

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: P991234

Luminaire Tested: **GPC-SA1B-727-U-RBC**

Issue Date: 07/03/2025

Test Information

Test Method: LM-79-08
Report Number: P991234
Test Lab: INNOVATION CENTER(G1)
Issue Date: 07/03/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-SA1B-727-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 800mA 1xLight Square PACKAGE 70CRI
2700K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (14) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3389.1 lumens
Efficiency: N/A
Efficacy: 89.0 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): 38.1
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

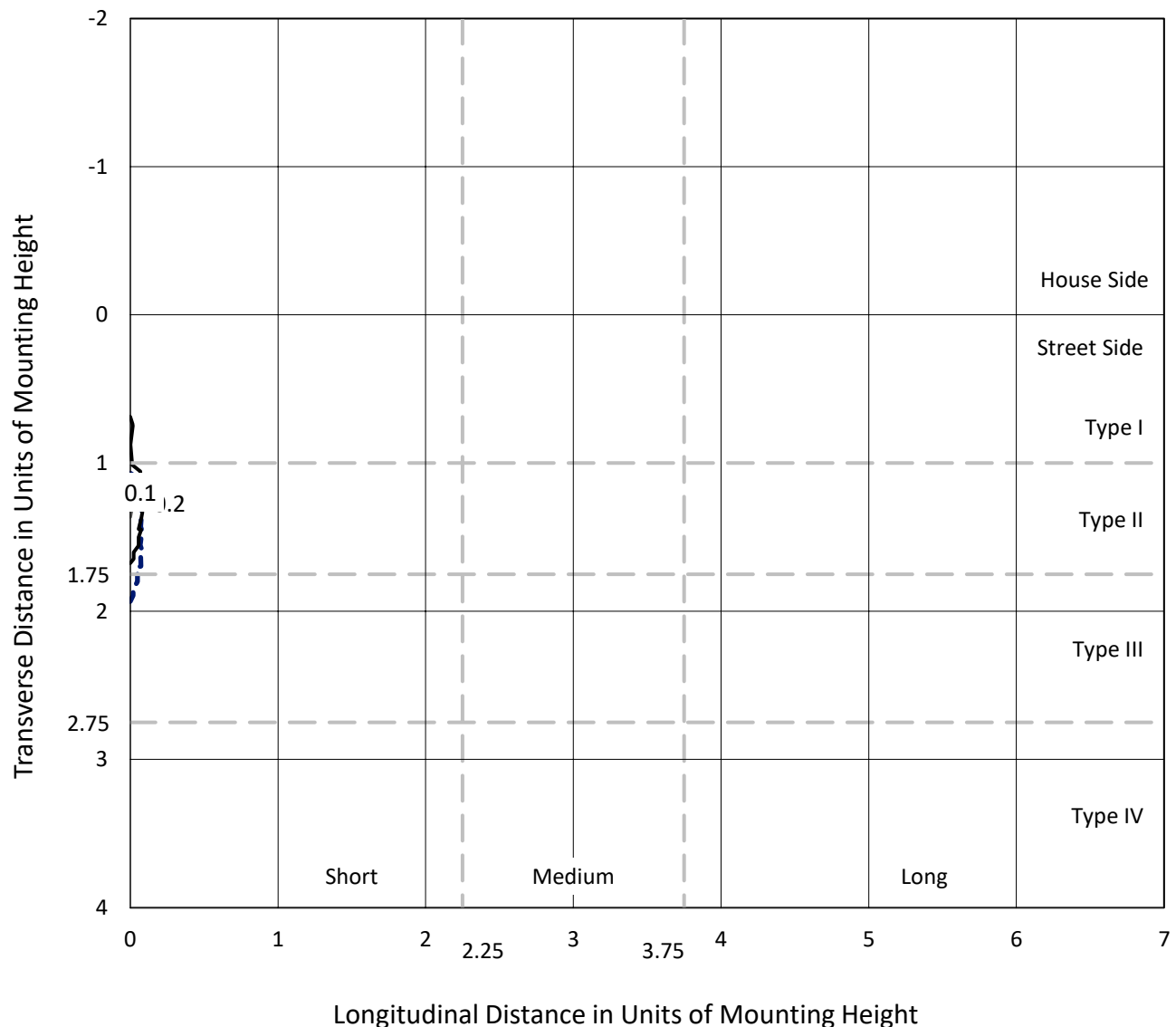


REPORT NUMBER: P991234

CATALOG NUMBER: GPC-SA1B-727-U-RBC

Iso-Footcandle Lines of Horizontal Illumination

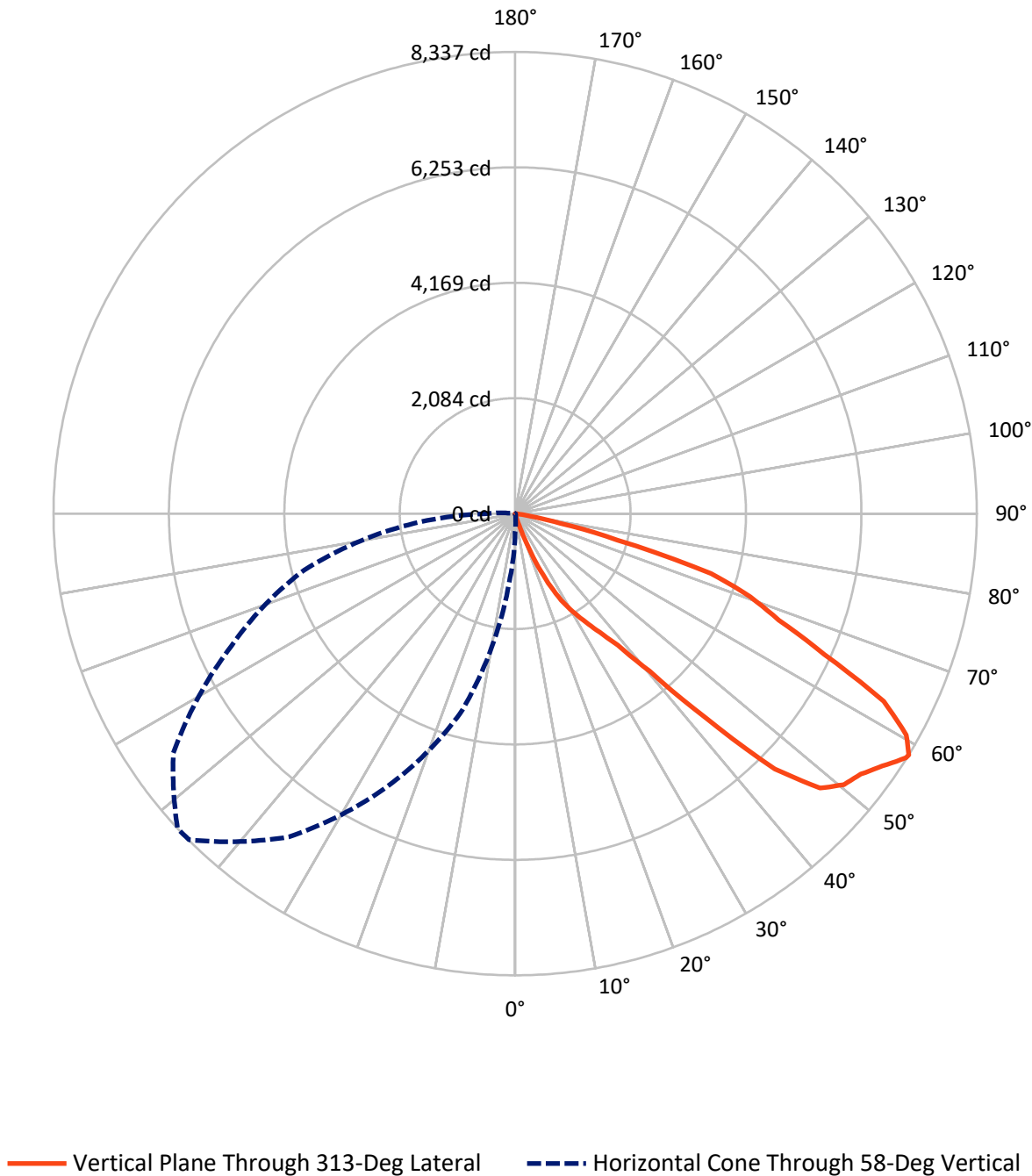
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 0.2 fc
 Type III - Short - N/A

REPORT NUMBER: P991234
CATALOG NUMBER: GPC-SA1B-727-U-RBC

Luminous Intensity Polar Plot



REPORT NUMBER: P991234

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15.2	0.0	15.2
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	3374.0	0.0	3374.0
	% Fixture	99.6	0.0	99.6
Total	Lumens	3389.1	0.0	3389.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.0
10°-20°	5.9	0.2
20°-30°	85.6	2.5
30°-40°	246.0	7.3
40°-50°	700.9	20.7
50°-60°	1102.5	32.5
60°-70°	940.2	27.7
70°-80°	299.9	8.8
80°-90°	7.6	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°	3389.1	100.0
0°-180°	3389.1	100.0



REPORT NUMBER: P991234

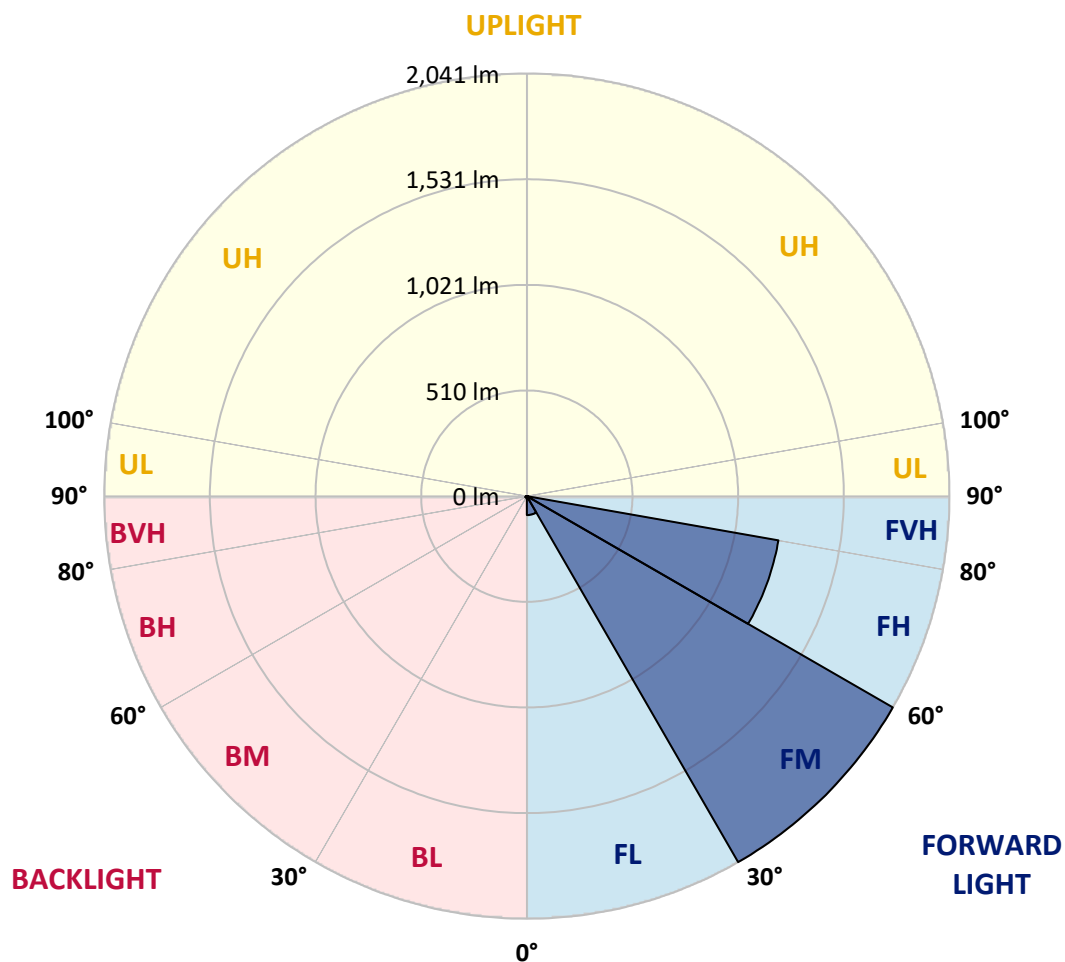
CATALOG NUMBER: GPC-SA1B-727-U-RBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	91.4	2.7			
FM	(30°-60°)	2041.3	60.2			
FH	(60°-80°)	1234.1	36.4			G1/1800
FVH	(80°-90°)	7.2	0.2			G0/10
BL	(0°-30°)	0.6	0.0	B0/110		
BM	(30°-60°)	8.1	0.2	B0/220		
BH	(60°-80°)	6.0	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



REPORT NUMBER: P991234

CATALOG NUMBER: GPC-SA1B-727-U-RBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
2.5°	12.2	12.9	13.6	12.9	11.5	8.8	8.8	6.8	4.7	2.7	2.0
5°	13.6	13.6	13.6	12.9	11.5	8.8	8.1	6.1	4.1	2.7	1.4
7.5°	14.9	14.9	14.2	12.9	10.9	8.8	8.1	6.1	4.1	2.0	0.0
10°	16.3	16.3	14.9	13.6	10.9	8.1	7.5	5.4	3.4	1.4	0.0
12.5°	18.3	17.6	15.6	13.6	10.9	7.5	7.5	5.4	2.7	0.7	0.0
15°	21.0	19.0	16.3	13.6	10.2	7.5	6.8	4.7	2.0	0.0	0.0
17.5°	23.1	21.0	17.0	12.9	9.5	6.8	6.1	4.1	2.0	0.0	0.0
20°	25.1	21.7	17.0	12.9	9.5	6.1	5.4	3.4	0.7	0.0	0.0
22.5°	28.5	23.1	17.0	12.9	8.8	5.4	4.7	2.7	0.0	0.0	0.0
25°	35.3	24.4	17.0	12.2	8.1	4.7	4.1	1.4	0.0	0.0	0.0
27.5°	43.4	26.5	17.0	11.5	7.5	4.1	3.4	0.7	0.0	0.0	0.0
30°	52.2	28.5	17.0	11.5	6.8	3.4	2.7	0.0	0.0	0.0	0.0
32.5°	61.7	31.2	17.0	10.9	6.1	2.7	2.0	0.0	0.0	0.0	0.0
35°	79.4	35.3	17.0	10.9	5.4	2.0	1.4	0.0	0.0	0.0	0.0
37.5°	87.5	40.7	17.0	10.2	5.4	1.4	0.7	0.0	0.0	0.0	0.0
40°	90.9	39.3	16.3	10.2	4.7	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	98.3	36.6	17.0	9.5	4.7	0.7	0.0	0.0	0.0	0.0	0.0
45°	120.1	36.6	18.3	9.5	4.1	1.4	0.0	0.0	0.0	0.0	0.0
47.5°	208.2	38.0	17.6	9.5	4.1	1.4	0.0	0.0	0.0	0.0	0.0
50°	342.5	44.8	17.0	10.2	4.7	0.7	0.0	0.0	0.0	0.0	0.0
52.5°	397.5	54.3	17.0	10.9	6.1	0.0	0.0	0.0	0.0	0.0	0.0
55°	381.2	66.5	17.0	11.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	346.6	63.1	18.3	13.6	9.5	0.0	0.0	0.0	0.0	0.0	0.0
58°	333.7	63.1	18.3	13.6	9.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	261.8	64.4	21.0	14.9	10.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	194.7	65.8	23.7	17.0	10.2	0.7	0.0	0.0	0.0	0.0	0.0
65°	144.5	68.5	25.1	19.7	9.5	1.4	0.0	0.0	0.0	0.0	0.0
67.5°	115.3	70.5	27.1	21.7	10.9	2.7	0.7	0.0	0.0	0.0	0.0
70°	99.0	67.8	29.2	22.4	10.2	4.1	2.0	0.0	0.0	0.0	0.0
72.5°	88.2	63.8	33.2	21.7	10.9	4.1	2.0	0.0	0.0	0.0	0.0
75°	79.4	58.3	38.0	21.0	10.9	4.1	2.7	0.0	0.0	0.0	0.0
77.5°	59.7	50.9	37.3	20.3	10.2	4.1	2.7	0.0	0.0	0.0	0.0
80°	29.8	33.9	32.6	18.3	8.1	3.4	2.7	0.7	0.0	0.0	0.0
82.5°	12.2	12.9	16.3	13.6	6.8	2.7	2.7	0.7	0.0	0.0	0.0
85°	1.4	2.7	4.7	5.4	4.7	2.7	2.7	0.7	0.0	0.0	0.0
87.5°	0.0	0.7	2.7	4.1	3.4	2.0	1.4	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



REPORT NUMBER: P991234

CATALOG NUMBER: GPC-SA1B-727-U-RBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
2.5°	1.4	1.4	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

REPORT NUMBER: P991234

CATALOG NUMBER: GPC-SA1B-727-U-RBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
2.5°	0.7	1.4	1.4	1.4	2.0	2.0	2.7	3.4	3.4	3.4	4.1
5°	0.0	0.0	0.7	0.7	1.4	2.0	2.7	4.1	4.7	4.7	5.4
7.5°	0.0	0.0	0.0	0.7	1.4	2.0	2.7	4.1	5.4	6.1	6.8
10°	0.0	0.0	0.0	0.0	0.7	1.4	2.7	4.7	6.8	8.1	9.5
12.5°	0.0	0.0	0.0	0.0	0.0	0.7	2.7	5.4	8.1	10.2	11.5
15°	0.0	0.0	0.0	0.0	0.0	0.7	2.7	5.4	10.2	12.2	14.9
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	6.1	11.5	14.9	20.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.1	12.9	18.3	30.5
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.1	14.2	23.7	56.3
25°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	6.1	16.3	35.3	93.6
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	6.8	19.7	49.5	137.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	6.8	24.4	67.1	191.3
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	6.8	28.5	84.8	260.5
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	33.9	112.6	326.9
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	42.1	124.1	383.2
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	40.0	135.0	447.7
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	36.6	150.6	548.7
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	36.6	199.4	772.5
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	44.8	310.6	1180.9
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	57.7	476.8	1681.4
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	69.9	586.7	1971.7
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	84.1	587.4	1962.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	93.6	525.7	1771.0
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	92.9	508.7	1718.1
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	6.8	81.4	441.6	1499.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	10.9	71.2	316.8	1243.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	5.4	12.2	65.1	229.9	933.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.8	14.2	62.4	162.8	649.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	8.1	16.3	57.7	116.7	427.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.1	20.3	54.3	91.6	257.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	8.1	25.8	47.5	74.6	138.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.1	27.8	39.3	54.3	84.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	7.5	25.1	28.5	23.7	28.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.1	14.9	6.1	6.1	9.5
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

REPORT NUMBER: P991234

CATALOG NUMBER: GPC-SA1B-727-U-RBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	313°	315°	325°	335°	345°	355°	360°
0°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
2.5°	4.7	4.7	4.7	4.7	5.4	5.4	7.5	9.5	11.5	12.2
5°	6.1	6.8	7.5	7.5	7.5	8.1	9.5	10.9	12.9	13.6
7.5°	8.8	9.5	10.9	10.9	10.9	11.5	12.2	13.6	14.9	14.9
10°	11.5	13.6	14.2	14.9	15.6	15.6	15.6	16.3	17.0	16.3
12.5°	15.6	18.3	21.7	22.4	22.4	22.4	21.7	20.3	19.0	18.3
15°	21.7	29.8	40.7	44.8	42.7	38.0	33.2	25.8	22.4	21.0
17.5°	40.0	81.4	147.9	163.5	160.1	137.7	80.7	39.3	26.5	23.1
20°	107.8	263.2	434.1	475.5	497.2	411.7	238.1	91.6	32.6	25.1
22.5°	232.6	546.7	847.2	954.3	961.1	773.2	463.3	185.8	46.8	28.5
25°	374.4	874.3	1284.0	1387.7	1389.8	1191.7	740.7	301.2	71.2	35.3
27.5°	573.8	1225.6	1684.1	1770.3	1768.9	1568.2	1070.3	459.9	99.7	43.4
30°	778.0	1499.7	1948.0	2055.2	2065.3	1825.2	1345.7	647.7	130.2	52.2
32.5°	980.1	1702.5	2188.8	2331.2	2322.4	2052.4	1537.6	801.7	182.5	61.7
35°	1139.5	1875.4	2455.3	2630.3	2637.1	2302.0	1707.9	950.9	227.2	79.4
37.5°	1275.8	2098.6	2810.1	3012.2	3021.0	2612.7	1886.3	1097.4	265.9	87.5
40°	1444.0	2464.8	3397.5	3740.7	3742.0	3191.9	2207.1	1261.6	318.1	90.9
42.5°	1821.8	3249.6	4545.1	5038.2	5080.9	4393.8	2936.2	1617.7	400.2	98.3
45°	2577.4	4283.9	6008.8	6576.5	6630.8	5889.4	4186.3	2439.7	580.6	120.1
47.5°	3476.1	5183.3	6859.3	7406.0	7442.0	6596.8	5023.3	3390.7	988.2	208.2
50°	4028.9	5516.4	7172.0	7693.6	7699.7	6829.5	5285.8	3884.4	1408.1	342.5
52.5°	4200.5	5559.1	7184.2	7815.0	7832.7	6802.4	5321.7	3984.2	1583.1	397.5
55°	4130.7	5534.0	7313.1	8047.0	8066.0	6912.9	5297.3	3875.0	1501.0	381.2
57.5°	3971.3	5631.7	7524.7	8322.4	8322.4	7117.1	5387.5	3691.8	1300.2	346.6
58°	3947.5	5656.1	7536.2	8337.3	8331.2	7130.0	5424.8	3665.4	1256.2	333.7
60°	3915.0	5731.4	7450.8	8116.8	8099.2	7039.1	5492.6	3641.6	1042.5	261.8
62.5°	3867.5	5561.8	6828.1	7468.4	7423.0	6402.2	5298.0	3502.6	778.0	194.7
65°	3624.0	4935.8	5692.0	6135.6	6121.4	5266.8	4560.0	3137.7	560.3	144.5
67.5°	3054.9	3864.1	4598.0	5132.5	5135.9	4299.5	3566.3	2507.6	381.2	115.3
70°	2148.8	2850.1	3908.9	4503.7	4530.8	3606.4	2641.9	1671.3	251.6	99.0
72.5°	1283.3	2152.8	3250.3	3702.0	3687.7	2992.5	1960.2	996.4	153.3	88.2
75°	622.0	1286.7	1642.8	1905.3	1894.4	1496.9	1044.5	488.4	111.9	79.4
77.5°	168.9	395.4	636.2	827.5	849.9	599.6	342.5	130.9	69.9	59.7
80°	57.0	122.1	207.6	282.2	289.6	259.1	128.9	46.1	30.5	29.8
82.5°	21.7	29.8	38.0	33.9	33.9	35.3	27.8	19.7	14.2	12.2
85°	0.0	0.0	0.7	1.4	1.4	2.0	2.0	2.0	1.4	1.4
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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

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

REPORT NUMBER: SP1-2407-184-3

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: SP1-2407-184-3

CIE 1931 Chromaticity Diagram



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



REPORT NUMBER: SP1-2407-184-3

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

TM-30-18

Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE\ R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison



Color Vector Graphics

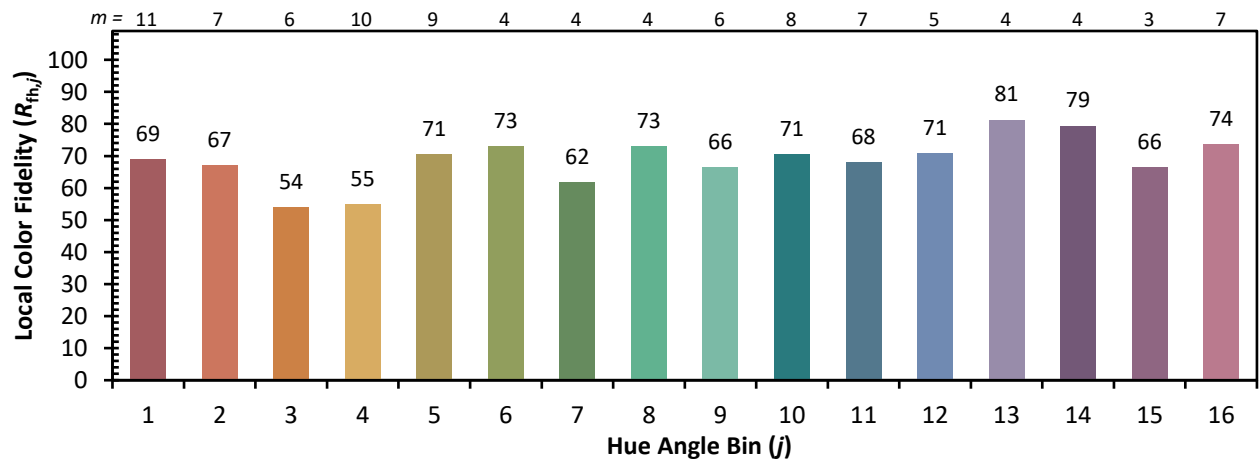
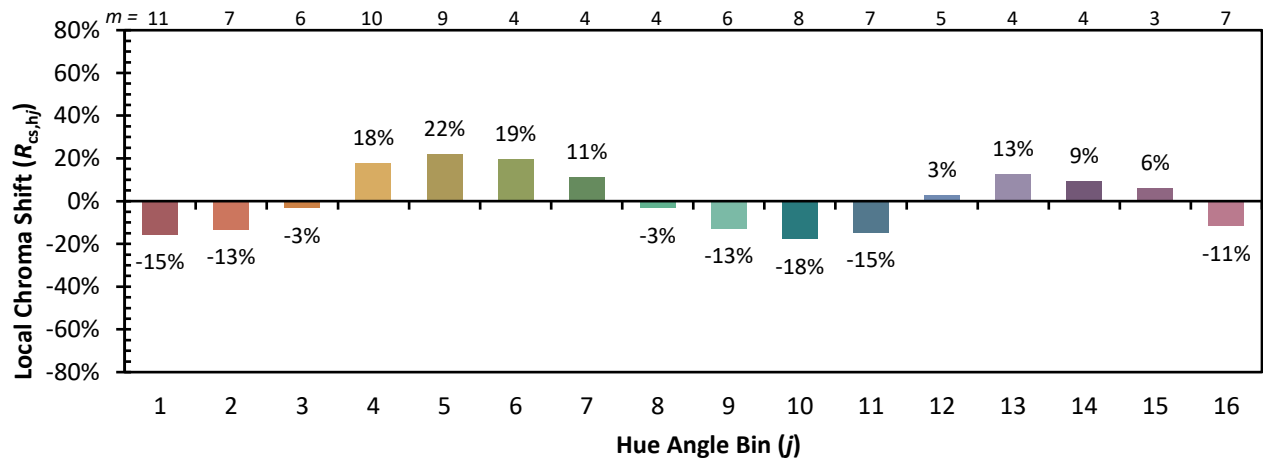


Individual Sample Fidelity Index ($R_{f,i}$)

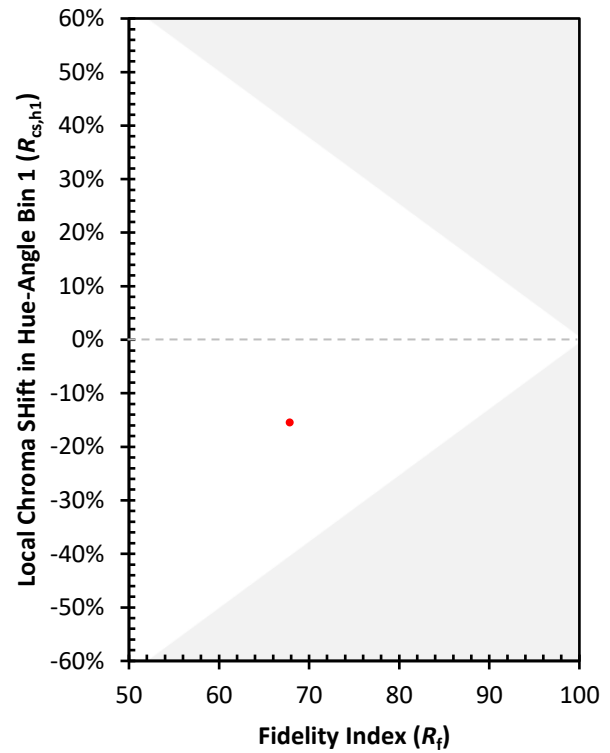
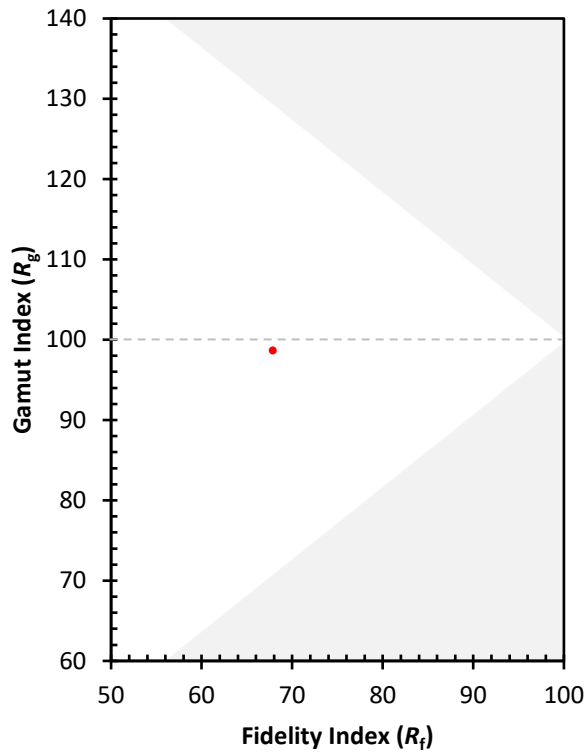
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)