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: P387174

Luminaire Tested: **GPC-SA2D-830-U-SLL-HSS**

Issue Date: 3/3/2020

Report Generated By 670245982

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P387174
	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:	GPC-SA2D-830-U-SLL-HSS
Description:	GALLEON PEDESTRIAN LUMINAIRE
	(2) 80 CRI, 3000K, 1200mA 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:	9540 lumens
Efficiency:	N/A
Efficacy:	74.5 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - U0 - G2

Input Watts (W):	128
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:	28.75 FT

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REPORT NUMBER: P387174
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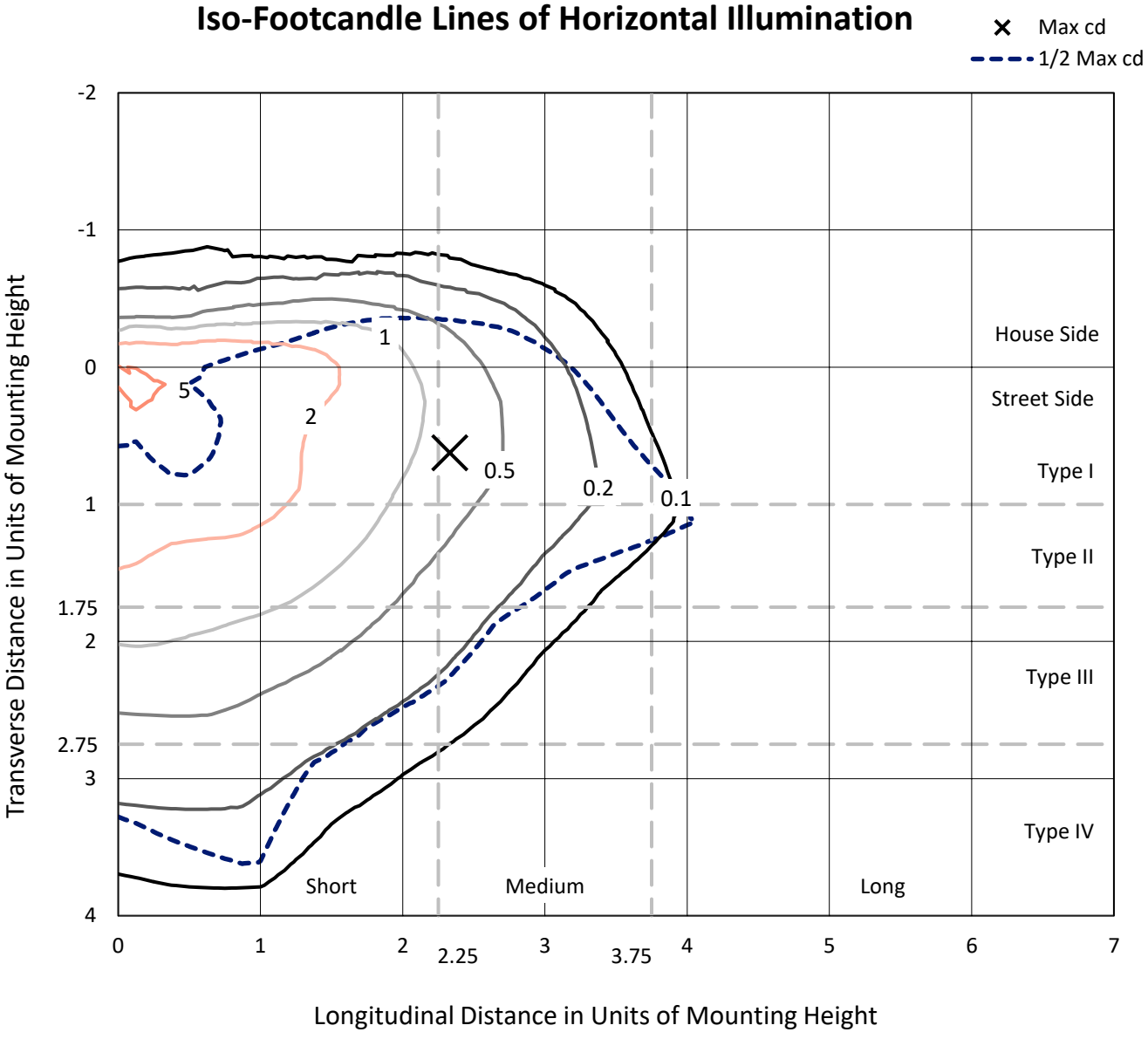
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type III - Medium - N/A

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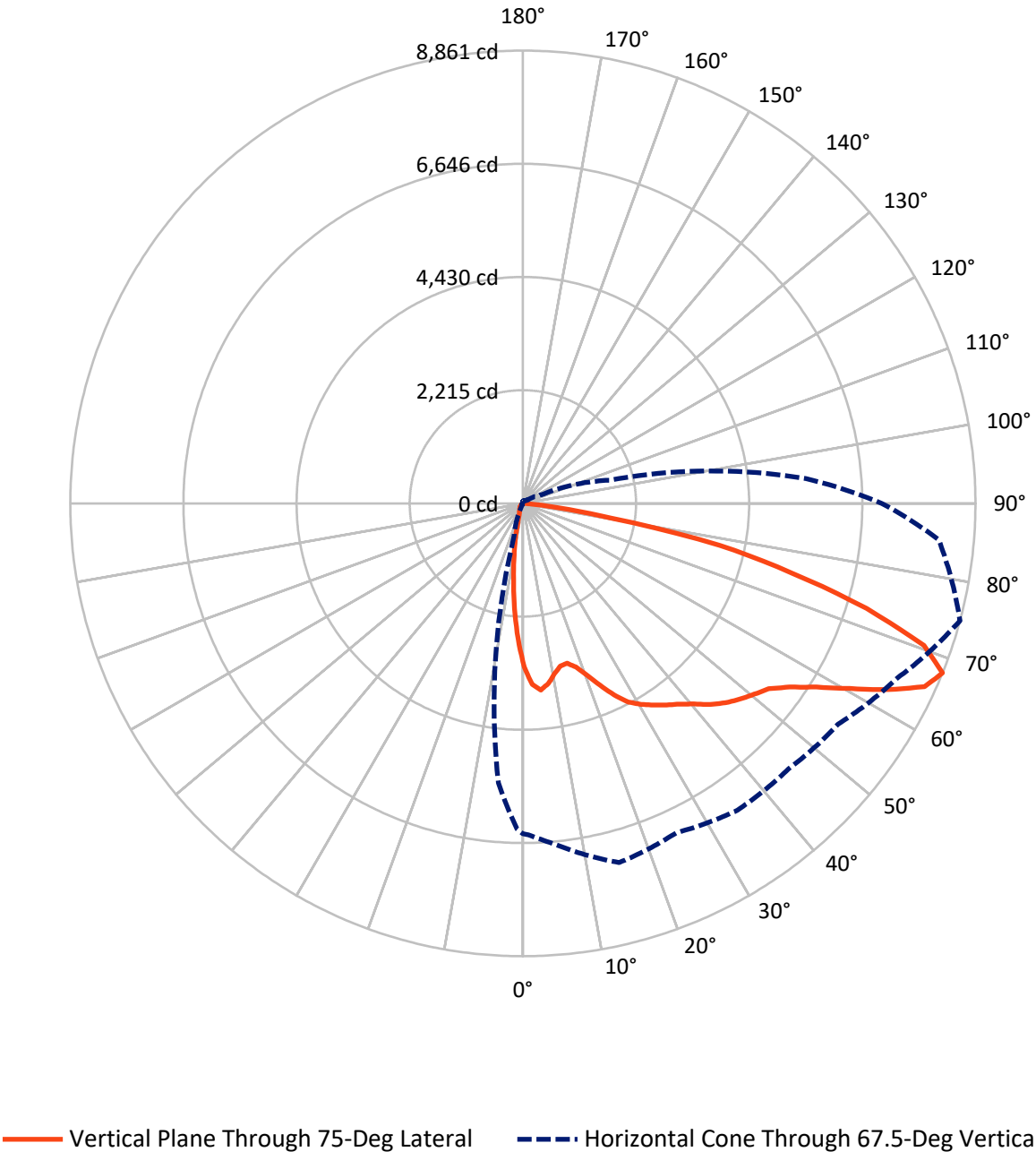
Luminous Intensity Polar Plot



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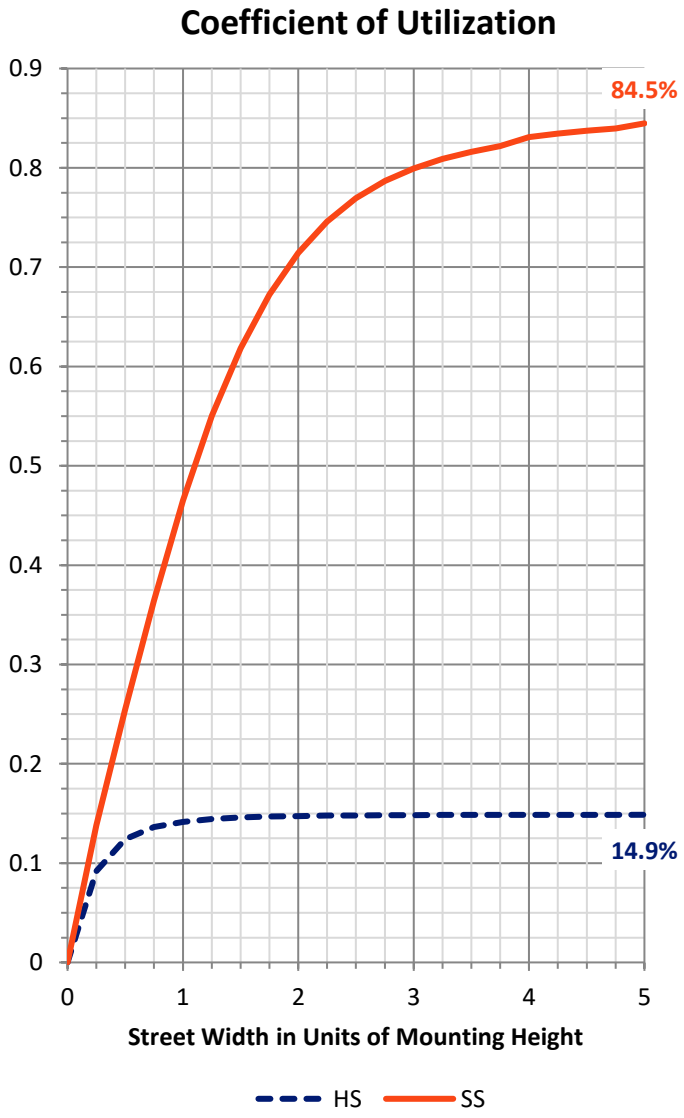
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1431.6	0.0	1431.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	8108.4	0.0	8108.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	9540.0	0.0	9540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.8	2.5
10°-20°	478.0	5.0
20°-30°	676.3	7.1
30°-40°	994.3	10.4
40°-50°	1429.1	15.0
50°-60°	2011.9	21.1
60°-70°	2349.7	24.6
70°-80°	1198.7	12.6
80°-90°	159.2	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°	9540.0	100.0
0°-180°	9540.0	100.0



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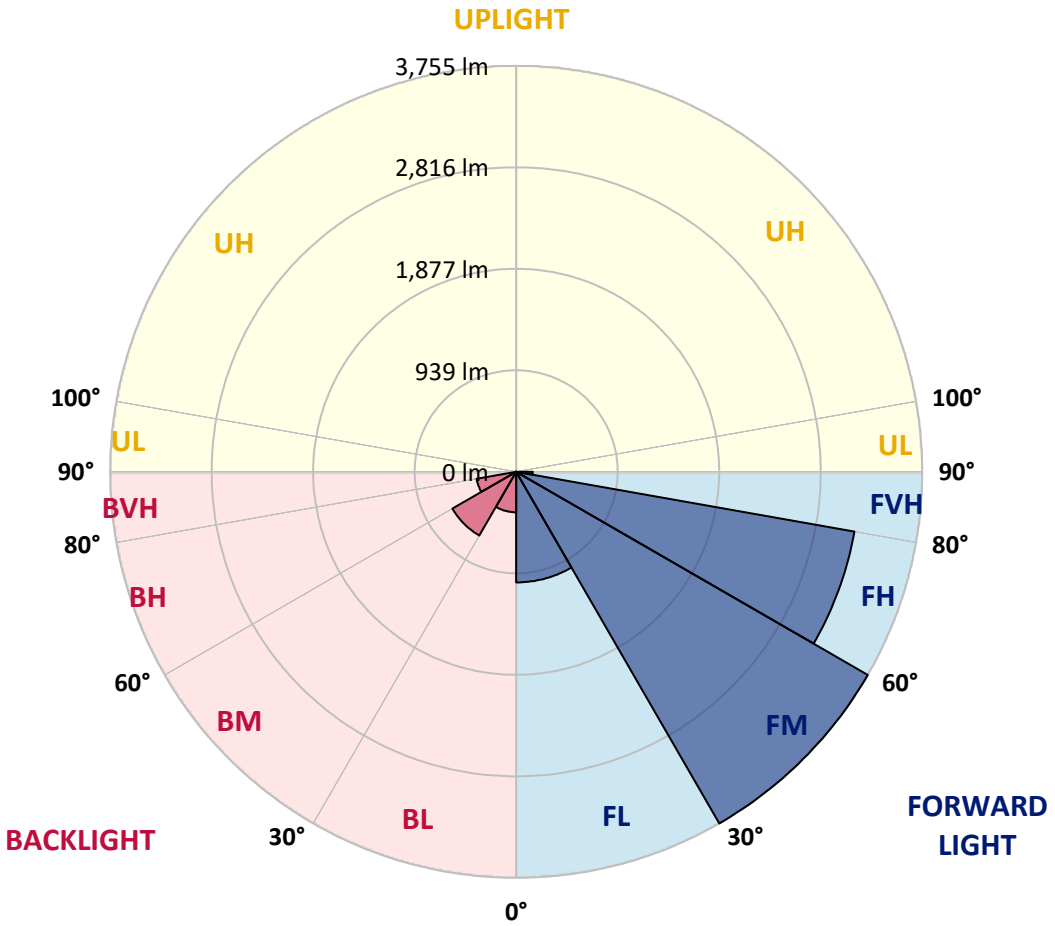
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1022.7	10.7			
FM	(30°-60°)	3754.8	39.4			
FH	(60°-80°)	3176.5	33.3			G2/5000
FVH	(80°-90°)	154.4	1.6			G2/225
BL	(0°-30°)	374.4	3.9	B1/500		
BM	(30°-60°)	680.5	7.1	B1/1000		
BH	(60°-80°)	371.8	3.9	B1/500		G1/500
BVH	(80°-90°)	4.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	*3200.5*	3200.5
2.5°	3469.4	3474.8	3502.8	3567.9	3638.9	3644.3	3692.2	3642.9	3626.2	*3546.7*	3464.4
5°	3495.6	3516.4	3612.7	3803.8	3969.7	4023.0	4061.0	3964.3	3862.6	*3668.2*	3460.8
7.5°	3284.6	3319.4	3470.8	3829.6	4126.0	4257.1	4282.0	4130.6	3881.6	*3561.6*	3249.8
10°	3014.3	3054.1	3236.7	3677.7	4084.9	4309.5	4343.9	4145.5	3787.6	*3389.0*	3021.5
12.5°	2795.6	2842.1	3028.8	3506.9	3943.5	4192.0	4259.8	4095.3	3706.2	*3266.5*	2865.6
15°	2694.8	2748.1	2944.3	3396.6	3786.6	3982.3	4038.4	3967.4	3661.0	*3247.1*	2829.5
17.5°	2752.7	2810.5	3013.0	3406.1	3639.3	3722.9	3768.1	3797.0	3661.0	*3364.1*	2935.2
20°	2989.9	3052.3	3266.5	3502.4	3517.3	3486.1	3534.5	3636.2	3703.5	*3586.4*	3189.2
22.5°	3318.0	3391.2	3633.0	3667.3	3457.7	3339.7	3346.0	3505.6	3780.8	*3868.4*	3541.7
25°	3718.0	3807.4	4053.3	3913.2	3482.5	3252.5	3250.2	3398.0	3856.2	*4150.9*	3934.4
27.5°	4115.2	4213.7	4429.7	4213.3	3585.1	3236.7	3232.1	3365.5	3929.9	*4402.2*	4363.3
30°	4448.3	4544.1	4730.3	4430.6	3695.8	3273.7	3252.0	3400.3	3973.7	*4565.3*	4676.0
32.5°	4719.4	4796.2	4946.7	4580.2	3814.2	3345.6	3298.6	3493.4	4048.3	*4703.1*	4963.5
35°	5017.7	5098.6	5158.7	4722.6	3947.1	3449.1	3381.7	3641.1	4163.1	*4843.2*	5278.4
37.5°	5358.0	5438.4	5431.2	4852.7	4115.6	3620.3	3577.4	3875.2	4341.6	*4982.0*	5630.0
40°	5691.0	5773.3	5714.5	4995.1	4313.6	3902.8	3871.2	4226.8	4580.7	*5159.6*	6042.2
42.5°	6002.9	6091.9	5966.3	5129.8	4549.5	4258.9	4313.1	4679.6	4879.8	*5378.3*	6397.4
45°	6254.1	6345.0	6177.3	5260.8	4798.0	4690.9	4854.1	5181.3	5239.6	*5563.2*	6637.4
47.5°	6436.7	6522.6	6323.7	5391.9	5116.2	5219.2	5503.5	5707.3	5564.5	*5723.6*	6807.7
50°	6553.3	6620.2	6366.7	5555.9	5533.8	5835.7	6180.0	6279.4	5870.5	*5868.2*	7014.7
52.5°	6627.4	6657.7	6398.3	5727.2	5969.4	6506.8	6842.5	6873.7	6185.4	*6027.3*	7293.6
55°	6882.8	6907.2	6622.5	5934.6	6329.6	7094.7	7441.8	7412.9	6542.0	*6338.6*	7622.6
57.5°	7318.4	7344.2	7085.7	6232.9	6621.1	7458.1	7876.1	7928.1	6960.0	*6776.1*	7975.1
60°	7537.1	7585.0	7492.9	6610.7	6903.6	7690.3	8172.1	8337.9	7482.5	*7352.8*	8316.7
62.5°	7338.8	7408.3	7542.1	7029.6	7184.2	7818.2	8264.3	8484.8	8017.5	*8024.8*	8527.3
65°	6942.9	6998.5	7225.3	7259.2	7346.9	7802.4	8036.5	8279.7	8345.2	*8642.1*	8516.0
67.5°	*6464.7*	*6485.5*	*6678.0*	*7277.3*	*7111.0*	*7327.0*	*7352.3*	*7532.2*	*8086.2*	*8860.8*	*8173.9*
70°	5776.5	5787.8	5955.9	6672.2	6110.9	6158.3	6120.8	6157.4	6951.9	*8328.0*	7310.3
72.5°	4648.9	4677.4	4916.5	5541.0	4451.9	4314.9	4609.6	4593.3	5353.9	*7036.0*	5429.4
75°	3422.9	3472.1	3833.2	4463.2	3124.6	2826.3	3041.4	3098.8	3806.1	*5442.5*	3395.3
77.5°	2396.5	2433.1	2782.9	3280.9	2261.4	2021.0	1943.3	2011.5	2512.2	*3937.1*	1710.5
80°	1380.6	1394.2	1617.4	1894.5	1523.9	1743.5	1579.5	1626.5	1505.3	*1751.6*	735.7
82.5°	903.4	905.7	992.9	1127.5	949.0	1102.7	816.2	1043.5	926.0	*703.6*	239.5
85°	488.1	490.8	575.7	800.4	537.3	303.7	178.5	366.5	572.6	*161.3*	65.5
87.5°	53.8	49.3	173.5	291.0	149.1	27.6	9.5	41.1	91.7	*10.4*	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°	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5
2.5°	3422.4	3384.9	3291.3	3192.4	3112.8	3038.3	2963.2	2871.5	2800.6	2786.1	2762.6
5°	3349.2	3230.3	3034.2	2837.2	2678.5	2478.3	2351.3	2252.4	2155.7	2149.8	2130.4
7.5°	3093.4	2937.0	2660.9	2388.4	2165.2	1974.4	1781.9	1653.1	1551.9	1516.2	1495.0
10°	2847.6	2671.8	2326.9	2016.0	1816.7	1648.2	1512.6	1377.9	1255.9	1171.8	1133.9
12.5°	2675.8	2481.5	2101.4	1833.4	1690.6	1530.7	1365.3	1197.1	1056.6	955.4	893.4
15°	2609.4	2402.0	2026.0	1761.1	1584.9	1382.4	1170.9	978.9	822.9	731.2	675.6
17.5°	2688.5	2447.2	2020.1	1673.0	1426.7	1175.0	941.4	714.5	567.6	498.0	462.3
20°	2889.1	2590.9	2017.8	1565.0	1238.7	929.2	637.7	470.0	381.0	342.1	325.4
22.5°	3172.9	2774.3	2035.9	1458.4	1043.0	663.9	440.2	345.3	299.6	278.8	269.3
25°	3538.1	3031.9	2087.0	1361.6	859.1	495.3	343.0	289.2	257.1	240.9	234.1
27.5°	3927.2	3328.4	2166.5	1277.6	709.5	395.0	293.7	247.7	224.6	213.3	207.0
30°	4248.1	3671.9	2247.0	1184.0	601.1	344.4	268.9	226.0	199.3	192.1	186.2
32.5°	4528.7	3931.7	2303.9	1099.5	530.1	306.0	243.1	202.0	183.9	169.9	163.6
35°	4819.3	4148.2	2302.1	1040.3	481.3	277.0	221.4	180.8	159.1	142.8	137.8
37.5°	5133.8	4392.7	2262.8	989.7	460.1	254.0	209.2	169.5	147.8	131.5	125.2
40°	5502.1	4649.4	2222.5	942.3	454.2	235.5	200.7	160.4	137.4	121.6	115.2
42.5°	5861.0	4880.8	2187.3	907.0	428.9	235.0	193.0	153.7	129.2	113.9	106.7
45°	6147.9	5096.3	2180.5	885.8	402.2	243.1	188.9	149.1	122.9	107.6	100.8
47.5°	6386.6	5330.4	2223.9	870.9	376.9	221.9	198.8	146.0	117.0	102.1	94.5
50°	6670.4	5617.8	2326.0	846.4	350.2	199.7	227.8	146.9	112.1	96.7	88.6
52.5°	7066.2	6015.5	2476.1	805.3	313.6	179.4	224.2	147.8	106.7	90.8	82.7
55°	7510.0	6512.2	2637.4	737.1	262.6	152.7	192.1	141.5	96.3	84.5	76.8
57.5°	7976.4	6962.8	2733.2	655.7	208.8	132.0	153.7	128.8	85.0	75.9	71.0
60°	8049.6	7134.0	2689.4	555.9	165.9	114.8	113.9	131.1	75.9	66.9	63.3
62.5°	7867.5	6918.9	2477.4	466.8	138.7	100.8	93.5	114.3	68.7	59.7	56.0
65°	7517.3	6337.3	2134.0	420.7	128.8	86.3	77.7	80.4	60.1	52.0	48.8
67.5°	*7030.1*	*5560.9*	*1752.1*	*394.5*	*127.4*	*74.1*	*66.4*	*61.0*	*52.0*	*45.2*	*42.5*
70°	6034.1	4632.6	1397.8	380.1	123.8	62.4	56.0	49.7	43.4	38.4	36.2
72.5°	4441.0	3282.8	1087.3	364.2	124.7	49.7	48.8	41.1	34.8	29.8	28.9
75°	2566.0	1875.5	713.1	295.1	118.9	38.4	40.7	28.9	24.4	20.8	20.8
77.5°	1367.5	1143.8	271.6	122.9	43.4	24.4	23.0	17.2	15.4	12.7	12.2
80°	596.1	503.4	81.8	34.3	24.0	13.1	8.6	7.7	6.8	5.4	5.0
82.5°	211.0	182.1	26.7	16.7	10.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	47.9	34.3	0.0	4.1	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°	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5
2.5°	2714.7	2704.7	2646.0	2648.3	2658.7	2673.6	2638.3	2654.6	2698.4	2740.5	2756.3
5°	2099.2	2101.4	2065.7	2087.9	2107.8	2121.3	2064.4	2065.3	2100.1	2147.5	2172.4
7.5°	1479.1	1475.5	1477.3	1530.2	1567.7	1540.6	1561.8	1488.2	1492.7	1526.6	1501.3
10°	1099.5	1049.8	1021.8	1061.6	1102.7	1087.8	1051.2	1027.2	1043.9	1081.4	1078.7
12.5°	864.1	792.7	750.6	722.2	756.1	728.0	727.1	706.4	683.8	687.8	747.9
15°	649.9	597.9	548.2	502.5	501.6	492.1	443.8	389.6	385.0	387.7	418.9
17.5°	447.0	429.3	409.0	369.7	359.3	319.5	272.5	250.8	240.0	244.9	255.3
20°	314.1	307.3	309.6	288.3	273.4	235.5	207.9	199.3	197.5	202.5	207.4
22.5°	260.3	248.1	246.7	237.3	222.3	194.8	179.9	174.9	172.6	177.2	180.8
25°	227.8	215.6	210.6	204.7	188.9	169.9	160.9	156.4	154.1	156.8	159.1
27.5°	200.7	189.4	184.8	180.8	165.4	151.8	144.6	140.5	138.7	139.6	141.9
30°	180.3	170.4	164.5	159.5	146.4	136.9	130.6	126.5	124.7	124.7	127.0
32.5°	159.1	153.7	148.2	141.9	129.7	123.4	117.0	112.5	110.7	111.2	113.0
35°	132.4	130.6	132.0	126.1	115.7	110.3	103.9	99.0	97.6	98.1	99.9
37.5°	117.5	109.4	114.3	111.2	105.3	98.1	89.9	85.4	83.2	84.5	85.4
40°	108.0	98.1	94.5	97.6	96.7	85.0	77.7	73.2	71.4	71.9	72.8
42.5°	99.9	88.1	80.0	79.5	85.0	74.1	66.4	62.4	60.1	60.1	61.0
45°	92.2	79.5	69.6	61.9	71.4	62.8	55.6	52.0	49.3	49.3	49.7
47.5°	86.3	72.3	60.6	50.6	53.8	51.5	45.6	42.0	39.3	39.3	39.8
50°	80.9	65.1	52.4	42.5	40.2	42.5	37.1	33.0	31.2	30.7	31.6
52.5°	75.0	57.8	44.7	36.2	31.6	32.1	28.9	26.2	24.0	24.0	24.9
55°	69.1	52.0	38.9	30.7	26.2	24.0	23.0	21.2	19.4	19.4	20.3
57.5°	63.3	45.6	33.0	25.3	20.8	19.0	19.0	17.6	16.3	16.3	17.2
60°	57.8	39.3	27.1	20.8	16.3	15.8	16.3	14.9	14.0	14.0	14.9
62.5°	51.5	33.4	22.1	17.2	13.1	12.7	14.0	13.1	12.2	12.2	13.1
65°	43.8	28.5	17.6	13.1	9.9	9.9	11.7	10.8	9.9	9.9	10.8
67.5°	*37.1*	*24.0*	*13.6*	*9.5*	*7.2*	*7.7*	*9.9*	*9.0*	*8.6*	*8.6*	*9.5*
70°	30.7	18.5	9.5	5.9	4.1	5.9	7.7	7.7	7.7	7.7	8.6
72.5°	23.0	12.7	5.4	2.3	1.8	4.1	6.3	7.2	6.8	6.8	8.1
75°	14.9	7.2	1.8	0.0	0.0	2.3	5.0	5.9	5.9	5.4	6.8
77.5°	8.6	2.3	0.0	0.0	0.0	0.0	3.2	2.7	2.3	1.8	3.2
80°	2.3	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: P387174
CATALOG NUMBER: GPC-SA2D-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5
2.5°	2820.0	2873.3	2948.3	3027.9	3150.3	3247.5	3342.9	3424.7	3456.3	3469.4
5°	2232.0	2310.2	2420.0	2561.0	2782.0	2980.9	3182.4	3385.3	3473.5	3495.6
7.5°	1601.6	1701.5	1841.1	2017.8	2276.8	2534.4	2815.9	3113.7	3250.2	3284.6
10°	1185.4	1307.4	1467.4	1653.6	1900.8	2165.6	2472.5	2812.8	2968.7	3014.3
12.5°	841.0	1006.0	1220.2	1446.6	1660.8	1897.2	2207.6	2582.7	2746.3	2795.6
15°	494.0	653.5	907.0	1210.2	1484.6	1724.1	2039.5	2464.8	2645.1	2694.8
17.5°	283.4	362.9	554.5	892.5	1264.9	1596.6	1986.6	2494.2	2706.6	2752.7
20°	216.5	241.8	319.5	574.8	1008.2	1471.5	1986.6	2660.5	2922.1	2989.9
22.5°	189.4	207.9	239.5	343.0	742.1	1337.2	2009.7	2900.9	3243.0	3318.0
25°	168.1	184.8	212.0	258.0	506.2	1177.7	2064.4	3196.0	3620.8	3718.0
27.5°	150.5	166.3	190.7	226.0	346.2	985.2	2138.0	3542.2	4037.5	4115.2
30°	134.7	149.6	171.7	196.6	267.1	766.9	2200.9	3868.4	4364.7	4448.3
32.5°	119.8	133.3	153.2	171.7	218.7	567.2	2207.6	4126.9	4636.3	4719.4
35°	105.7	118.0	136.0	150.5	181.2	447.9	2102.3	4351.1	4907.9	5017.7
37.5°	92.2	103.9	119.8	130.6	159.5	365.2	1941.5	4601.0	5256.3	5358.0
40°	79.5	89.9	106.2	113.4	150.9	280.6	1766.6	4863.1	5597.9	5691.0
42.5°	67.8	77.7	93.5	107.6	132.4	209.7	1577.7	5109.0	5905.3	6002.9
45°	56.5	66.9	82.7	113.9	109.8	156.8	1375.6	5272.1	6147.9	6254.1
47.5°	45.6	57.4	79.1	108.5	87.7	115.2	1215.7	5426.7	6331.9	6436.7
50°	36.6	48.4	89.0	96.7	71.9	88.1	1148.8	5565.0	6452.5	6553.3
52.5°	29.8	40.7	84.1	74.1	60.1	72.8	1184.9	5789.1	6564.2	6627.4
55°	24.9	32.1	50.6	51.5	51.1	61.9	1229.7	6110.9	6852.9	6882.8
57.5°	21.7	25.8	35.2	39.8	42.9	55.1	1230.6	6572.7	7299.9	7318.4
60°	18.5	22.6	29.4	32.1	37.1	49.3	1185.8	6734.1	7475.7	7537.1
62.5°	16.3	19.9	24.4	26.7	31.2	44.3	1081.0	6500.4	7234.4	7338.8
65°	14.5	18.1	20.3	22.6	27.6	39.8	908.4	6033.1	6834.0	6942.9
67.5°	*12.7*	*15.8*	*18.1*	*20.3*	*24.9*	*35.2*	*668.8*	*5490.4*	*6374.4*	*6464.7*
70°	11.3	14.0	16.3	18.1	21.7	29.8	405.8	4658.9	5738.9	5776.5
72.5°	10.8	12.7	14.9	16.3	19.0	26.2	205.6	3423.8	4587.9	4648.9
75°	9.5	11.3	13.6	14.5	16.7	22.6	83.6	2248.8	3324.8	3422.9
77.5°	7.7	10.4	12.2	13.1	14.5	18.5	42.5	1437.1	2333.3	2396.5
80°	2.7	7.7	10.4	10.8	12.2	13.6	28.0	786.8	1353.5	1380.6
82.5°	0.0	5.0	8.1	7.7	8.6	10.4	18.1	374.2	893.4	903.4
85°	0.0	2.3	6.3	5.0	3.6	7.2	6.3	81.8	468.6	488.1
87.5°	0.0	0.0	0.5	2.3	1.8	2.7	0.9	0.5	42.5	53.8
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

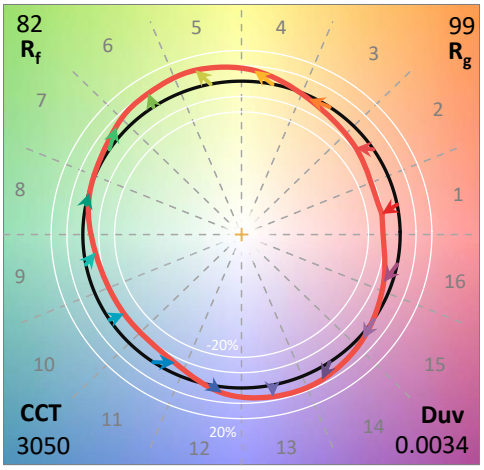
Test Information

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

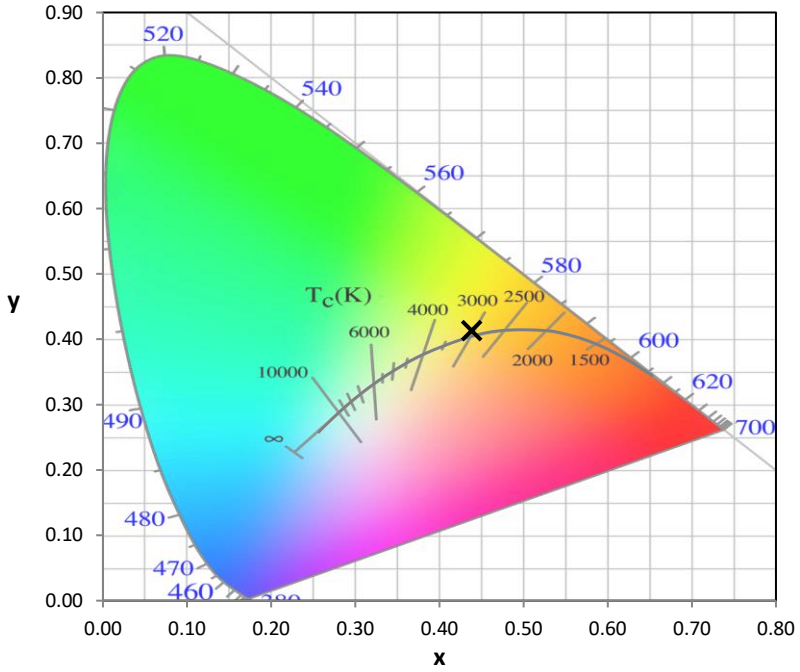
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

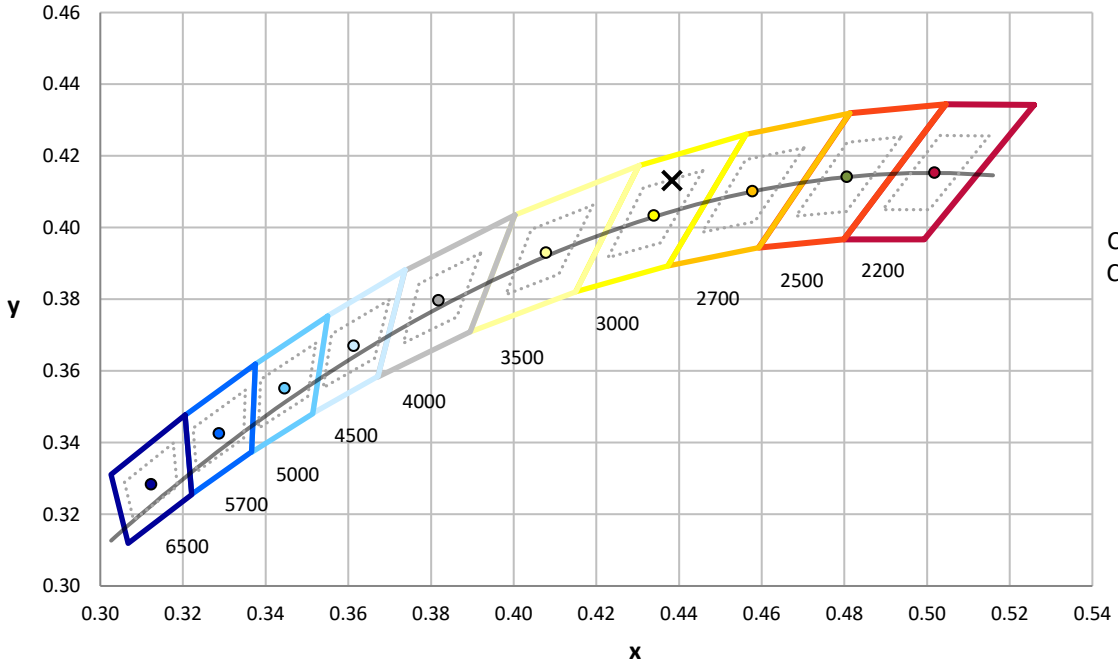
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

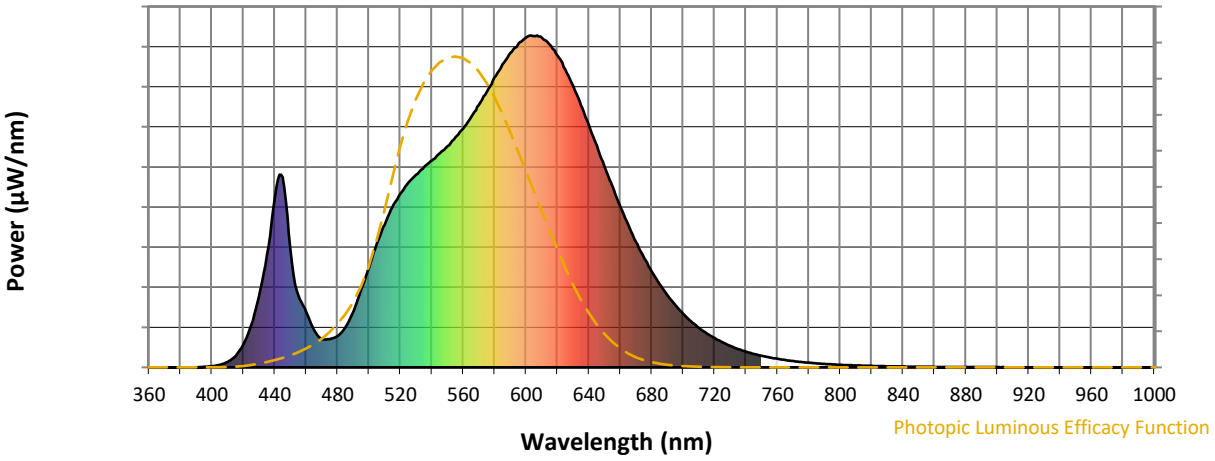


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

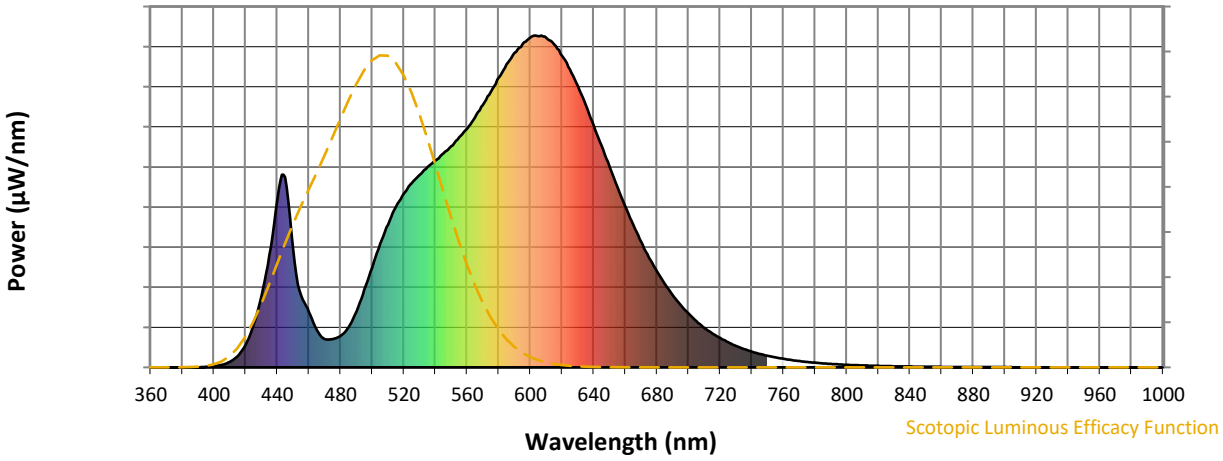


Photopic Lumens: NR

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

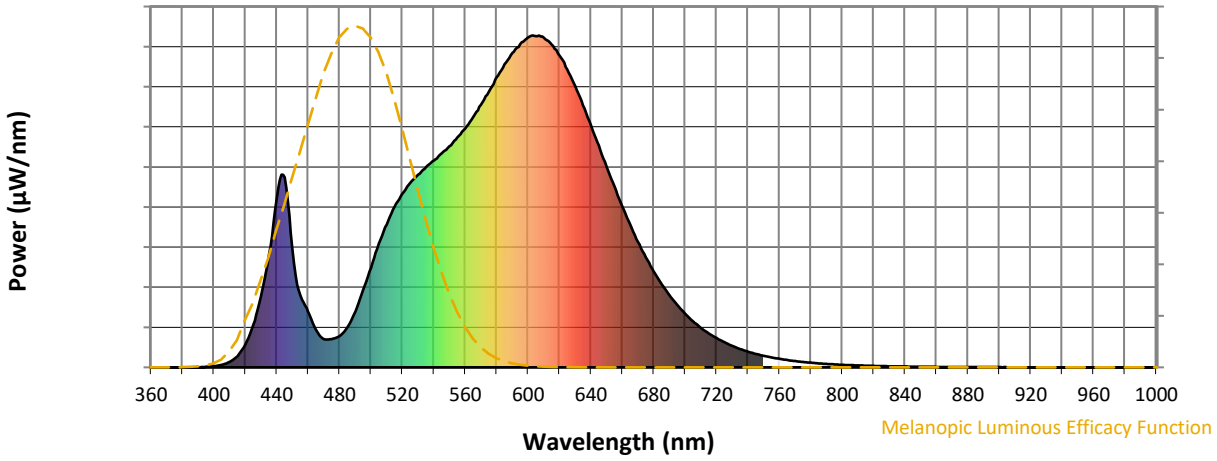


Scotopic Lumens: NR **S/P: 1.27**

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			

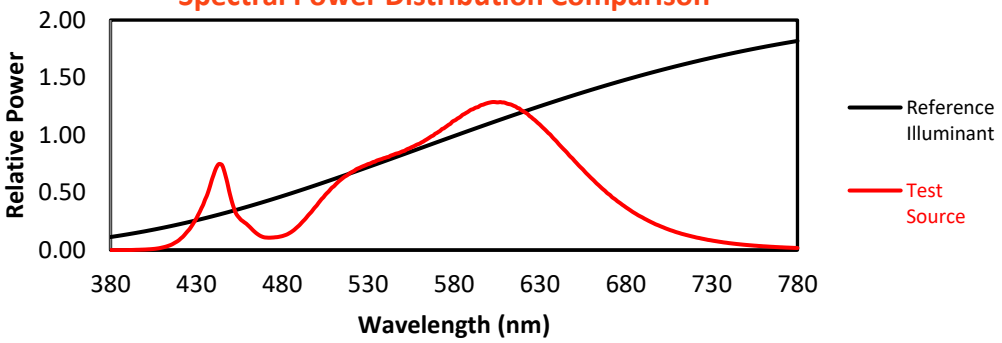
REPORT NUMBER: SP1-2408-195-9

TM-30-18

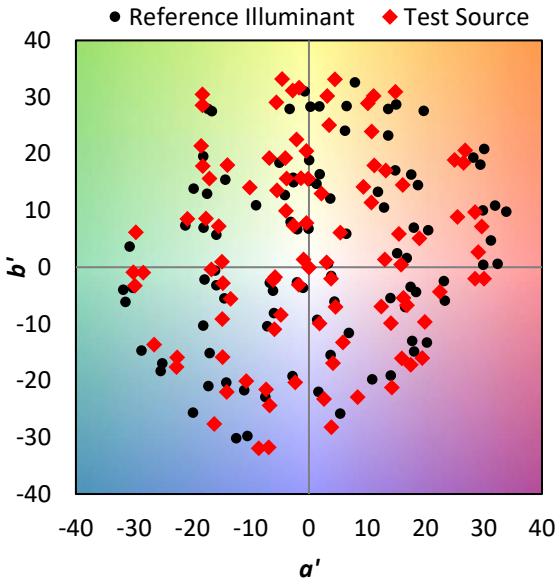
Summary

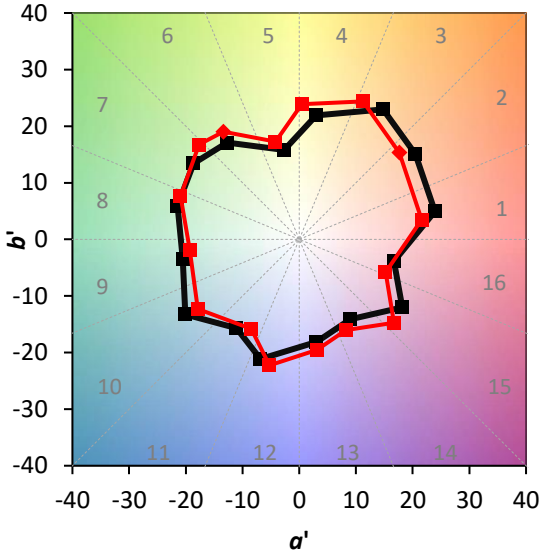
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

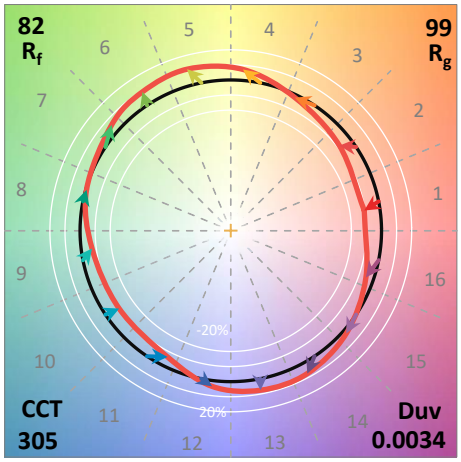
Spectral Power Distribution Comparison

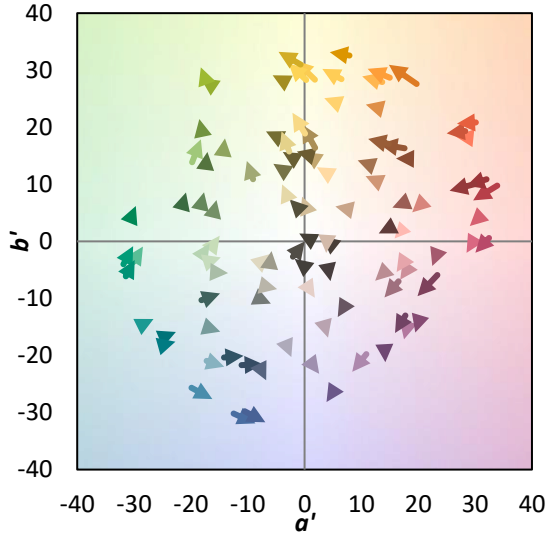


Color Vector Graphics









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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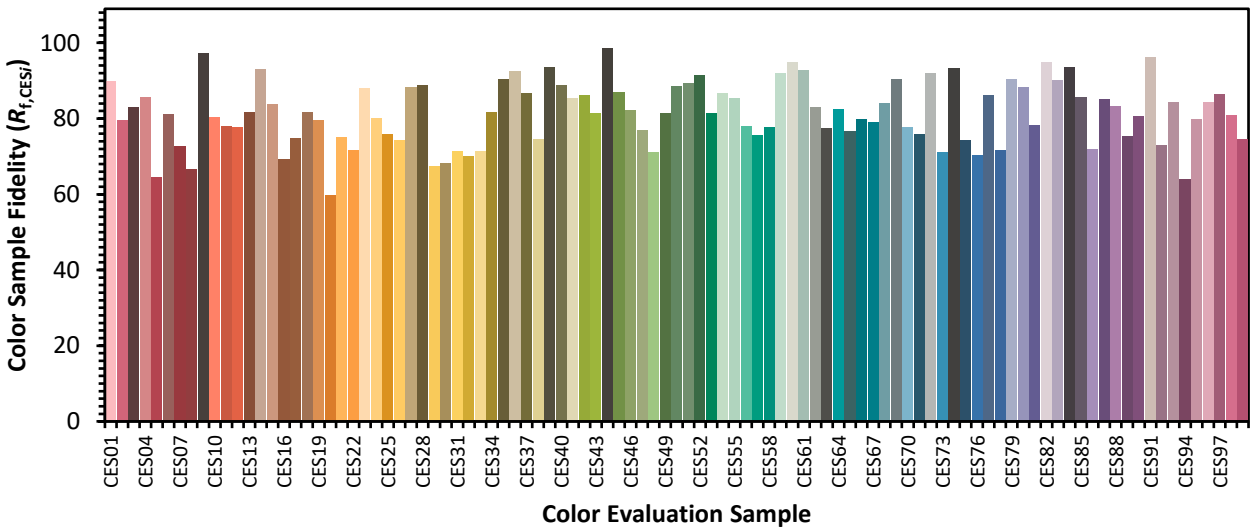

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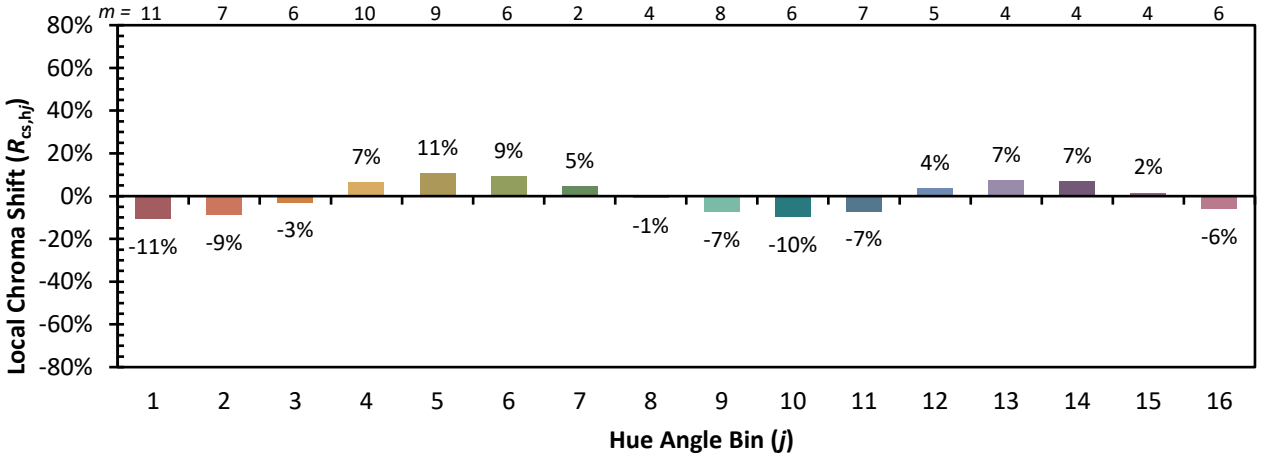
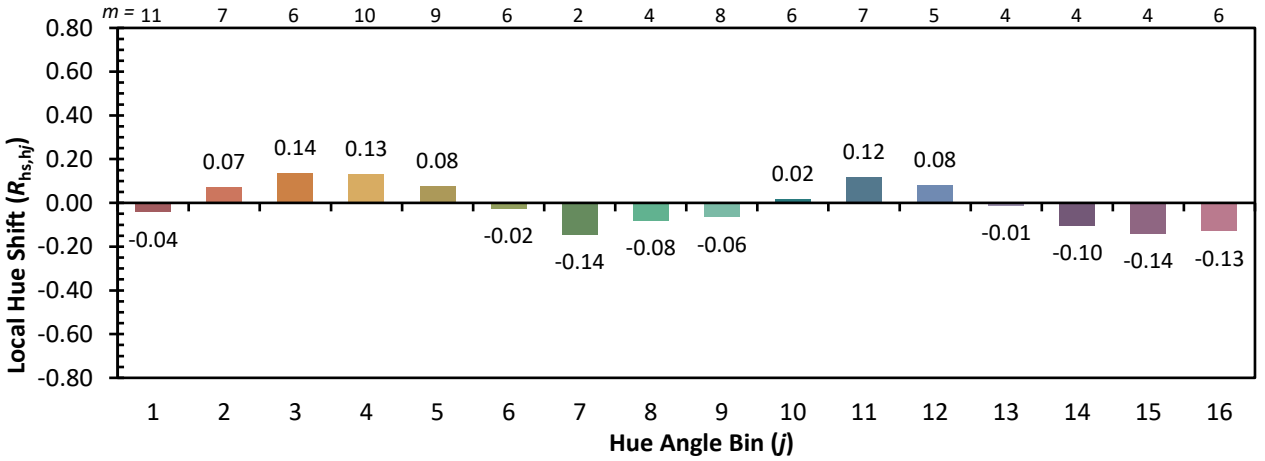
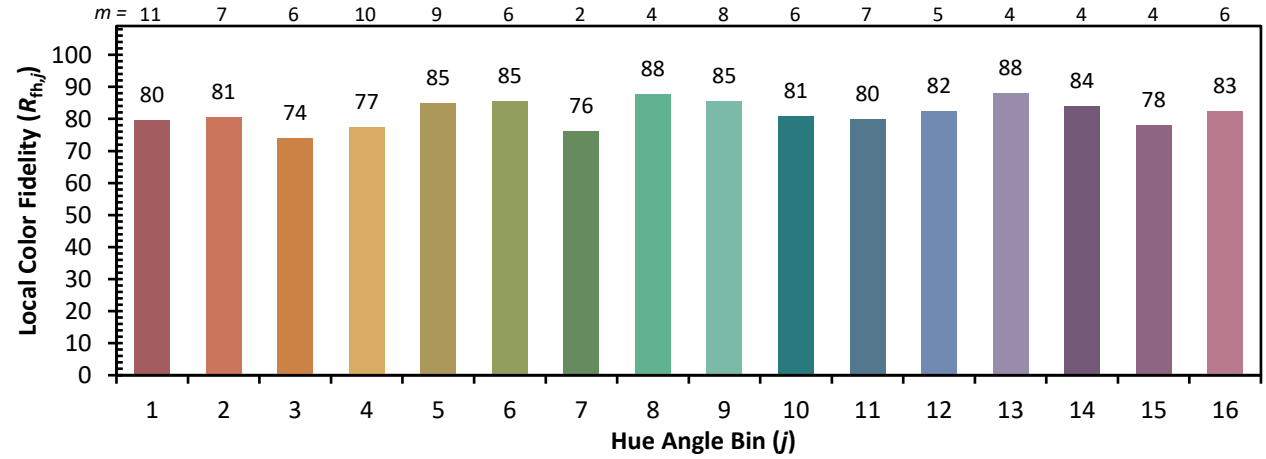
Color Rendition by Hue-Angle Bin







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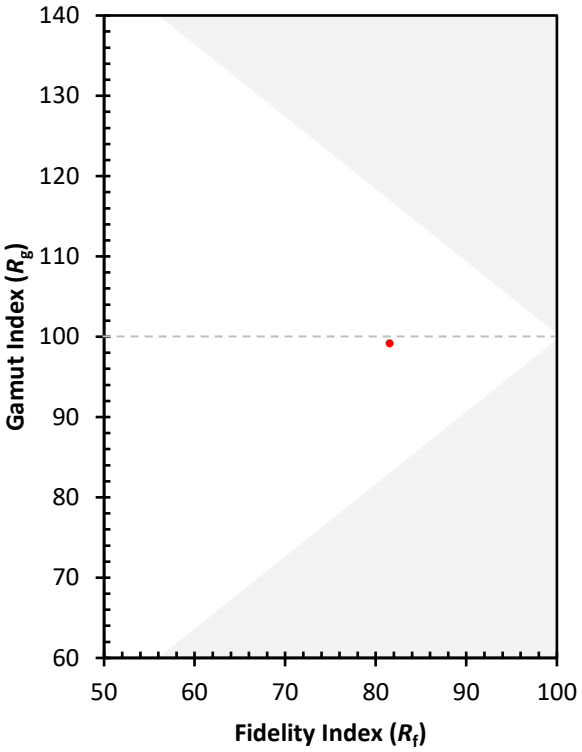
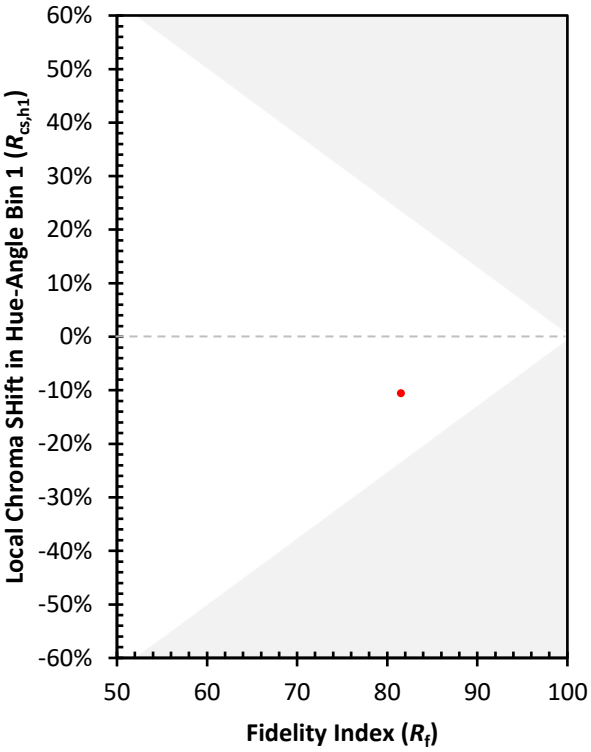
Measure Comparisons





(END OF REPORT)