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

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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: P1501915

Luminaire Tested: GSS-SB4C-830-U-T2LG-HSS

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501915
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4C-830-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 204W 80CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(104) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	21079.2 lumens
Efficiency:	N/A
Efficacy:	103.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

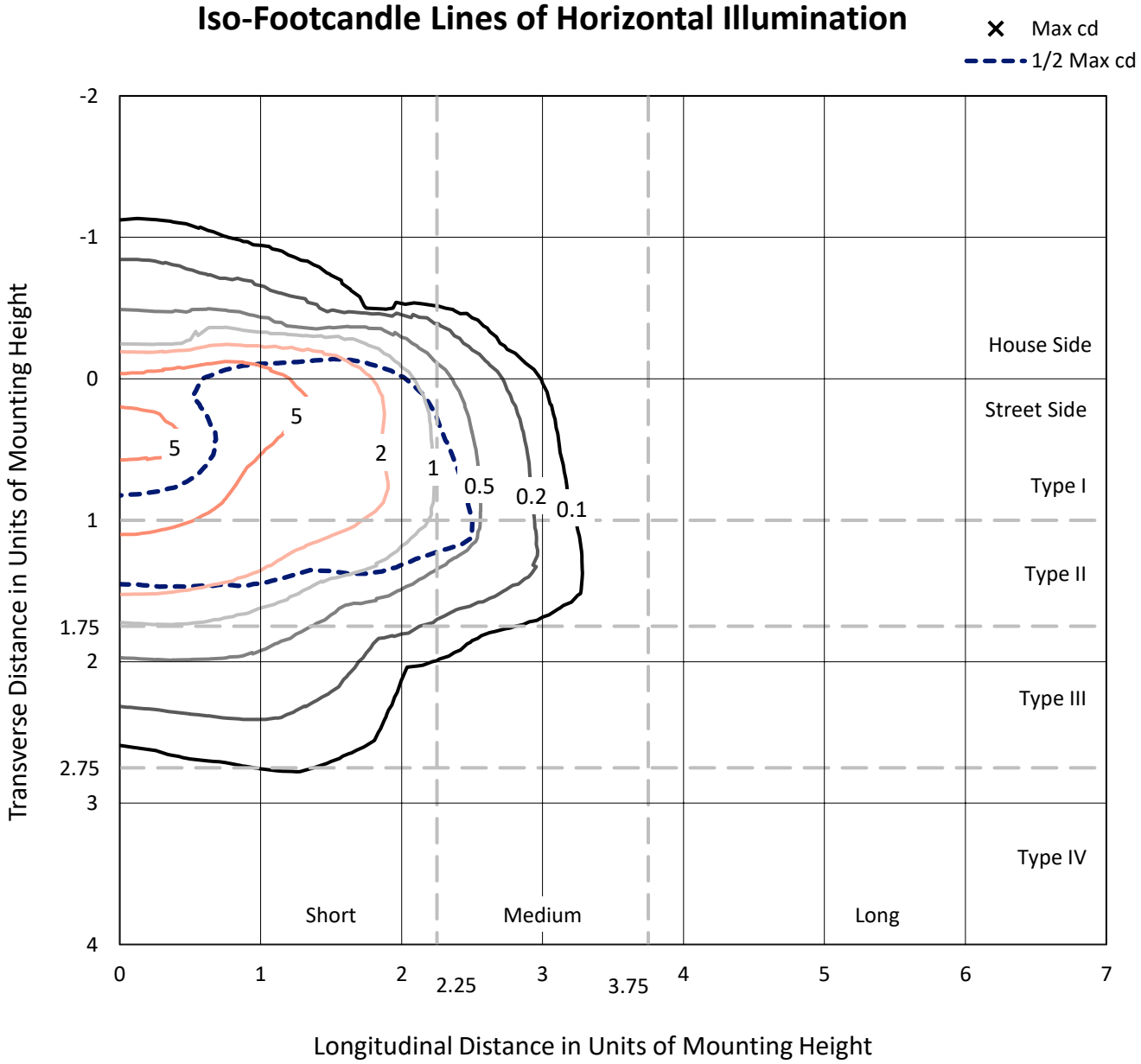
Input Watts (W):	204
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	9.5%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



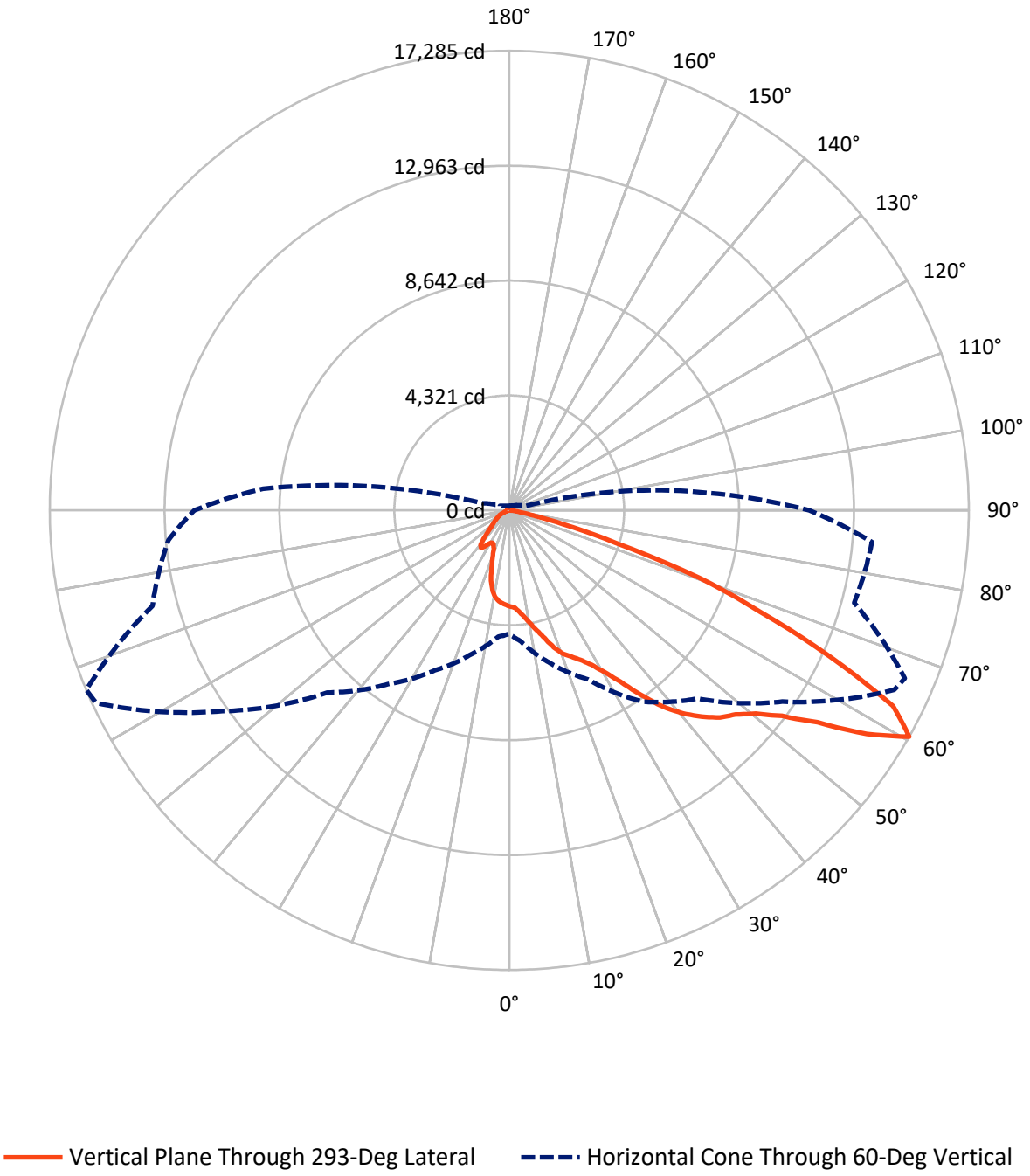
Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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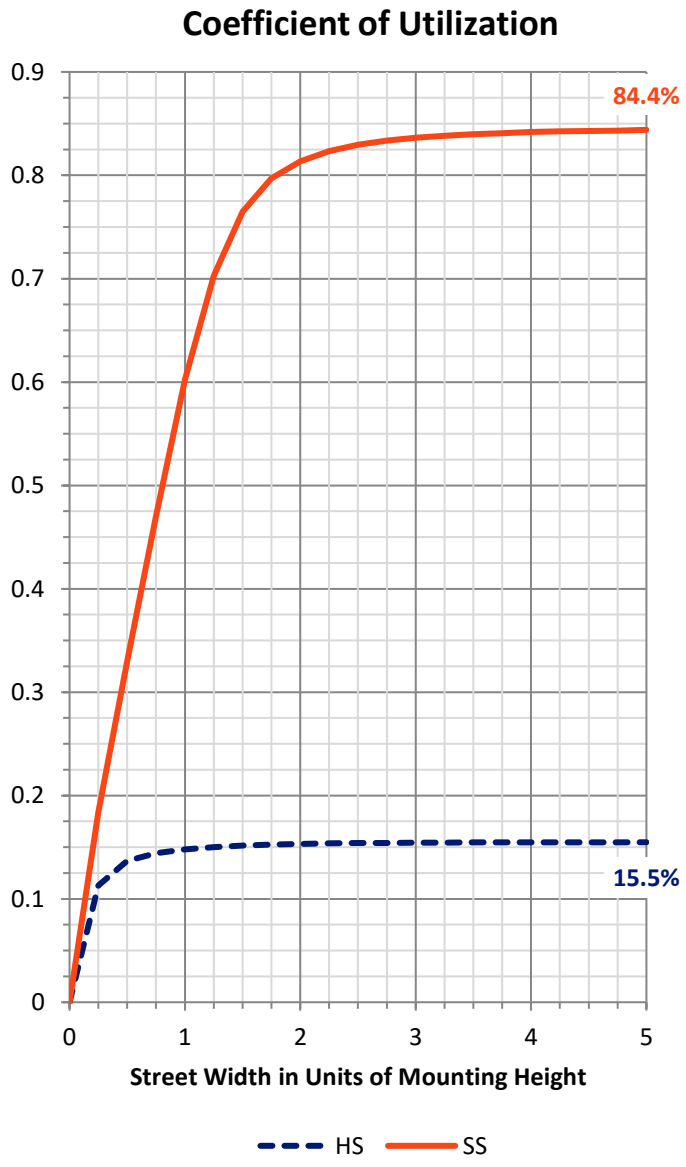
REPORT NUMBER: P1501915
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3288.9	0.0	3288.9
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	17790.3	0.0	17790.3
	% Fixture	84.4	0.0	84.4
Total	Lumens	21079.2	0.0	21079.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.1	1.6
10°-20°	823.9	3.9
20°-30°	1538.0	7.3
30°-40°	3050.1	14.5
40°-50°	4862.9	23.1
50°-60°	5810.0	27.6
60°-70°	3808.8	18.1
70°-80°	798.0	3.8
80°-90°	60.4	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°	21079.2	100.0
0°-180°	21079.2	100.0



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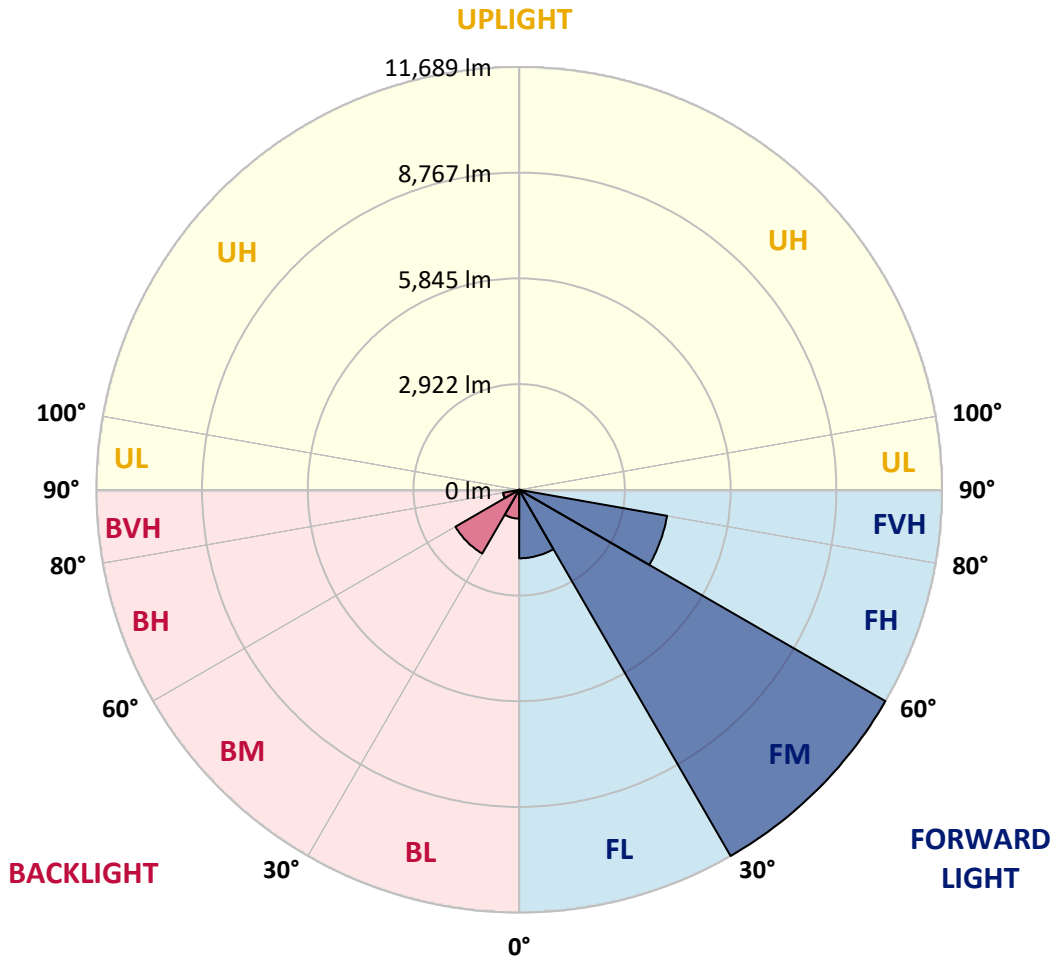
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1893.3	9.0			
FM	(30°-60°)	11689.2	55.5			
FH	(60°-80°)	4152.5	19.7			G2/5000
FVH	(80°-90°)	55.3	0.3			G1/100
BL	(0°-30°)	795.7	3.8	B2/1000		
BM	(30°-60°)	2033.8	9.6	B2/2500		
BH	(60°-80°)	454.3	2.2	B1/500		G1/500
BVH	(80°-90°)	5.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8
2.5°	3795.8	3783.9	3766.2	3772.1	3766.2	3742.6	3707.2	3677.7	3701.3	3665.9	3642.3
5°	3907.9	3907.9	3896.1	3896.1	3902.0	3890.2	3866.6	3825.3	3831.2	3801.7	3724.9
7.5°	3907.9	3890.2	3919.7	3949.2	4002.4	4031.9	4043.7	4020.1	4031.9	3972.8	3872.5
10°	3677.7	3665.9	3742.6	3854.8	4008.3	4144.0	4232.6	4238.5	4256.2	4197.2	4079.1
12.5°	3187.7	3164.1	3317.6	3530.1	3843.0	4155.8	4403.8	4498.2	4539.6	4515.9	4350.7
15°	2733.2	2762.7	2869.0	3099.2	3518.3	3996.5	4498.2	4811.1	4870.1	4899.7	4704.8
17.5°	2686.0	2691.9	2727.3	2839.4	3158.2	3736.7	4510.0	5135.8	5218.4	5348.3	5082.7
20°	2815.8	2804.0	2839.4	2874.9	3028.3	3506.5	4397.9	5448.6	5608.0	5885.5	5596.2
22.5°	3057.9	3057.9	3075.6	3099.2	3175.9	3488.8	4350.7	5737.9	6009.5	6576.2	6239.7
25°	3465.2	3417.9	3429.8	3400.2	3465.2	3701.3	4456.9	5968.1	6340.0	7343.6	7007.1
27.5°	4096.8	4114.5	4008.3	3848.9	3884.3	4085.0	4716.7	6227.9	6682.4	8140.5	7786.3
30°	4970.5	4941.0	4876.0	4563.2	4421.5	4598.6	5194.8	6652.9	7142.9	9150.0	8825.3
32.5°	5655.3	5737.9	5625.7	5407.3	5188.9	5242.0	5867.8	7337.7	7703.7	10076.8	9899.7
35°	6481.7	6481.7	6505.3	6198.4	6050.8	6039.0	6711.9	8081.5	8447.5	10915.0	11039.0
37.5°	7597.4	7520.7	7390.8	7048.4	6936.3	7083.8	7503.0	8848.9	9244.4	11593.9	11924.5
40°	8536.0	8589.1	8571.4	8075.6	7857.2	8016.5	8388.4	9504.1	9811.1	12030.7	12638.7
42.5°	9456.9	9486.4	9409.7	9173.6	8854.8	8866.6	9173.6	10000.0	10312.9	12449.8	13311.7
45°	10147.6	10141.7	10088.6	10029.5	9840.6	9645.8	9698.9	10549.0	10820.6	12585.6	13677.7
47.5°	10366.0	10413.2	10460.5	10625.7	10755.6	10448.7	10177.1	10844.2	11092.1	12562.0	13813.5
50°	10165.3	10265.7	10495.9	10743.8	11186.6	11162.9	10578.5	11162.9	11405.0	12691.9	13972.9
52.5°	9716.7	9817.0	10124.0	10572.6	11239.7	11570.3	11322.3	11700.1	11983.5	13022.4	14303.4
55°	8671.8	8713.1	9344.8	9935.1	10974.0	11393.2	12119.3	12609.2	12845.4	13423.9	14740.3
57.5°	7060.2	7160.6	7780.4	8742.6	10230.2	10926.8	12573.8	14161.8	14155.9	13807.6	14834.7
60°	*4645.8*	*4941.0*	*5950.4*	*7013.0*	*8789.9*	*10011.8*	*12544.3*	*15979.9*	*16162.9*	*13429.8*	*13695.4*
62.5°	3547.8	3671.8	4244.4	5129.9	6505.3	8299.9	12349.5	16523.0	16664.7	12414.4	11989.4
65°	2668.2	2821.7	3370.7	4161.8	4592.7	5625.7	11074.4	14362.5	14557.3	11080.3	9321.1
67.5°	1635.2	1759.2	2491.1	3417.9	3477.0	3494.7	7473.4	10879.6	10950.4	8937.4	6275.1
70°	1092.1	1216.1	1723.7	2626.9	2768.6	2013.0	4102.7	8235.0	8229.1	6115.7	3813.5
72.5°	631.6	690.7	1092.1	1936.2	2178.3	1281.0	2048.4	5236.1	5005.9	2874.9	1782.8
75°	360.1	401.4	602.1	1245.6	1528.9	814.6	808.7	2804.0	2479.3	1481.7	974.0
77.5°	218.4	236.1	330.6	814.6	920.9	549.0	448.6	1304.6	1257.4	867.8	513.6
80°	106.3	124.0	200.7	478.2	590.3	295.2	271.5	513.6	549.0	478.2	271.5
82.5°	35.4	47.2	112.2	183.0	383.7	118.1	112.2	283.4	301.1	283.4	129.9
85°	17.7	23.6	53.1	59.0	147.6	59.0	41.3	124.0	153.5	94.5	53.1
87.5°	0.0	5.9	5.9	5.9	5.9	5.9	5.9	11.8	11.8	11.8	11.8
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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CATALOG NUMBER: GSS-SB4C-830-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8
2.5°	3624.6	3612.8	3589.1	3547.8	3541.9	3512.4	3465.2	3435.7	3412.0	3429.8	3435.7
5°	3689.5	3660.0	3589.1	3477.0	3358.9	3240.9	3128.7	2998.8	2910.3	2898.5	2874.9
7.5°	3807.6	3748.5	3595.0	3376.6	3075.6	2792.2	2461.6	2142.9	1983.5	1959.9	1906.7
10°	3996.5	3896.1	3642.3	3199.5	2621.0	2030.7	1528.9	1186.5	991.7	956.3	968.1
12.5°	4220.8	4079.1	3648.2	2898.5	1995.3	1257.4	867.8	737.9	696.6	678.9	678.9
15°	4510.0	4303.4	3642.3	2508.9	1345.9	808.7	696.6	643.4	625.7	613.9	613.9
17.5°	4876.0	4604.5	3600.9	1924.4	909.1	702.5	637.5	596.2	572.6	566.7	566.7
20°	5307.0	4941.0	3506.5	1434.5	761.5	655.3	602.1	549.0	531.3	519.5	519.5
22.5°	5856.0	5348.3	3323.5	1115.7	720.2	625.7	566.7	507.7	490.0	478.2	478.2
25°	6493.5	5867.8	3081.5	1003.5	714.3	602.1	531.3	472.3	454.5	448.6	442.7
27.5°	7249.1	6422.7	2857.1	1009.4	726.1	584.4	495.9	442.7	425.0	407.3	413.2
30°	8140.5	6995.3	2674.1	1080.3	737.9	566.7	472.3	425.0	407.3	383.7	383.7
32.5°	9020.1	7668.2	2656.4	1210.2	779.2	554.9	448.6	401.4	383.7	366.0	366.0
35°	9923.3	8282.2	2756.8	1381.3	861.9	537.2	419.1	377.8	360.1	348.3	342.4
37.5°	10785.1	8772.1	2851.2	1487.6	814.6	460.4	383.7	348.3	330.6	307.0	307.0
40°	11357.7	9037.8	2869.0	1405.0	673.0	413.2	348.3	312.9	289.3	277.5	271.5
42.5°	11776.9	9209.0	2668.2	1139.3	584.4	377.8	318.8	283.4	265.6	253.8	253.8
45°	11948.1	9150.0	2325.9	867.8	537.2	348.3	289.3	259.7	247.9	236.1	236.1
47.5°	11924.5	8878.4	1977.6	696.6	490.0	318.8	271.5	247.9	236.1	224.3	218.4
50°	11883.1	8624.6	1623.4	619.8	436.8	301.1	253.8	236.1	218.4	206.6	200.7
52.5°	12154.7	8541.9	1345.9	566.7	407.3	289.3	247.9	224.3	206.6	194.8	194.8
55°	12426.2	8577.3	1056.7	531.3	377.8	283.4	242.0	218.4	200.7	183.0	183.0
57.5°	12408.5	8423.9	802.8	495.9	354.2	277.5	236.1	212.5	183.0	171.2	171.2
60°	*11281.0*	*7514.8*	*625.7*	*454.5*	*324.7*	*259.7*	*218.4*	*200.7*	*171.2*	*153.5*	*153.5*
62.5°	9539.6	5909.1	513.6	401.4	289.3	236.1	200.7	183.0	153.5	124.0	124.0
65°	7048.4	4262.1	413.2	348.3	265.6	206.6	183.0	159.4	124.0	100.4	94.5
67.5°	4769.8	2621.0	330.6	289.3	236.1	177.1	153.5	135.8	112.2	82.6	76.7
70°	2827.6	1393.2	242.0	200.7	177.1	129.9	129.9	118.1	94.5	70.8	64.9
72.5°	1345.9	484.1	177.1	147.6	135.8	94.5	100.4	100.4	76.7	53.1	47.2
75°	684.8	236.1	118.1	106.3	88.5	70.8	82.6	76.7	53.1	35.4	35.4
77.5°	389.6	165.3	82.6	70.8	59.0	47.2	53.1	47.2	29.5	17.7	17.7
80°	218.4	118.1	53.1	47.2	35.4	29.5	29.5	23.6	17.7	5.9	5.9
82.5°	82.6	70.8	35.4	23.6	17.7	17.7	11.8	11.8	5.9	0.0	0.0
85°	35.4	17.7	17.7	11.8	11.8	5.9	5.9	5.9	0.0	0.0	0.0
87.5°	5.9	5.9	5.9	5.9	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°	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8
2.5°	3388.4	3400.2	3412.0	3459.3	3471.1	3506.5	3536.0	3571.4	3577.3	3624.6	3624.6
5°	2922.1	2916.2	3016.5	3164.1	3258.6	3388.4	3488.8	3595.0	3654.1	3730.8	3766.2
7.5°	1936.2	2083.8	2308.1	2567.9	2904.4	3217.2	3453.4	3660.0	3801.7	3890.2	3925.6
10°	962.2	1044.9	1281.0	1706.0	2278.6	2916.2	3417.9	3801.7	4031.9	4132.2	4197.2
12.5°	678.9	696.6	737.9	968.1	1517.1	2420.3	3305.8	3955.1	4273.9	4462.8	4545.5
15°	608.0	619.8	637.5	702.5	938.6	1806.4	3105.1	4126.3	4651.7	4870.1	4976.4
17.5°	560.8	566.7	584.4	637.5	737.9	1227.9	2780.4	4309.3	5106.3	5371.9	5572.6
20°	519.5	519.5	537.2	602.1	684.8	944.5	2314.1	4515.9	5684.8	6068.5	6269.2
22.5°	472.3	484.1	495.9	566.7	667.1	861.9	1877.2	4675.3	6328.2	6794.6	7030.7
25°	436.8	448.6	460.4	531.3	649.4	861.9	1623.4	4775.7	7048.4	7603.3	7928.0
27.5°	407.3	419.1	436.8	507.7	631.6	897.3	1523.0	4805.2	7833.5	8553.7	8990.6
30°	383.7	395.5	413.2	490.0	643.4	938.6	1558.4	4763.9	8630.5	9533.7	10053.1
32.5°	360.1	371.9	389.6	472.3	643.4	991.7	1676.5	4681.2	9403.8	10513.6	11151.1
35°	342.4	348.3	354.2	425.0	584.4	985.8	1824.1	4598.6	10183.0	11481.7	12225.5
37.5°	307.0	312.9	324.7	366.0	466.4	897.3	1853.6	4498.2	10796.9	12296.4	13116.9
40°	271.5	283.4	295.2	336.5	389.6	726.1	1723.7	4285.7	11121.6	12922.1	13919.7
42.5°	247.9	253.8	265.6	307.0	360.1	578.5	1446.3	3913.8	11410.9	13347.1	14504.1
45°	230.2	236.1	247.9	277.5	336.5	501.8	1139.3	3459.3	11434.5	13482.9	14787.5
47.5°	212.5	218.4	224.3	253.8	324.7	448.6	873.7	3046.0	11428.6	13660.0	15029.5
50°	200.7	206.6	218.4	242.0	307.0	401.4	720.2	2709.6	11676.5	14043.7	15519.5
52.5°	194.8	194.8	212.5	236.1	289.3	366.0	602.1	2408.5	11806.4	14421.5	15873.7
55°	183.0	188.9	200.7	224.3	271.5	348.3	513.6	2030.7	11865.4	14610.4	15938.6
57.5°	171.2	177.1	194.8	212.5	259.7	330.6	442.7	1517.1	11021.3	13624.6	14852.4
60°	*153.5*	*165.3*	*188.9*	*206.6*	*242.0*	*301.1*	*389.6*	*1027.2*	*9297.5*	*11841.8*	*12869.0*
62.5°	124.0	147.6	171.2	183.0	218.4	253.8	330.6	684.8	7426.2	9799.3	10968.1
65°	94.5	124.0	141.7	159.4	183.0	212.5	277.5	466.4	4952.8	6593.9	7910.3
67.5°	82.6	106.3	118.1	129.9	153.5	183.0	224.3	324.7	3004.7	3961.0	5259.7
70°	64.9	88.5	100.4	94.5	118.1	141.7	159.4	218.4	1534.8	2148.8	2992.9
72.5°	47.2	70.8	76.7	76.7	70.8	100.4	118.1	153.5	667.1	1044.9	1357.7
75°	35.4	47.2	53.1	47.2	41.3	64.9	82.6	100.4	436.8	625.7	791.0
77.5°	17.7	17.7	29.5	29.5	17.7	35.4	41.3	59.0	247.9	366.0	454.5
80°	5.9	0.0	0.0	5.9	0.0	11.8	17.7	29.5	129.9	194.8	283.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	64.9	59.0	147.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	35.4
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: P1501915
CATALOG NUMBER: GSS-SB4C-830-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8	3612.8
2.5°	3654.1	3654.1	3677.7	3713.1	3730.8	3742.6	3748.5	3760.3	3807.6	3795.8
5°	3807.6	3819.4	3837.1	3872.5	3913.8	3902.0	3902.0	3902.0	3931.5	3907.9
7.5°	4008.3	4043.7	4049.6	4090.9	4061.4	4002.4	3966.9	3913.8	3907.9	3907.9
10°	4332.9	4321.1	4321.1	4268.0	4161.8	3990.6	3837.1	3730.8	3671.8	3677.7
12.5°	4681.2	4634.0	4639.9	4445.1	4144.0	3766.2	3453.4	3223.1	3205.4	3187.7
15°	5112.2	4988.2	4964.6	4515.9	3878.4	3299.9	2992.9	2809.9	2750.9	2733.2
17.5°	5726.1	5413.2	5301.1	4392.0	3530.1	3010.6	2780.4	2697.8	2691.9	2686.0
20°	6375.4	5755.6	5543.1	4209.0	3412.0	3016.5	2845.3	2821.7	2809.9	2815.8
22.5°	7131.1	5974.0	5702.5	4238.5	3518.3	3211.3	3075.6	3057.9	3046.0	3057.9
25°	7910.3	6227.9	5891.4	4474.6	3837.1	3571.4	3412.0	3376.6	3412.0	3465.2
27.5°	8695.4	6570.3	6263.3	4941.0	4350.7	4061.4	3907.9	4037.8	4090.9	4096.8
30°	9392.0	7048.4	6765.1	5596.2	4935.1	4645.8	4675.3	4840.6	4905.6	4970.5
32.5°	10029.5	7686.0	7467.5	6340.0	5690.7	5519.5	5501.8	5625.7	5696.6	5655.3
35°	10673.0	8518.3	8305.8	7148.8	6617.5	6475.8	6328.2	6570.3	6546.6	6481.7
37.5°	11281.0	9356.6	9161.8	8016.5	7467.5	7219.6	7196.0	7414.4	7609.2	7597.4
40°	11717.8	10035.4	9799.3	8878.4	8358.9	8146.4	8270.4	8648.2	8601.0	8536.0
42.5°	12119.3	10613.9	10401.4	9634.0	9090.9	9185.4	9297.5	9551.4	9521.9	9456.9
45°	12308.2	11109.8	10926.8	10206.6	9941.0	10242.0	10236.1	10330.6	10171.2	10147.6
47.5°	12573.8	11464.0	11275.1	10720.2	10956.3	11080.3	10732.0	10631.7	10484.1	10366.0
50°	13063.8	12013.0	11824.1	11499.4	11700.1	11316.4	10891.4	10673.0	10371.9	10165.3
52.5°	13636.4	12845.4	12680.1	12550.2	11989.4	11198.4	10655.3	10259.8	9893.8	9716.7
55°	14356.6	14073.2	13955.2	13240.9	11729.6	10714.3	10076.8	9338.9	8837.1	8671.8
57.5°	14592.7	15873.7	15832.4	13353.0	11003.6	9834.7	8683.6	7686.0	7166.5	7060.2
60°	13896.1	17284.6	17137.0	13164.1	9687.1	7981.1	6635.2	5613.9	4769.8	4645.8
62.5°	13004.7	16204.3	16151.1	12213.7	7379.0	5720.2	4958.7	4002.4	3642.3	3547.8
65°	11139.3	13258.6	13282.2	9799.3	4669.4	4108.6	4073.2	3181.8	2739.1	2668.2
67.5°	8577.3	10171.2	10005.9	6162.9	2721.4	3288.1	3252.7	2325.9	1682.4	1635.2
70°	5011.8	7573.8	7308.2	3205.4	1800.5	2745.0	2503.0	1635.2	1145.2	1092.1
72.5°	2213.7	4167.7	4474.6	1410.9	1269.2	2184.2	1806.4	1003.5	643.4	631.6
75°	1227.9	2066.1	2160.6	613.9	891.4	1552.5	1092.1	560.8	366.0	360.1
77.5°	737.9	915.0	891.4	395.5	667.1	991.7	661.2	318.8	230.2	218.4
80°	413.2	419.1	354.2	289.3	395.5	554.9	371.9	200.7	106.3	106.3
82.5°	253.8	230.2	183.0	88.5	106.3	336.5	135.8	112.2	35.4	35.4
85°	106.3	70.8	47.2	17.7	41.3	88.5	47.2	53.1	17.7	17.7
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: SP1-2407-184-9

Test Date: 10/10/2024

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

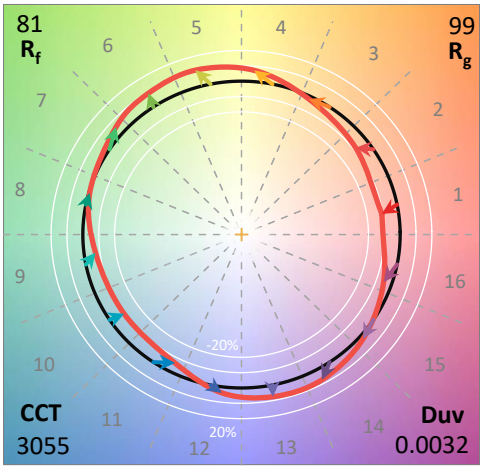
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-9
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-830-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3055
CIE u':	0.2475
CIE v':	0.5247
Duv:	0.0032
CIE x:	0.4377
CIE y:	0.4124
CIE z:	0.1499
Peak Wavelength (nm):	604
Dominant Wavelength (nm):	581
Purity:	55.16339
Rf:	81.5
Rg:	99.2

CRI (Ra):	80.9
R1:	79.5
R2:	85.6
R3:	92.1
R4:	82.4
R5:	78.9
R6:	81.7
R7:	85.1
R8:	61.9
R9:	6.8
R10:	67.1
R11:	82.5
R12:	63.4
R13:	80.2
R14:	95.1
R15:	71.7



Test Conditions

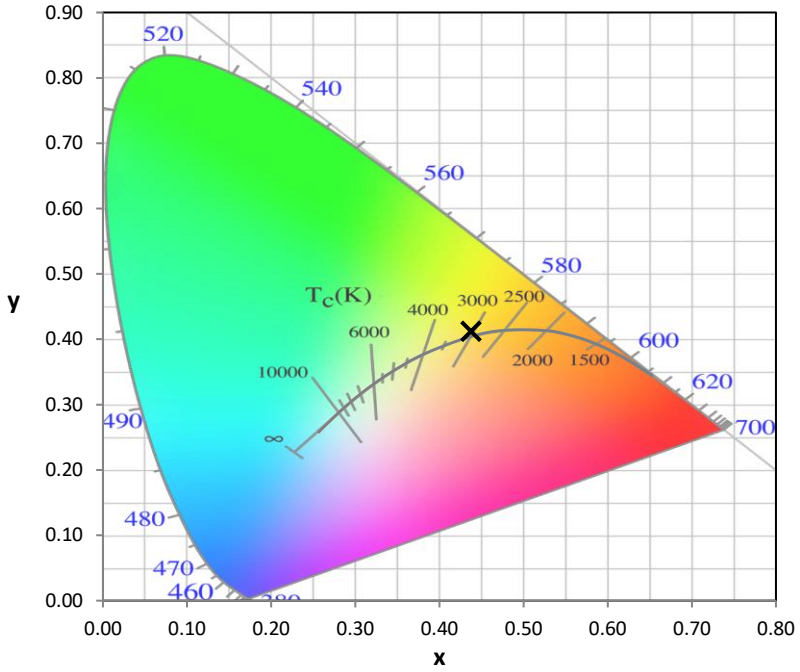
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-9

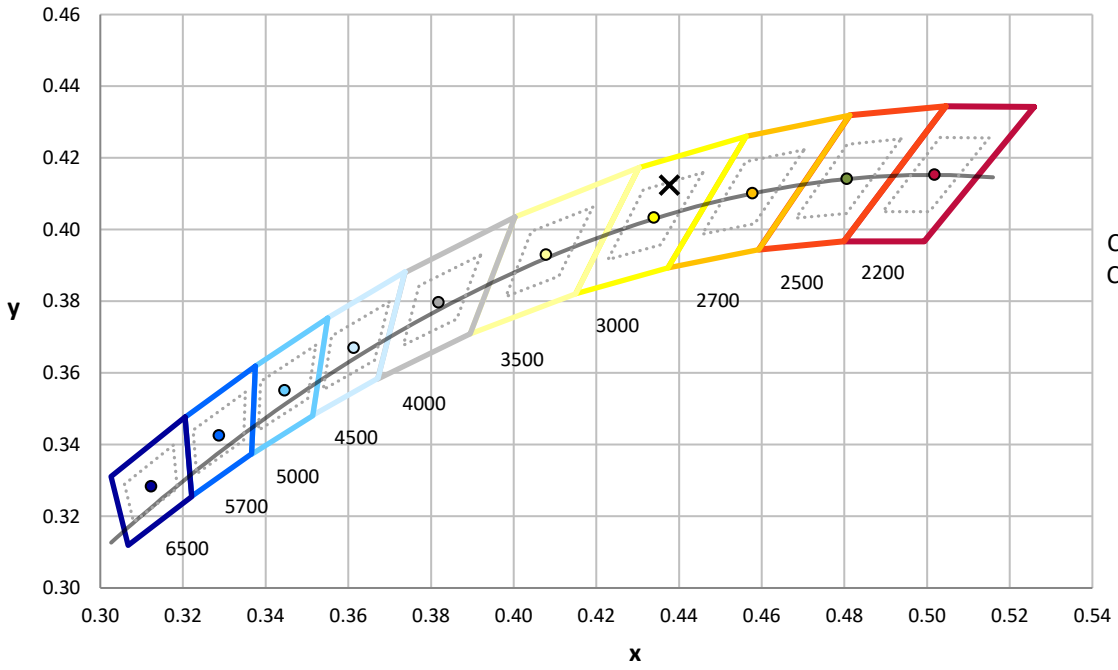
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



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

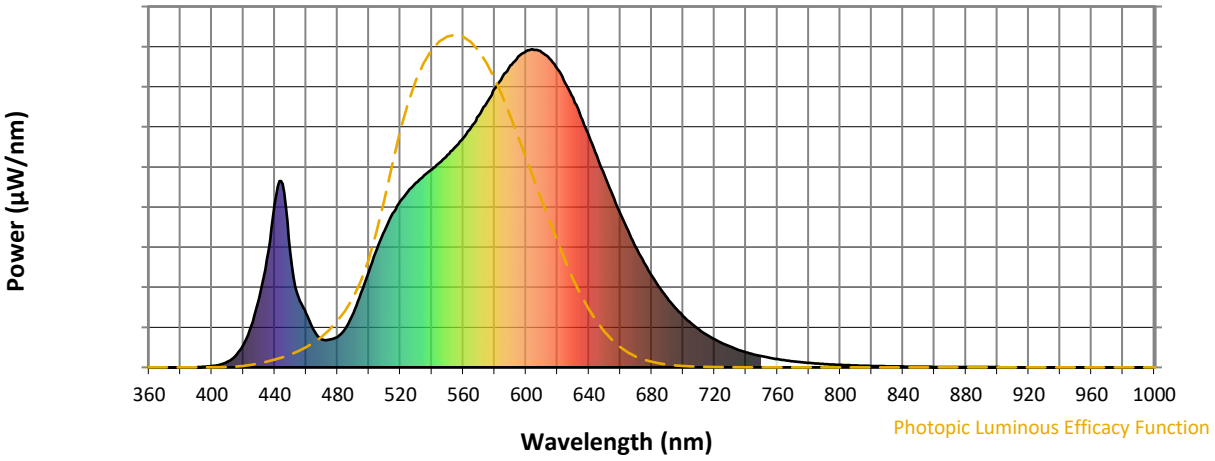


CCT = 3055K
CIE x = 0.4377
CIE y = 0.4124
Duv = 0.0032

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

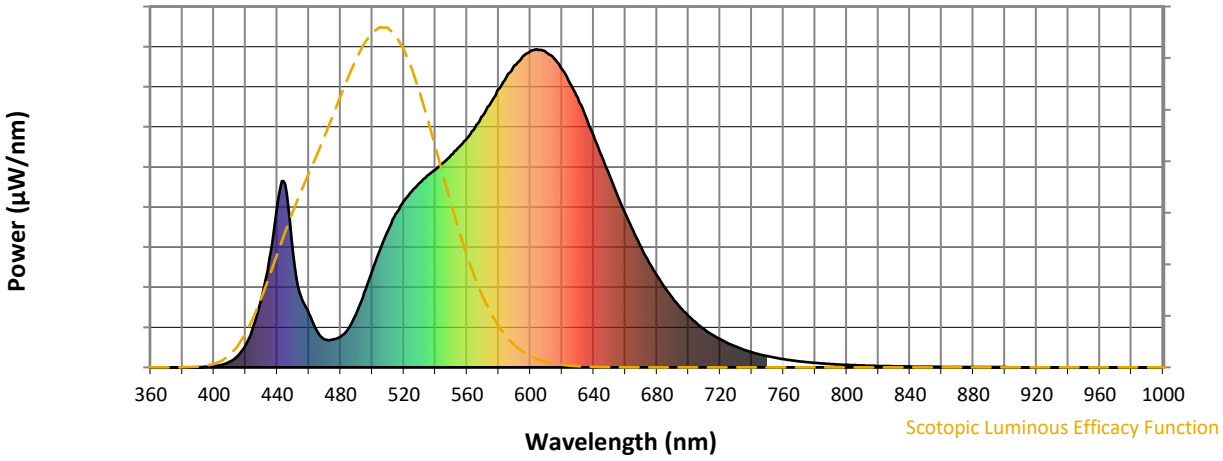


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength

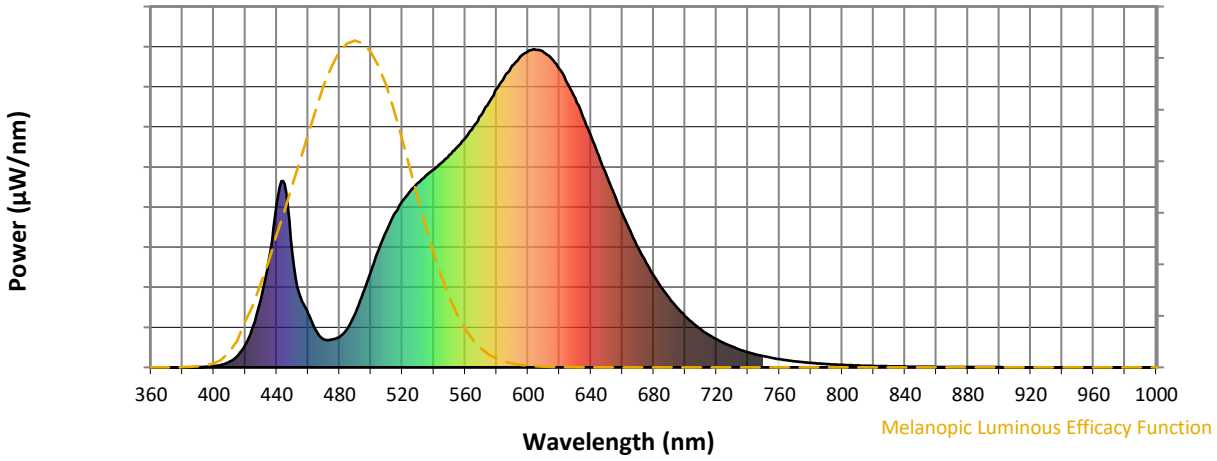


Scotopic Lumens: NR **S/P: 1.28**

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.33**

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

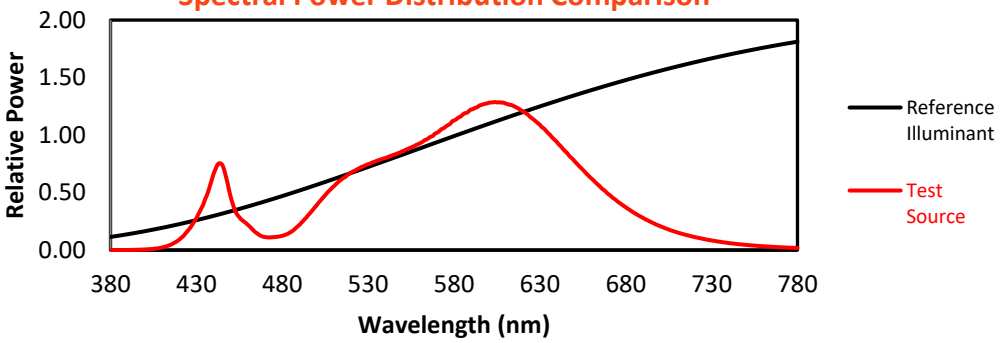
REPORT NUMBER: SP1-2407-184-9

TM-30-18

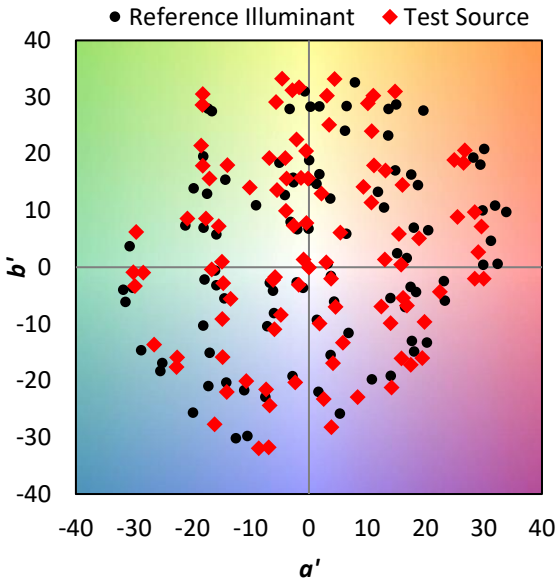
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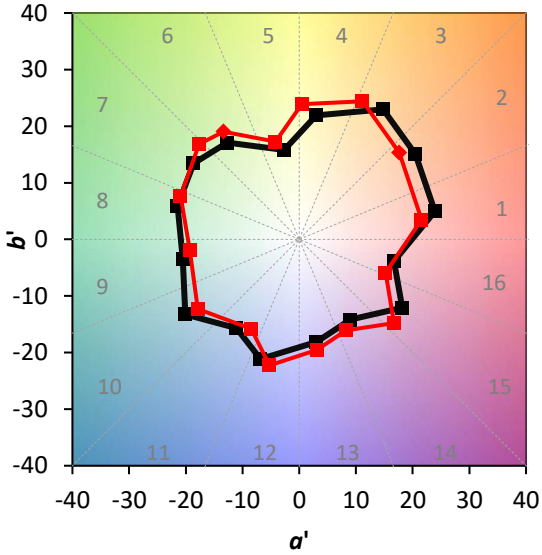
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R_g = 99.2
CIE R_a = 80.9
R_9 = 6.8

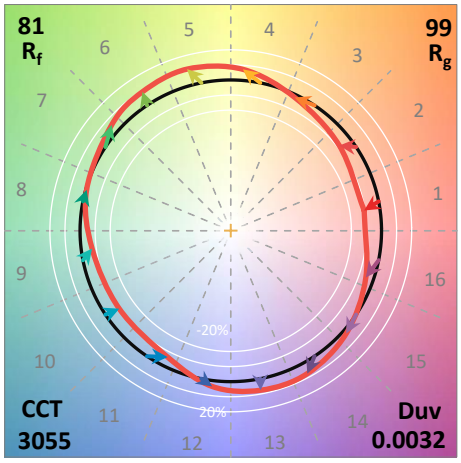
Spectral Power Distribution Comparison

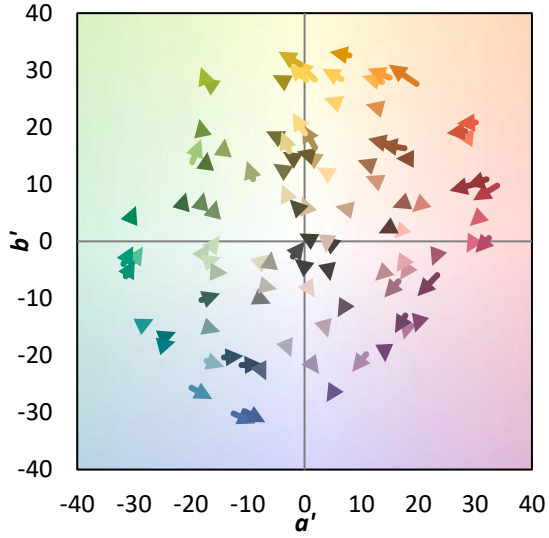


Color Vector Graphics







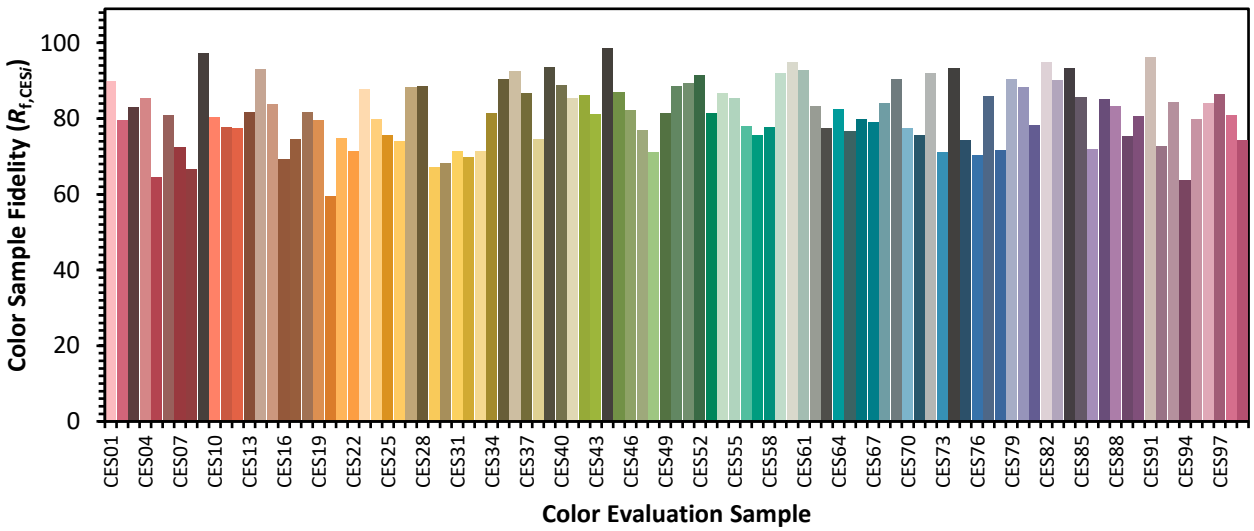


REPORT NUMBER: SP1-2407-184-9

TM-30-18

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

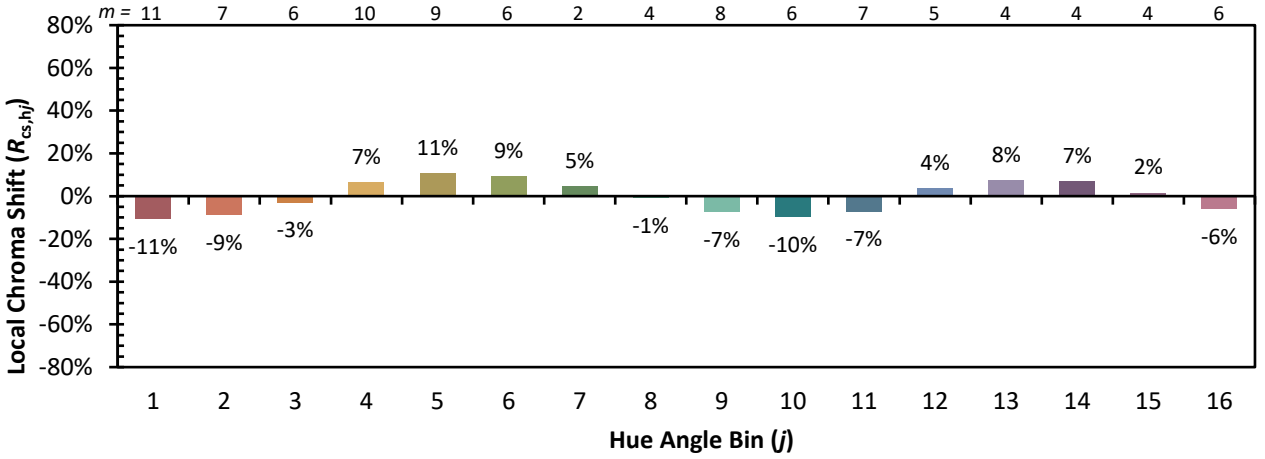
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CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
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 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	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
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	

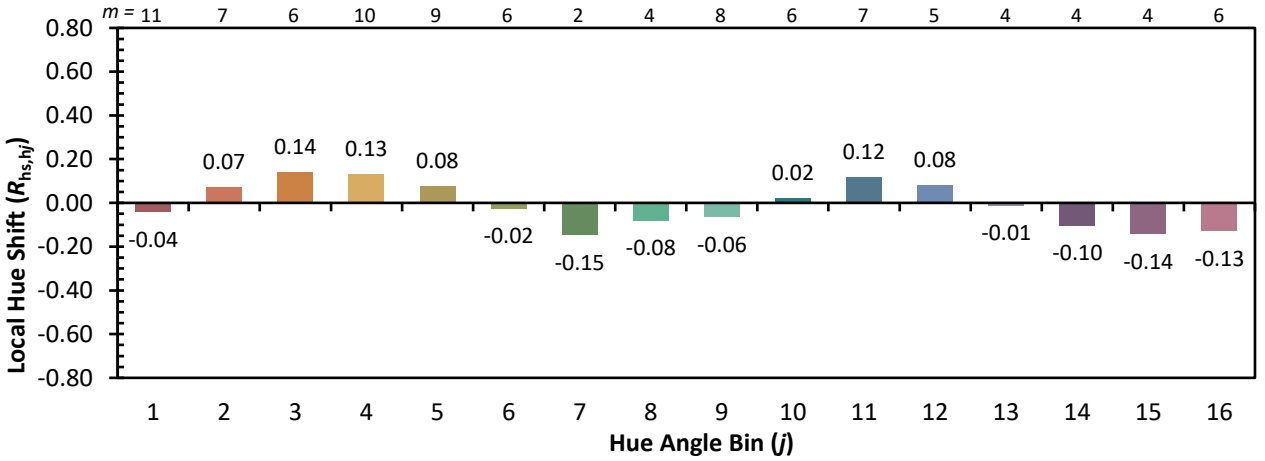


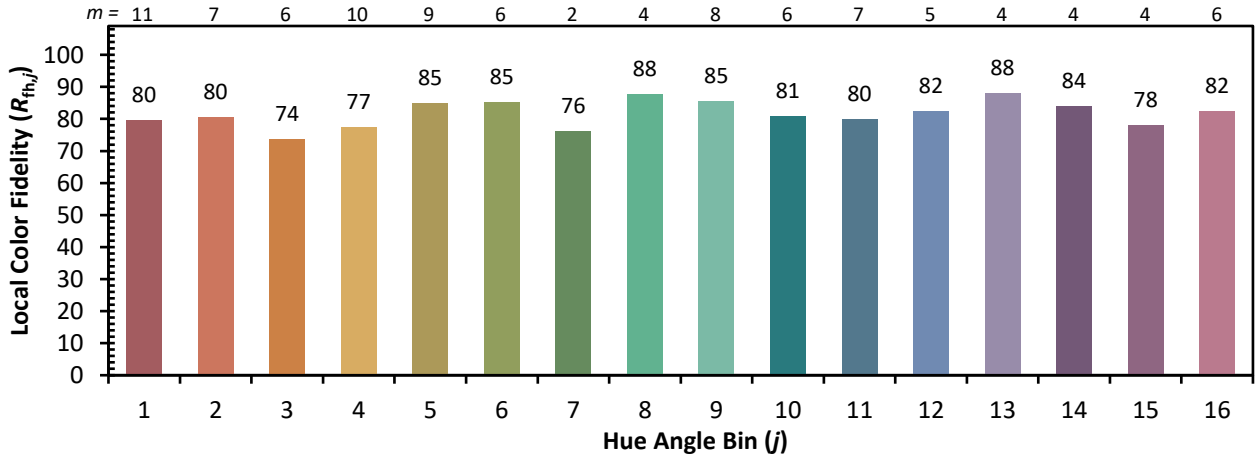
REPORT NUMBER: SP1-2407-184-9

TM-30-18

Color Rendition by Hue-Angle Bin



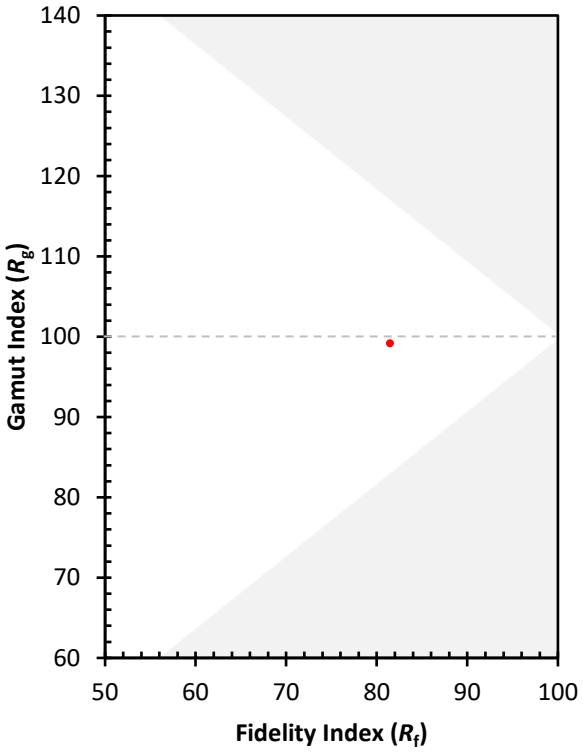


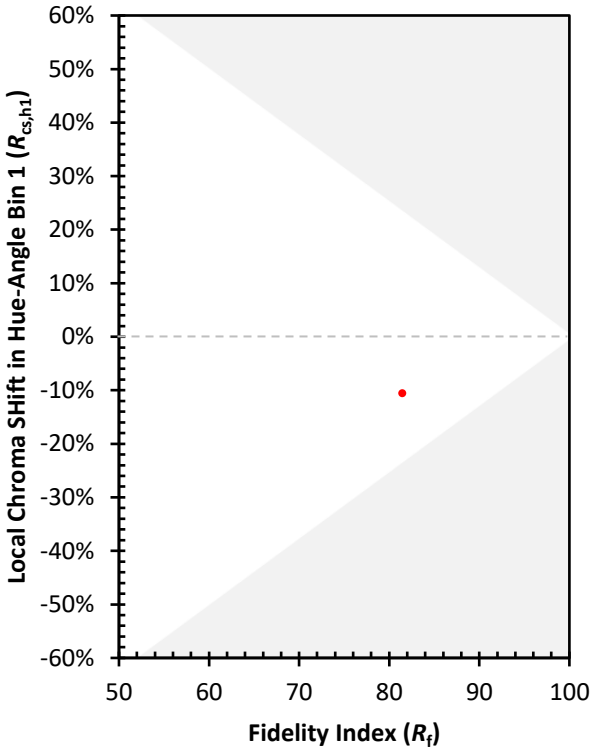


REPORT NUMBER: SP1-2407-184-9

TM-30-18

Measure Comparisons





(END OF REPORT)