8471.9	8667.9
25°	439.2	482.9	553.7	674.1	1322.3	3076.6	5392.9	8349.1	9458.8	9712.7
27.5°	393.1	434.5	498.2	590.3	904.3	2573.7	5585.3	9253.4	10547.3	10750.4
30°	351.8	390.8	448.6	513.6	697.7	2003.5	5749.5	10105.8	11402.1	11620.5
32.5°	312.9	348.3	400.2	448.6	571.4	1481.6	5767.2	10781.1	12111.6	12328.9
35°	276.3	308.1	355.4	393.1	473.4	1170.0	5492.1	11366.7	12821.2	13108.0
37.5°	240.8	271.5	312.9	341.2	416.7	953.9	5071.8	12019.5	13731.4	13997.0
40°	207.8	234.9	277.4	296.3	394.3	733.1	4614.9	12704.3	14623.9	14867.1
42.5°	177.1	203.1	244.4	281.0	345.9	547.8	4121.4	13346.5	15426.7	15681.7
45°	147.6	174.7	216.0	297.5	286.9	409.7	3593.7	13772.7	16060.7	16338.1
47.5°	119.2	149.9	206.6	283.3	229.0	301.0	3175.8	14176.5	16541.2	16815.1
50°	95.6	126.3	232.6	252.6	187.7	230.2	3001.0	14537.7	16856.4	17119.7
52.5°	77.9	106.3	219.6	193.6	157.0	190.1	3095.5	15123.3	17148.0	17313.3
55°	64.9	83.8	132.2	134.6	133.4	161.7	3212.4	15963.9	17902.4	17980.3
57.5°	56.7	67.3	92.1	103.9	112.2	144.0	3214.7	17170.4	19070.0	19118.4
60°	48.4	59.0	76.7	83.8	96.8	128.7	3097.9	17591.9	19529.2	19689.8
62.5°	42.5	51.9	63.8	69.7	81.5	115.7	2824.0	16981.5	18898.8	19171.5
65°	37.8	47.2	53.1	59.0	72.0	103.9	2373.0	15760.8	17852.8	18137.3
67.5°	*33.1*	*41.3*	*47.2*	*53.1*	*64.9*	*92.1*	*1747.3*	*14342.9*	*16652.2*	*16888.3*
70°	29.5	36.6	42.5	47.2	56.7	77.9	1060.2	12170.7	14992.3	15090.2
72.5°	28.3	33.1	39.0	42.5	49.6	68.5	537.2	8944.1	11985.3	12144.7
75°	24.8	29.5	35.4	37.8	43.7	59.0	218.4	5874.6	8685.6	8941.8
77.5°	20.1	27.2	31.9	34.2	37.8	48.4	111.0	3754.3	6095.4	6260.6
80°	7.1	20.1	27.2	28.3	31.9	35.4	73.2	2055.4	3535.9	3606.7
82.5°	0.0	13.0	21.3	20.1	22.4	27.2	47.2	977.5	2334.0	2360.0
85°	0.0	5.9	16.5	13.0	9.4	18.9	16.5	213.7	1224.3	1275.0
87.5°	0.0	0.0	1.2	5.9	4.7	7.1	2.4	1.2	111.0	140.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

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

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

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

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

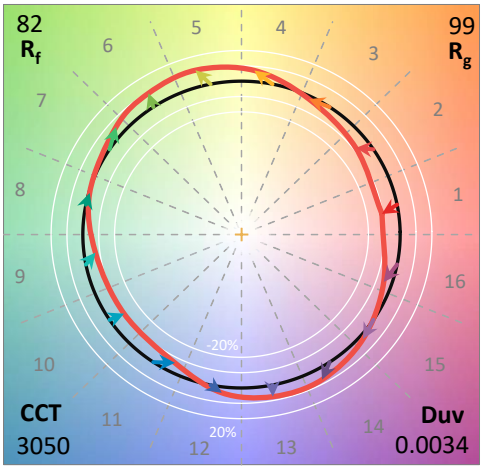
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2408-195-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/07/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**GALN-SB1A-830-U-5WQ**
Description:	GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K):	3050	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				
Rf:	81.5				
Rg:	99.2				



Test Conditions

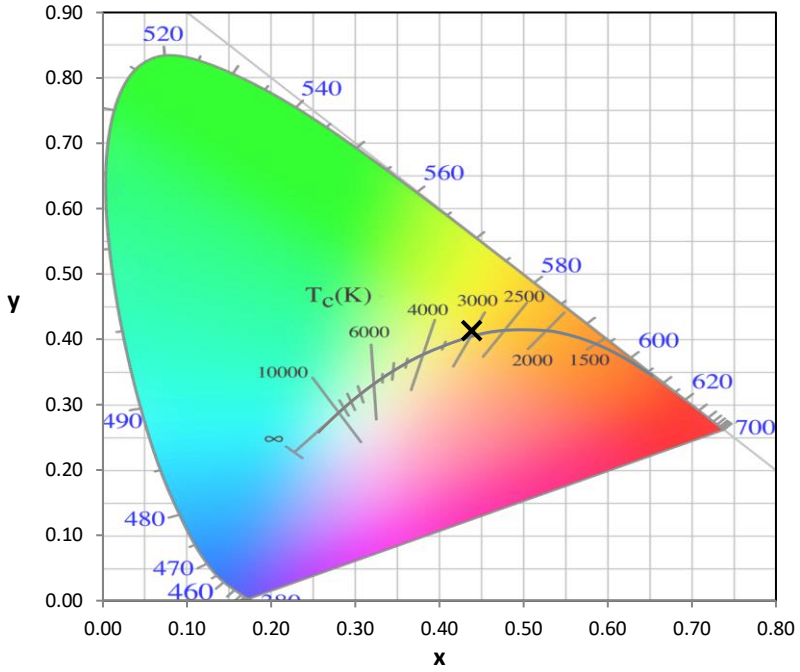
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

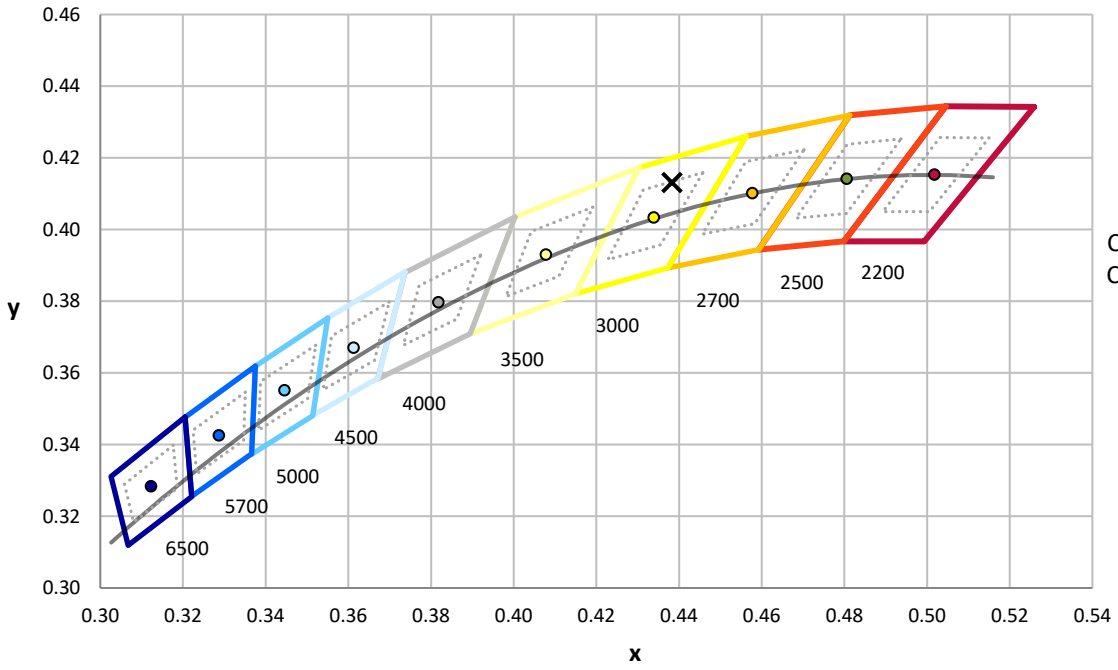
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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

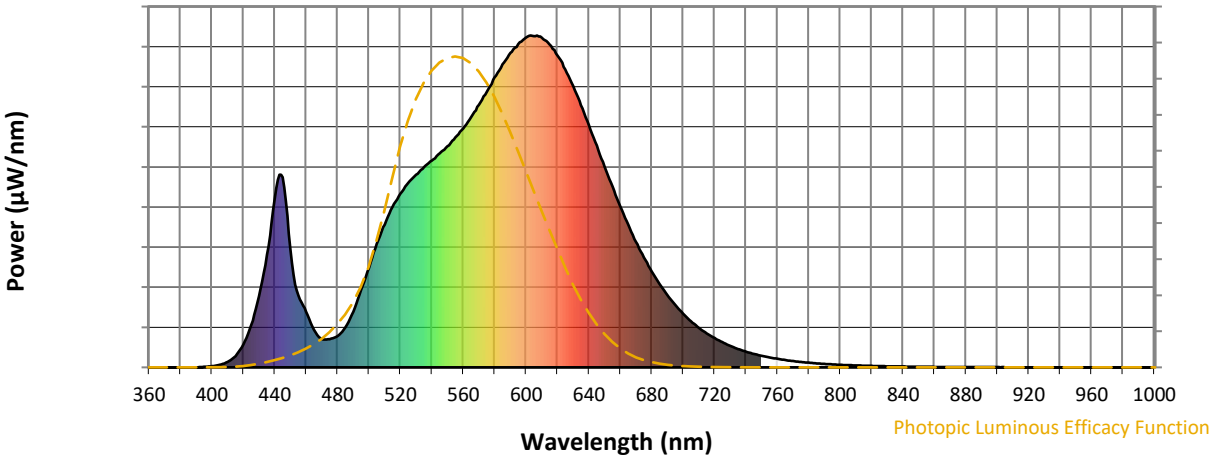


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

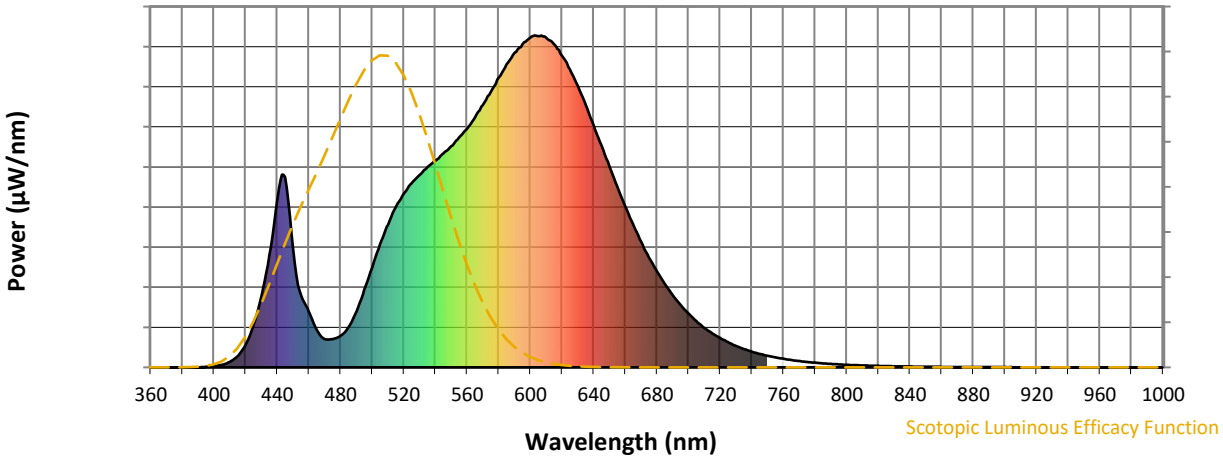


Photopic Lumens: NR

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

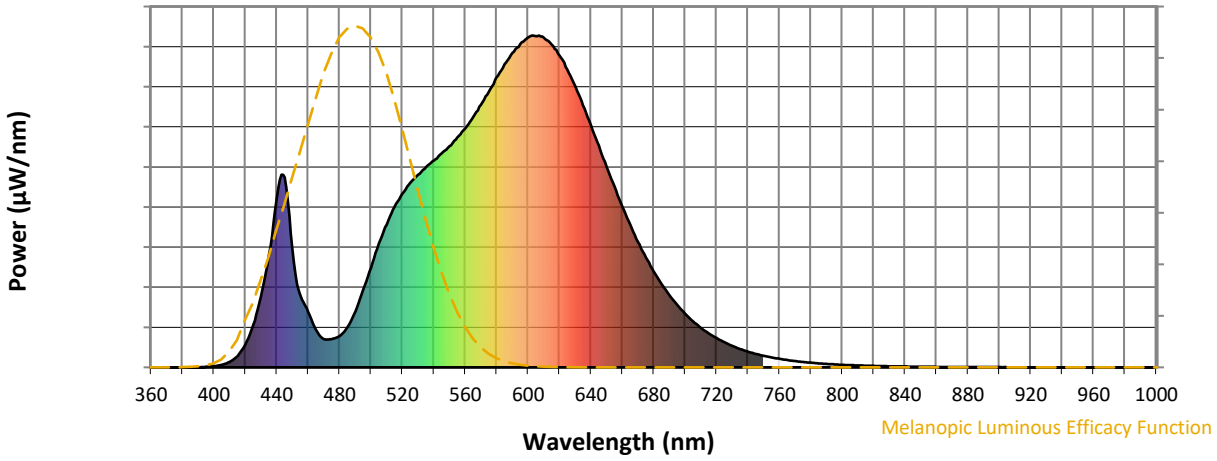


Scotopic Lumens: NR **S/P: 1.27**

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

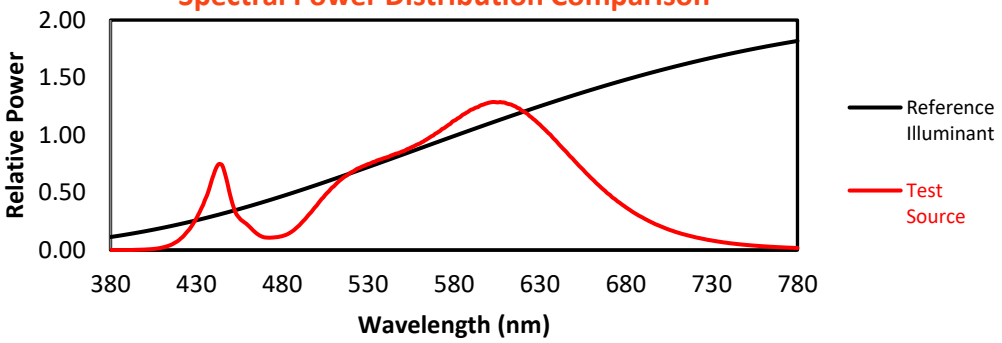
REPORT NUMBER: SP1-2408-195-9

TM-30-18

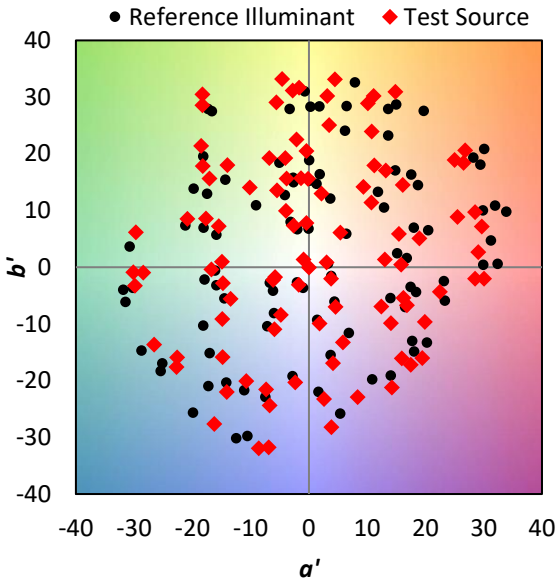
Summary

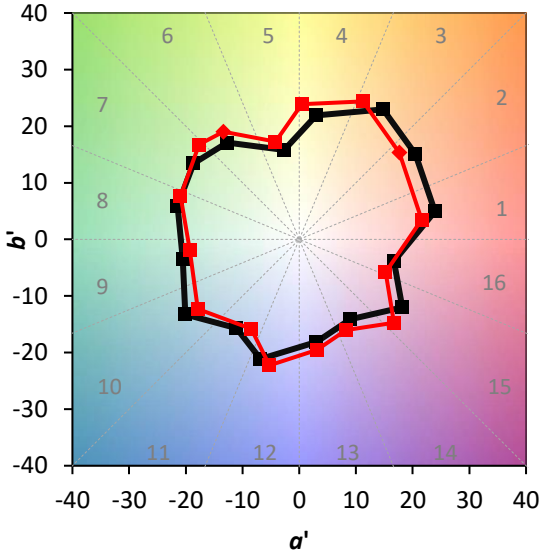
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

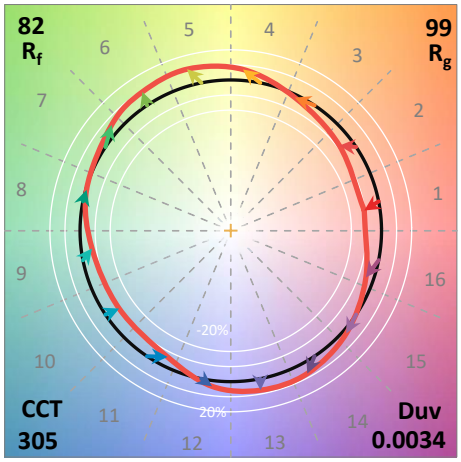
Spectral Power Distribution Comparison

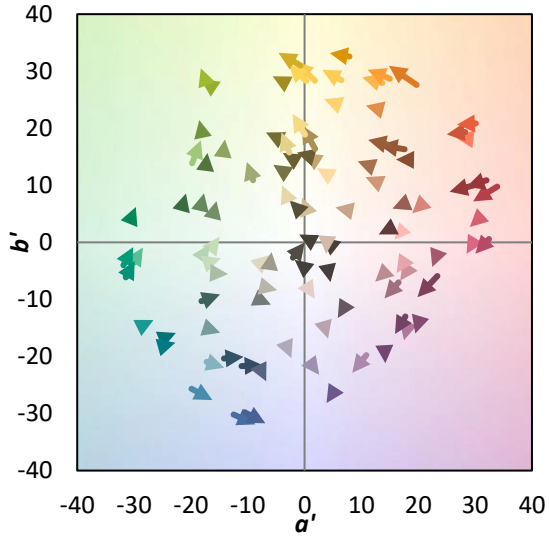


Color Vector Graphics









REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	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 = 94
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 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
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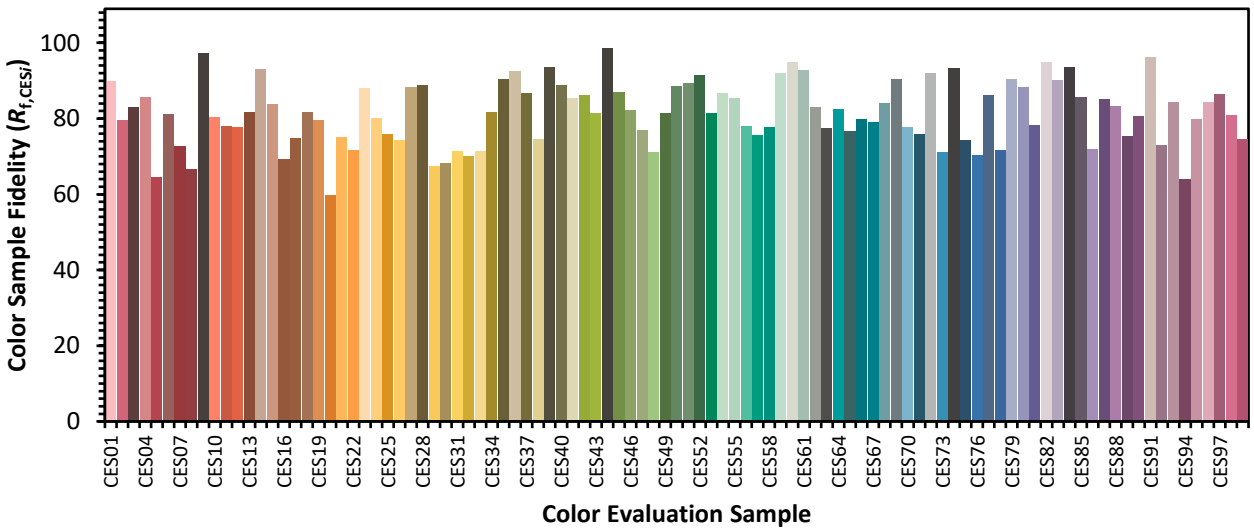

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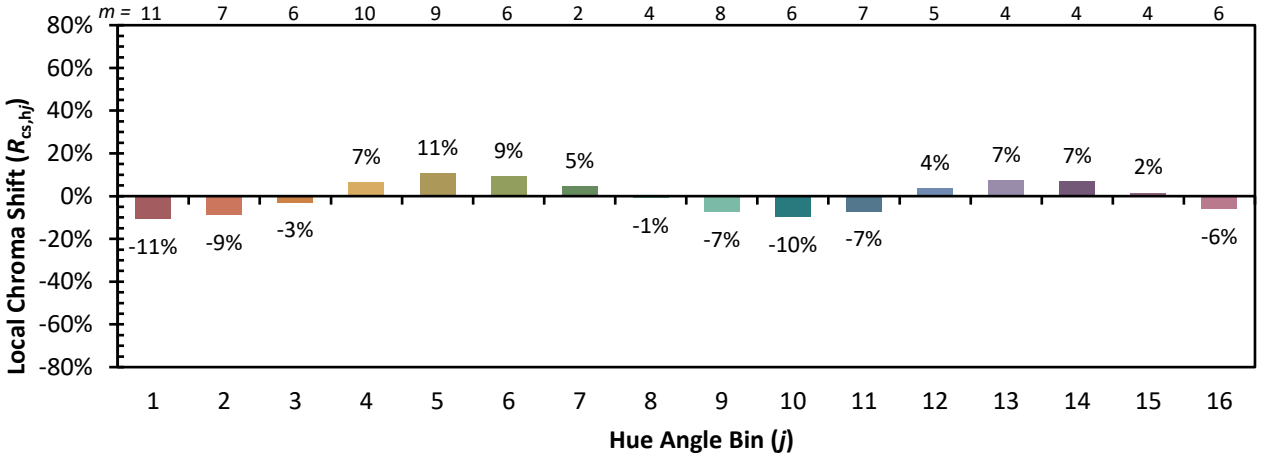
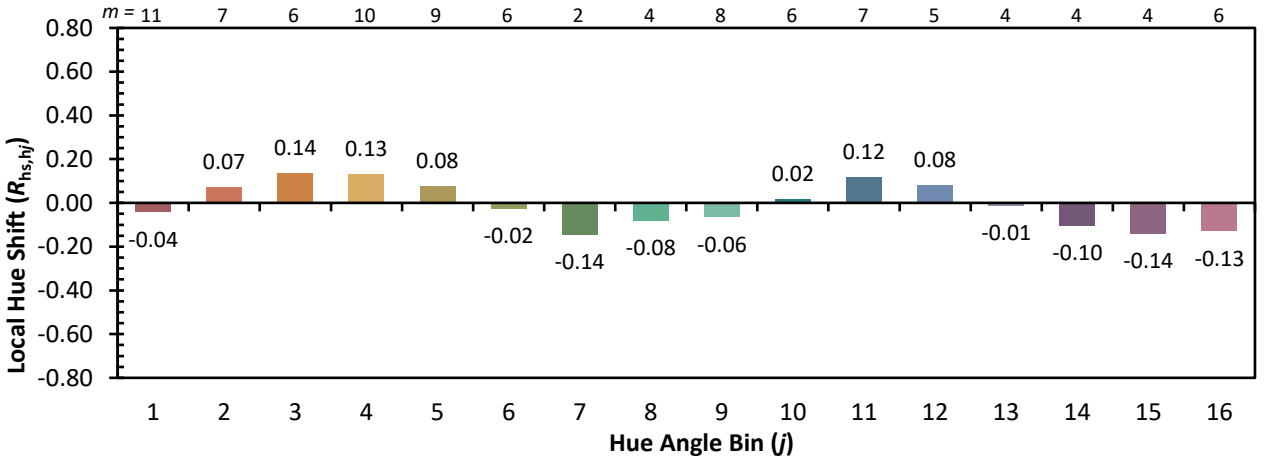
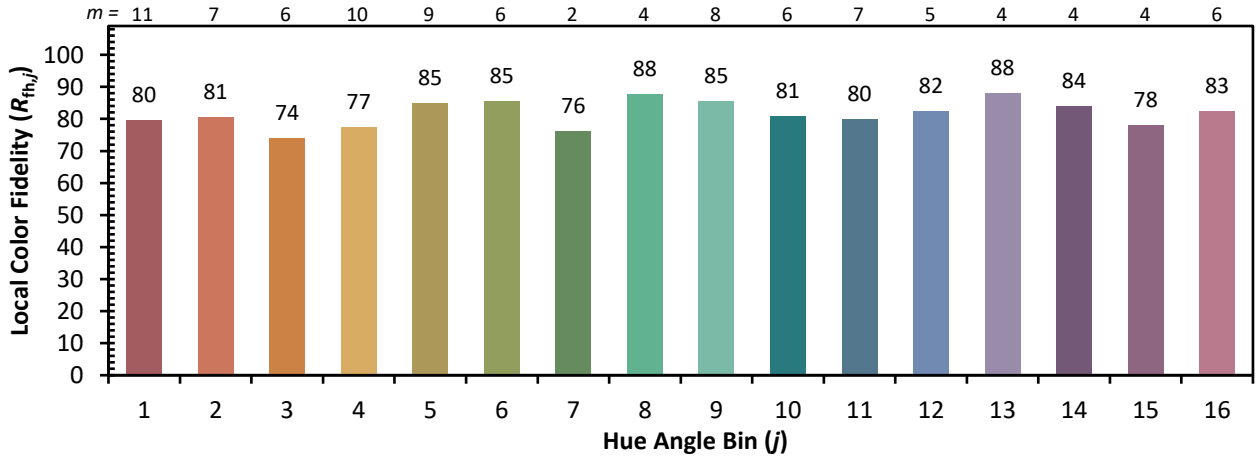
Color Rendition by Hue-Angle Bin







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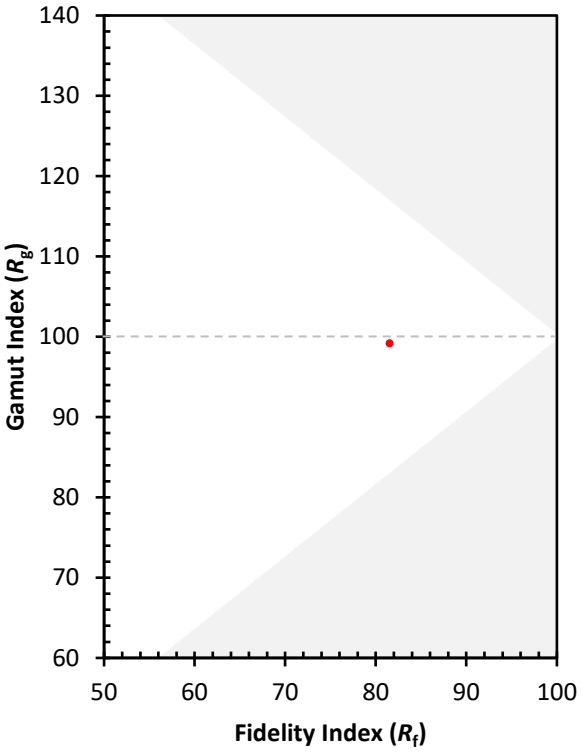
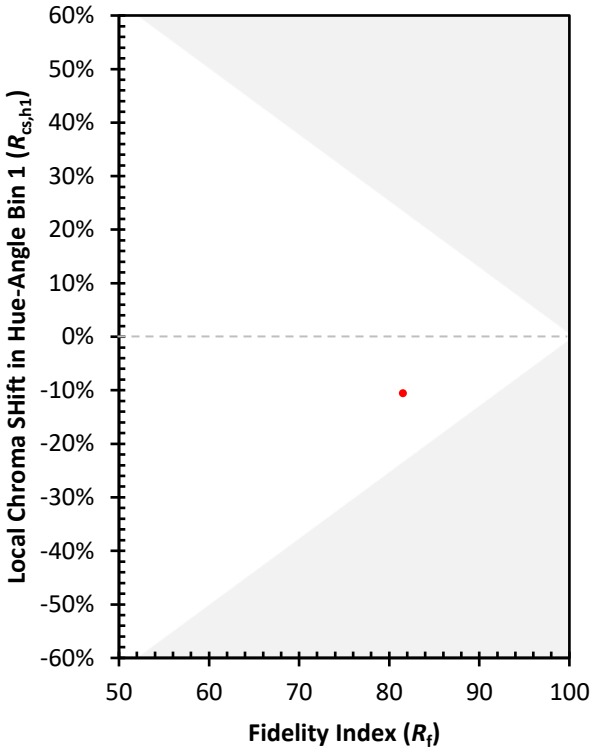
Measure Comparisons





(END OF REPORT)