

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: P991287

Luminaire Tested: **GPC-SA2A-827-U-RBC**

Issue Date: 07/03/2025

Test Information

Test Method: LM-79-08
Report Number: P991287
Test Lab: INNOVATION CENTER(G1)
Issue Date: 07/03/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-SA2A-827-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 615mA 2xLight Square PACKAGE 80CRI
2700K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (28) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4543.7 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 55.6
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



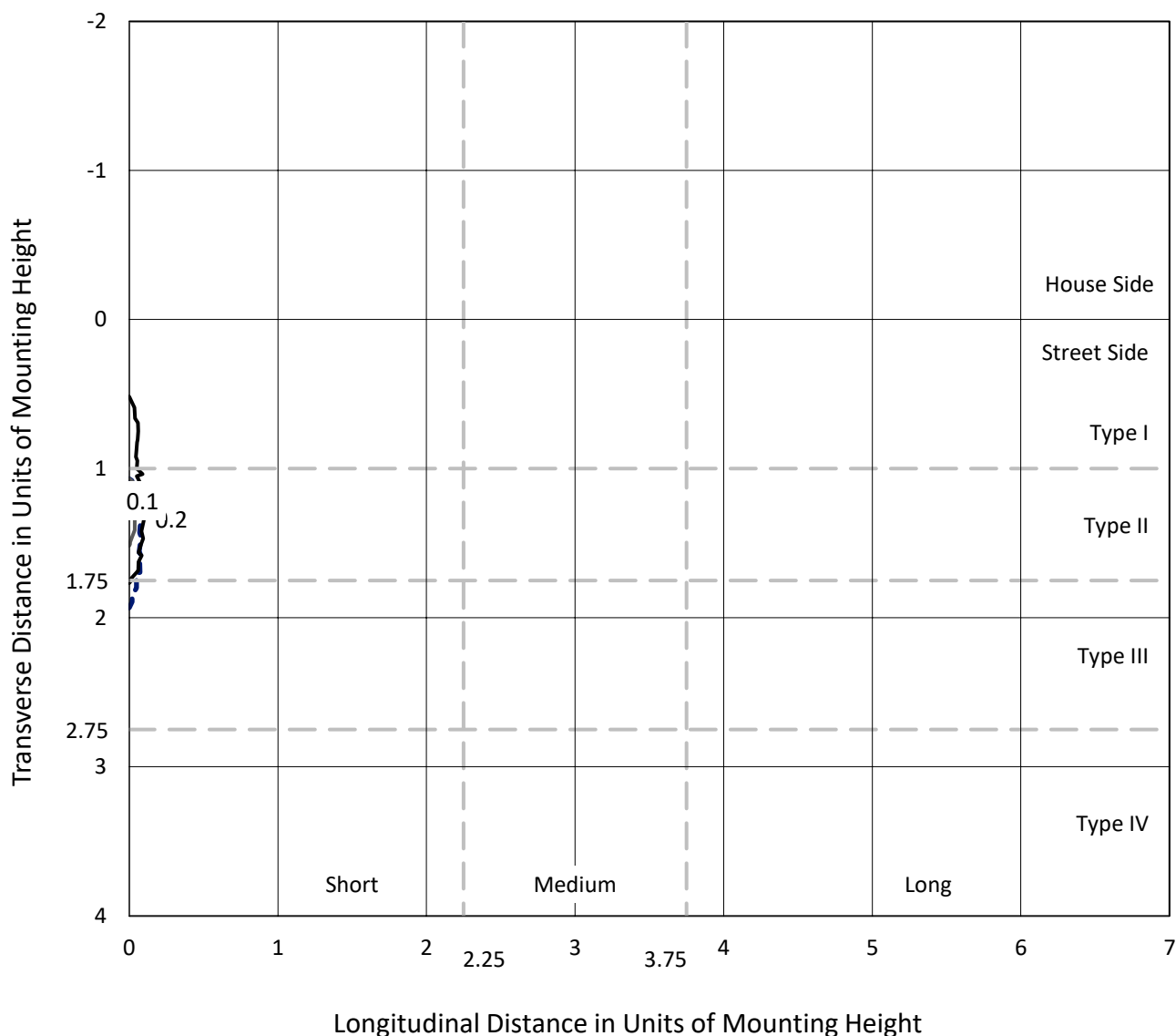
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

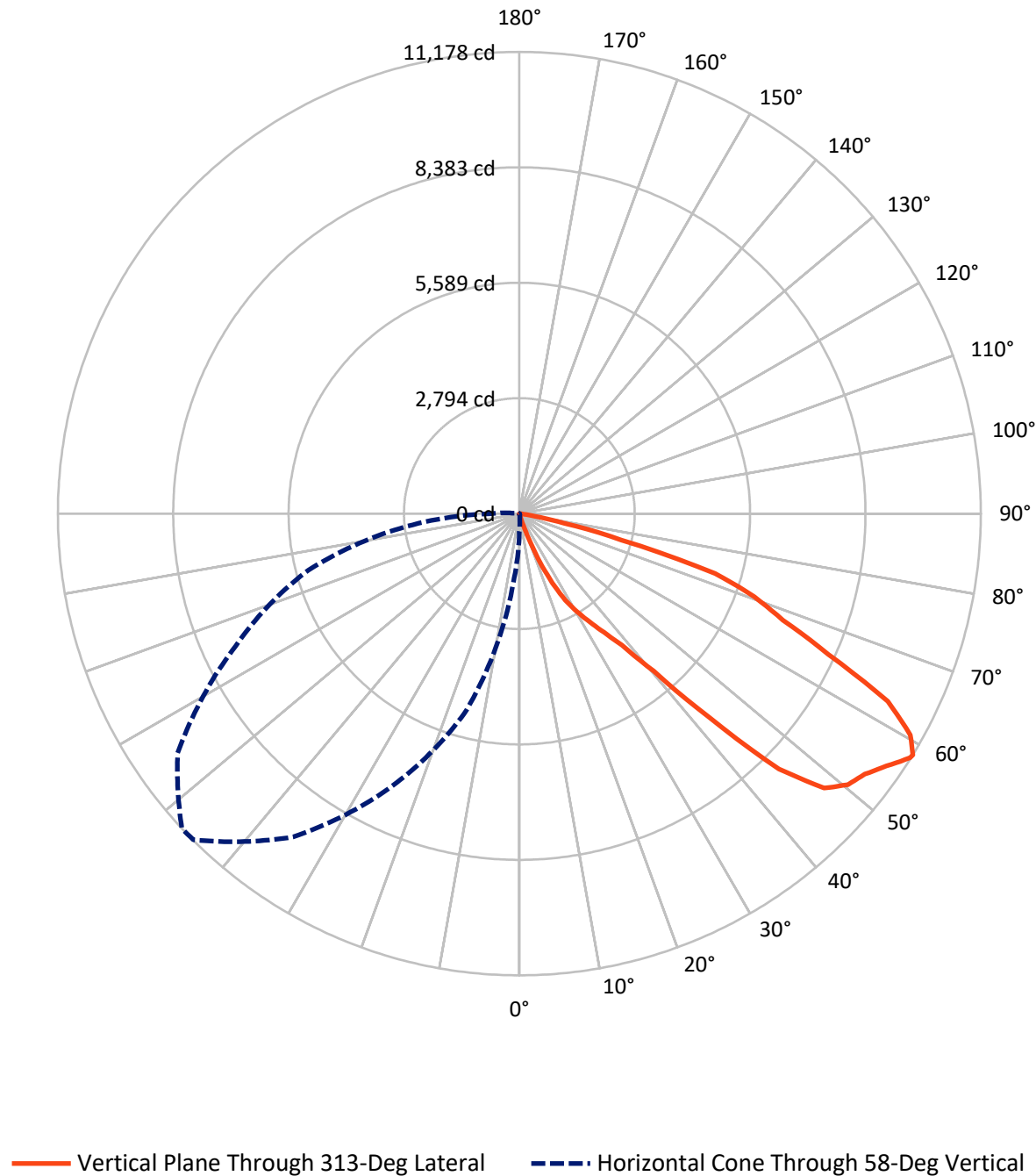


Based on 20 foot mounting height. Maximum calculated value = 0.3 fc

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	20.3	0.0	20.3
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	4523.4	0.0	4523.4
	% Fixture	99.6	0.0	99.6
Total	Lumens	4543.7	0.0	4543.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.7	0.0
10°-20°	7.9	0.2
20°-30°	114.7	2.5
30°-40°	329.9	7.3
40°-50°	939.7	20.7
50°-60°	1478.1	32.5
60°-70°	1260.5	27.7
70°-80°	402.1	8.8
80°-90°	10.2	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°	4543.7	100.0
0°-180°	4543.7	100.0



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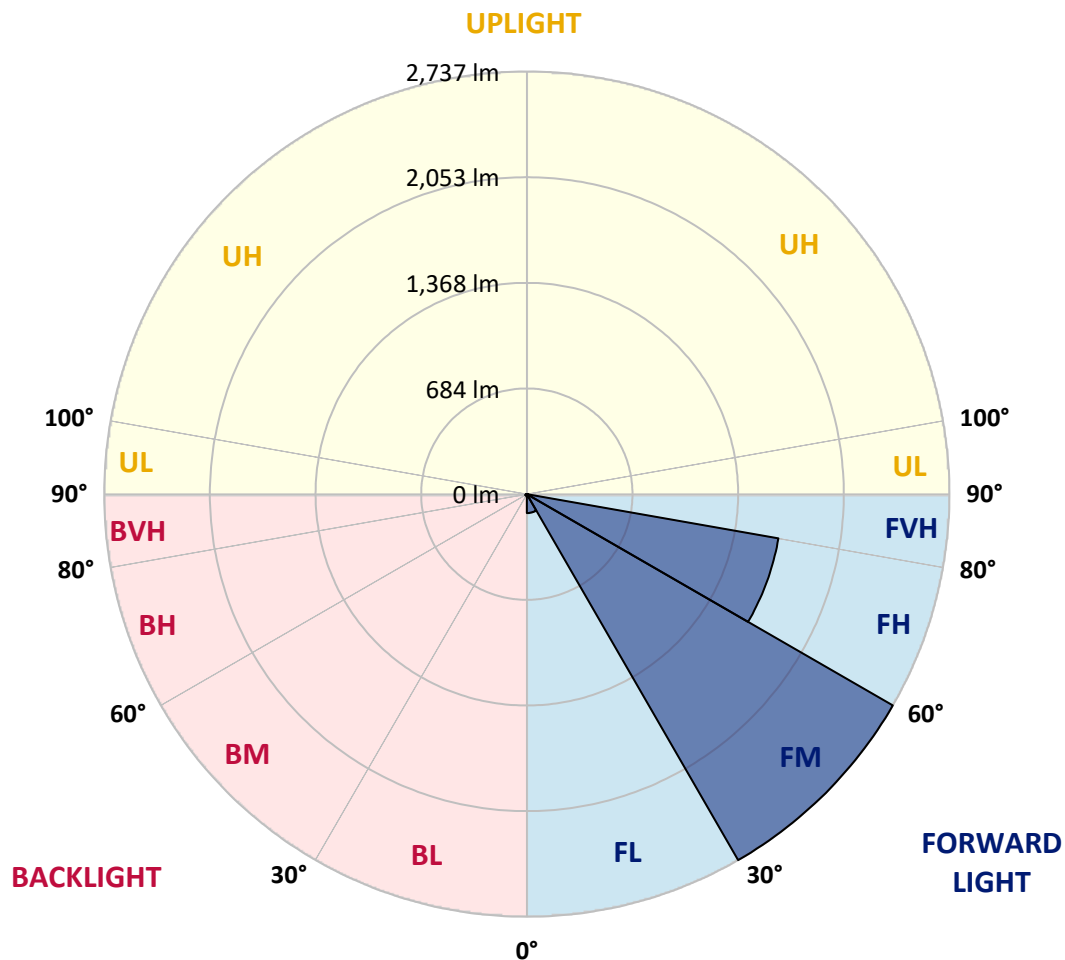
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	122.5	2.7			
FM	(30°-60°)	2736.7	60.2			
FH	(60°-80°)	1654.5	36.4			G1/1800
FVH	(80°-90°)	9.7	0.2			G0/10
BL	(0°-30°)	0.8	0.0	B0/110		
BM	(30°-60°)	10.9	0.2	B0/220		
BH	(60°-80°)	8.1	0.2	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	16.4	17.3	18.2	17.3	15.5	11.8	11.8	9.1	6.4	3.6	2.7
5°	18.2	18.2	18.2	17.3	15.5	11.8	10.9	8.2	5.5	3.6	1.8
7.5°	20.0	20.0	19.1	17.3	14.5	11.8	10.9	8.2	5.5	2.7	0.0
10°	21.8	21.8	20.0	18.2	14.5	10.9	10.0	7.3	4.5	1.8	0.0
12.5°	24.6	23.6	20.9	18.2	14.5	10.0	10.0	7.3	3.6	0.9	0.0
15°	28.2	25.5	21.8	18.2	13.6	10.0	9.1	6.4	2.7	0.0	0.0
17.5°	30.9	28.2	22.7	17.3	12.7	9.1	8.2	5.5	2.7	0.0	0.0
20°	33.6	29.1	22.7	17.3	12.7	8.2	7.3	4.5	0.9	0.0	0.0
22.5°	38.2	30.9	22.7	17.3	11.8	7.3	6.4	3.6	0.0	0.0	0.0
25°	47.3	32.7	22.7	16.4	10.9	6.4	5.5	1.8	0.0	0.0	0.0
27.5°	58.2	35.5	22.7	15.5	10.0	5.5	4.5	0.9	0.0	0.0	0.0
30°	70.0	38.2	22.7	15.5	9.1	4.5	3.6	0.0	0.0	0.0	0.0
32.5°	82.7	41.8	22.7	14.5	8.2	3.6	2.7	0.0	0.0	0.0	0.0
35°	106.4	47.3	22.7	14.5	7.3	2.7	1.8	0.0	0.0	0.0	0.0
37.5°	117.3	54.6	22.7	13.6	7.3	1.8	0.9	0.0	0.0	0.0	0.0
40°	121.9	52.7	21.8	13.6	6.4	0.9	0.0	0.0	0.0	0.0	0.0
42.5°	131.9	49.1	22.7	12.7	6.4	0.9	0.0	0.0	0.0	0.0	0.0
45°	161.0	49.1	24.6	12.7	5.5	1.8	0.0	0.0	0.0	0.0	0.0
47.5°	279.2	50.9	23.6	12.7	5.5	1.8	0.0	0.0	0.0	0.0	0.0
50°	459.2	60.0	22.7	13.6	6.4	0.9	0.0	0.0	0.0	0.0	0.0
52.5°	532.9	72.7	22.7	14.5	8.2	0.0	0.0	0.0	0.0	0.0	0.0
55°	511.0	89.1	22.7	15.5	10.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	464.7	84.6	24.6	18.2	12.7	0.0	0.0	0.0	0.0	0.0	0.0
58°	447.4	84.6	24.6	18.2	12.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	351.0	86.4	28.2	20.0	13.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	261.0	88.2	31.8	22.7	13.6	0.9	0.0	0.0	0.0	0.0	0.0
65°	193.7	91.8	33.6	26.4	12.7	1.8	0.0	0.0	0.0	0.0	0.0
67.5°	154.6	94.6	36.4	29.1	14.5	3.6	0.9	0.0	0.0	0.0	0.0
70°	132.8	90.9	39.1	30.0	13.6	5.5	2.7	0.0	0.0	0.0	0.0
72.5°	118.2	85.5	44.6	29.1	14.5	5.5	2.7	0.0	0.0	0.0	0.0
75°	106.4	78.2	50.9	28.2	14.5	5.5	3.6	0.0	0.0	0.0	0.0
77.5°	80.0	68.2	50.0	27.3	13.6	5.5	3.6	0.0	0.0	0.0	0.0
80°	40.0	45.5	43.6	24.6	10.9	4.5	3.6	0.9	0.0	0.0	0.0
82.5°	16.4	17.3	21.8	18.2	9.1	3.6	3.6	0.9	0.0	0.0	0.0
85°	1.8	3.6	6.4	7.3	6.4	3.6	3.6	0.9	0.0	0.0	0.0
87.5°	0.0	0.9	3.6	5.5	4.5	2.7	1.8	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°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
5°	0.9	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°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	0.9	1.8	1.8	1.8	2.7	2.7	3.6	4.5	4.5	4.5	5.5
5°	0.0	0.0	0.9	0.9	1.8	2.7	3.6	5.5	6.4	6.4	7.3
7.5°	0.0	0.0	0.0	0.9	1.8	2.7	3.6	5.5	7.3	8.2	9.1
10°	0.0	0.0	0.0	0.0	0.9	1.8	3.6	6.4	9.1	10.9	12.7
12.5°	0.0	0.0	0.0	0.0	0.0	0.9	3.6	7.3	10.9	13.6	15.5
15°	0.0	0.0	0.0	0.0	0.0	0.9	3.6	7.3	13.6	16.4	20.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	8.2	15.5	20.0	27.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	8.2	17.3	24.6	40.9
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	8.2	19.1	31.8	75.5
25°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	8.2	21.8	47.3	125.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	9.1	26.4	66.4	183.7
30°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	9.1	32.7	90.0	256.4
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	9.1	38.2	113.7	349.2
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	45.5	150.9	438.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	56.4	166.4	513.8
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	53.7	181.0	600.2
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	49.1	201.9	735.6
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	49.1	267.3	1035.7
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	60.0	416.5	1583.1
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	77.3	639.3	2254.2
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	93.7	786.6	2643.4
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	112.8	787.5	2630.7
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	125.5	704.7	2374.3
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	124.6	682.0	2303.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	9.1	109.1	592.0	2010.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	14.5	95.5	424.7	1666.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	7.3	16.4	87.3	308.3	1251.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.1	19.1	83.7	218.2	870.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	10.9	21.8	77.3	156.4	572.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.9	27.3	72.7	122.8	345.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	10.9	34.6	63.7	100.0	185.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.9	37.3	52.7	72.7	112.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	10.0	33.6	38.2	31.8	38.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.5	20.0	8.2	8.2	12.7
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°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	6.4	6.4	6.4	6.4	7.3	7.3	10.0	12.7	15.5	16.4
5°	8.2	9.1	10.0	10.0	10.0	10.9	12.7	14.5	17.3	18.2
7.5°	11.8	12.7	14.5	14.5	14.5	15.5	16.4	18.2	20.0	20.0
10°	15.5	18.2	19.1	20.0	20.9	20.9	20.9	21.8	22.7	21.8
12.5°	20.9	24.6	29.1	30.0	30.0	30.0	29.1	27.3	25.5	24.6
15°	29.1	40.0	54.6	60.0	57.3	50.9	44.6	34.6	30.0	28.2
17.5°	53.7	109.1	198.2	219.1	214.6	184.6	108.2	52.7	35.5	30.9
20°	144.6	352.8	582.0	637.4	666.5	552.0	319.2	122.8	43.6	33.6
22.5°	311.9	732.9	1135.8	1279.4	1288.5	1036.6	621.1	249.2	62.7	38.2
25°	502.0	1172.1	1721.4	1860.5	1863.2	1597.7	993.0	403.7	95.5	47.3
27.5°	769.3	1643.2	2257.9	2373.4	2371.5	2102.4	1434.9	616.5	133.7	58.2
30°	1043.0	2010.5	2611.6	2755.3	2768.9	2447.0	1804.1	868.4	174.6	70.0
32.5°	1314.0	2282.4	2934.4	3125.4	3113.6	2751.6	2061.5	1074.8	244.6	82.7
35°	1527.7	2514.3	3291.8	3526.4	3535.5	3086.3	2289.7	1274.9	304.6	106.4
37.5°	1710.5	2813.5	3767.4	4038.3	4050.2	3502.7	2528.9	1471.3	356.5	117.3
40°	1936.0	3304.5	4554.8	5015.0	5016.8	4279.3	2959.0	1691.4	426.5	121.9
42.5°	2442.5	4356.6	6093.4	6754.5	6811.8	5890.7	3936.5	2168.8	536.5	131.9
45°	3455.5	5743.3	8055.8	8816.9	8889.6	7895.7	5612.4	3270.9	778.4	161.0
47.5°	4660.3	6949.1	9196.1	9929.0	9977.2	8844.2	6734.5	4545.8	1324.9	279.2
50°	5401.4	7395.6	9615.3	10314.6	10322.7	9156.1	7086.4	5207.7	1887.8	459.2
52.5°	5631.5	7452.9	9631.6	10477.3	10501.0	9119.7	7134.6	5341.4	2122.4	532.9
55°	5537.8	7419.2	9804.4	10788.3	10813.8	9267.9	7101.9	5195.0	2012.4	511.0
57.5°	5324.1	7550.2	10088.1	11157.5	11157.5	9541.6	7222.8	4949.5	1743.2	464.7
58°	5292.3	7582.9	10103.6	11177.5	11169.3	9558.9	7272.8	4914.0	1684.1	447.4
60°	5248.7	7683.9	9989.0	10882.0	10858.3	9437.0	7363.8	4882.2	1397.6	351.0
62.5°	5185.0	7456.5	9154.2	10012.7	9951.7	8583.2	7102.8	4695.8	1043.0	261.0
65°	4858.6	6617.2	7631.1	8225.8	8206.7	7061.0	6113.4	4206.6	751.1	193.7
67.5°	4095.6	5180.5	6164.4	6880.9	6885.5	5764.3	4781.3	3361.8	511.0	154.6
70°	2880.8	3821.0	5240.5	6038.0	6074.3	4834.9	3541.8	2240.6	337.4	132.8
72.5°	1720.5	2886.2	4357.5	4963.1	4944.0	4012.0	2628.0	1335.8	205.5	118.2
75°	833.9	1725.0	2202.4	2554.3	2539.8	2006.9	1400.4	654.7	150.0	106.4
77.5°	226.4	530.1	853.0	1109.4	1139.4	803.8	459.2	175.5	93.7	80.0
80°	76.4	163.7	278.3	378.3	388.3	347.4	172.8	61.8	40.9	40.0
82.5°	29.1	40.0	50.9	45.5	45.5	47.3	37.3	26.4	19.1	16.4
85°	0.0	0.0	0.9	1.8	1.8	2.7	2.7	2.7	1.8	1.8
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 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-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 R_f: 82.2
 R_g: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

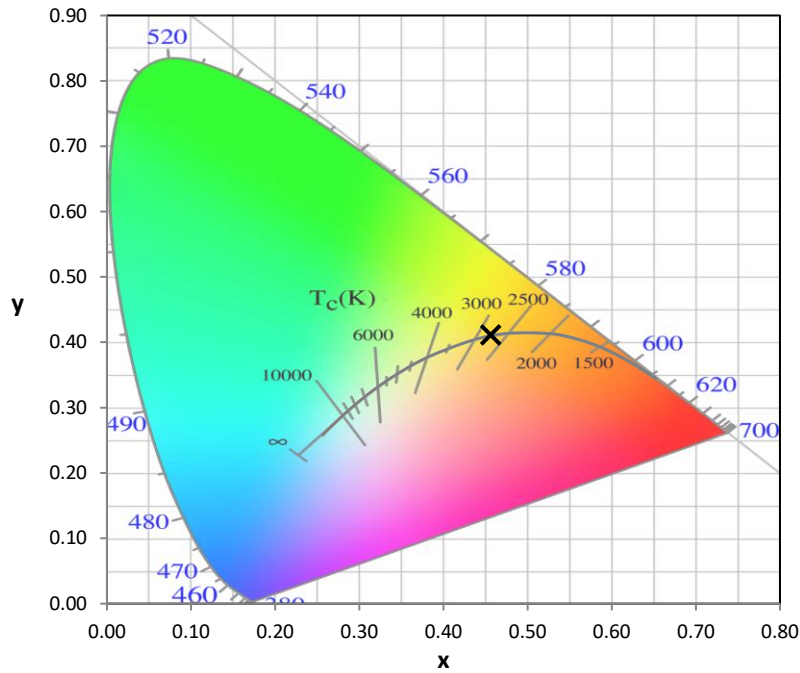
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

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 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.2

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.16

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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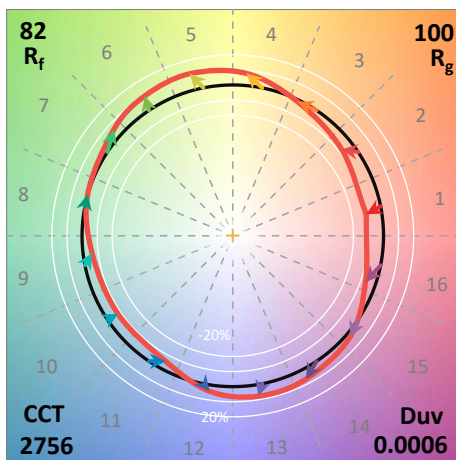
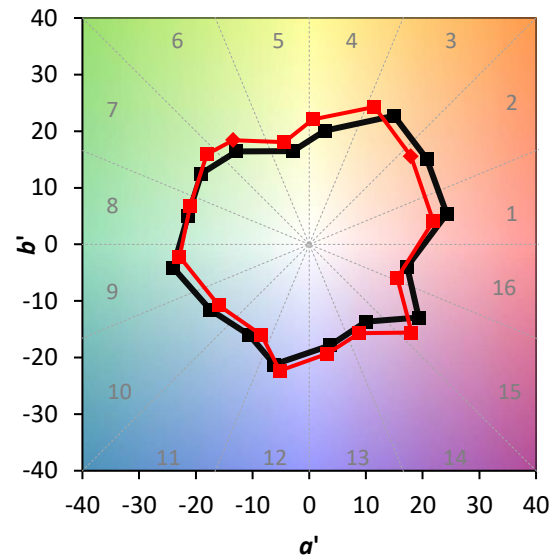
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE R_a = 82.9$
 $R_9 = 10.8$

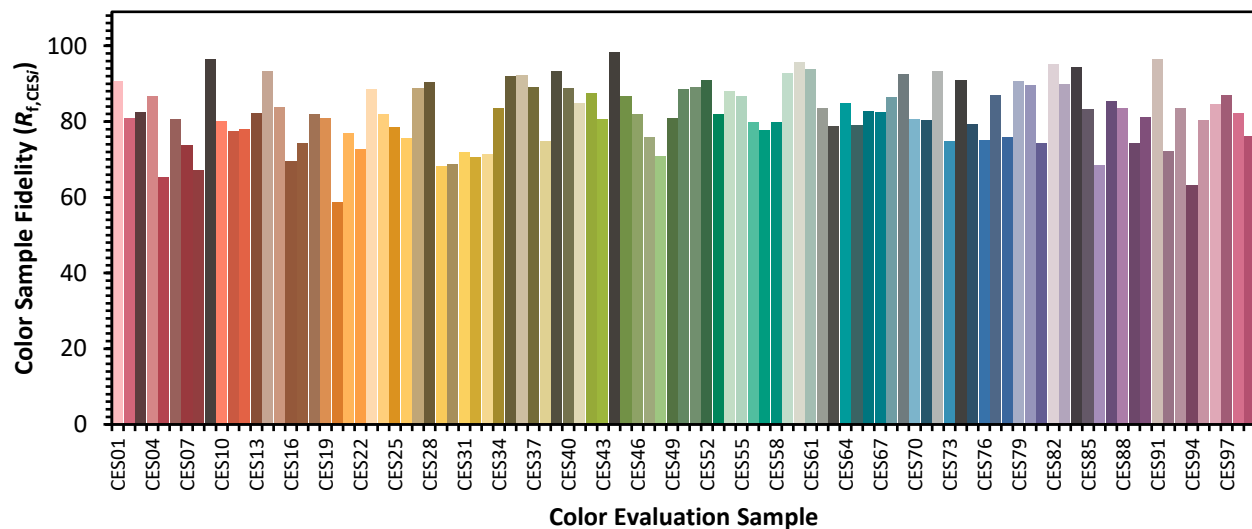


Color Vector Graphics

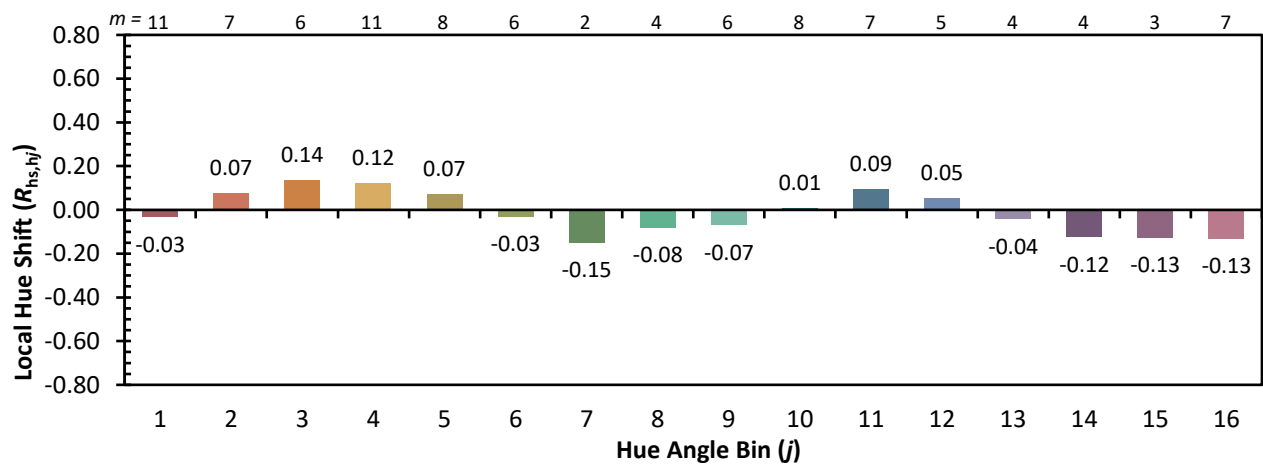


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)