

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: McGRAW-EDISON

Report Number: P991224

Luminaire Tested: **GPC-SA1D-722-U-RBC**

Issue Date: 07/03/2025

Test Information

Test Method: LM-79-08
Report Number: P991224
Test Lab: INNOVATION CENTER(G1)
Issue Date: 07/03/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-SA1D-722-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 1200mA 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: 4023.8 lumens
Efficiency: N/A
Efficacy: 71.7 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): 56.1
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: 24 FT



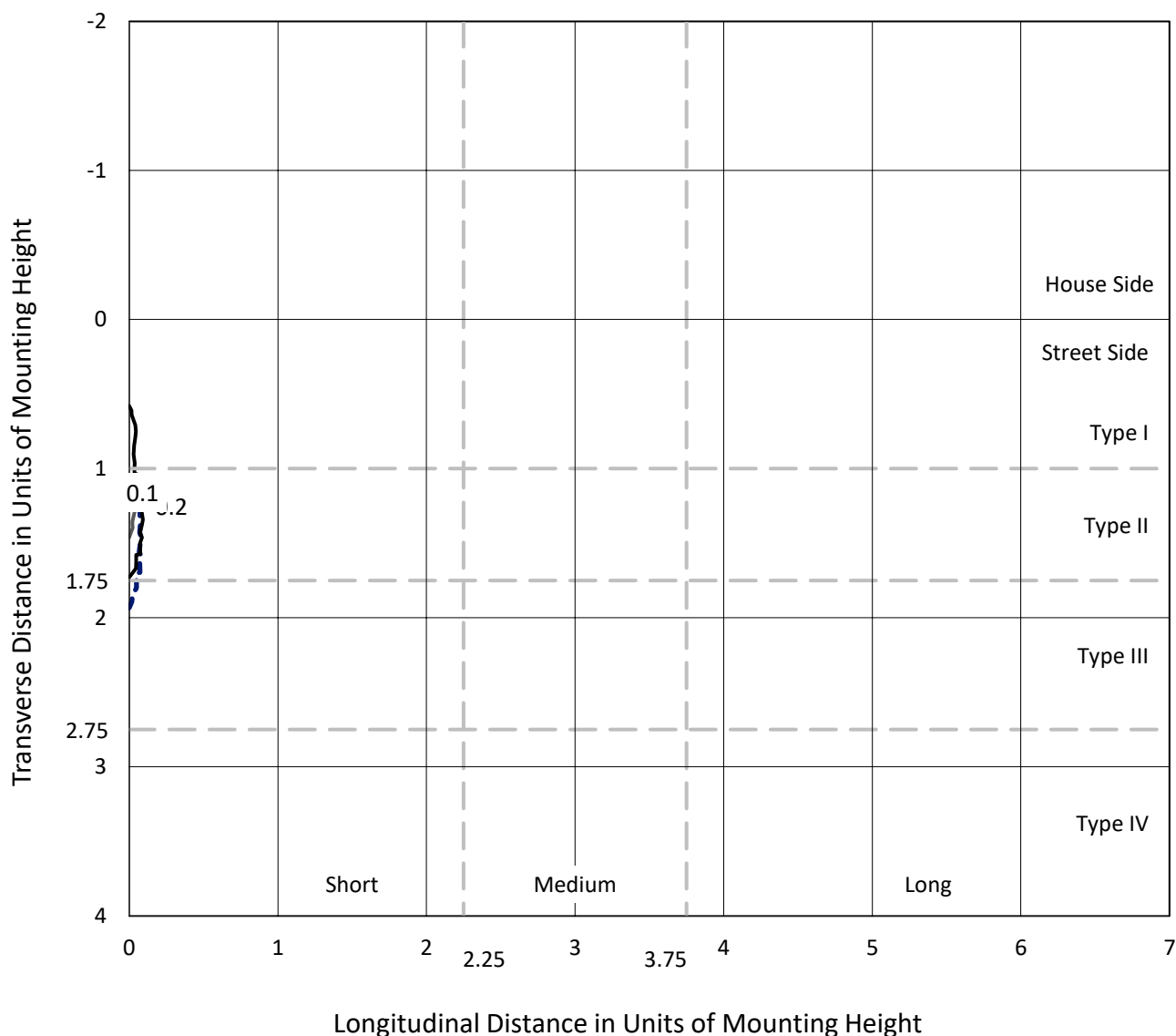
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

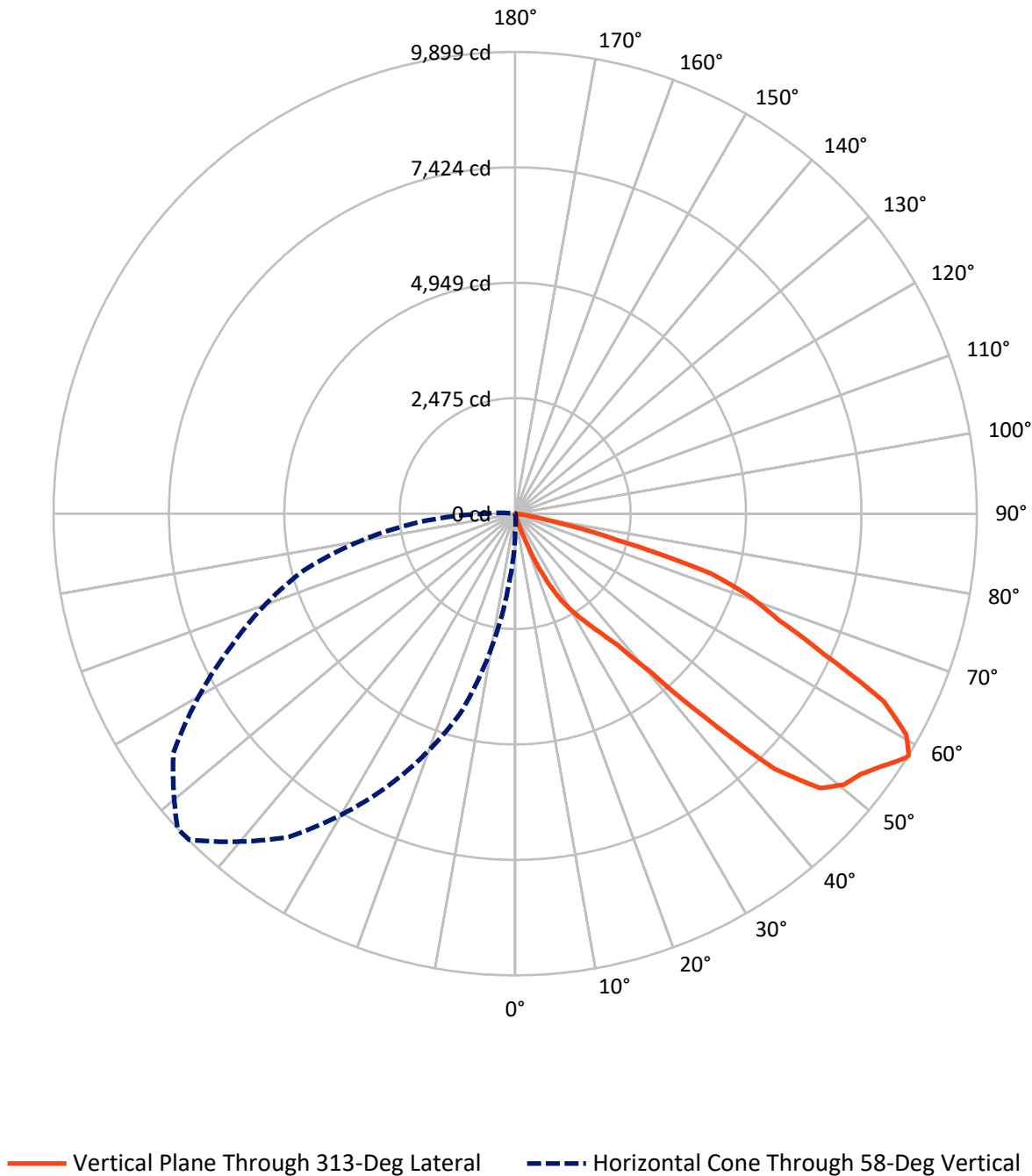


Based on 20 foot mounting height. Maximum calculated value = 0.3 fc

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	18.0	0.0	18.0
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	4005.8	0.0	4005.8
	% Fixture	99.6	0.0	99.6
Total	Lumens	4023.8	0.0	4023.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.6	0.0
10°-20°	7.0	0.2
20°-30°	101.6	2.5
30°-40°	292.1	7.3
40°-50°	832.2	20.7
50°-60°	1309.0	32.5
60°-70°	1116.3	27.7
70°-80°	356.1	8.8
80°-90°	9.1	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°	4023.8	100.0
0°-180°	4023.8	100.0



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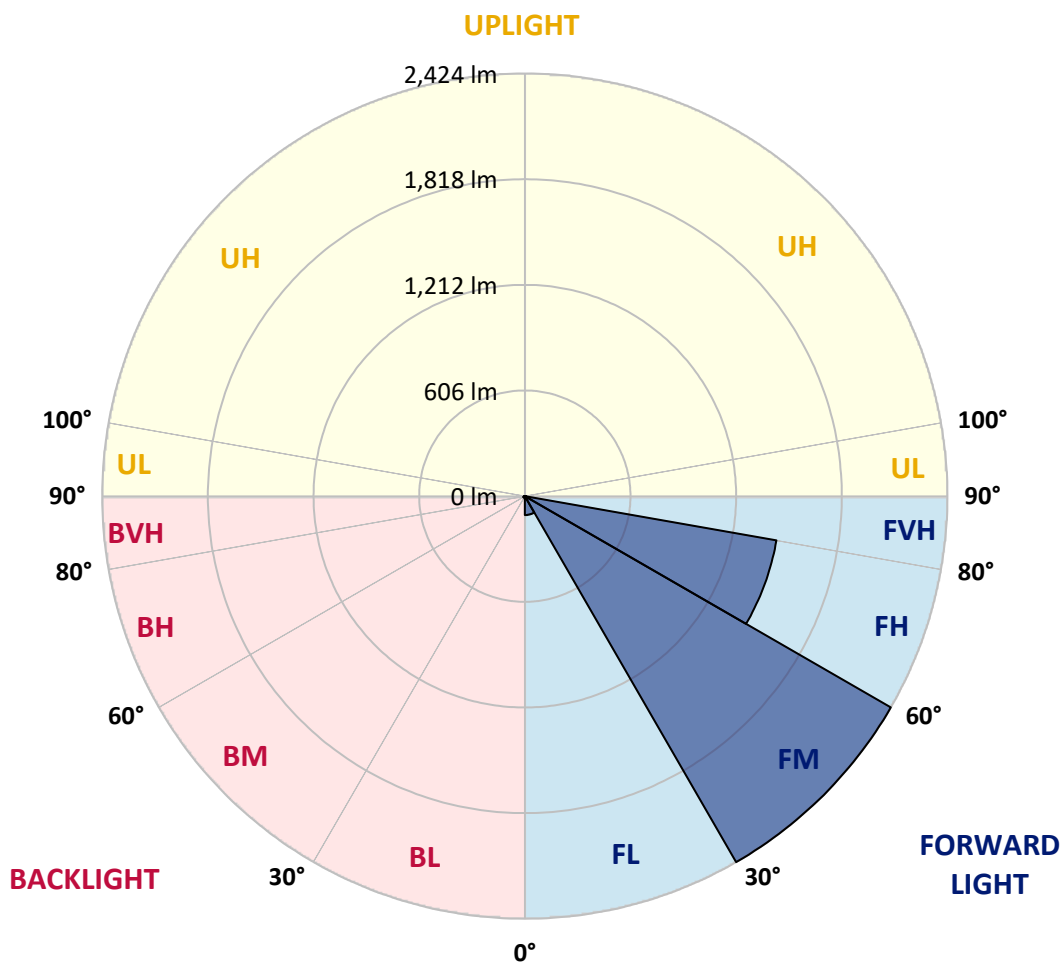
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	108.5	2.7			
FM	(30°-60°)	2423.6	60.2			
FH	(60°-80°)	1465.2	36.4			G1/1800
FVH	(80°-90°)	8.6	0.2			G0/10
BL	(0°-30°)	0.7	0.0	B0/110		
BM	(30°-60°)	9.6	0.2	B0/220		
BH	(60°-80°)	7.2	0.2	B0/110		G0/110
BVH	(80°-90°)	0.5	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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
2.5°	14.5	15.3	16.1	15.3	13.7	10.5	10.5	8.1	5.6	3.2	2.4
5°	16.1	16.1	16.1	15.3	13.7	10.5	9.7	7.2	4.8	3.2	1.6
7.5°	17.7	17.7	16.9	15.3	12.9	10.5	9.7	7.2	4.8	2.4	0.0
10°	19.3	19.3	17.7	16.1	12.9	9.7	8.9	6.4	4.0	1.6	0.0
12.5°	21.7	20.9	18.5	16.1	12.9	8.9	8.9	6.4	3.2	0.8	0.0
15°	25.0	22.5	19.3	16.1	12.1	8.9	8.1	5.6	2.4	0.0	0.0
17.5°	27.4	25.0	20.1	15.3	11.3	8.1	7.2	4.8	2.4	0.0	0.0
20°	29.8	25.8	20.1	15.3	11.3	7.2	6.4	4.0	0.8	0.0	0.0
22.5°	33.8	27.4	20.1	15.3	10.5	6.4	5.6	3.2	0.0	0.0	0.0
25°	41.9	29.0	20.1	14.5	9.7	5.6	4.8	1.6	0.0	0.0	0.0
27.5°	51.5	31.4	20.1	13.7	8.9	4.8	4.0	0.8	0.0	0.0	0.0
30°	62.0	33.8	20.1	13.7	8.1	4.0	3.2	0.0	0.0	0.0	0.0
32.5°	73.3	37.0	20.1	12.9	7.2	3.2	2.4	0.0	0.0	0.0	0.0
35°	94.2	41.9	20.1	12.9	6.4	2.4	1.6	0.0	0.0	0.0	0.0
37.5°	103.9	48.3	20.1	12.1	6.4	1.6	0.8	0.0	0.0	0.0	0.0
40°	107.9	46.7	19.3	12.1	5.6	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	116.8	43.5	20.1	11.3	5.6	0.8	0.0	0.0	0.0	0.0	0.0
45°	142.5	43.5	21.7	11.3	4.8	1.6	0.0	0.0	0.0	0.0	0.0
47.5°	247.2	45.1	20.9	11.3	4.8	1.6	0.0	0.0	0.0	0.0	0.0
50°	406.7	53.1	20.1	12.1	5.6	0.8	0.0	0.0	0.0	0.0	0.0
52.5°	471.9	64.4	20.1	12.9	7.2	0.0	0.0	0.0	0.0	0.0	0.0
55°	452.6	78.9	20.1	13.7	8.9	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	411.5	74.9	21.7	16.1	11.3	0.0	0.0	0.0	0.0	0.0	0.0
58°	396.2	74.9	21.7	16.1	11.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	310.8	76.5	25.0	17.7	12.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	231.1	78.1	28.2	20.1	12.1	0.8	0.0	0.0	0.0	0.0	0.0
65°	171.5	81.3	29.8	23.4	11.3	1.6	0.0	0.0	0.0	0.0	0.0
67.5°	136.9	83.8	32.2	25.8	12.9	3.2	0.8	0.0	0.0	0.0	0.0
70°	117.6	80.5	34.6	26.6	12.1	4.8	2.4	0.0	0.0	0.0	0.0
72.5°	104.7	75.7	39.5	25.8	12.9	4.8	2.4	0.0	0.0	0.0	0.0
75°	94.2	69.3	45.1	25.0	12.9	4.8	3.2	0.0	0.0	0.0	0.0
77.5°	70.9	60.4	44.3	24.2	12.1	4.8	3.2	0.0	0.0	0.0	0.0
80°	35.4	40.3	38.7	21.7	9.7	4.0	3.2	0.8	0.0	0.0	0.0
82.5°	14.5	15.3	19.3	16.1	8.1	3.2	3.2	0.8	0.0	0.0	0.0
85°	1.6	3.2	5.6	6.4	5.6	3.2	3.2	0.8	0.0	0.0	0.0
87.5°	0.0	0.8	3.2	4.8	4.0	2.4	1.6	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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
2.5°	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
5°	0.8	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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
2.5°	0.8	1.6	1.6	1.6	2.4	2.4	3.2	4.0	4.0	4.0	4.8
5°	0.0	0.0	0.8	0.8	1.6	2.4	3.2	4.8	5.6	5.6	6.4
7.5°	0.0	0.0	0.0	0.8	1.6	2.4	3.2	4.8	6.4	7.2	8.1
10°	0.0	0.0	0.0	0.0	0.8	1.6	3.2	5.6	8.1	9.7	11.3
12.5°	0.0	0.0	0.0	0.0	0.0	0.8	3.2	6.4	9.7	12.1	13.7
15°	0.0	0.0	0.0	0.0	0.0	0.8	3.2	6.4	12.1	14.5	17.7
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	7.2	13.7	17.7	24.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	7.2	15.3	21.7	36.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	7.2	16.9	28.2	66.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	7.2	19.3	41.9	111.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	8.1	23.4	58.8	162.7
30°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	8.1	29.0	79.7	227.1
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	8.1	33.8	100.7	309.2
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	40.3	133.7	388.2
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	49.9	147.4	455.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	47.5	160.3	531.5
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	43.5	178.8	651.5
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	43.5	236.8	917.2
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	53.1	368.8	1402.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	68.5	566.1	1996.3
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	82.9	696.6	2341.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	99.9	697.4	2329.7
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	111.1	624.1	2102.6
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	110.3	604.0	2039.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	8.1	96.6	524.2	1780.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	12.9	84.6	376.1	1476.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	6.4	14.5	77.3	273.0	1108.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.1	16.9	74.1	193.3	770.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	9.7	19.3	68.5	138.5	507.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.7	24.2	64.4	108.7	306.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	9.7	30.6	56.4	88.6	164.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.7	33.0	46.7	64.4	99.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	8.9	29.8	33.8	28.2	33.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.8	17.7	7.2	7.2	11.3
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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
2.5°	5.6	5.6	5.6	5.6	6.4	6.4	8.9	11.3	13.7	14.5
5°	7.2	8.1	8.9	8.9	8.9	9.7	11.3	12.9	15.3	16.1
7.5°	10.5	11.3	12.9	12.9	12.9	13.7	14.5	16.1	17.7	17.7
10°	13.7	16.1	16.9	17.7	18.5	18.5	18.5	19.3	20.1	19.3
12.5°	18.5	21.7	25.8	26.6	26.6	26.6	25.8	24.2	22.5	21.7
15°	25.8	35.4	48.3	53.1	50.7	45.1	39.5	30.6	26.6	25.0
17.5°	47.5	96.6	175.6	194.1	190.0	163.5	95.8	46.7	31.4	27.4
20°	128.0	312.5	515.4	564.5	590.3	488.8	282.7	108.7	38.7	29.8
22.5°	276.2	649.1	1005.8	1133.0	1141.1	918.0	550.0	220.7	55.6	33.8
25°	444.5	1038.0	1524.4	1647.6	1650.0	1414.9	879.4	357.6	84.6	41.9
27.5°	681.3	1455.2	1999.5	2101.8	2100.2	1861.8	1270.8	546.0	118.4	51.5
30°	923.7	1780.5	2312.8	2440.0	2452.1	2167.0	1597.7	769.1	154.6	62.0
32.5°	1163.7	2021.3	2598.7	2767.8	2757.3	2436.8	1825.6	951.9	216.6	73.3
35°	1352.9	2226.6	2915.2	3122.9	3131.0	2733.2	2027.7	1129.0	269.8	94.2
37.5°	1514.8	2491.6	3336.3	3576.3	3586.8	3102.0	2239.5	1303.0	315.7	103.9
40°	1714.5	2926.4	4033.7	4441.2	4442.8	3789.7	2620.4	1497.8	377.7	107.9
42.5°	2163.0	3858.2	5396.3	5981.7	6032.5	5216.7	3486.1	1920.6	475.1	116.8
45°	3060.1	5086.2	7134.1	7808.1	7872.6	6992.4	4970.3	2896.6	689.3	142.5
47.5°	4127.1	6154.1	8143.9	8793.0	8835.7	7832.3	5964.0	4025.7	1173.3	247.2
50°	4783.5	6549.5	8515.2	9134.5	9141.7	8108.5	6275.7	4611.9	1671.8	406.7
52.5°	4987.2	6600.2	8529.7	9278.6	9299.5	8076.3	6318.3	4730.3	1879.6	471.9
55°	4904.2	6570.4	8682.7	9554.0	9576.6	8207.6	6289.4	4600.7	1782.1	452.6
57.5°	4715.0	6686.4	8933.9	9881.0	9881.0	8450.0	6396.5	4383.2	1543.8	411.5
58°	4686.8	6715.4	8947.6	9898.7	9891.4	8465.3	6440.7	4351.8	1491.4	396.2
60°	4648.2	6804.7	8846.2	9637.0	9616.0	8357.4	6521.3	4323.6	1237.7	310.8
62.5°	4591.8	6603.4	8106.9	8867.1	8813.1	7601.2	6290.2	4158.5	923.7	231.1
65°	4302.7	5860.1	6758.0	7284.7	7267.8	6253.1	5414.0	3725.3	665.2	171.5
67.5°	3627.0	4587.8	5459.1	6093.7	6097.7	5104.8	4234.2	2977.2	452.6	136.9
70°	2551.2	3383.8	4640.9	5347.2	5379.4	4281.8	3136.6	1984.2	298.8	117.6
72.5°	1523.6	2556.0	3859.0	4395.3	4378.4	3553.0	2327.3	1183.0	182.0	104.7
75°	738.5	1527.6	1950.4	2262.1	2249.2	1777.3	1240.2	579.8	132.9	94.2
77.5°	200.5	469.5	755.4	982.5	1009.0	711.9	406.7	155.4	82.9	70.9
80°	67.6	145.0	246.4	335.0	343.9	307.6	153.0	54.8	36.2	35.4
82.5°	25.8	35.4	45.1	40.3	40.3	41.9	33.0	23.4	16.9	14.5
85°	0.0	0.0	0.8	1.6	1.6	2.4	2.4	2.4	1.6	1.6
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

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

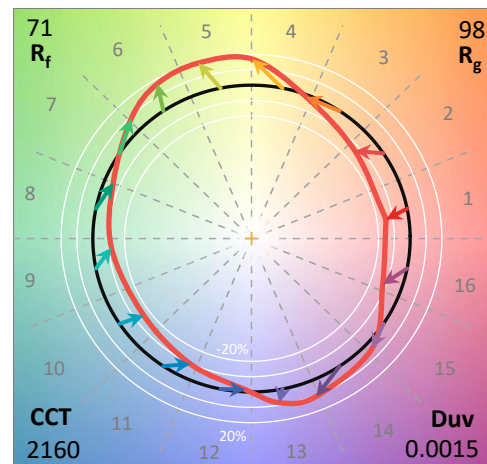
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

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 ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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			

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TM-30-18

Summary

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

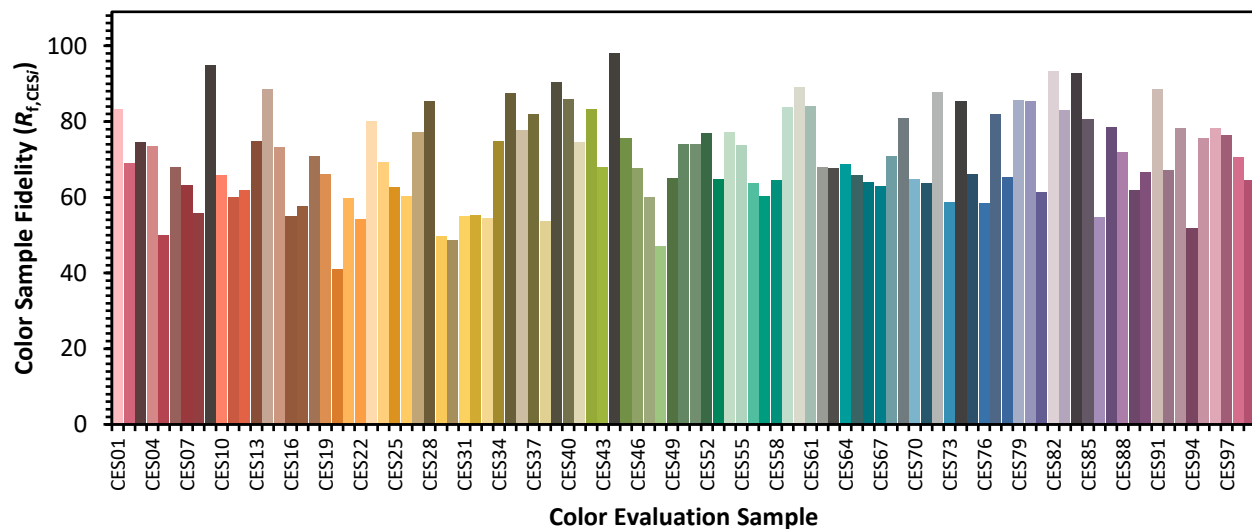


Color Vector Graphics

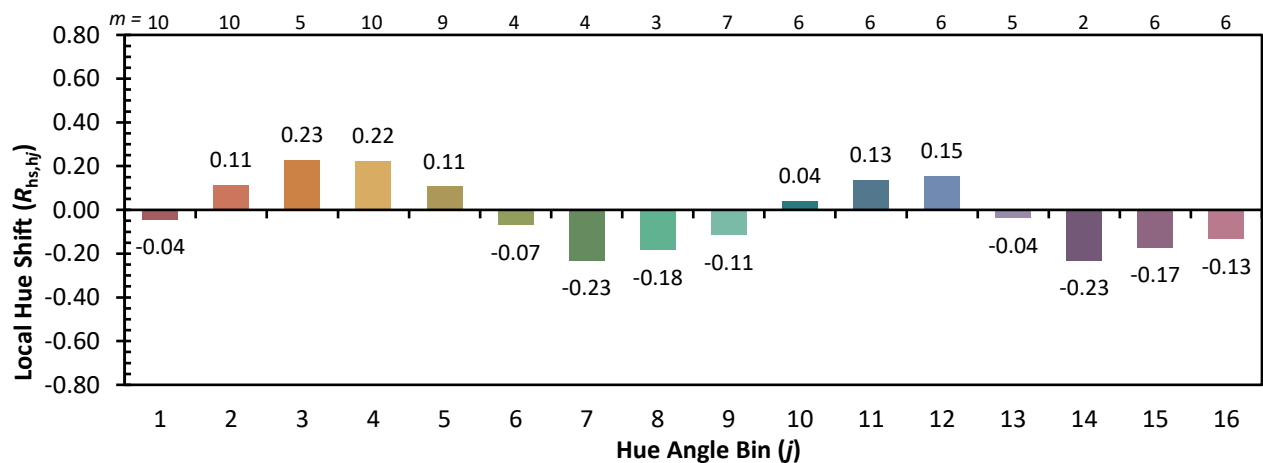
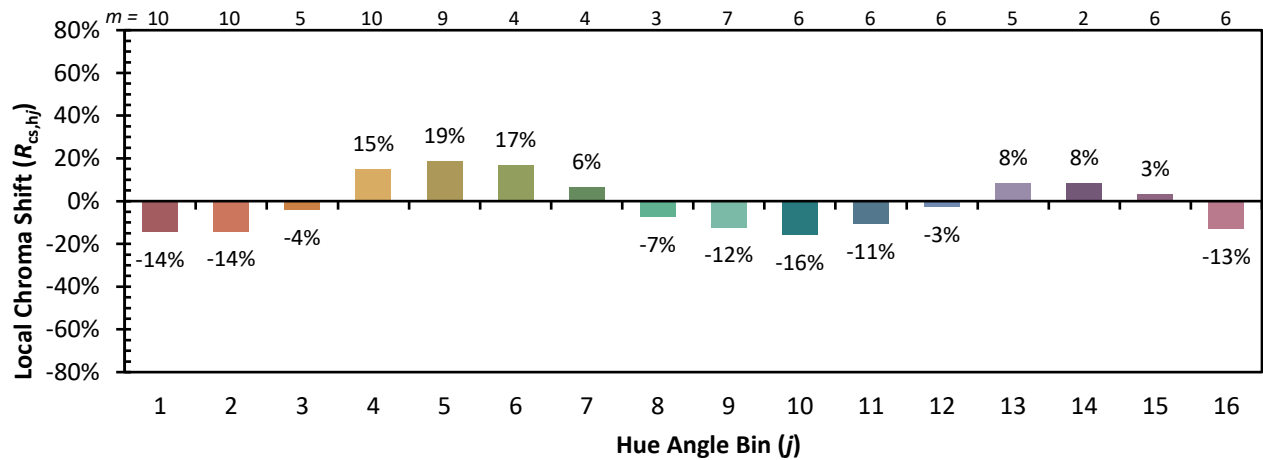


Individual Sample Fidelity Index ($R_{f,i}$)

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)