

Signify Classified - Internal
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: STREETWORKS

Report Number: P1065150

Luminaire Tested: **GLAN-SA5B-722-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065150
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5B-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 5xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14858 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 178.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

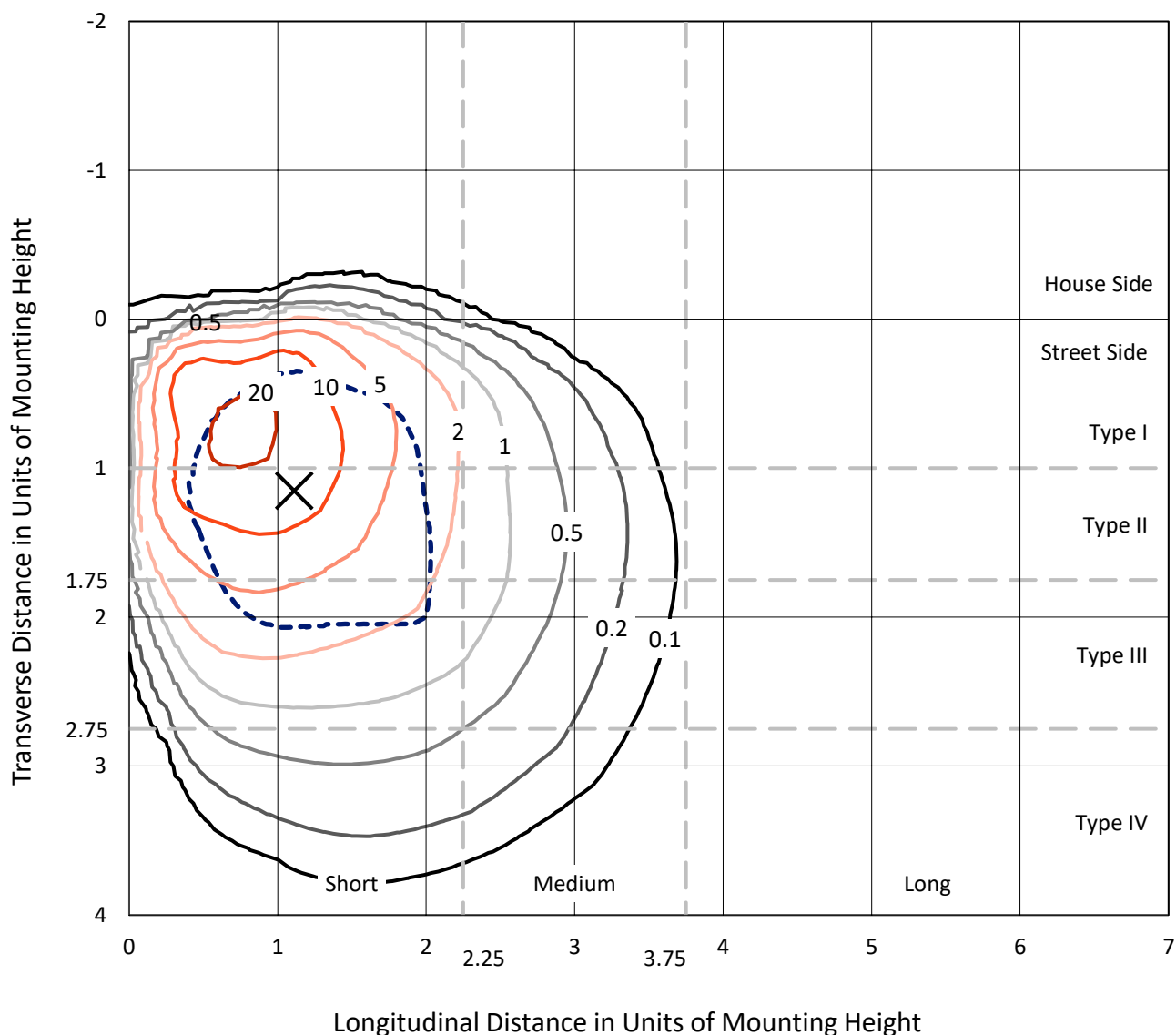
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

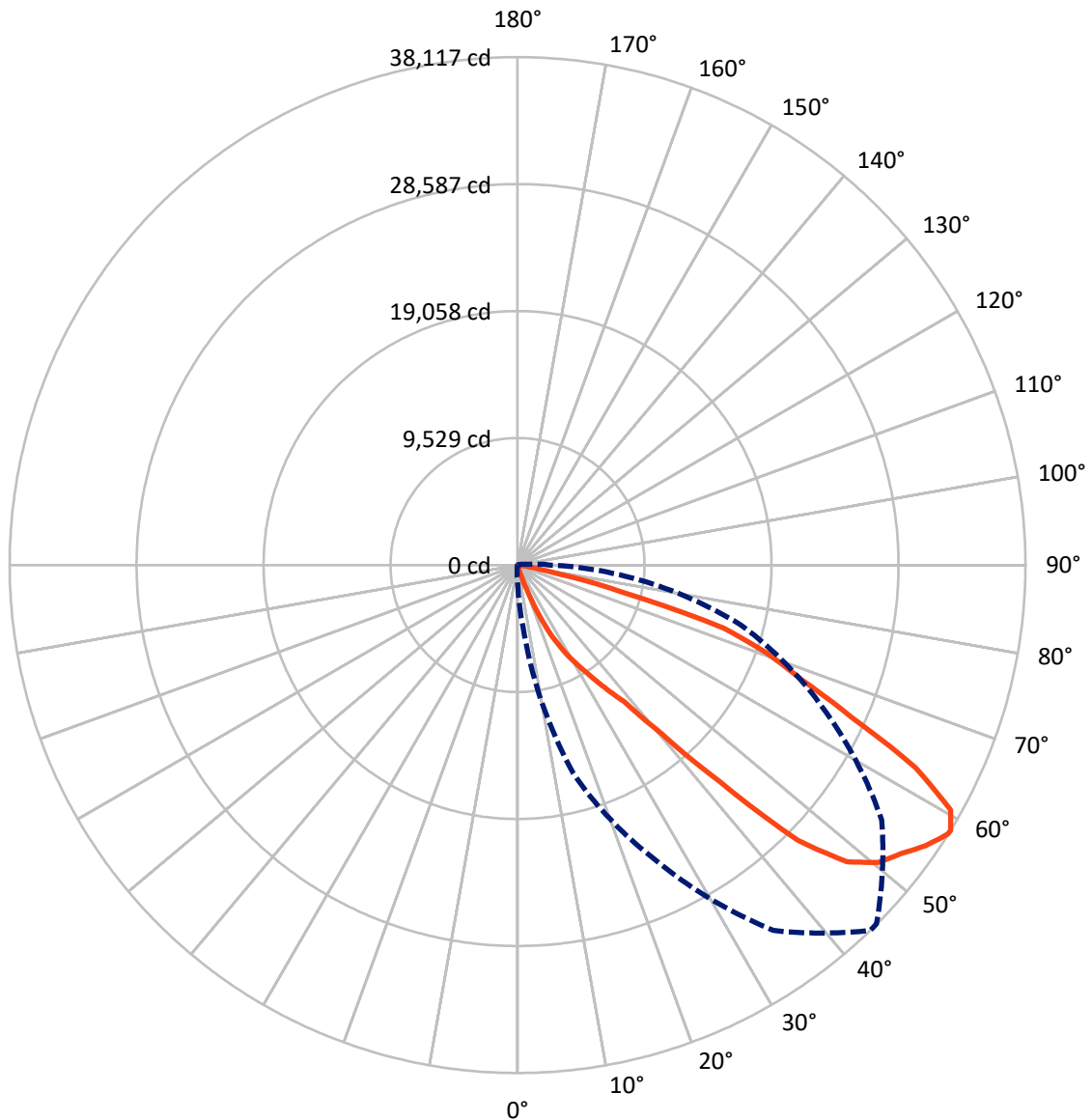


Based on 20 foot mounting height. Maximum calculated value = 25.9 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	101.4	0.0	101.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	14756.5	0.0	14756.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	14858.0	0.0	14858.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.0
10°-20°	32.6	0.2
20°-30°	352.0	2.4
30°-40°	1040.9	7.0
40°-50°	3102.6	20.9
50°-60°	4923.1	33.1
60°-70°	4106.4	27.6
70°-80°	1266.5	8.5
80°-90°	28.1	0.2
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°	14858.0	100.0
0°-180°	14858.0	100.0



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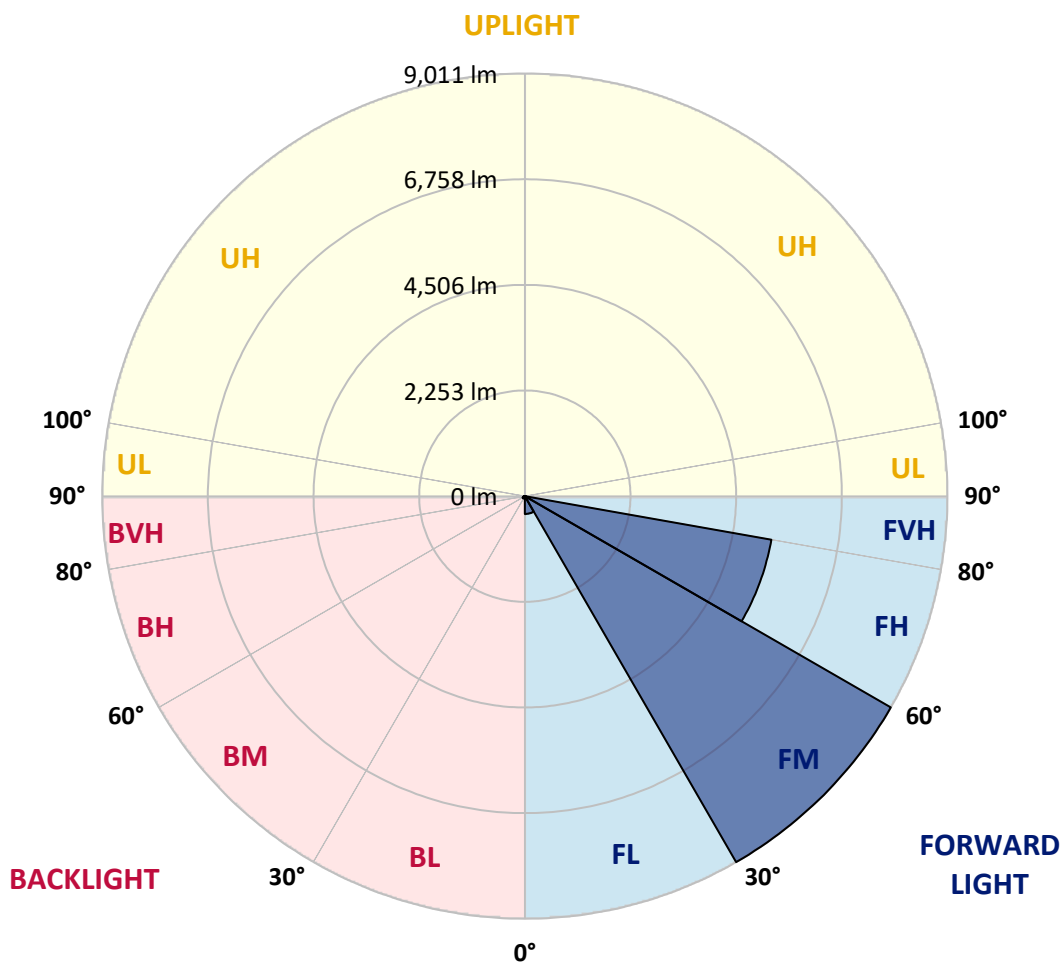
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	380.5	2.6			
FM	(30°-60°)	9011.1	60.6			
FH	(60°-80°)	5338.3	35.9			G3/7500
FVH	(80°-90°)	26.8	0.2			G1/100
BL	(0°-30°)	9.9	0.1	B0/110		
BM	(30°-60°)	55.5	0.4	B0/220		
BH	(60°-80°)	34.6	0.2	B0/110		G0/110
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
2.5°	84.2	84.2	80.8	76.3	71.8	67.3	66.2	64.0	62.9	61.7	60.6
5°	87.5	87.5	86.4	83.1	78.6	75.2	75.2	71.8	69.6	67.3	65.1
7.5°	89.8	90.9	93.2	92.0	89.8	86.4	86.4	84.2	80.8	75.2	71.8
10°	93.2	96.5	101.0	103.3	104.4	104.4	103.3	102.1	96.5	88.7	79.7
12.5°	96.5	103.3	114.5	125.7	132.4	141.4	140.3	138.1	123.5	106.6	90.9
15°	103.3	113.4	136.9	169.5	220.0	251.4	263.8	252.5	204.3	143.7	105.5
17.5°	111.1	128.0	198.7	354.7	581.4	689.2	754.2	701.5	464.7	272.7	132.4
20°	119.0	156.0	369.3	919.2	1508.5	1860.9	1958.6	1805.9	1159.4	519.7	196.4
22.5°	132.4	218.9	748.6	1900.2	3250.5	3779.1	3879.0	3390.8	2189.8	1025.9	295.2
25°	160.5	317.6	1290.8	3096.7	4851.0	5743.3	5701.8	5062.0	3552.4	1638.7	449.0
27.5°	200.9	462.4	1951.8	4399.8	6384.2	7171.0	7265.3	6474.0	4735.4	2409.8	637.5
30°	259.3	640.9	2661.2	5443.6	7613.2	8464.0	8479.7	7661.5	5793.8	3086.6	868.7
32.5°	315.4	809.2	3281.9	6452.7	8824.3	9757.0	9826.6	8819.8	6584.0	3791.5	1069.6
35°	358.0	919.2	3910.4	7339.3	10045.4	11330.6	11326.1	10130.7	7520.0	4421.1	1348.0
37.5°	361.4	1029.2	4479.5	8246.2	11592.1	13031.0	13173.6	11855.9	8651.4	5200.1	1689.2
40°	353.6	1152.7	5200.1	9660.5	14379.0	16586.8	16712.5	15051.3	10920.9	6533.5	2222.3
42.5°	362.5	1367.1	6369.6	12272.3	19006.6	22177.4	22419.8	20673.4	15092.8	9254.1	3173.0
45°	409.7	1770.0	8819.8	16641.8	25603.0	29468.5	29387.7	26872.4	19947.2	13395.8	5054.1
47.5°	565.7	2756.6	12451.9	20894.5	29818.7	33261.1	33330.7	30256.4	22780.1	16580.0	7587.4
50°	869.9	4218.0	15503.6	23142.7	31631.3	35085.0	35019.9	31467.5	23856.5	18148.0	9139.7
52.5°	1131.4	5275.3	17034.6	23931.7	31863.7	35986.2	35981.7	31786.2	24023.7	18282.7	9333.8
55°	1196.5	5354.9	17046.9	23974.4	32384.5	37165.9	37314.0	32570.8	24240.4	17694.6	8603.2
57.5°	1170.7	4741.0	16335.3	24221.3	33311.6	38078.4	38086.2	33330.7	24790.3	17334.3	7393.2
58°	1148.2	4644.5	16191.7	24361.6	33471.0	38116.5	38097.5	33365.4	25238.2	17320.8	7203.5
60°	1022.5	4032.8	15631.6	24719.6	33234.1	37333.1	37154.7	32605.6	25172.0	17182.7	6248.4
62.5°	803.6	3146.1	15080.5	24305.5	30695.3	33540.5	33614.6	28866.9	22947.4	16378.0	5122.6
65°	639.8	2344.7	13931.2	21319.9	25276.3	27543.6	27819.7	23473.8	19153.7	13868.3	3776.9
67.5°	509.6	1694.8	11686.4	16974.0	20001.1	22987.8	23188.7	19708.1	14839.2	10625.7	2683.6
70°	414.2	1146.0	8066.7	12413.7	16497.0	19855.2	19867.5	16372.4	11075.8	6962.2	1683.6
72.5°	367.0	793.5	4682.6	9053.2	13376.7	16179.3	15852.7	13285.8	8512.2	4123.7	1003.4
75°	317.6	526.4	2296.4	5534.5	8110.4	8165.4	8290.0	6163.1	4255.0	1960.8	601.6
77.5°	261.5	373.8	904.7	1511.9	2432.2	3113.5	3229.1	2446.8	1415.3	482.6	321.0
80°	179.6	177.3	243.6	463.5	695.9	872.1	813.7	629.7	370.4	185.2	114.5
82.5°	77.4	84.2	110.0	132.4	107.7	104.4	99.9	64.0	49.4	38.2	23.6
85°	24.7	22.4	23.6	23.6	19.1	14.6	14.6	6.7	0.0	0.0	0.0
87.5°	12.3	10.1	10.1	9.0	5.6	2.2	1.1	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°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
2.5°	59.5	59.5	57.2	55.0	53.9	51.6	50.5	49.4	48.3	47.1	46.0
5°	62.9	61.7	58.4	55.0	51.6	48.3	46.0	43.8	41.5	40.4	39.3
7.5°	68.5	66.2	59.5	53.9	49.4	44.9	42.7	39.3	37.0	33.7	32.5
10°	75.2	70.7	61.7	55.0	48.3	42.7	39.3	35.9	32.5	28.1	26.9
12.5°	84.2	76.3	65.1	53.9	46.0	39.3	35.9	31.4	28.1	24.7	22.4
15°	92.0	81.9	66.2	53.9	43.8	35.9	31.4	26.9	23.6	19.1	16.8
17.5°	103.3	86.4	65.1	50.5	40.4	31.4	26.9	23.6	18.0	11.2	9.0
20°	122.3	89.8	62.9	47.1	34.8	25.8	20.2	15.7	7.9	2.2	0.0
22.5°	152.6	98.8	60.6	42.7	30.3	20.2	13.5	5.6	0.0	0.0	0.0
25°	211.0	114.5	60.6	40.4	26.9	14.6	4.5	0.0	0.0	0.0	0.0
27.5°	280.6	135.8	60.6	34.8	21.3	7.9	0.0	0.0	0.0	0.0	0.0
30°	351.3	159.4	60.6	30.3	16.8	1.1	0.0	0.0	0.0	0.0	0.0
32.5°	418.7	179.6	61.7	25.8	11.2	0.0	0.0	0.0	0.0	0.0	0.0
35°	487.1	183.0	60.6	22.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	574.7	176.2	57.2	20.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	707.1	179.6	53.9	19.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	951.8	194.2	49.4	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1645.4	260.4	44.9	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2721.8	468.0	43.8	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3473.8	589.3	46.0	21.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3468.2	656.6	48.3	22.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0
55°	3083.2	668.9	51.6	24.7	14.6	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2577.0	610.6	59.5	30.3	26.9	0.0	0.0	0.0	0.0	0.0	0.0
58°	2487.2	583.6	61.7	31.4	29.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	2038.3	475.9	78.6	39.3	39.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1407.5	415.3	89.8	50.5	40.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	995.6	374.9	97.6	53.9	32.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	744.1	345.7	107.7	55.0	16.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	570.2	324.4	132.4	58.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	464.7	299.7	160.5	60.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	385.0	270.5	154.9	66.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	255.9	209.9	141.4	66.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	89.8	83.1	110.0	58.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.5	11.2	15.7	20.2	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°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
2.5°	46.0	46.0	44.9	46.0	46.0	48.3	53.9	61.7	70.7	74.1	77.4
5°	38.2	37.0	35.9	35.9	35.9	39.3	43.8	52.8	62.9	67.3	69.6
7.5°	31.4	30.3	29.2	28.1	28.1	30.3	35.9	46.0	56.1	60.6	64.0
10°	25.8	23.6	22.4	21.3	21.3	23.6	29.2	39.3	50.5	55.0	59.5
12.5°	21.3	18.0	15.7	14.6	13.5	16.8	22.4	31.4	43.8	49.4	53.9
15°	14.6	11.2	7.9	6.7	5.6	9.0	14.6	24.7	37.0	43.8	48.3
17.5°	7.9	3.4	1.1	0.0	0.0	2.2	6.7	18.0	30.3	35.9	41.5
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	22.4	28.1	33.7
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	13.5	19.1	24.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	10.1	14.6
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.7
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	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	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.0	12.3
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):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
2.5°	79.7	78.6	76.3	74.1	74.1	74.1	77.4	80.8	84.2	84.2
5°	74.1	74.1	73.0	70.7	70.7	71.8	76.3	81.9	86.4	87.5
7.5°	68.5	70.7	68.5	67.3	68.5	69.6	74.1	80.8	87.5	89.8
10°	65.1	66.2	66.2	65.1	65.1	67.3	71.8	80.8	89.8	93.2
12.5°	60.6	62.9	61.7	61.7	61.7	64.0	69.6	79.7	92.0	96.5
15°	56.1	59.5	59.5	58.4	58.4	59.5	67.3	78.6	95.4	103.3
17.5°	51.6	55.0	56.1	53.9	53.9	56.1	64.0	78.6	97.6	111.1
20°	42.7	48.3	51.6	48.3	48.3	50.5	58.4	74.1	98.8	119.0
22.5°	33.7	39.3	43.8	42.7	42.7	43.8	53.9	70.7	99.9	132.4
25°	24.7	30.3	33.7	35.9	35.9	39.3	49.4	68.5	104.4	160.5
27.5°	14.6	21.3	25.8	28.1	29.2	33.7	46.0	66.2	112.2	200.9
30°	6.7	12.3	18.0	22.4	22.4	30.3	42.7	64.0	122.3	259.3
32.5°	0.0	5.6	9.0	15.7	16.8	24.7	39.3	61.7	136.9	315.4
35°	0.0	0.0	4.5	12.3	12.3	20.2	35.9	59.5	159.4	358.0
37.5°	0.0	0.0	0.0	9.0	10.1	18.0	34.8	58.4	163.9	361.4
40°	0.0	0.0	0.0	6.7	7.9	16.8	34.8	59.5	148.2	353.6
42.5°	0.0	0.0	0.0	4.5	5.6	16.8	34.8	61.7	133.6	362.5
45°	0.0	0.0	0.0	3.4	4.5	18.0	33.7	60.6	125.7	409.7
47.5°	0.0	0.0	0.0	4.5	6.7	18.0	32.5	59.5	126.8	565.7
50°	0.0	0.0	0.0	5.6	7.9	18.0	33.7	57.2	139.2	869.9
52.5°	0.0	0.0	0.0	4.5	6.7	20.2	37.0	56.1	151.5	1131.4
55°	0.0	0.0	0.0	1.1	3.4	25.8	40.4	56.1	170.6	1196.5
57.5°	0.0	0.0	0.0	0.0	0.0	29.2	46.0	59.5	202.0	1170.7
58°	0.0	0.0	0.0	0.0	0.0	29.2	47.1	59.5	204.3	1148.2
60°	0.0	0.0	0.0	0.0	0.0	29.2	51.6	66.2	220.0	1022.5
62.5°	0.0	0.0	0.0	0.0	0.0	24.7	61.7	83.1	229.0	803.6
65°	0.0	0.0	0.0	0.0	0.0	20.2	73.0	90.9	235.7	639.8
67.5°	0.0	0.0	0.0	0.0	0.0	19.1	75.2	92.0	239.1	509.6
70°	0.0	0.0	0.0	0.0	0.0	20.2	74.1	98.8	250.3	414.2
72.5°	0.0	0.0	0.0	0.0	0.0	22.4	67.3	108.9	250.3	367.0
75°	0.0	0.0	0.0	0.0	0.0	23.6	62.9	122.3	227.8	317.6
77.5°	0.0	0.0	0.0	0.0	0.0	22.4	61.7	142.5	203.2	261.5
80°	2.2	3.4	3.4	2.2	2.2	19.1	60.6	144.8	172.8	179.6
82.5°	6.7	9.0	7.9	5.6	5.6	16.8	53.9	121.2	89.8	77.4
85°	12.3	14.6	14.6	12.3	12.3	15.7	33.7	43.8	30.3	24.7
87.5°	16.8	19.1	19.1	16.8	16.8	15.7	14.6	13.5	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 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-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

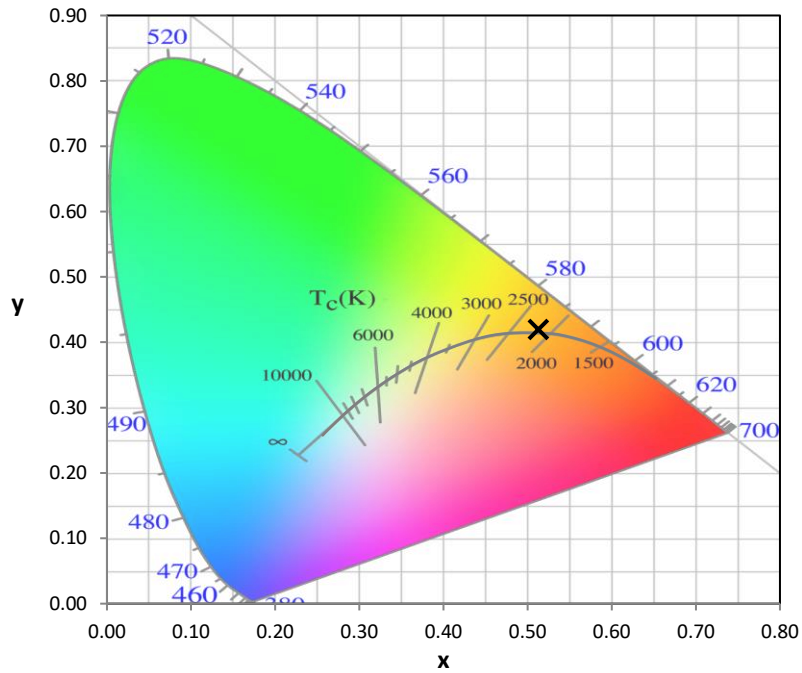
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

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

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CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 0.8

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE R_a = 71.9$
 $R_g = -17.8$

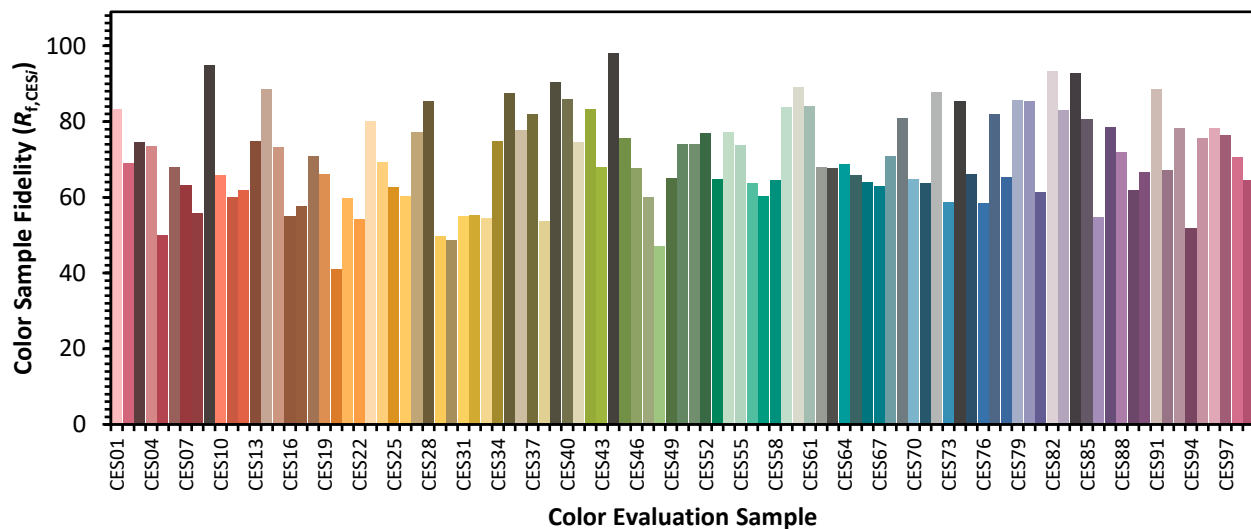


Color Vector Graphics



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

CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)