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

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

Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1501799

Luminaire Tested: GSS-SB5C-730-U-T2LG-HSS

Issue Date: 07/20/2026

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

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501799
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB5C-730-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 5SQUARE 252W 70CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(130) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	29312.5 lumens
Efficiency:	N/A
Efficacy:	116.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

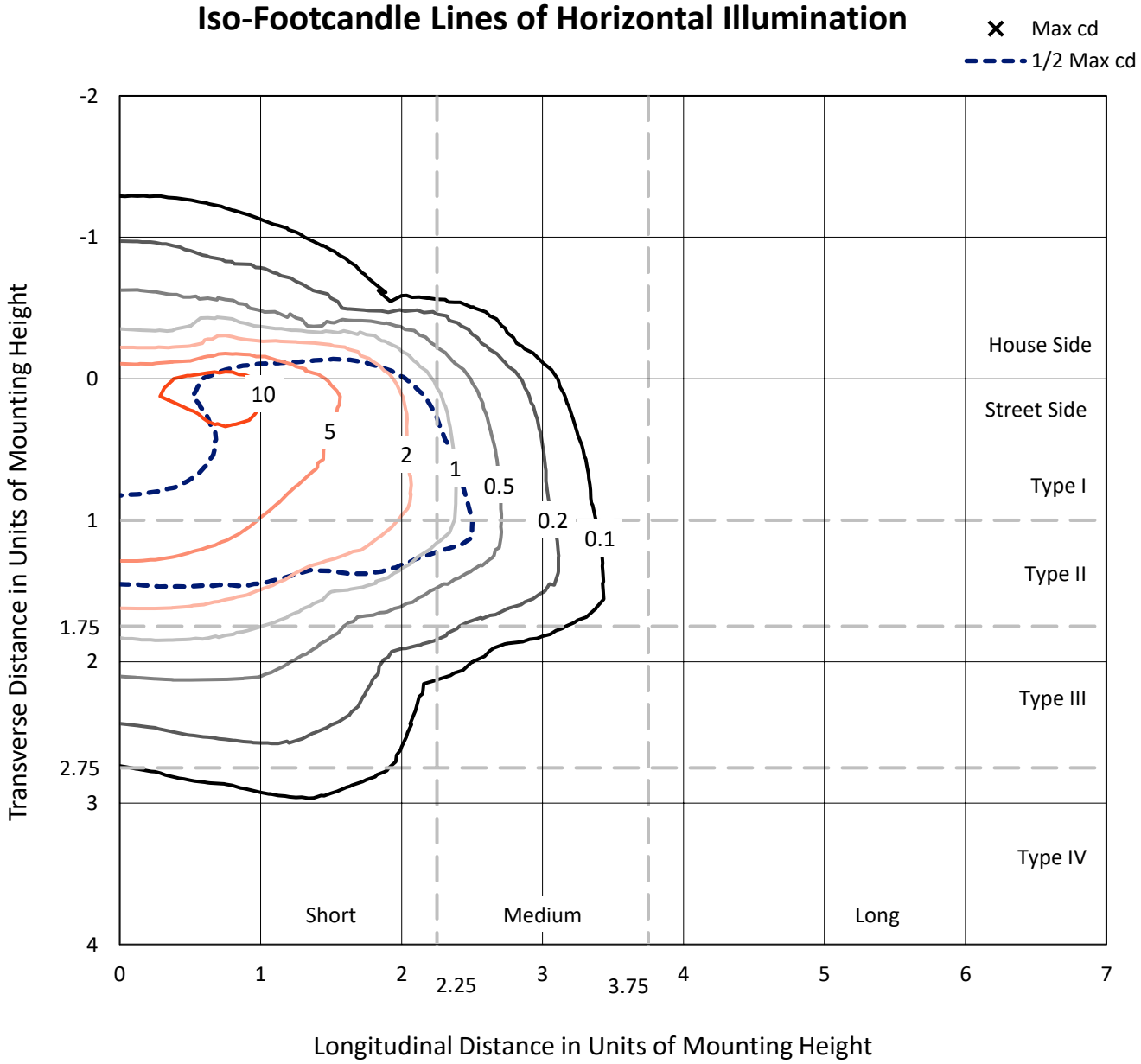
Input Watts (W):	252
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	7.9%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P1501799
CATALOG NUMBER: GSS-SB5C-730-U-T2LG-HSS

Iso-Footcandle Lines of Horizontal Illumination



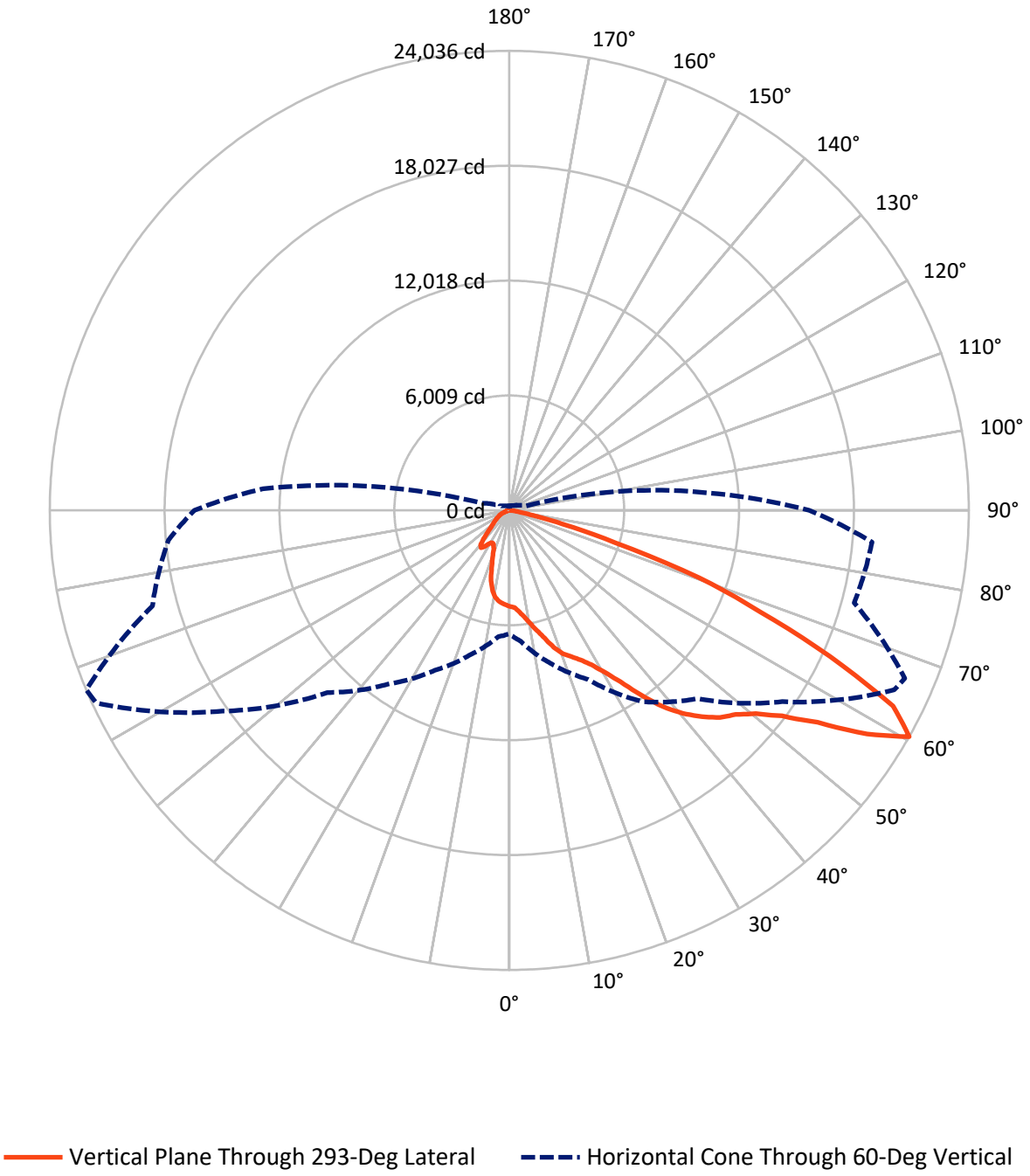
Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
Type II - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1501799
CATALOG NUMBER: GSS-SB5C-730-U-T2LG-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

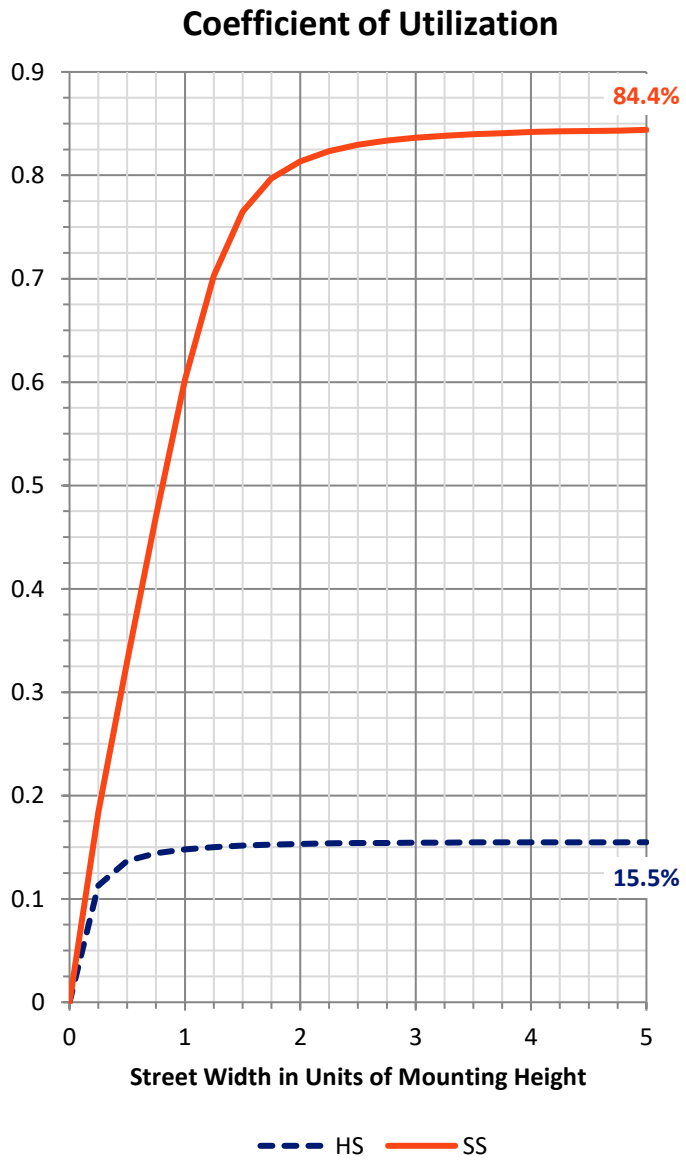
REPORT NUMBER: P1501799
CATALOG NUMBER: GSS-SB5C-730-U-T2LG-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4573.5	0.0	4573.5
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	24739.0	0.0	24739.0
	% Fixture	84.4	0.0	84.4
Total	Lumens	29312.5	0.0	29312.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.8	1.6
10°-20°	1145.7	3.9
20°-30°	2138.8	7.3
30°-40°	4241.4	14.5
40°-50°	6762.4	23.1
50°-60°	8079.3	27.6
60°-70°	5296.5	18.1
70°-80°	1109.7	3.8
80°-90°	83.9	0.3
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°	29312.5	100.0
0°-180°	29312.5	100.0



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

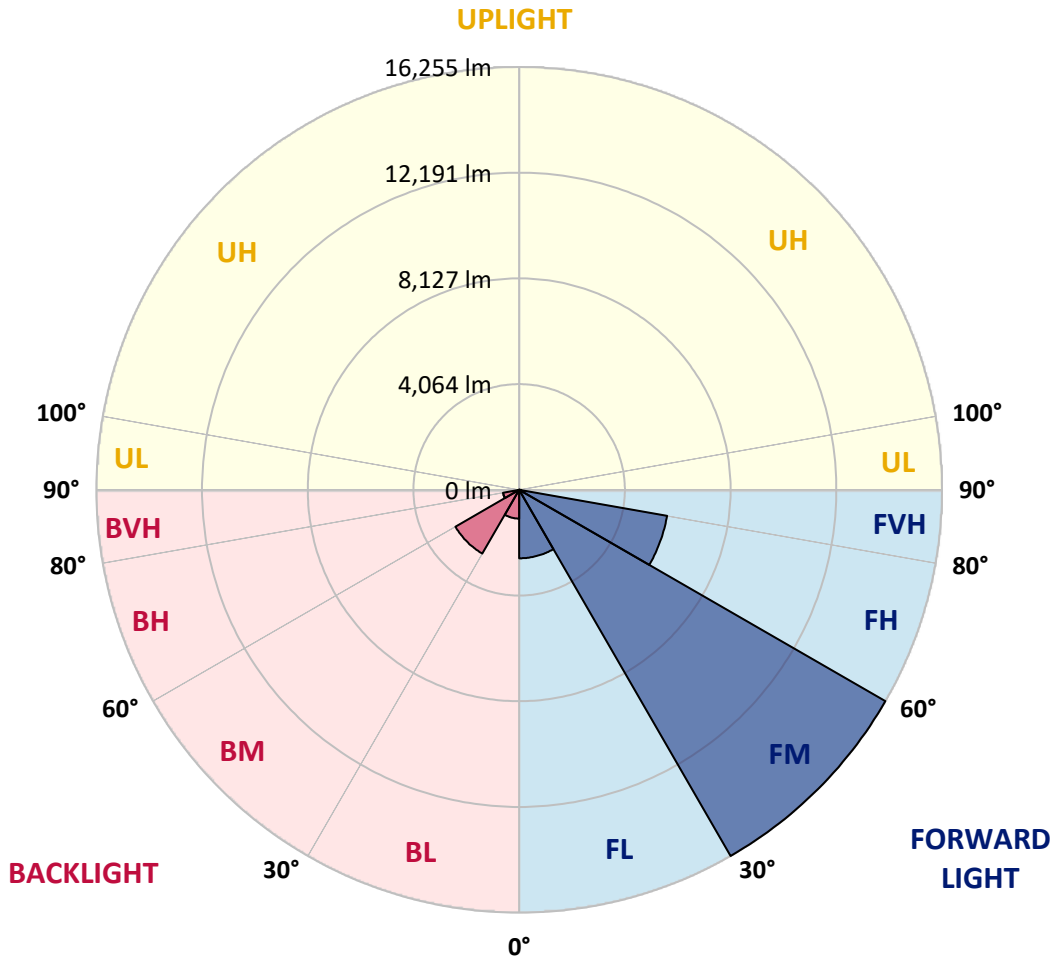
Scaled Data Report

REPORT NUMBER: P1501799
CATALOG NUMBER: GSS-SB5C-730-U-T2LG-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2632.9	9.0			
FM	(30°-60°)	16254.9	55.5			
FH	(60°-80°)	5774.4	19.7			G3/7500
FVH	(80°-90°)	76.9	0.3			G1/100
BL	(0°-30°)	1106.5	3.8	B3/2500		
BM	(30°-60°)	2828.2	9.6	B3/5000		
BH	(60°-80°)	631.8	2.2	B2/1000		G2/1000
BVH	(80°-90°)	7.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Short



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

Scaled Data Report

REPORT NUMBER: P1501799
CATALOG NUMBER: GSS-SB5C-730-U-T2LG-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9
2.5°	5278.3	5261.9	5237.3	5245.5	5237.3	5204.5	5155.2	5114.2	5147.0	5097.7	5064.9
5°	5434.3	5434.3	5417.9	5417.9	5426.1	5409.7	5376.8	5319.4	5327.6	5286.6	5179.8
7.5°	5434.3	5409.7	5450.7	5491.8	5565.7	5606.7	5623.1	5590.3	5606.7	5524.6	5385.1
10°	5114.2	5097.7	5204.5	5360.4	5573.9	5762.7	5885.8	5894.0	5918.6	5836.5	5672.4
12.5°	4432.8	4400.0	4613.4	4908.9	5344.0	5779.1	6123.9	6255.2	6312.7	6279.8	6050.0
15°	3800.7	3841.8	3989.5	4309.7	4892.5	5557.4	6255.2	6690.3	6772.4	6813.4	6542.5
17.5°	3735.1	3743.3	3792.5	3948.5	4391.8	5196.3	6271.6	7141.8	7256.7	7437.3	7067.9
20°	3915.7	3899.2	3948.5	3997.7	4211.2	4876.1	6115.7	7576.8	7798.5	8184.3	7782.1
22.5°	4252.2	4252.2	4276.9	4309.7	4416.4	4851.5	6050.0	7979.1	8356.7	9144.7	8676.8
25°	4818.6	4753.0	4769.4	4728.3	4818.6	5147.0	6197.7	8299.2	8816.4	10211.9	9744.0
27.5°	5697.0	5721.6	5573.9	5352.2	5401.5	5680.6	6558.9	8660.4	9292.5	11320.1	10827.6
30°	6911.9	6870.9	6780.6	6345.5	6148.5	6394.8	7223.9	9251.5	9932.8	12723.8	12272.3
32.5°	7864.2	7979.1	7823.1	7519.4	7215.6	7289.5	8159.7	10203.7	10712.7	14012.6	13766.4
35°	9013.4	9013.4	9046.2	8619.4	8414.2	8397.7	9333.6	11238.0	11747.0	15178.3	15350.7
37.5°	10564.9	10458.2	10277.6	9801.5	9645.5	9850.7	10433.5	12305.2	12855.2	16122.3	16582.0
40°	11870.1	11944.0	11919.4	11229.8	10926.1	11147.7	11664.9	13216.4	13643.2	16729.8	17575.3
42.5°	13150.7	13191.7	13085.0	12756.7	12313.4	12329.8	12756.7	13905.9	14341.0	17312.6	18511.1
45°	14111.1	14102.9	14029.1	13947.0	13684.3	13413.4	13487.3	14669.4	15047.0	17501.4	19020.1
47.5°	14414.9	14480.6	14546.2	14776.1	14956.7	14529.8	14152.2	15079.8	15424.6	17468.6	19208.9
50°	14135.8	14275.3	14595.5	14940.3	15555.9	15523.1	14710.4	15523.1	15859.7	17649.2	19430.5
52.5°	13511.9	13651.4	14078.3	14702.2	15629.8	16089.5	15744.7	16270.1	16664.1	18108.9	19890.2
55°	12058.9	12116.4	12994.7	13815.6	15260.4	15843.2	16852.9	17534.3	17862.6	18667.1	20497.7
57.5°	9817.9	9957.4	10819.4	12157.4	14226.1	15194.7	17485.0	19693.2	19685.0	19200.7	20629.0
60°	*6460.4*	*6870.9*	*8274.6*	*9752.2*	*12223.1*	*13922.3*	*17444.0*	*22221.6*	*22476.0*	*18675.3*	*19044.7*
62.5°	4933.6	5106.0	5902.2	7133.6	9046.2	11541.8	17173.1	22976.8	23173.8	17263.4	16672.3
65°	3710.4	3923.9	4687.3	5787.3	6386.5	7823.1	15400.0	19972.3	20243.2	15408.2	12961.9
67.5°	2273.9	2446.3	3464.2	4753.0	4835.1	4859.7	10392.5	15129.1	15227.6	12428.3	8726.1
70°	1518.7	1691.0	2397.0	3653.0	3850.0	2799.2	5705.2	11451.5	11443.2	8504.5	5303.0
72.5°	878.4	960.4	1518.7	2692.5	3029.1	1781.3	2848.5	7281.3	6961.2	3997.7	2479.1
75°	500.7	558.2	837.3	1732.1	2126.1	1132.8	1124.6	3899.2	3447.8	2060.4	1354.5
77.5°	303.7	328.4	459.7	1132.8	1280.6	763.4	623.9	1814.2	1748.5	1206.7	714.2
80°	147.8	172.4	279.1	664.9	820.9	410.4	377.6	714.2	763.4	664.9	377.6
82.5°	49.3	65.7	156.0	254.5	533.6	164.2	156.0	394.0	418.7	394.0	180.6
85°	24.6	32.8	73.9	82.1	205.2	82.1	57.5	172.4	213.4	131.3	73.9
87.5°	0.0	8.2	8.2	8.2	8.2	8.2	8.2	16.4	16.4	16.4	16.4
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: P1501799
CATALOG NUMBER: GSS-SB5C-730-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9
2.5°	5040.3	5023.9	4991.0	4933.6	4925.4	4884.3	4818.6	4777.6	4744.8	4769.4	4777.6
5°	5130.6	5089.5	4991.0	4835.1	4670.9	4506.7	4350.7	4170.1	4047.0	4030.6	3997.7
7.5°	5294.8	5212.7	4999.2	4695.5	4276.9	3882.8	3423.1	2979.8	2758.2	2725.4	2651.5
10°	5557.4	5417.9	5064.9	4449.2	3644.8	2823.9	2126.1	1650.0	1379.1	1329.8	1346.3
12.5°	5869.4	5672.4	5073.1	4030.6	2774.6	1748.5	1206.7	1026.1	968.7	944.0	944.0
15°	6271.6	5984.3	5064.9	3488.8	1871.6	1124.6	968.7	894.8	870.1	853.7	853.7
17.5°	6780.6	6403.0	5007.4	2676.1	1264.2	976.9	886.6	829.1	796.3	788.1	788.1
20°	7379.8	6870.9	4876.1	1994.8	1059.0	911.2	837.3	763.4	738.8	722.4	722.4
22.5°	8143.3	7437.3	4621.6	1551.5	1001.5	870.1	788.1	706.0	681.3	664.9	664.9
25°	9029.8	8159.7	4285.1	1395.5	993.3	837.3	738.8	656.7	632.1	623.9	615.7
27.5°	10080.6	8931.3	3973.1	1403.7	1009.7	812.7	689.6	615.7	591.0	566.4	574.6
30°	11320.1	9727.6	3718.6	1502.2	1026.1	788.1	656.7	591.0	566.4	533.6	533.6
32.5°	12543.2	10663.4	3694.0	1682.8	1083.6	771.6	623.9	558.2	533.6	509.0	509.0
35°	13799.2	11517.1	3833.6	1920.9	1198.5	747.0	582.8	525.4	500.7	484.3	476.1
37.5°	14997.7	12198.5	3964.9	2068.7	1132.8	640.3	533.6	484.3	459.7	426.9	426.9
40°	15794.0	12567.9	3989.5	1953.7	935.8	574.6	484.3	435.1	402.2	385.8	377.6
42.5°	16376.8	12805.9	3710.4	1584.3	812.7	525.4	443.3	394.0	369.4	353.0	353.0
45°	16614.9	12723.8	3234.3	1206.7	747.0	484.3	402.2	361.2	344.8	328.4	328.4
47.5°	16582.0	12346.2	2750.0	968.7	681.3	443.3	377.6	344.8	328.4	311.9	303.7
50°	16524.6	11993.2	2257.5	861.9	607.5	418.7	353.0	328.4	303.7	287.3	279.1
52.5°	16902.2	11878.3	1871.6	788.1	566.4	402.2	344.8	311.9	287.3	270.9	270.9
55°	17279.8	11927.6	1469.4	738.8	525.4	394.0	336.6	303.7	279.1	254.5	254.5
57.5°	17255.2	11714.1	1116.4	689.6	492.5	385.8	328.4	295.5	254.5	238.1	238.1
60°	*15687.3*	*10450.0*	*870.1*	*632.1*	*451.5*	*361.2*	*303.7*	*279.1*	*238.1*	*213.4*	*213.4*
62.5°	13265.6	8217.1	714.2	558.2	402.2	328.4	279.1	254.5	213.4	172.4	172.4
65°	9801.5	5926.8	574.6	484.3	369.4	287.3	254.5	221.6	172.4	139.6	131.3
67.5°	6632.8	3644.8	459.7	402.2	328.4	246.3	213.4	188.8	156.0	114.9	106.7
70°	3932.1	1937.3	336.6	279.1	246.3	180.6	180.6	164.2	131.3	98.5	90.3
72.5°	1871.6	673.1	246.3	205.2	188.8	131.3	139.6	139.6	106.7	73.9	65.7
75°	952.2	328.4	164.2	147.8	123.1	98.5	114.9	106.7	73.9	49.3	49.3
77.5°	541.8	229.9	114.9	98.5	82.1	65.7	73.9	65.7	41.0	24.6	24.6
80°	303.7	164.2	73.9	65.7	49.3	41.0	41.0	32.8	24.6	8.2	8.2
82.5°	114.9	98.5	49.3	32.8	24.6	24.6	16.4	16.4	8.2	0.0	0.0
85°	49.3	24.6	24.6	16.4	16.4	8.2	8.2	8.2	0.0	0.0	0.0
87.5°	8.2	8.2	8.2	8.2	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: P1501799
CATALOG NUMBER: GSS-SB5C-730-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9
2.5°	4711.9	4728.3	4744.8	4810.4	4826.9	4876.1	4917.1	4966.4	4974.6	5040.3	5040.3
5°	4063.4	4055.2	4194.8	4400.0	4531.3	4711.9	4851.5	4999.2	5081.3	5188.0	5237.3
7.5°	2692.5	2897.8	3209.7	3570.9	4038.8	4473.9	4802.2	5089.5	5286.6	5409.7	5458.9
10°	1338.1	1453.0	1781.3	2372.4	3168.6	4055.2	4753.0	5286.6	5606.7	5746.3	5836.5
12.5°	944.0	968.7	1026.1	1346.3	2109.7	3365.7	4597.0	5500.0	5943.3	6206.0	6320.9
15°	845.5	861.9	886.6	976.9	1305.2	2511.9	4317.9	5738.0	6468.6	6772.4	6920.1
17.5°	779.8	788.1	812.7	886.6	1026.1	1707.5	3866.4	5992.5	7100.7	7470.1	7749.2
20°	722.4	722.4	747.0	837.3	952.2	1313.4	3217.9	6279.8	7905.2	8438.8	8717.9
22.5°	656.7	673.1	689.6	788.1	927.6	1198.5	2610.4	6501.5	8800.0	9448.5	9776.8
25°	607.5	623.9	640.3	738.8	903.0	1198.5	2257.5	6641.0	9801.5	10573.1	11024.6
27.5°	566.4	582.8	607.5	706.0	878.4	1247.8	2117.9	6682.1	10893.2	11894.7	12502.2
30°	533.6	550.0	574.6	681.3	894.8	1305.2	2167.2	6624.6	12001.5	13257.4	13979.8
32.5°	500.7	517.2	541.8	656.7	894.8	1379.1	2331.3	6509.7	13076.8	14620.1	15506.7
35°	476.1	484.3	492.5	591.0	812.7	1370.9	2536.6	6394.8	14160.4	15966.4	17000.7
37.5°	426.9	435.1	451.5	509.0	648.5	1247.8	2577.6	6255.2	15014.1	17099.2	18240.2
40°	377.6	394.0	410.4	467.9	541.8	1009.7	2397.0	5959.7	15465.6	17969.3	19356.7
42.5°	344.8	353.0	369.4	426.9	500.7	804.5	2011.2	5442.5	15867.9	18560.4	20169.3
45°	320.1	328.4	344.8	385.8	467.9	697.8	1584.3	4810.4	15900.7	18749.2	20563.4
47.5°	295.5	303.7	311.9	353.0	451.5	623.9	1214.9	4235.8	15892.5	18995.5	20899.9
50°	279.1	287.3	303.7	336.6	426.9	558.2	1001.5	3767.9	16237.3	19529.0	21581.3
52.5°	270.9	270.9	295.5	328.4	402.2	509.0	837.3	3349.2	16417.9	20054.4	22073.8
55°	254.5	262.7	279.1	311.9	377.6	484.3	714.2	2823.9	16499.9	20317.1	22164.1
57.5°	238.1	246.3	270.9	295.5	361.2	459.7	615.7	2109.7	15326.1	18946.2	20653.7
60°	*213.4*	*229.9*	*262.7*	*287.3*	*336.6*	*418.7*	*541.8*	*1428.4*	*12929.1*	*16467.1*	*17895.5*
62.5°	172.4	205.2	238.1	254.5	303.7	353.0	459.7	952.2	10326.8	13626.8	15252.2
65°	131.3	172.4	197.0	221.6	254.5	295.5	385.8	648.5	6887.3	9169.4	11000.0
67.5°	114.9	147.8	164.2	180.6	213.4	254.5	311.9	451.5	4178.3	5508.2	7314.2
70°	90.3	123.1	139.6	131.3	164.2	197.0	221.6	303.7	2134.3	2988.1	4161.9
72.5°	65.7	98.5	106.7	106.7	98.5	139.6	164.2	213.4	927.6	1453.0	1888.1
75°	49.3	65.7	73.9	65.7	57.5	90.3	114.9	139.6	607.5	870.1	1100.0
77.5°	24.6	24.6	41.0	41.0	24.6	49.3	57.5	82.1	344.8	509.0	632.1
80°	8.2	0.0	0.0	8.2	0.0	16.4	24.6	41.0	180.6	270.9	394.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	90.3	82.1	205.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4	49.3
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: P1501799
CATALOG NUMBER: GSS-SB5C-730-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9	5023.9
2.5°	5081.3	5081.3	5114.2	5163.4	5188.0	5204.5	5212.7	5229.1	5294.8	5278.3
5°	5294.8	5311.2	5335.8	5385.1	5442.5	5426.1	5426.1	5426.1	5467.1	5434.3
7.5°	5573.9	5623.1	5631.3	5688.8	5647.7	5565.7	5516.4	5442.5	5434.3	5434.3
10°	6025.4	6008.9	6008.9	5935.1	5787.3	5549.2	5335.8	5188.0	5106.0	5114.2
12.5°	6509.7	6444.0	6452.2	6181.3	5762.7	5237.3	4802.2	4482.1	4457.4	4432.8
15°	7108.9	6936.5	6903.7	6279.8	5393.3	4588.8	4161.9	3907.5	3825.4	3800.7
17.5°	7962.7	7527.6	7371.6	6107.4	4908.9	4186.6	3866.4	3751.5	3743.3	3735.1
20°	8865.6	8003.7	7708.2	5853.0	4744.8	4194.8	3956.7	3923.9	3907.5	3915.7
22.5°	9916.4	8307.4	7929.8	5894.0	4892.5	4465.7	4276.9	4252.2	4235.8	4252.2
25°	11000.0	8660.4	8192.5	6222.4	5335.8	4966.4	4744.8	4695.5	4744.8	4818.6
27.5°	12091.8	9136.5	8709.7	6870.9	6050.0	5647.7	5434.3	5614.9	5688.8	5697.0
30°	13060.4	9801.5	9407.4	7782.1	6862.7	6460.4	6501.5	6731.3	6821.6	6911.9
32.5°	13947.0	10688.0	10384.3	8816.4	7913.4	7675.3	7650.7	7823.1	7921.6	7864.2
35°	14841.7	11845.5	11550.0	9941.0	9202.2	9005.2	8800.0	9136.5	9103.7	9013.4
37.5°	15687.3	13011.2	12740.3	11147.7	10384.3	10039.5	10006.7	10310.4	10581.3	10564.9
40°	16294.7	13955.2	13626.8	12346.2	11623.8	11328.3	11500.7	12026.1	11960.4	11870.1
42.5°	16852.9	14759.7	14464.1	13397.0	12641.8	12773.1	12929.1	13282.0	13241.0	13150.7
45°	17115.6	15449.2	15194.7	14193.2	13823.8	14242.5	14234.3	14365.6	14144.0	14111.1
47.5°	17485.0	15941.7	15679.1	14907.4	15235.8	15408.2	14923.8	14784.3	14579.1	14414.9
50°	18166.4	16705.2	16442.5	15991.0	16270.1	15736.5	15145.5	14841.7	14423.1	14135.8
52.5°	18962.6	17862.6	17632.8	17452.2	16672.3	15572.3	14817.1	14267.1	13758.2	13511.9
55°	19964.1	19570.1	19405.9	18412.6	16311.1	14899.2	14012.6	12986.5	12288.8	12058.9
57.5°	20292.5	22073.8	22016.3	18568.6	15301.4	13676.1	12075.3	10688.0	9965.6	9817.9
60°	19323.8	24035.7	23830.5	18305.9	13470.9	11098.5	9226.8	7806.7	6632.8	6460.4
62.5°	18084.3	22533.5	22459.6	16984.3	10261.2	7954.5	6895.5	5565.7	5064.9	4933.6
65°	15490.2	18437.3	18470.1	13626.8	6493.3	5713.4	5664.2	4424.6	3808.9	3710.4
67.5°	11927.6	14144.0	13914.1	8570.1	3784.3	4572.4	4523.1	3234.3	2339.5	2273.9
70°	6969.4	10532.1	10162.7	4457.4	2503.7	3817.2	3480.6	2273.9	1592.5	1518.7
72.5°	3078.3	5795.5	6222.4	1961.9	1764.9	3037.3	2511.9	1395.5	894.8	878.4
75°	1707.5	2873.1	3004.5	853.7	1239.5	2158.9	1518.7	779.8	509.0	500.7
77.5°	1026.1	1272.4	1239.5	550.0	927.6	1379.1	919.4	443.3	320.1	303.7
80°	574.6	582.8	492.5	402.2	550.0	771.6	517.2	279.1	147.8	147.8
82.5°	353.0	320.1	254.5	123.1	147.8	467.9	188.8	156.0	49.3	49.3
85°	147.8	98.5	65.7	24.6	57.5	123.1	65.7	73.9	24.6	24.6
87.5°	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

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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

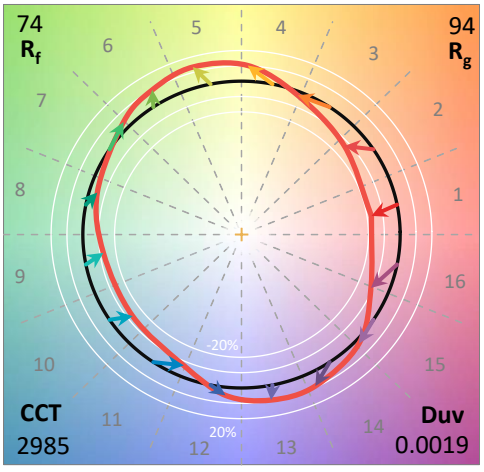
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-4
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-730-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985
CIE u':	0.2504
CIE v':	0.5243
Duv:	0.0019
CIE x:	0.4408
CIE y:	0.4101
CIE z:	0.1491
Peak Wavelength (nm):	595
Dominant Wavelength (nm):	582
Purity:	55.41818
Rf:	73.8
Rg:	94.4

CRI (Ra):	70.8
R1:	66.3
R2:	80.6
R3:	94.5
R4:	68.2
R5:	66.5
R6:	74.7
R7:	76.2
R8:	39.6
R9:	-43.2
R10:	57.6
R11:	64.8
R12:	53.5
R13:	68.7
R14:	97.0
R15:	56.4



Test Conditions

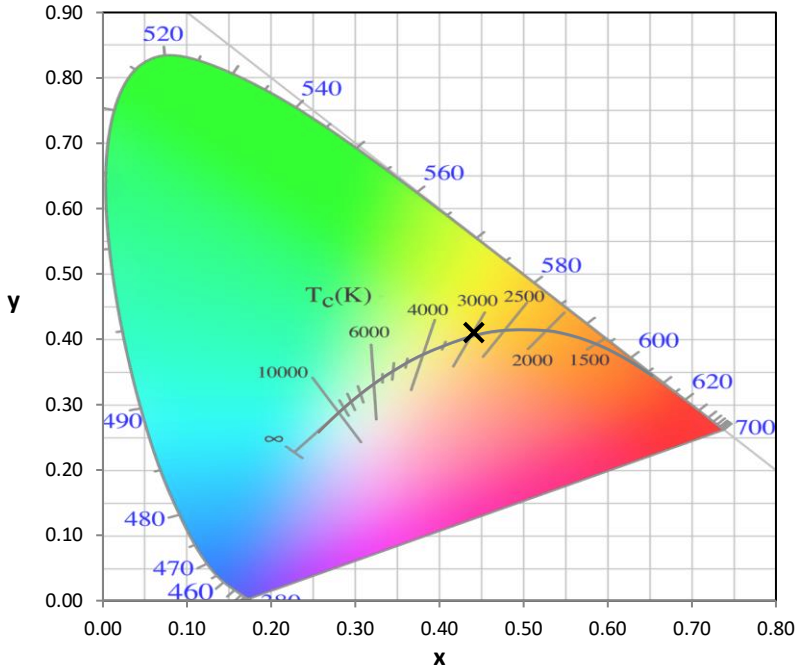
Stabilization Time:	36M
Operation Time:	1H 36M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-4

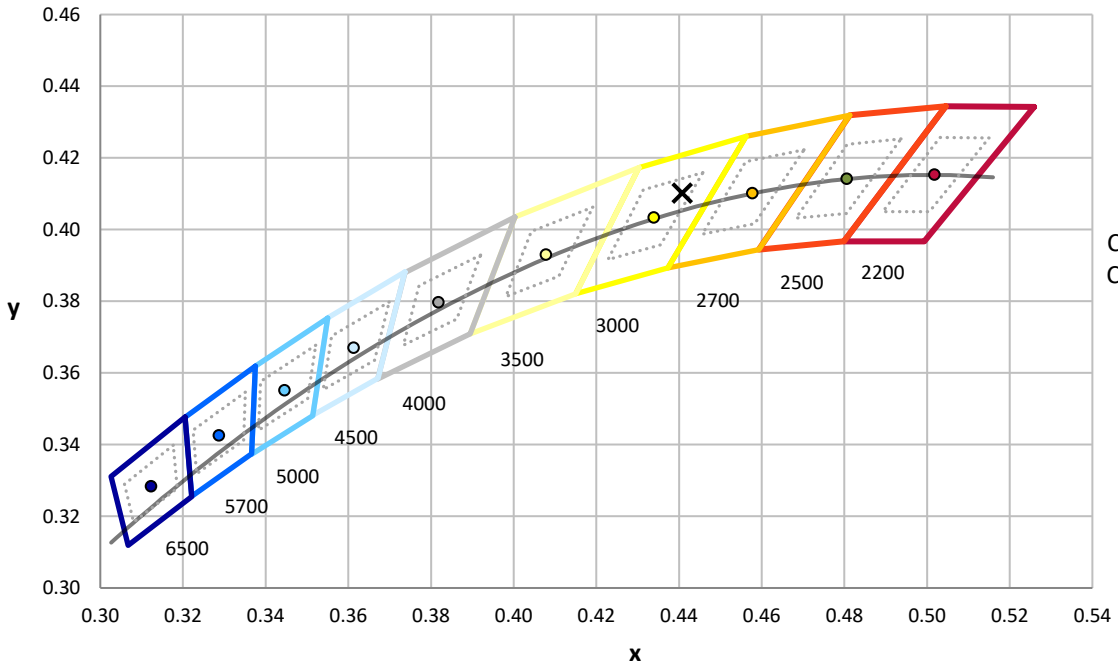
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



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

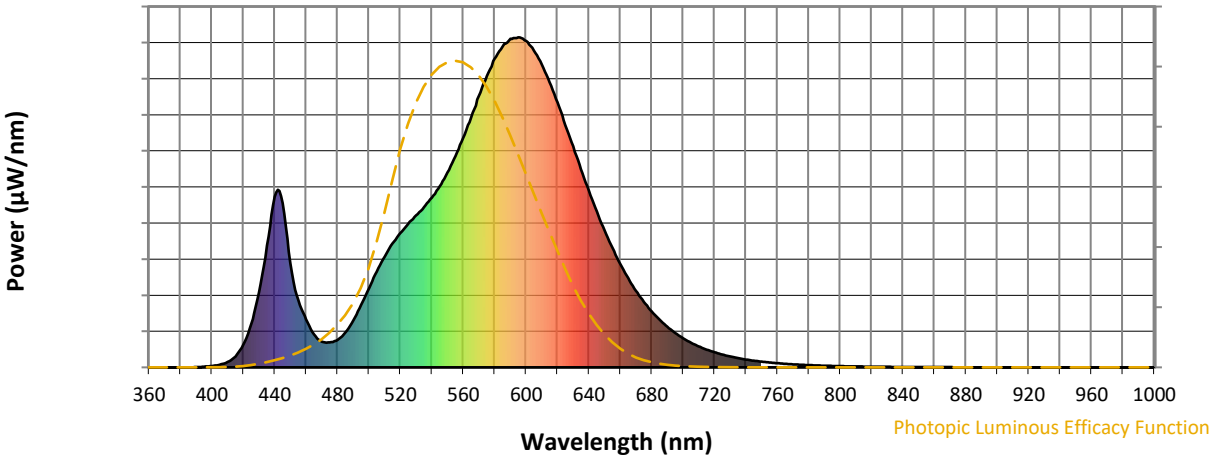


CCT = 2985K
CIE x = 0.4408
CIE y = 0.4101
Duv = 0.0019

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

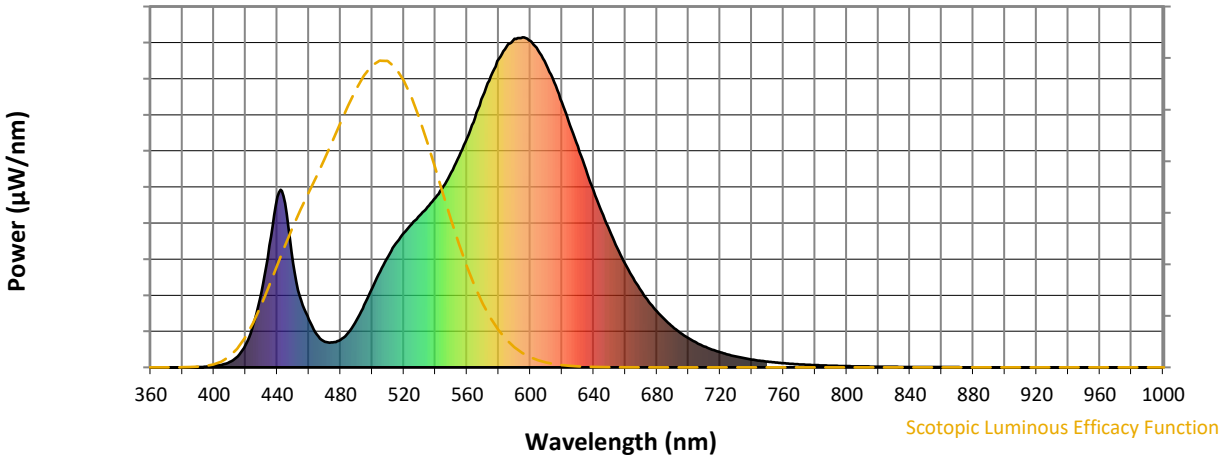


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength

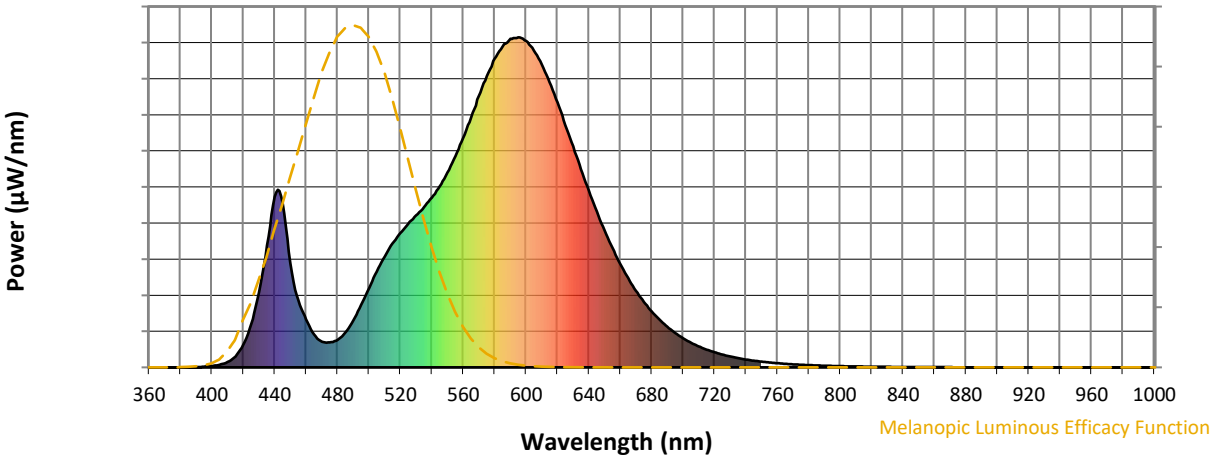


Scotopic Lumens: NR **S/P: 1.19**

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.13**

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

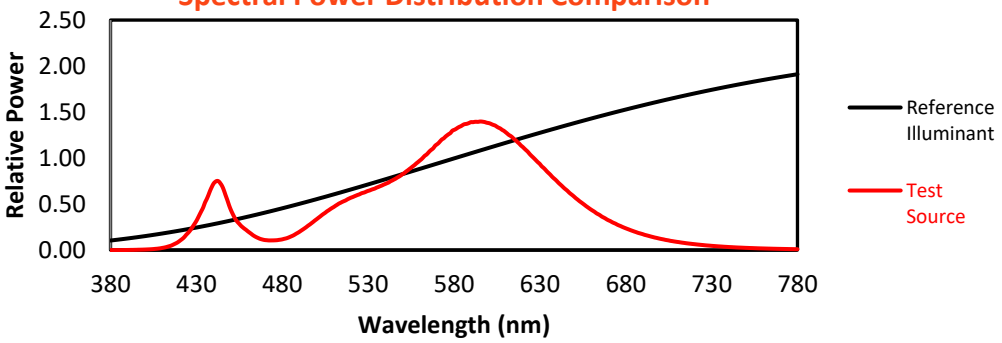
REPORT NUMBER: SP1-2407-184-4

TM-30-18

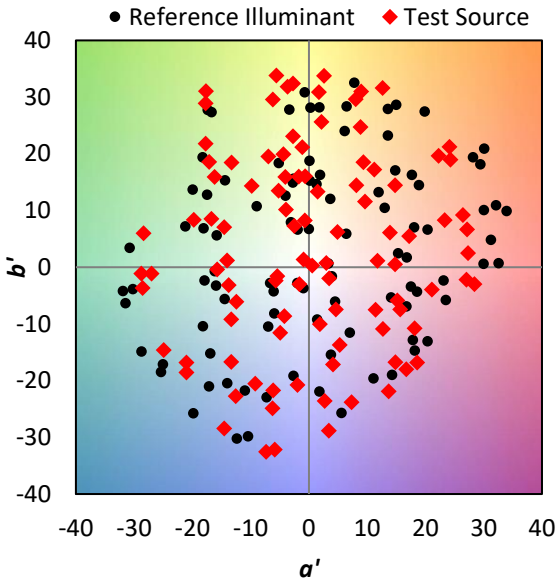
Summary

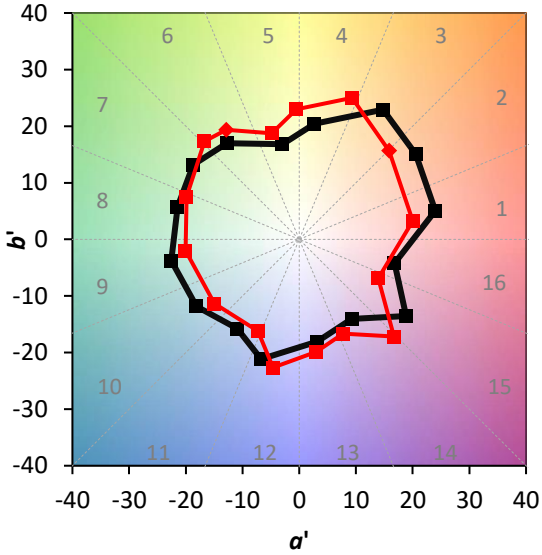
R_f = 73.8
R_g = 94.4
CIE R_a = 70.8
R_9 = -43.2

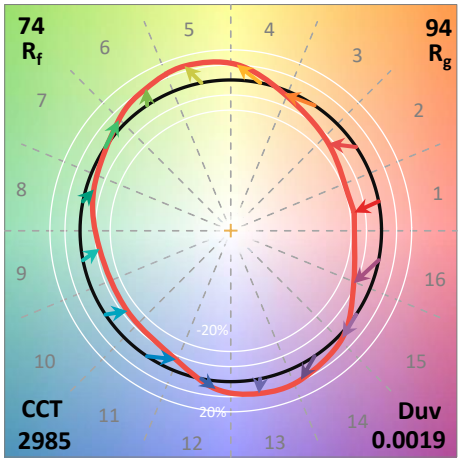
Spectral Power Distribution Comparison

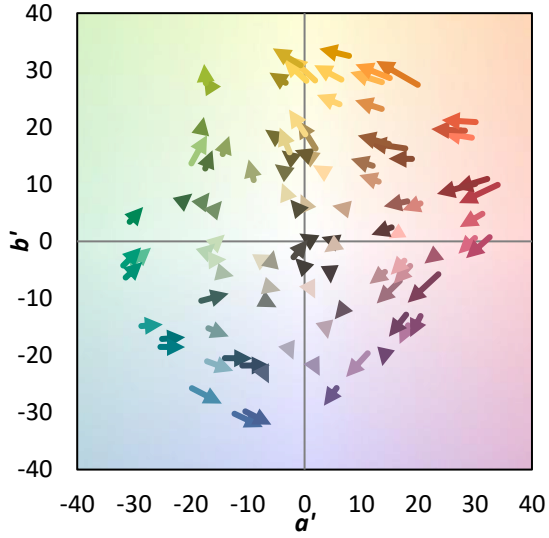


Color Vector Graphics







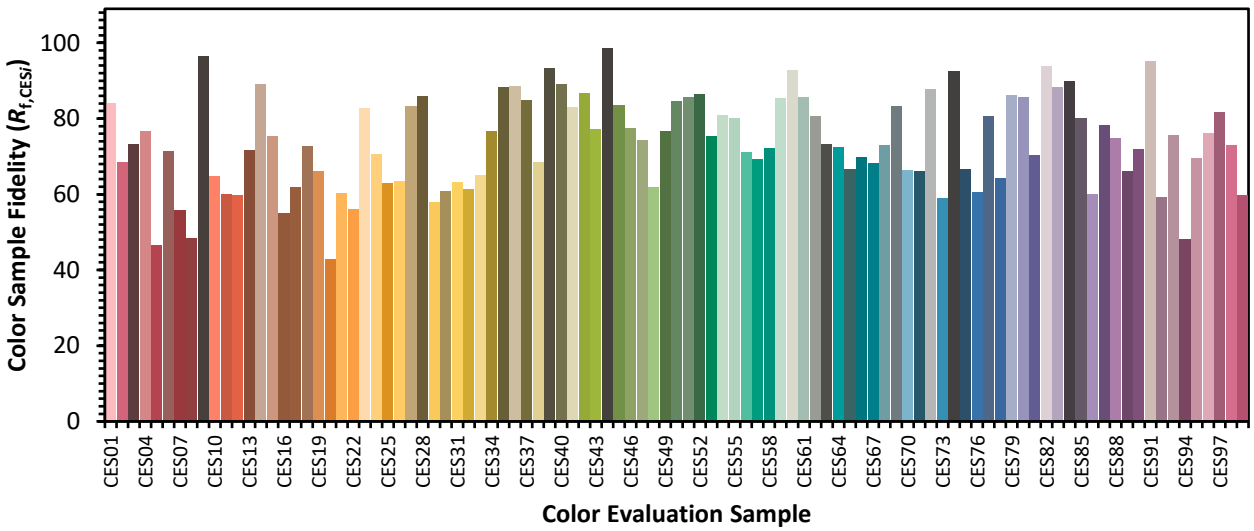


REPORT NUMBER: SP1-2407-184-4

TM-30-18

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

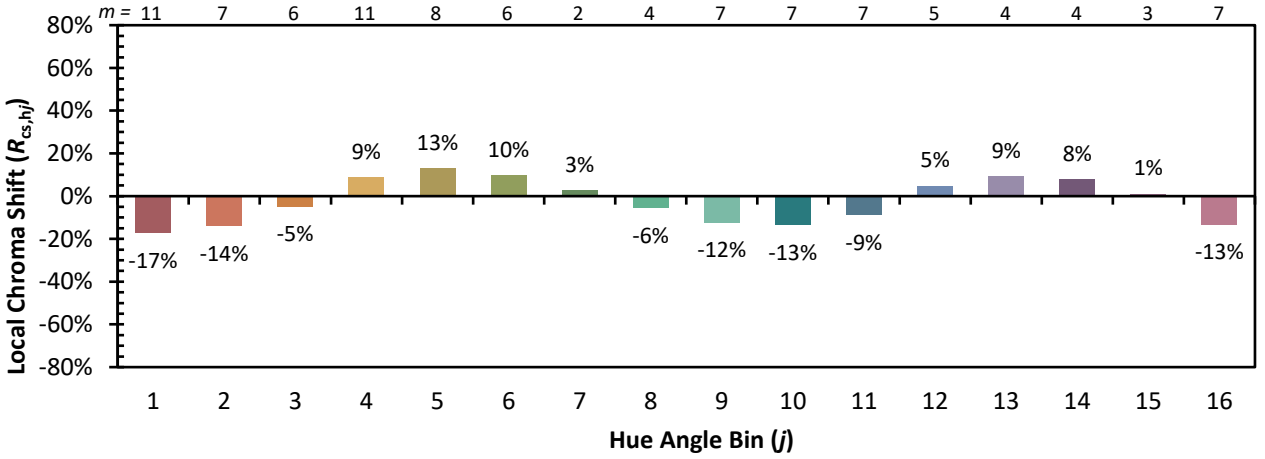
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	

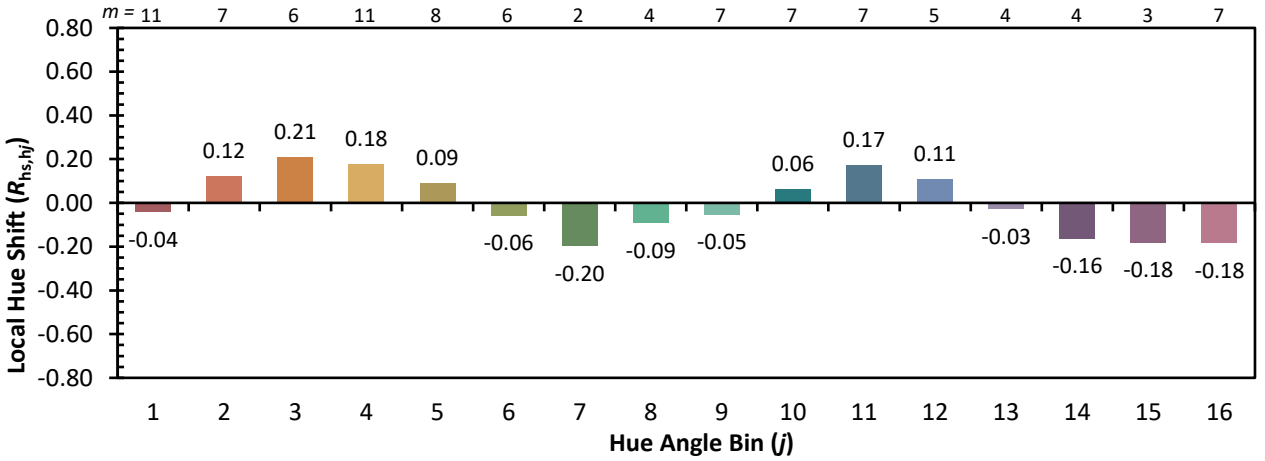


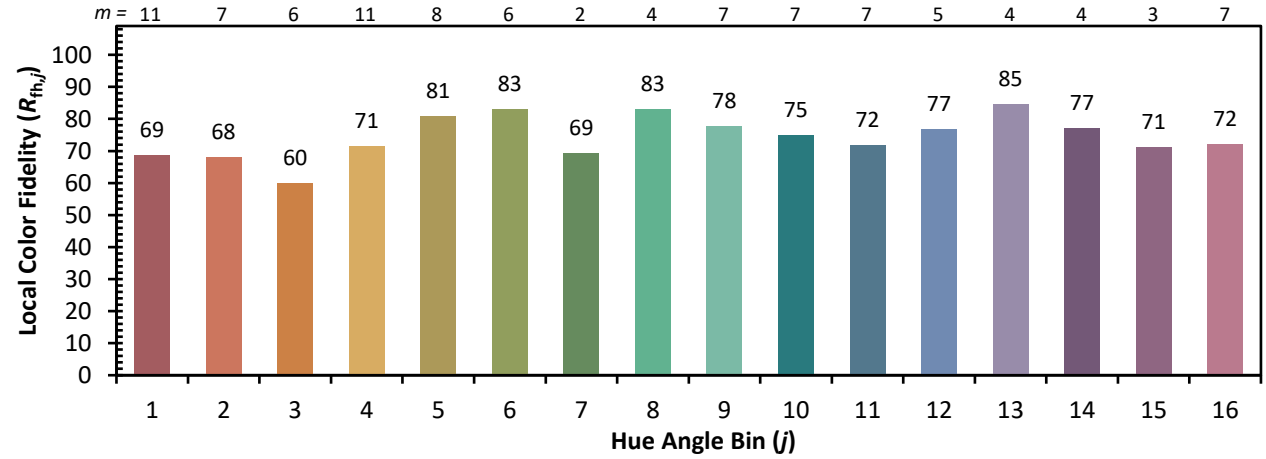
REPORT NUMBER: SP1-2407-184-4

TM-30-18

Color Rendition by Hue-Angle Bin



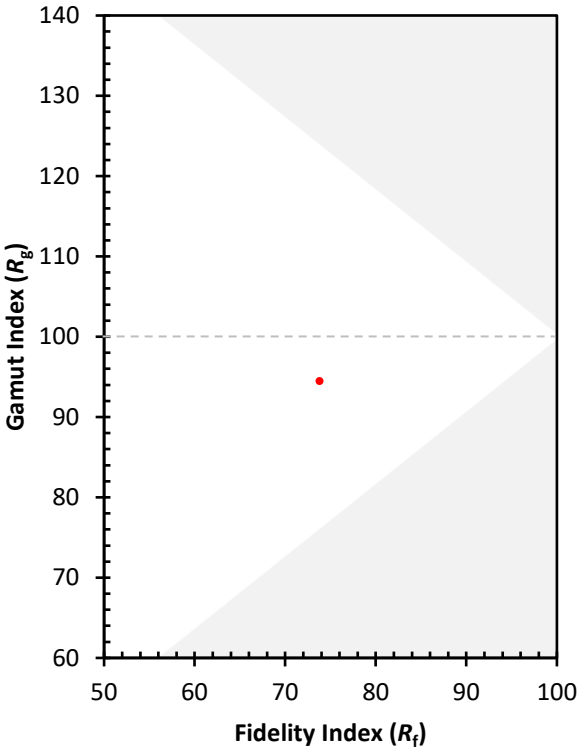


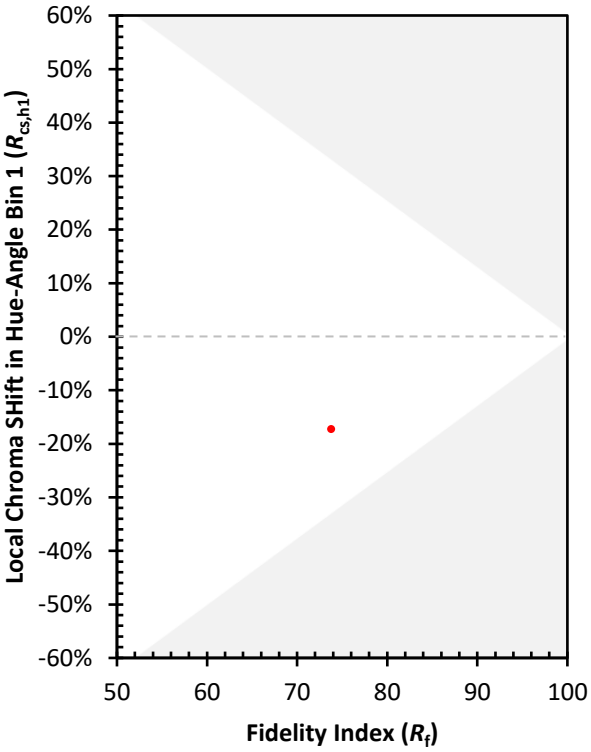


REPORT NUMBER: SP1-2407-184-4

TM-30-18

Measure Comparisons





(END OF REPORT)