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: P324650

Luminaire Tested: **GLEON-SA6C-830-U-SLR-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:	P324650
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
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-SLR-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	24919 lumens
Efficiency:	N/A
Efficacy:	74.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - 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: P324650
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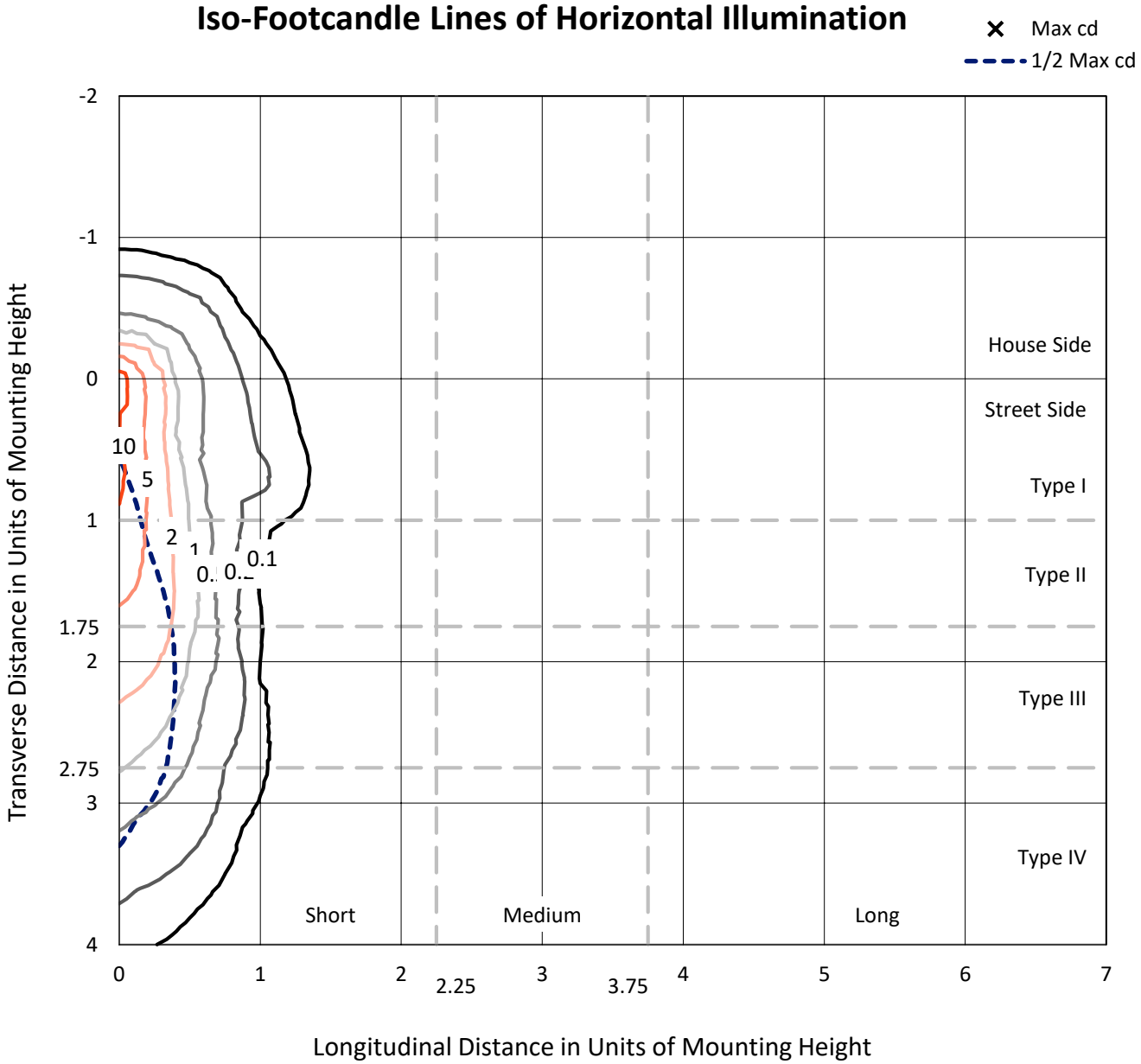
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 13 fc
Type IV - Medium - N/A

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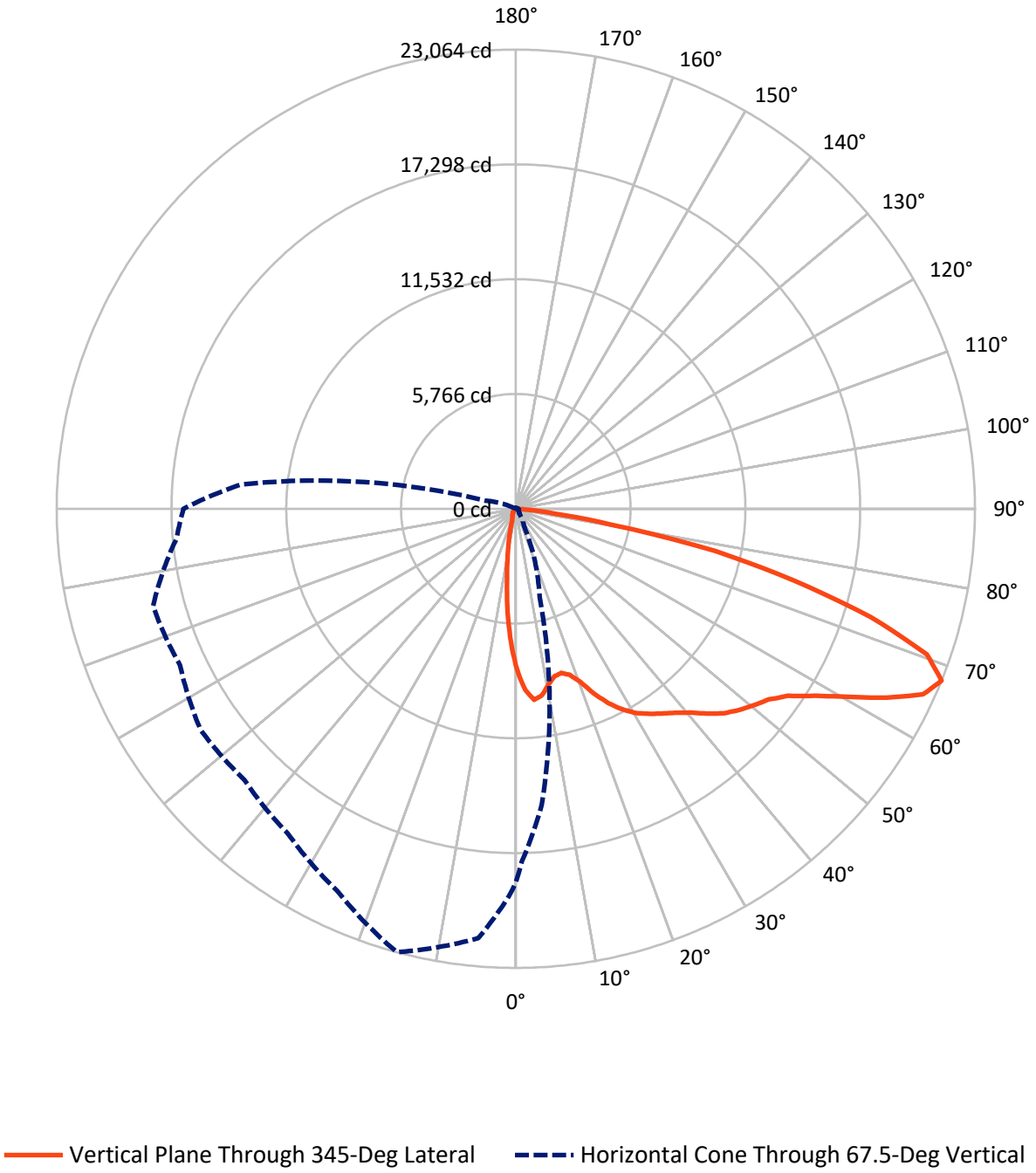
Luminous Intensity Polar Plot



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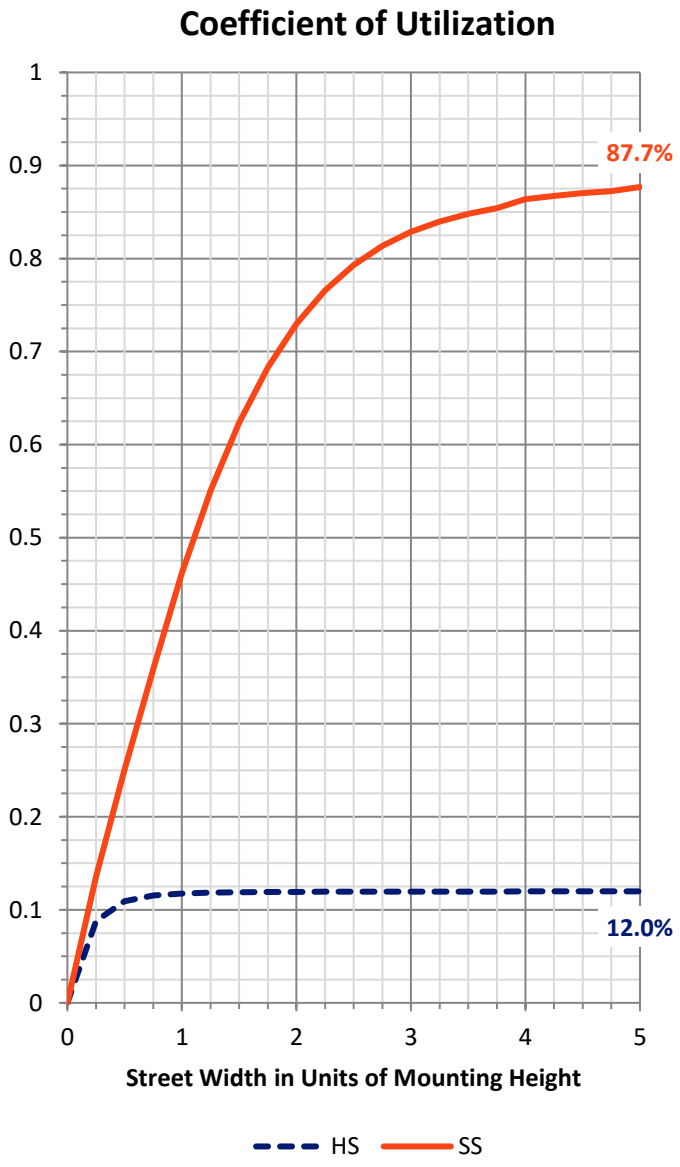
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3016.0	0.0	3016.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	21903.0	0.0	21903.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	24919.0	0.0	24919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.0	2.5
10°-20°	1240.1	5.0
20°-30°	1760.9	7.1
30°-40°	2600.9	10.4
40°-50°	3751.1	15.1
50°-60°	5265.8	21.1
60°-70°	6138.4	24.6
70°-80°	3138.1	12.6
80°-90°	400.8	1.6
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°	24919.0	100.0
0°-180°	24919.0	100.0



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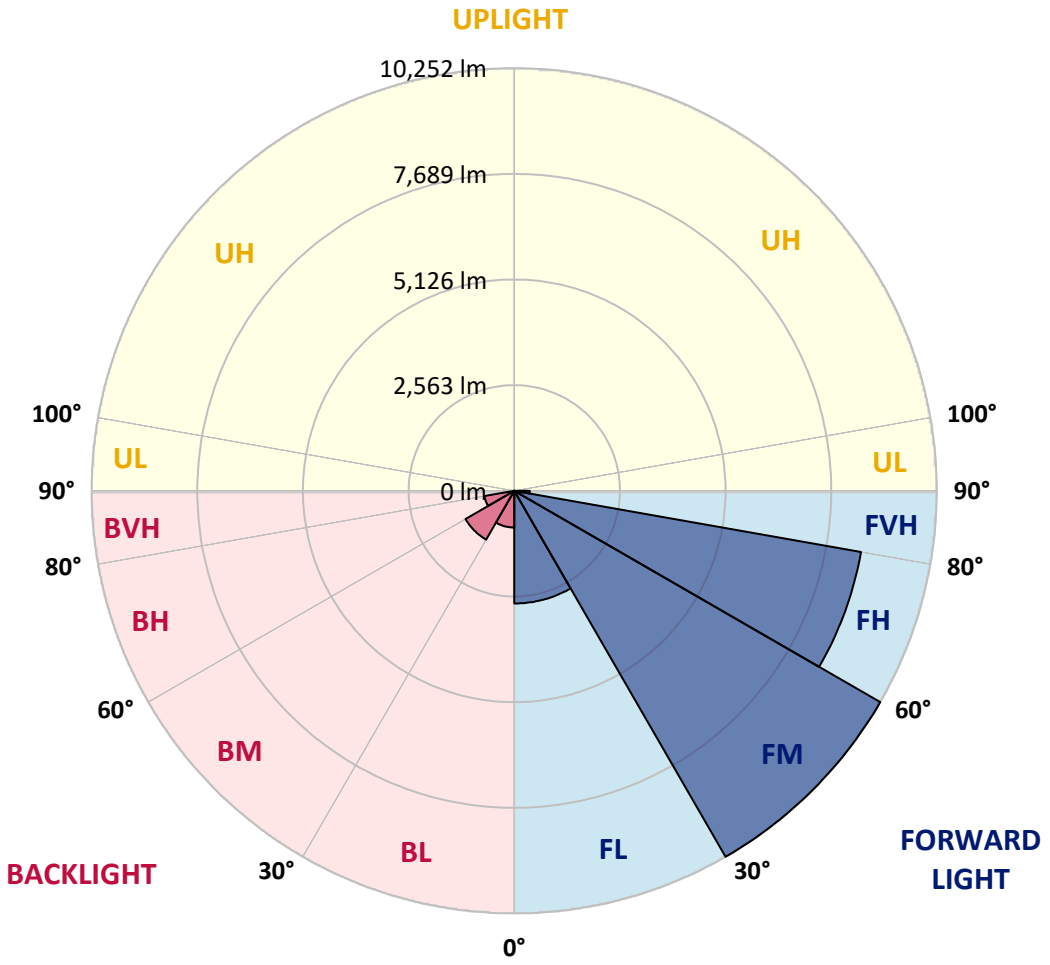
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2733.1	11.0			
FM	(30°-60°)	10252.1	41.1			
FH	(60°-80°)	8541.4	34.3			G4/12000
FVH	(80°-90°)	376.4	1.5			G3/500
BL	(0°-30°)	890.8	3.6	B2/1000		
BM	(30°-60°)	1365.7	5.5	B2/2500		
BH	(60°-80°)	735.1	2.9	B2/1000		G2/1000
BVH	(80°-90°)	24.4	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3
2.5°	8888.2	8819.7	8744.2	8497.4	8268.4	8006.3	7792.7	7643.9	7457.4	7215.4	7154.0
5°	8824.5	8751.3	8514.0	7965.0	7484.6	7017.1	6566.1	6301.7	5973.5	5640.6	5557.9
7.5°	8183.4	8106.7	7764.3	7012.3	6365.4	5690.2	5104.6	4742.2	4371.5	4066.9	3905.2
10°	7516.4	7432.6	7047.8	6135.2	5338.4	4728.0	4298.3	3952.4	3601.8	3276.0	3016.3
12.5°	7057.2	6947.4	6529.5	5495.4	4801.2	4386.8	3985.5	3571.1	3096.5	2747.1	2461.4
15°	6864.8	6739.6	6298.1	5248.6	4611.1	4124.8	3601.8	3093.0	2537.0	2136.8	1874.7
17.5°	7013.5	6850.6	6377.2	5232.1	4372.7	3710.4	3049.3	2452.0	1848.7	1443.8	1257.3
20°	7518.8	7305.1	6704.2	5227.4	4083.5	3218.1	2379.9	1704.7	1218.3	979.8	881.9
22.5°	8314.5	8032.3	7174.1	5265.2	3784.8	2701.1	1718.9	1158.1	914.9	791.0	733.1
25°	9275.4	8948.4	7850.5	5398.6	3522.7	2198.1	1249.0	914.9	772.1	681.2	632.8
27.5°	10189.1	9923.5	8705.2	5591.0	3319.6	1792.0	1014.1	775.6	659.9	599.7	560.8
30°	11101.7	10767.6	9582.4	5820.0	3075.3	1517.0	891.3	707.1	591.4	527.7	502.9
32.5°	11765.2	11487.7	10269.4	5985.3	2814.4	1337.5	796.9	646.9	552.5	487.6	451.0
35°	12545.5	12231.5	10858.5	6021.9	2646.7	1224.2	716.6	582.0	479.3	421.4	382.5
37.5°	13388.4	12997.6	11538.5	5941.6	2515.7	1168.7	656.4	552.5	447.4	388.4	347.1
40°	14321.0	13879.5	12191.3	5825.9	2387.0	1149.8	610.3	530.1	422.6	362.4	319.9
42.5°	15303.2	14782.6	12756.8	5704.3	2305.6	1084.9	605.6	507.6	403.7	338.8	296.3
45°	16128.4	15600.7	13337.6	5664.2	2247.7	1014.1	625.7	492.3	390.8	319.9	278.6
47.5°	16785.9	16286.6	13932.6	5753.9	2214.7	949.1	570.2	512.3	383.7	303.4	263.3
50°	17571.0	17005.5	14770.8	6021.9	2166.3	884.2	515.9	586.7	383.7	292.8	250.3
52.5°	18555.6	17996.0	15705.8	6437.4	2069.5	794.5	463.9	587.9	387.2	278.6	233.7
55°	19793.9	19387.8	17040.9	6893.1	1914.8	662.3	401.4	505.3	373.0	252.6	218.4
57.5°	20981.5	20649.8	18258.1	7204.8	1708.2	517.1	349.4	407.3	341.2	221.9	194.8
59°	21306.2	20943.8	18704.3	7218.9	1553.6	451.0	323.5	336.5	334.1	207.8	180.6
60°	21306.2	20921.3	18833.0	7143.4	1441.4	414.4	306.9	299.9	348.3	198.3	172.4
62.5°	20920.2	20379.5	18415.1	6632.2	1175.8	353.0	268.0	247.9	312.8	178.3	152.3
65°	20117.4	19330.0	16991.4	5707.9	1048.3	323.5	231.4	203.1	217.2	157.0	133.4
67.5°	*18778.7*	*17711.5*	*14938.4*	*4611.1*	*997.5*	*315.2*	*199.5*	*172.4*	*164.1*	*134.6*	*116.9*
70°	16421.2	15237.1	12446.3	3625.4	953.9	311.7	167.6	145.2	132.2	113.3	99.2
72.5°	11951.7	10716.8	8836.3	2834.5	927.9	318.7	134.6	121.6	108.6	88.5	76.7
75°	6836.4	6027.8	4966.5	1872.3	791.0	304.6	103.9	101.5	77.9	63.7	53.1
77.5°	3532.1	3424.7	2976.1	718.9	378.9	133.4	68.5	59.0	46.0	39.0	31.9
80°	1524.1	1507.5	1304.5	207.8	100.3	74.4	39.0	24.8	21.2	16.5	13.0
82.5°	526.5	526.5	463.9	69.7	44.9	36.6	4.7	0.0	0.0	0.0	0.0
85°	106.2	119.2	83.8	0.0	15.3	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3
2.5°	7079.6	6936.8	6927.3	6837.6	6725.5	6674.7	6645.2	6697.1	6760.9	6768.0	6863.6
5°	5495.4	5345.4	5408.0	5248.6	5280.5	5248.6	5196.7	5206.1	5234.5	5145.9	5255.7
7.5°	3859.1	3745.8	3817.8	3775.3	3832.0	3854.4	3822.6	3775.3	3636.0	3619.5	3715.1
10°	2908.8	2780.1	2703.4	2623.1	2640.8	2677.4	2665.6	2631.4	2542.9	2547.6	2639.7
12.5°	2337.4	2193.4	2041.1	1844.0	1795.6	1822.7	1795.6	1775.5	1690.5	1697.6	1779.1
15°	1773.2	1655.1	1495.7	1337.5	1251.4	1259.6	1184.1	1130.9	1077.8	1014.1	1063.7
17.5°	1197.1	1125.0	1077.8	1030.6	927.9	904.3	808.7	706.0	665.8	636.3	657.6
20°	847.6	808.7	789.8	787.4	728.4	698.9	605.6	541.9	521.8	515.9	528.9
22.5°	708.3	680.0	652.8	637.5	608.0	573.7	502.9	471.0	456.9	449.8	459.2
25°	616.2	595.0	566.7	540.7	528.9	492.3	441.5	417.9	408.5	401.4	406.1
27.5°	547.8	528.9	495.8	479.3	469.9	438.0	394.3	375.4	367.1	364.8	363.6
30°	493.5	475.8	445.1	426.2	409.6	381.3	355.3	336.5	328.2	325.8	323.5
32.5°	439.2	425.0	404.9	386.0	368.3	342.4	319.9	304.6	291.6	289.2	288.0
35°	370.7	356.5	345.9	344.7	328.2	303.4	286.9	266.8	256.2	252.6	253.8
37.5°	329.4	310.5	286.9	295.1	290.4	272.7	250.3	230.2	219.6	217.2	217.2
40°	303.4	283.3	256.2	242.0	256.2	252.6	217.2	197.1	186.5	185.3	183.0
42.5°	278.6	258.5	227.8	204.2	211.3	221.9	187.7	168.8	158.2	155.8	152.3
45°	260.9	239.6	205.4	178.3	164.1	186.5	160.6	136.9	131.0	126.3	124.0
47.5°	244.4	224.3	185.3	154.6	131.0	134.6	128.7	112.2	105.1	100.3	99.2
50°	230.2	209.0	167.6	132.2	108.6	99.2	103.9	88.5	82.6	77.9	75.6
52.5°	213.7	193.6	148.7	114.5	90.9	77.9	79.1	69.7	63.7	60.2	59.0
55°	200.7	180.6	133.4	100.3	80.3	63.7	56.7	54.3	50.8	48.4	47.2
57.5°	183.0	164.1	118.1	85.0	68.5	51.9	43.7	43.7	42.5	40.1	39.0
59°	172.4	155.8	108.6	76.7	62.6	44.9	39.0	40.1	39.0	36.6	35.4
60°	164.1	148.7	101.5	70.8	59.0	41.3	35.4	37.8	36.6	34.2	33.1
62.5°	145.2	134.6	87.4	59.0	51.9	33.1	29.5	31.9	31.9	30.7	29.5
65°	127.5	115.7	74.4	49.6	48.4	28.3	23.6	28.3	29.5	27.2	24.8
67.5°	*111.0*	*99.2*	*64.9*	*40.1*	*44.9*	*22.4*	*17.7*	*23.6*	*31.9*	*24.8*	*22.4*
70°	94.4	82.6	50.8	31.9	47.2	15.3	14.2	21.2	37.8	27.2	21.2
72.5°	73.2	63.7	35.4	23.6	50.8	10.6	10.6	17.7	42.5	29.5	20.1
75°	50.8	41.3	21.2	14.2	41.3	7.1	7.1	16.5	40.1	27.2	18.9
77.5°	29.5	22.4	7.1	1.2	21.2	0.0	1.2	11.8	28.3	16.5	8.3
80°	10.6	4.7	0.0	0.0	13.0	0.0	0.0	0.0	2.4	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3
2.5°	6888.4	7047.8	7190.6	7406.6	7662.8	7957.9	8211.8	8484.5	8740.6	8846.9	8920.1
5°	5278.1	5475.3	5705.5	6023.1	6445.7	6966.3	7453.9	8005.2	8597.8	8894.1	9172.7
7.5°	3731.7	3932.3	4218.0	4555.7	5066.8	5686.6	6324.1	7085.5	7888.3	8357.0	8818.6
10°	2683.3	2930.1	3196.9	3658.5	4177.9	4765.8	5422.2	6272.2	7167.0	7686.4	8242.5
12.5°	1826.3	2107.2	2511.0	3028.1	3638.4	4214.5	4784.7	5595.7	6634.6	7149.3	7745.5
15°	1095.5	1251.4	1678.7	2277.2	3025.7	3743.5	4368.0	5181.3	6288.7	6919.1	7538.9
17.5°	675.3	747.3	979.8	1470.9	2257.2	3165.0	4020.9	5040.9	6338.3	7105.6	7769.1
20°	538.3	566.7	641.0	868.9	1495.7	2527.5	3630.1	5012.5	6743.2	7687.6	8399.5
22.5°	467.5	494.6	544.2	631.6	940.9	1892.4	3259.4	5038.5	7324.0	8560.0	9391.1
25°	412.0	435.6	482.8	554.8	689.4	1332.8	2862.8	5154.2	8080.7	9642.6	10525.6
27.5°	368.3	388.4	432.1	498.2	591.4	930.3	2413.0	5294.7	8977.9	10749.9	11621.1
30°	328.2	345.9	384.9	446.2	513.5	715.4	1919.5	5390.3	9876.3	11621.1	12403.8
32.5°	294.0	306.9	342.4	394.3	446.2	570.2	1459.1	5374.9	10543.3	12346.0	12966.9
35°	258.5	271.5	302.2	347.1	388.4	471.0	1147.5	5088.1	11124.1	13098.0	13611.5
37.5°	219.6	236.1	265.6	305.8	334.1	414.4	927.9	4742.2	11713.2	13957.4	14330.4
40°	186.5	203.1	229.0	272.7	290.4	393.1	713.0	4320.7	12375.5	14918.3	15119.0
42.5°	154.6	170.0	197.1	234.9	273.9	338.8	527.7	3839.1	13011.8	15740.0	15838.0
45°	125.1	140.5	168.8	206.6	292.8	281.0	408.5	3323.2	13525.3	16423.5	16455.4
47.5°	99.2	113.3	142.8	194.8	272.7	224.3	291.6	2918.3	13956.2	16957.1	16873.3
50°	76.7	88.5	119.2	223.1	238.5	185.3	220.8	2783.7	14342.2	17287.7	17070.5
52.5°	60.2	70.8	98.0	209.0	185.3	153.5	185.3	2910.0	14871.1	17561.6	17181.4
55°	48.4	59.0	76.7	119.2	126.3	129.9	158.2	3028.1	15783.7	18203.8	17836.6
57.5°	40.1	50.8	62.6	83.8	95.6	109.8	140.5	3041.0	16859.1	19271.0	18923.9
59°	36.6	46.0	56.7	74.4	83.8	100.3	132.2	2970.2	17238.1	19659.4	19485.8
60°	34.2	43.7	53.1	68.5	77.9	94.4	127.5	2902.9	17254.6	19645.2	19725.5
62.5°	29.5	39.0	47.2	57.8	66.1	80.3	114.5	2653.8	16555.7	19001.8	19581.4
65°	26.0	34.2	42.5	49.6	56.7	72.0	103.9	2199.3	15362.2	17964.1	18595.7
67.5°	*23.6*	*29.5*	*39.0*	*43.7*	*50.8*	*63.7*	*92.1*	*1567.7*	*13871.2*	*16695.0*	*17104.7*
70°	21.2	28.3	35.4	40.1	46.0	55.5	79.1	900.7	11713.2	14836.9	15128.5
72.5°	20.1	27.2	31.9	37.8	41.3	49.6	72.0	423.8	8576.5	11885.6	12647.0
75°	17.7	24.8	29.5	35.4	39.0	44.9	61.4	203.1	5704.3	8601.3	9466.7
77.5°	10.6	20.1	27.2	31.9	34.2	39.0	50.8	116.9	3640.8	5953.4	7012.3
80°	0.0	7.1	20.1	27.2	29.5	33.1	39.0	92.1	1947.9	3401.1	4082.3
82.5°	0.0	0.0	14.2	21.2	20.1	22.4	29.5	57.8	878.3	2222.9	2505.1
85°	0.0	0.0	4.7	16.5	14.2	10.6	20.1	20.1	192.4	1125.0	1403.6
87.5°	0.0	0.0	0.0	1.2	7.1	4.7	8.3	2.4	1.2	83.8	340.0
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: P324650
CATALOG NUMBER: GLEON-SA6C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8117.3	8117.3	8117.3	8117.3	8117.3	8117.3	*8117.3*	8117.3	8117.3	8117.3
2.5°	9176.3	9263.6	9411.2	9480.8	9446.6	9301.4	*9127.9*	8950.8	8846.9	8888.2
5°	9740.5	10190.3	10450.0	10536.2	10392.2	10066.4	*9640.2*	9078.3	8878.8	8824.5
7.5°	9740.5	10587.0	11122.9	11217.4	10896.3	10257.6	*9458.4*	8581.3	8289.7	8183.4
10°	9398.2	10550.4	11297.7	11447.6	10999.0	10043.9	*8973.2*	7972.1	7626.2	7516.4
12.5°	9012.2	10252.9	11040.3	11246.9	10878.6	9831.4	*8636.8*	7560.1	7152.8	7057.2
15°	8774.9	9886.9	10538.6	10688.5	10532.7	9707.5	*8556.5*	7436.2	6956.9	6864.8
17.5°	8859.9	9603.6	9838.5	9925.9	10031.0	9663.8	*8774.9*	7707.7	7100.9	7013.5
20°	9179.8	9304.9	9183.3	9293.1	9576.5	9706.3	*9295.5*	8364.0	7635.7	7518.8
22.5°	9722.8	9150.3	8809.1	8852.8	9197.5	9846.8	*10091.2*	9301.4	8460.9	8314.5
25°	10355.6	9275.4	8601.3	8562.4	8916.5	10032.1	*10818.4*	10321.4	9437.1	9275.4
27.5°	11151.3	9556.4	8558.8	8519.9	8818.6	10205.7	*11422.8*	11329.5	10465.4	10189.1
30°	11765.2	9832.6	8685.2	8595.4	8916.5	10326.1	*11908.0*	12185.4	11284.7	11101.7
32.5°	12205.5	10158.5	8890.6	8760.7	9192.8	10533.9	*12282.2*	12969.3	12042.6	11765.2
35°	12540.8	10512.6	9222.3	9008.6	9572.9	10849.1	*12632.8*	13803.9	12848.9	12545.5
37.5°	12854.8	11009.6	9740.5	9485.6	10169.1	11356.7	*13003.5*	14750.7	13750.8	13388.4
40°	13292.8	11572.7	10539.8	10313.1	11171.3	12048.5	*13466.3*	15737.6	14776.7	14321.0
42.5°	13730.7	12177.2	11357.9	11419.3	12421.5	12889.0	*14063.6*	16781.2	15789.6	15303.2
45°	14130.9	12800.5	12523.1	12806.4	13582.0	13811.0	*14657.4*	17384.5	16598.2	16128.4
47.5°	14487.5	13579.6	13681.2	14435.5	14901.8	14645.6	*15101.3*	17905.1	17200.3	16785.9
50°	14901.8	14587.8	15207.6	16274.8	16421.2	15401.2	*15505.1*	18521.3	17903.9	17571.0
52.5°	15355.1	15650.3	16898.1	17839.0	17791.8	16221.7	*15911.2*	19211.9	18868.4	18555.6
55°	15869.9	16508.5	18386.7	19302.8	19262.7	17137.7	*16584.1*	20065.5	20077.3	19793.9
57.5°	16633.7	17247.5	19397.3	20486.9	20554.2	18195.5	*17724.5*	21021.7	21170.4	20981.5
59°	17181.4	17726.8	19797.5	20981.5	21255.4	19013.6	*18557.9*	21576.5	21478.5	21306.2
60°	17587.5	18031.4	19995.8	21240.1	21662.7	19568.5	*19173.0*	21902.4	21515.1	21306.2
62.5°	18592.2	18694.9	20353.5	21532.9	22131.4	20800.9	*20903.6*	22457.2	21261.3	20920.2
65°	19060.8	19113.9	20348.8	21008.7	21678.1	21760.7	*22473.7*	22473.7	20641.6	20117.4
67.5°	*18864.9*	*18608.7*	*19339.4*	*19271.0*	*19939.1*	*21190.5*	*23064.0*	*21649.7*	*19456.3*	*18778.7*
70°	17271.1	16285.4	15960.8	15990.3	16501.4	18431.6	*21895.3*	19224.9	17213.3	16421.2
72.5°	14370.6	12006.0	11204.4	12119.3	12252.7	14165.2	*18659.4*	14478.0	12694.2	11951.7
75°	11558.6	8463.2	7159.9	8125.6	8352.2	10366.2	*14434.3*	9016.9	7414.9	6836.4
77.5°	8303.8	6075.0	5137.7	5070.4	5363.1	6574.4	*10242.3*	4538.0	3784.8	3532.1
80°	4717.4	3998.5	4305.4	4062.2	4209.8	4110.6	*4866.1*	1990.4	1630.3	1524.1
82.5°	2847.4	2363.4	2559.4	2130.9	2696.3	2348.1	*1874.7*	637.5	553.7	526.5
85°	1852.3	1291.5	672.9	451.0	929.1	1500.5	*419.1*	173.5	133.4	106.2
87.5°	638.7	329.4	33.1	14.2	99.2	279.8	*15.3*	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

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.

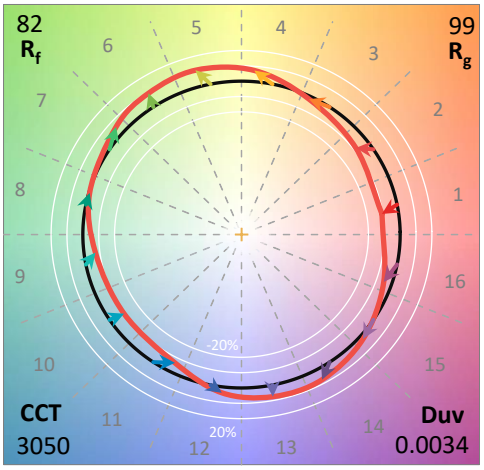
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

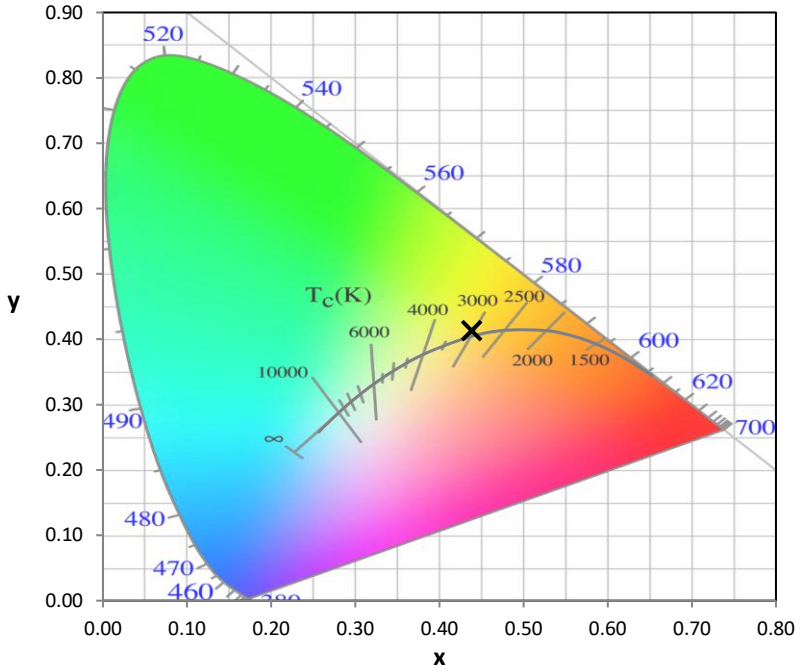
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

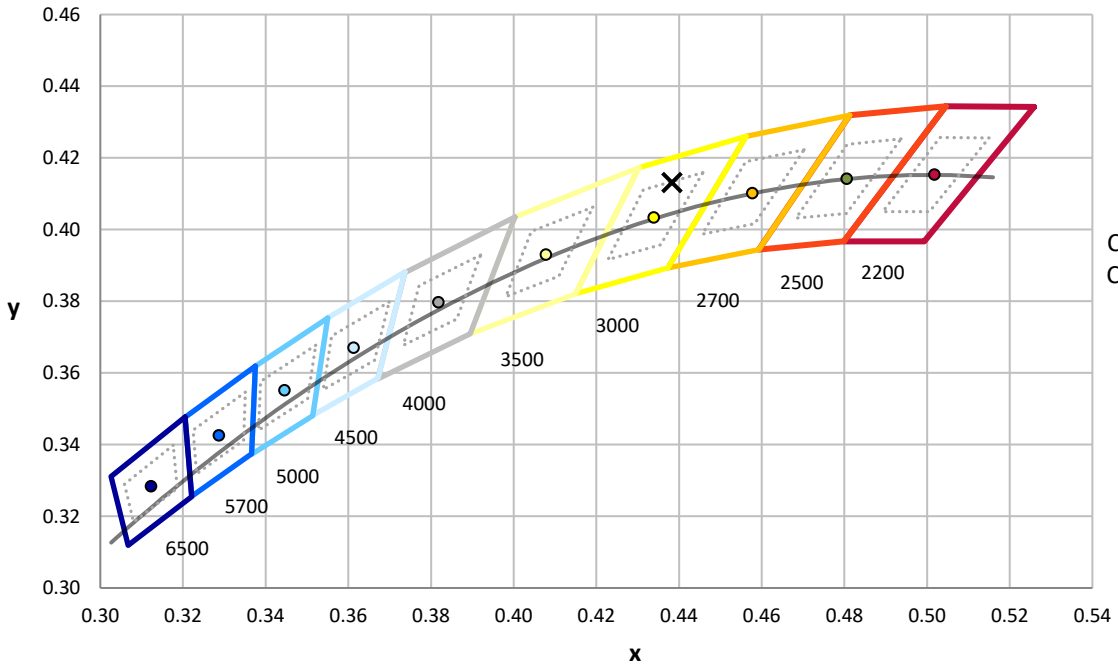
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

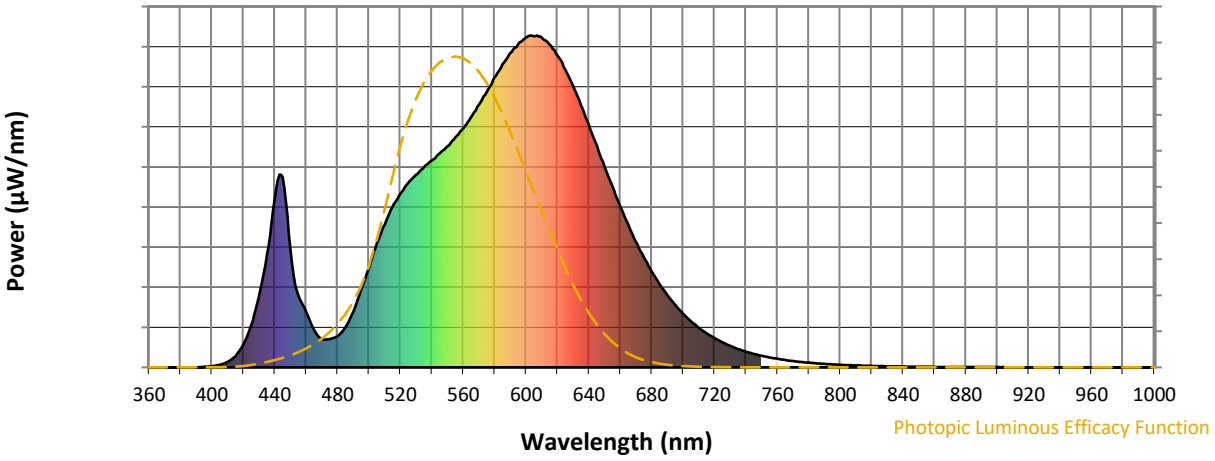


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

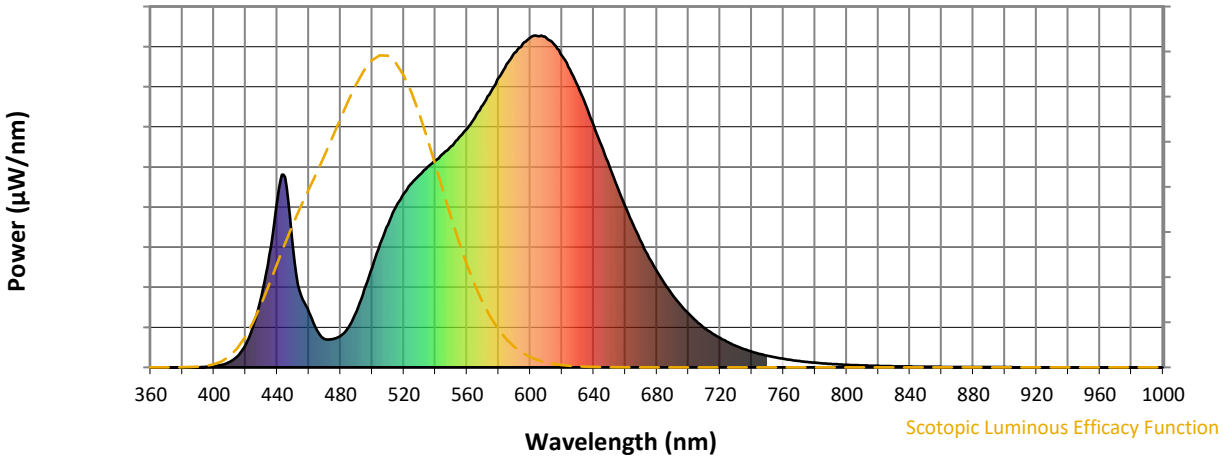


Photopic Lumens: NR

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

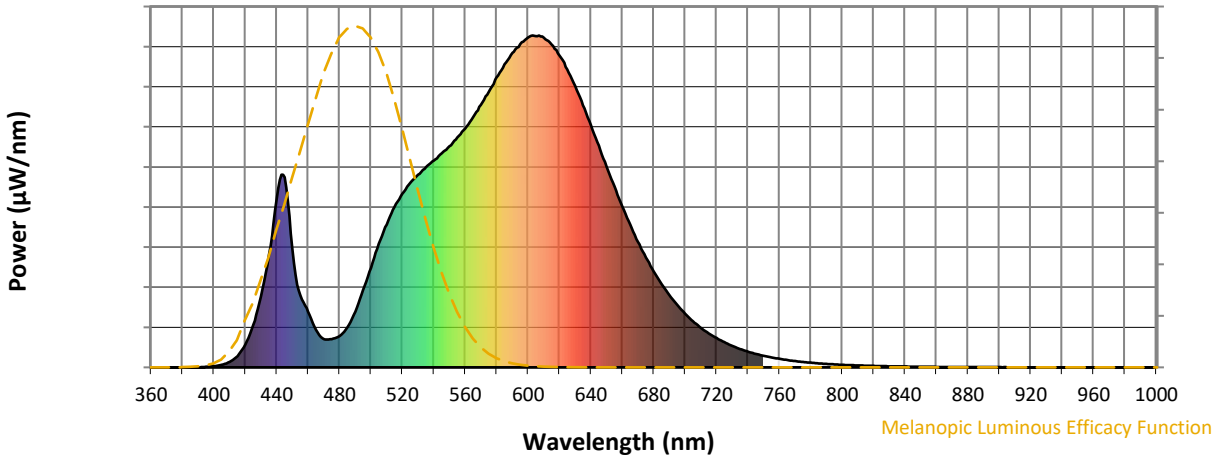


Scotopic Lumens: NR **S/P: 1.27**

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			

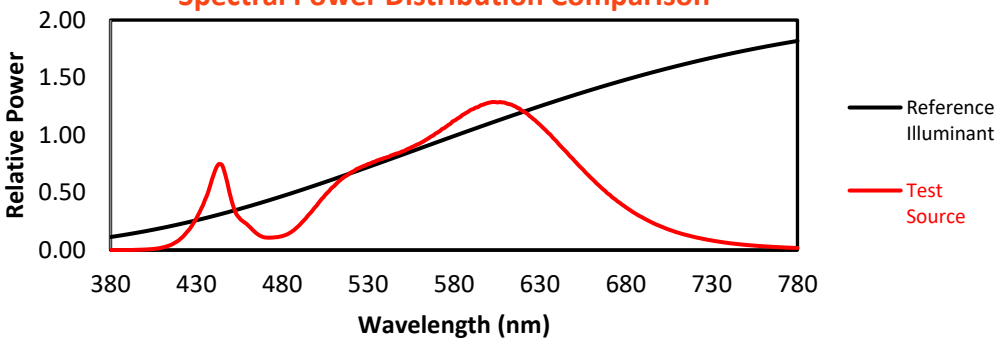
REPORT NUMBER: SP1-2408-195-9

TM-30-18

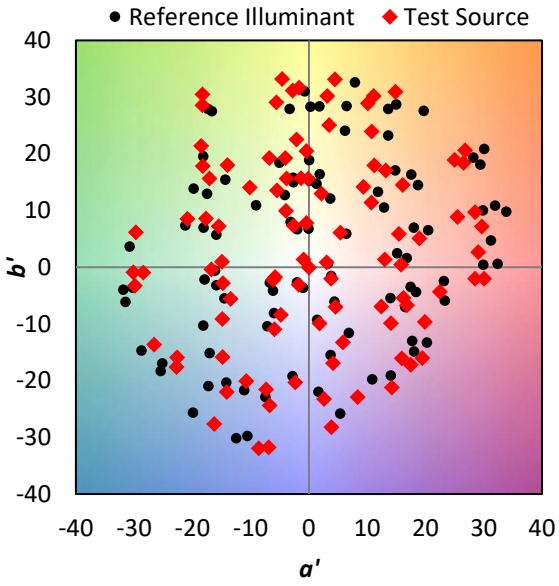
Summary

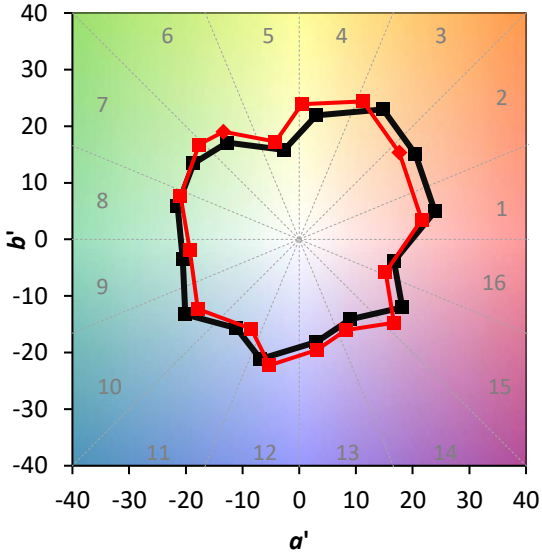
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

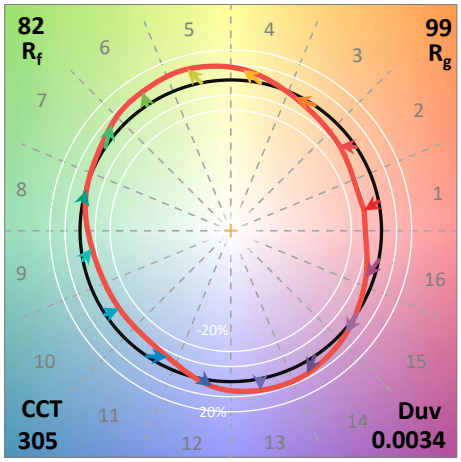
Spectral Power Distribution Comparison

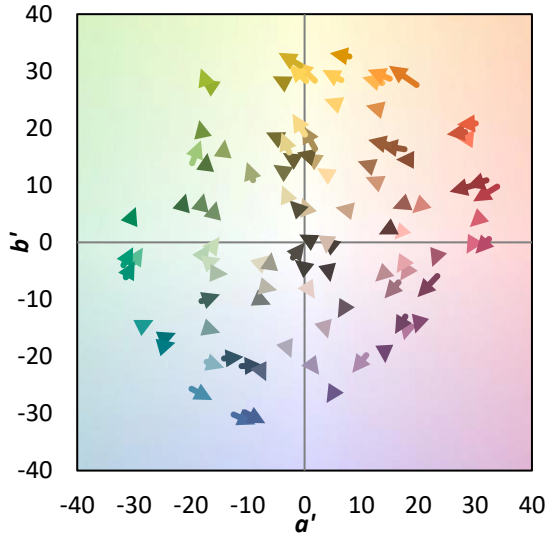


Color Vector Graphics









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
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
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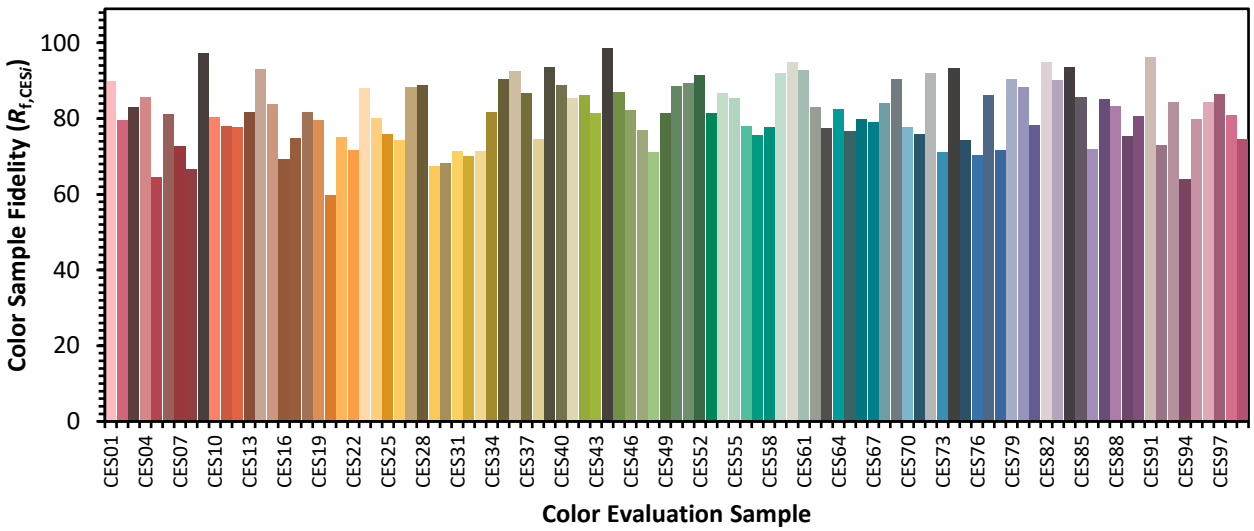
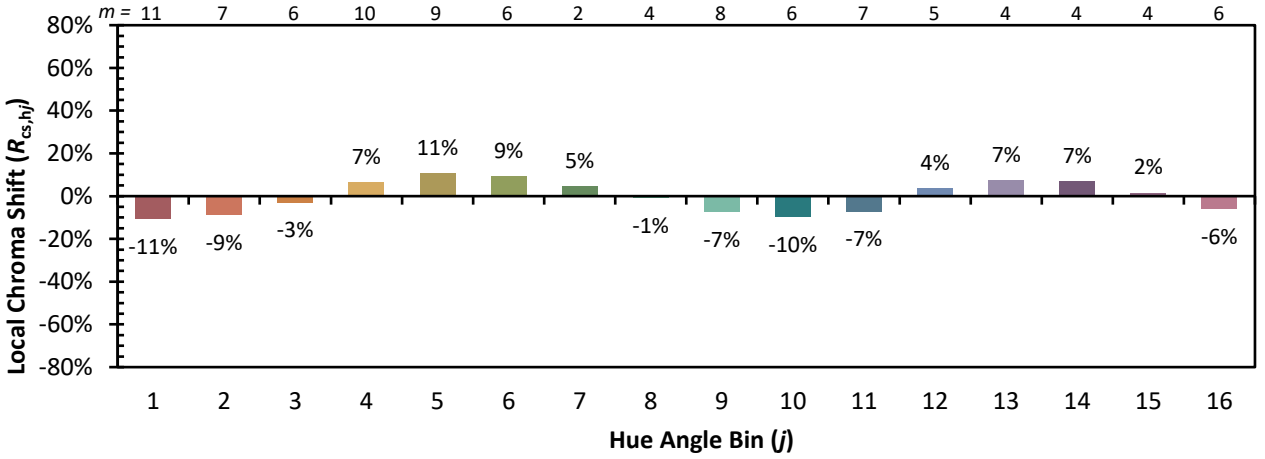
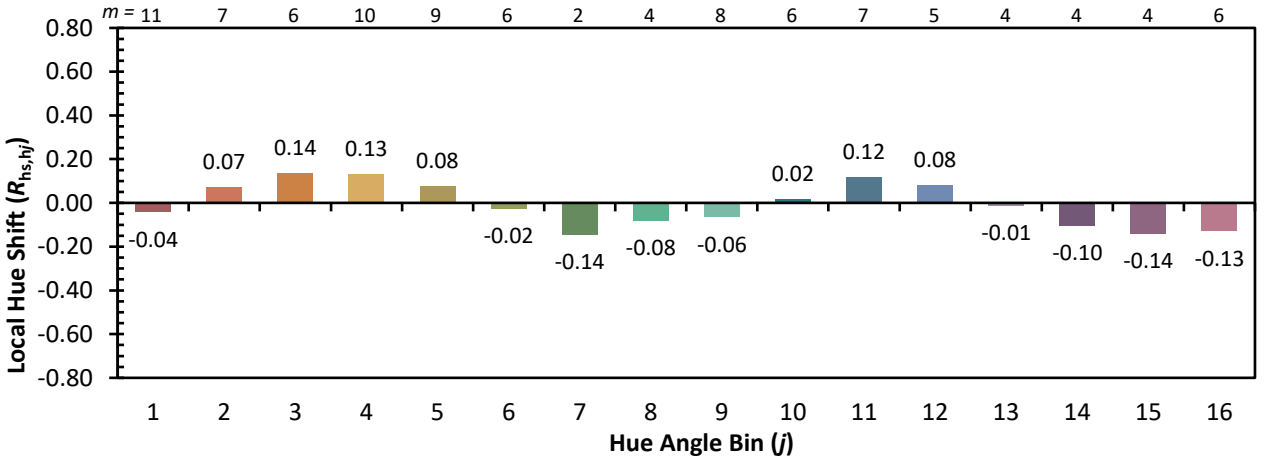


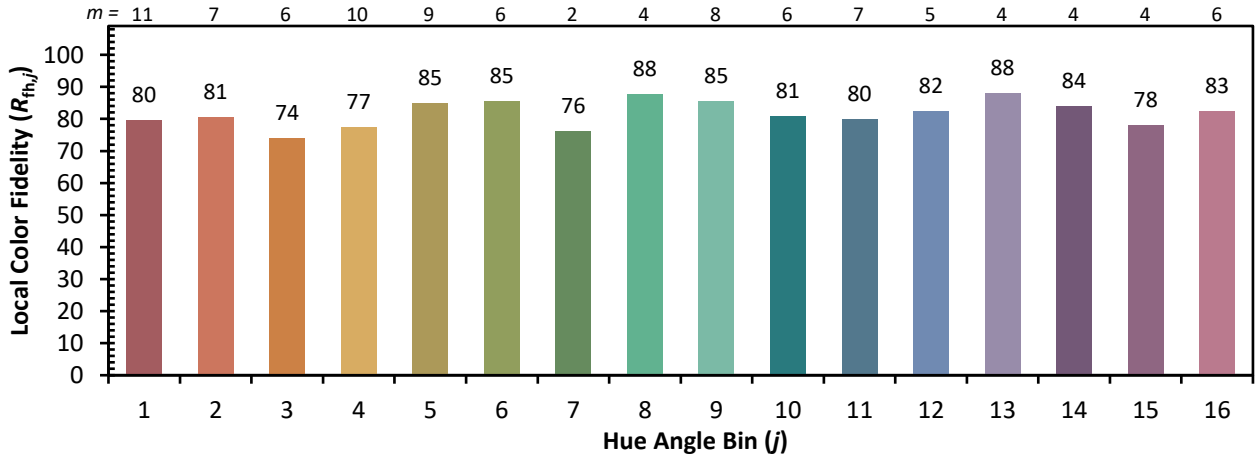
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



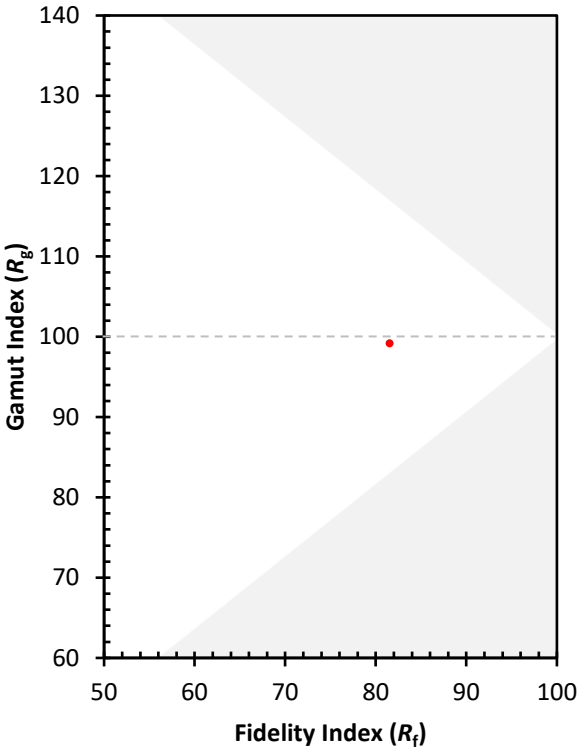


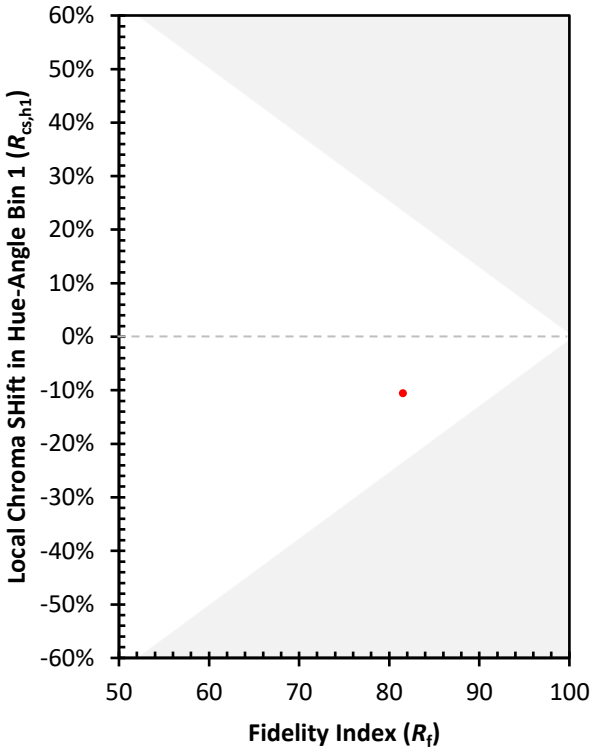


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)