

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: P1057646

Luminaire Tested: **GAP-SA1C-722-U-RBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1057646
Test Lab: INNOVATION CENTER(G1)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-SA1C-722-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 1050mA 1xLight Square PACKAGE 70CRI
2200K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (14) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3672.2 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 49.4
Input Voltage (V): 120
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

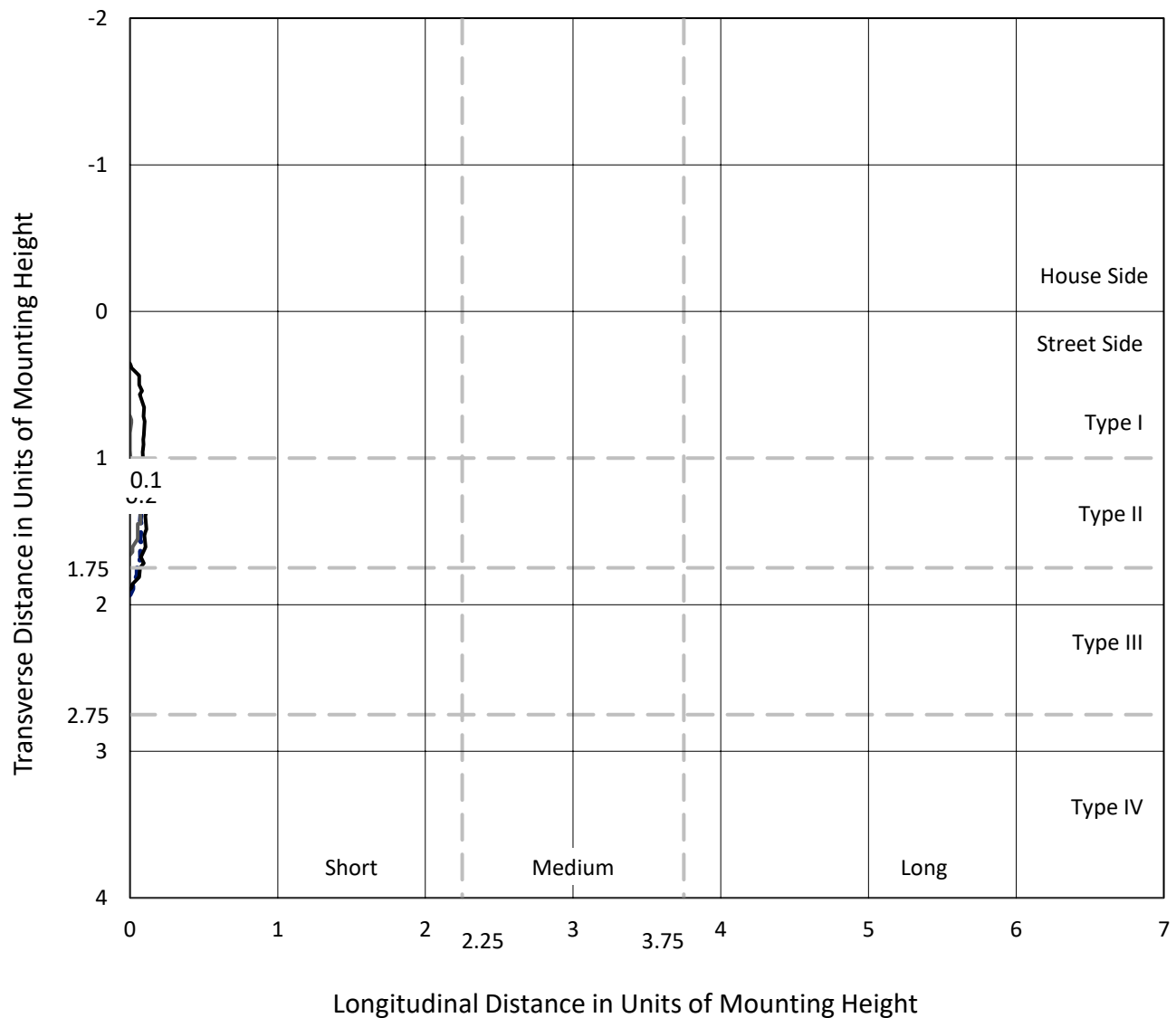


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

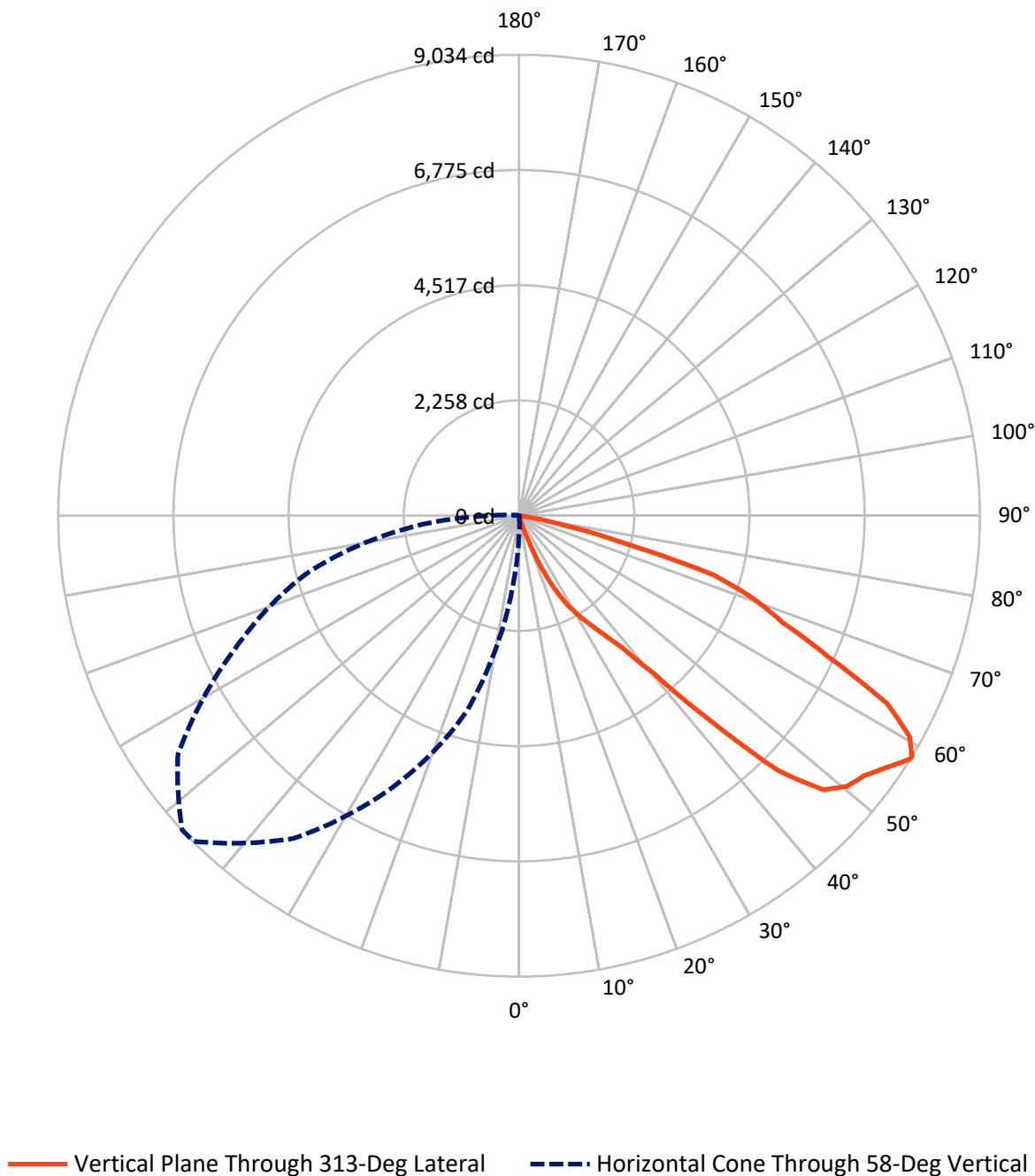


Based on 15 foot mounting height. Maximum calculated value = 0.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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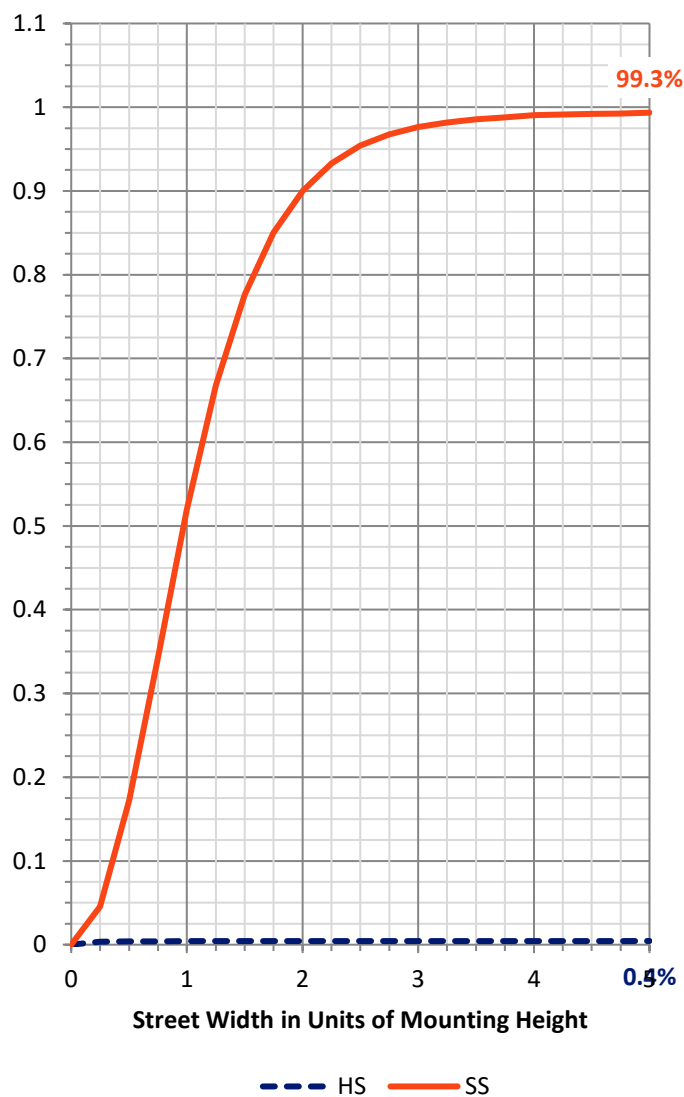
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16.4	0.0	16.4
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	3655.7	0.0	3655.7
	% Fixture	99.6	0.0	99.6
Total	Lumens	3672.2	0.0	3672.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.0
10°-20°	6.4	0.2
20°-30°	92.7	2.5
30°-40°	266.6	7.3
40°-50°	759.4	20.7
50°-60°	1194.6	32.5
60°-70°	1018.7	27.7
70°-80°	324.9	8.8
80°-90°	8.3	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°	3672.2	100.0
0°-180°	3672.2	100.0



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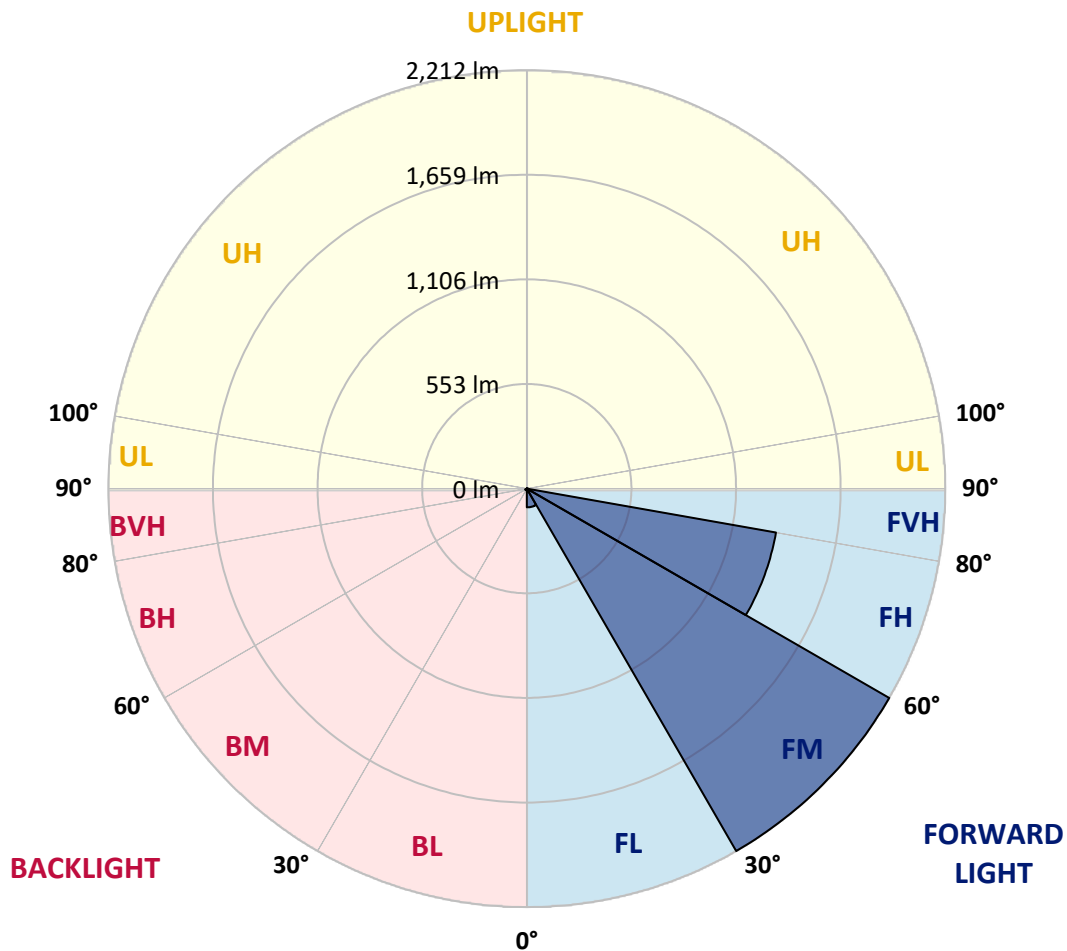
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	99.0	2.7			
FM	(30°-60°)	2211.8	60.2			
FH	(60°-80°)	1337.1	36.4			G1/1800
FVH	(80°-90°)	7.8	0.2			G0/10
BL	(0°-30°)	0.7	0.0	B0/110		
BM	(30°-60°)	8.8	0.2	B0/220		
BH	(60°-80°)	6.5	0.2	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
2.5°	13.2	14.0	14.7	14.0	12.5	9.6	9.6	7.3	5.1	2.9	2.2
5°	14.7	14.7	14.7	14.0	12.5	9.6	8.8	6.6	4.4	2.9	1.5
7.5°	16.2	16.2	15.4	14.0	11.8	9.6	8.8	6.6	4.4	2.2	0.0
10°	17.6	17.6	16.2	14.7	11.8	8.8	8.1	5.9	3.7	1.5	0.0
12.5°	19.8	19.1	16.9	14.7	11.8	8.1	8.1	5.9	2.9	0.7	0.0
15°	22.8	20.6	17.6	14.7	11.0	8.1	7.3	5.1	2.2	0.0	0.0
17.5°	25.0	22.8	18.4	14.0	10.3	7.3	6.6	4.4	2.2	0.0	0.0
20°	27.2	23.5	18.4	14.0	10.3	6.6	5.9	3.7	0.7	0.0	0.0
22.5°	30.9	25.0	18.4	14.0	9.6	5.9	5.1	2.9	0.0	0.0	0.0
25°	38.2	26.5	18.4	13.2	8.8	5.1	4.4	1.5	0.0	0.0	0.0
27.5°	47.0	28.7	18.4	12.5	8.1	4.4	3.7	0.7	0.0	0.0	0.0
30°	56.6	30.9	18.4	12.5	7.3	3.7	2.9	0.0	0.0	0.0	0.0
32.5°	66.9	33.8	18.4	11.8	6.6	2.9	2.2	0.0	0.0	0.0	0.0
35°	86.0	38.2	18.4	11.8	5.9	2.2	1.5	0.0	0.0	0.0	0.0
37.5°	94.8	44.1	18.4	11.0	5.9	1.5	0.7	0.0	0.0	0.0	0.0
40°	98.5	42.6	17.6	11.0	5.1	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	106.6	39.7	18.4	10.3	5.1	0.7	0.0	0.0	0.0	0.0	0.0
45°	130.1	39.7	19.8	10.3	4.4	1.5	0.0	0.0	0.0	0.0	0.0
47.5°	225.6	41.2	19.1	10.3	4.4	1.5	0.0	0.0	0.0	0.0	0.0
50°	371.1	48.5	18.4	11.0	5.1	0.7	0.0	0.0	0.0	0.0	0.0
52.5°	430.7	58.8	18.4	11.8	6.6	0.0	0.0	0.0	0.0	0.0	0.0
55°	413.0	72.0	18.4	12.5	8.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	375.5	68.3	19.8	14.7	10.3	0.0	0.0	0.0	0.0	0.0	0.0
58°	361.6	68.3	19.8	14.7	10.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	283.7	69.8	22.8	16.2	11.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	210.9	71.3	25.7	18.4	11.0	0.7	0.0	0.0	0.0	0.0	0.0
65°	156.5	74.2	27.2	21.3	10.3	1.5	0.0	0.0	0.0	0.0	0.0
67.5°	124.9	76.4	29.4	23.5	11.8	2.9	0.7	0.0	0.0	0.0	0.0
70°	107.3	73.5	31.6	24.3	11.0	4.4	2.2	0.0	0.0	0.0	0.0
72.5°	95.5	69.1	36.0	23.5	11.8	4.4	2.2	0.0	0.0	0.0	0.0
75°	86.0	63.2	41.2	22.8	11.8	4.4	2.9	0.0	0.0	0.0	0.0
77.5°	64.7	55.1	40.4	22.0	11.0	4.4	2.9	0.0	0.0	0.0	0.0
80°	32.3	36.7	35.3	19.8	8.8	3.7	2.9	0.7	0.0	0.0	0.0
82.5°	13.2	14.0	17.6	14.7	7.3	2.9	2.9	0.7	0.0	0.0	0.0
85°	1.5	2.9	5.1	5.9	5.1	2.9	2.9	0.7	0.0	0.0	0.0
87.5°	0.0	0.7	2.9	4.4	3.7	2.2	1.5	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°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
2.5°	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	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°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
2.5°	0.7	1.5	1.5	1.5	2.2	2.2	2.9	3.7	3.7	3.7	4.4
5°	0.0	0.0	0.7	0.7	1.5	2.2	2.9	4.4	5.1	5.1	5.9
7.5°	0.0	0.0	0.0	0.7	1.5	2.2	2.9	4.4	5.9	6.6	7.3
10°	0.0	0.0	0.0	0.0	0.7	1.5	2.9	5.1	7.3	8.8	10.3
12.5°	0.0	0.0	0.0	0.0	0.0	0.7	2.9	5.9	8.8	11.0	12.5
15°	0.0	0.0	0.0	0.0	0.0	0.7	2.9	5.9	11.0	13.2	16.2
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	6.6	12.5	16.2	22.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.6	14.0	19.8	33.1
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.6	15.4	25.7	61.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	6.6	17.6	38.2	101.4
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	7.3	21.3	53.6	148.5
30°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	7.3	26.5	72.8	207.2
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	7.3	30.9	91.9	282.2
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	36.7	122.0	354.2
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	45.6	134.5	415.2
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	43.4	146.2	485.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	39.7	163.2	594.5
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	39.7	216.1	837.1
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	48.5	336.6	1279.5
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	62.5	516.6	1821.8
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	75.7	635.7	2136.4
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	91.1	636.4	2126.1
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	101.4	569.6	1918.9
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	100.7	551.2	1861.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	7.3	88.2	478.4	1624.9
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	11.8	77.2	343.2	1347.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	5.9	13.2	70.6	249.1	1011.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.3	15.4	67.6	176.4	703.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	8.8	17.6	62.5	126.4	463.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.8	22.0	58.8	99.2	279.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	8.8	27.9	51.4	80.8	149.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.8	30.1	42.6	58.8	91.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	8.1	27.2	30.9	25.7	30.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	16.2	6.6	6.6	10.3
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):

	285°	295°	305°	313°	315°	325°	335°	345°	355°	360°
0°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
2.5°	5.1	5.1	5.1	5.1	5.9	5.9	8.1	10.3	12.5	13.2
5°	6.6	7.3	8.1	8.1	8.1	8.8	10.3	11.8	14.0	14.7
7.5°	9.6	10.3	11.8	11.8	11.8	12.5	13.2	14.7	16.2	16.2
10°	12.5	14.7	15.4	16.2	16.9	16.9	16.9	17.6	18.4	17.6
12.5°	16.9	19.8	23.5	24.3	24.3	24.3	23.5	22.0	20.6	19.8
15°	23.5	32.3	44.1	48.5	46.3	41.2	36.0	27.9	24.3	22.8
17.5°	43.4	88.2	160.2	177.1	173.4	149.2	87.5	42.6	28.7	25.0
20°	116.9	285.1	470.3	515.2	538.7	446.1	258.0	99.2	35.3	27.2
22.5°	252.1	592.3	917.9	1034.0	1041.4	837.8	501.9	201.4	50.7	30.9
25°	405.7	947.3	1391.2	1503.6	1505.8	1291.2	802.5	326.3	77.2	38.2
27.5°	621.7	1328.0	1824.8	1918.1	1916.7	1699.1	1159.7	498.3	108.0	47.0
30°	842.9	1624.9	2110.7	2226.8	2237.8	1977.7	1458.1	701.8	141.1	56.6
32.5°	1061.9	1844.6	2371.6	2525.9	2516.3	2223.8	1666.0	868.7	197.7	66.9
35°	1234.7	2032.0	2660.4	2850.0	2857.3	2494.3	1850.5	1030.3	246.2	86.0
37.5°	1382.4	2273.8	3044.7	3263.7	3273.3	2830.9	2043.8	1189.1	288.1	94.8
40°	1564.6	2670.7	3681.2	4053.0	4054.5	3458.5	2391.4	1366.9	344.7	98.5
42.5°	1974.0	3521.0	4924.7	5458.9	5505.2	4760.8	3181.4	1752.8	433.6	106.6
45°	2792.7	4641.7	6510.6	7125.7	7184.5	6381.3	4535.9	2643.5	629.1	130.1
47.5°	3766.4	5616.2	7432.2	8024.5	8063.5	7147.8	5442.8	3673.8	1070.8	225.6
50°	4365.4	5977.0	7771.0	8336.1	8342.7	7399.8	5727.2	4208.8	1525.7	371.1
52.5°	4551.3	6023.3	7784.2	8467.7	8486.8	7370.4	5766.1	4316.9	1715.3	430.7
55°	4475.6	5996.2	7923.8	8719.0	8739.6	7490.2	5739.7	4198.6	1626.4	413.0
57.5°	4302.9	6102.0	8153.1	9017.4	9017.4	7711.4	5837.4	4000.1	1408.8	375.5
58°	4277.2	6128.4	8165.6	9033.6	9026.9	7725.4	5877.8	3971.5	1361.1	361.6
60°	4241.9	6210.0	8073.0	8794.7	8775.6	7626.9	5951.3	3945.7	1129.6	283.7
62.5°	4190.5	6026.3	7398.4	8092.1	8042.9	6936.8	5740.4	3795.1	842.9	210.9
65°	3926.6	5348.0	6167.4	6648.0	6632.6	5706.6	4940.8	3399.7	607.0	156.5
67.5°	3310.0	4186.8	4982.0	5561.1	5564.8	4658.6	3864.2	2717.0	413.0	124.9
70°	2328.2	3088.1	4235.3	4879.8	4909.2	3907.5	2862.5	1810.8	272.7	107.3
72.5°	1390.5	2332.6	3521.7	4011.2	3995.7	3242.4	2123.9	1079.6	166.1	95.5
75°	673.9	1394.1	1780.0	2064.4	2052.6	1622.0	1131.8	529.1	121.3	86.0
77.5°	183.0	428.5	689.3	896.6	920.8	649.7	371.1	141.8	75.7	64.7
80°	61.7	132.3	224.9	305.7	313.8	280.7	139.6	50.0	33.1	32.3
82.5°	23.5	32.3	41.2	36.7	36.7	38.2	30.1	21.3	15.4	13.2
85°	0.0	0.0	0.7	1.5	1.5	2.2	2.2	2.2	1.5	1.5
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

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

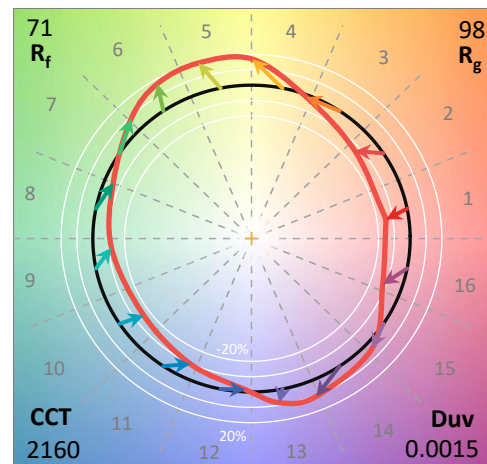
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

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

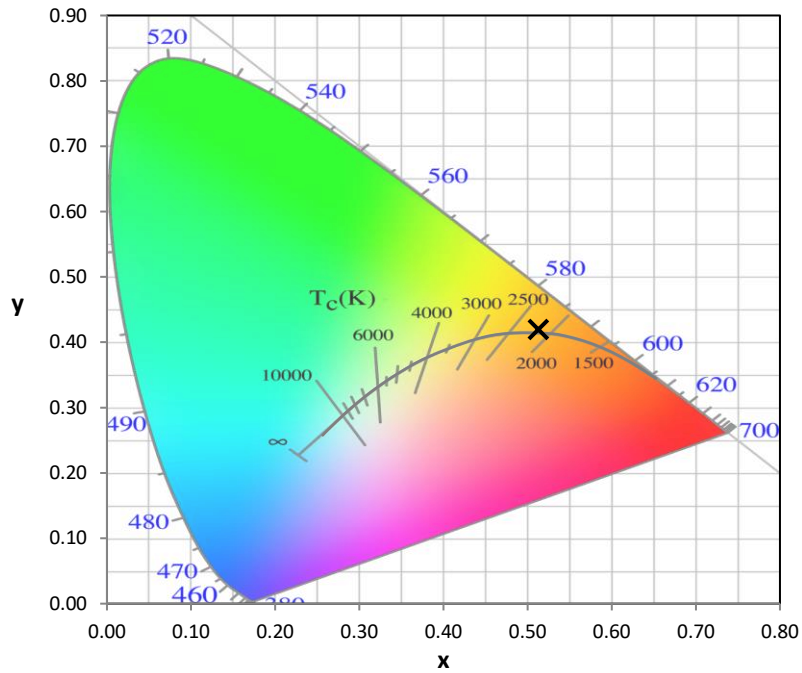
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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 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	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 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	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			

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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)