

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: P991272

Luminaire Tested: **GPC-SA1D-760-U-RBC**

Issue Date: 07/03/2025

Test Information

Test Method: LM-79-08
Report Number: P991272
Test Lab: INNOVATION CENTER(G1)
Issue Date: 07/03/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-SA1D-760-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 1200mA 1xLight Square PACKAGE 70CRI
5700K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (14) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5474.6 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

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



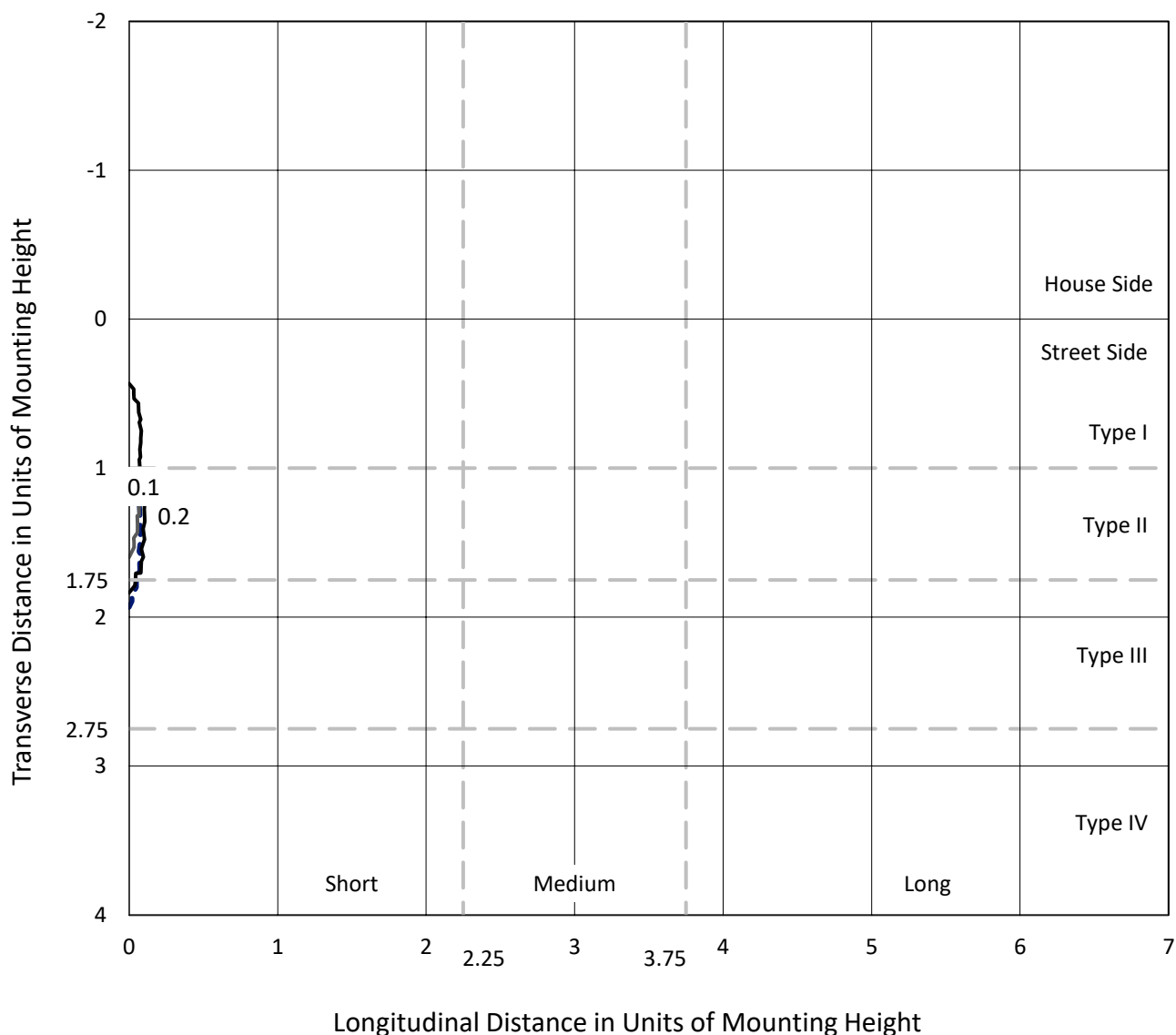
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

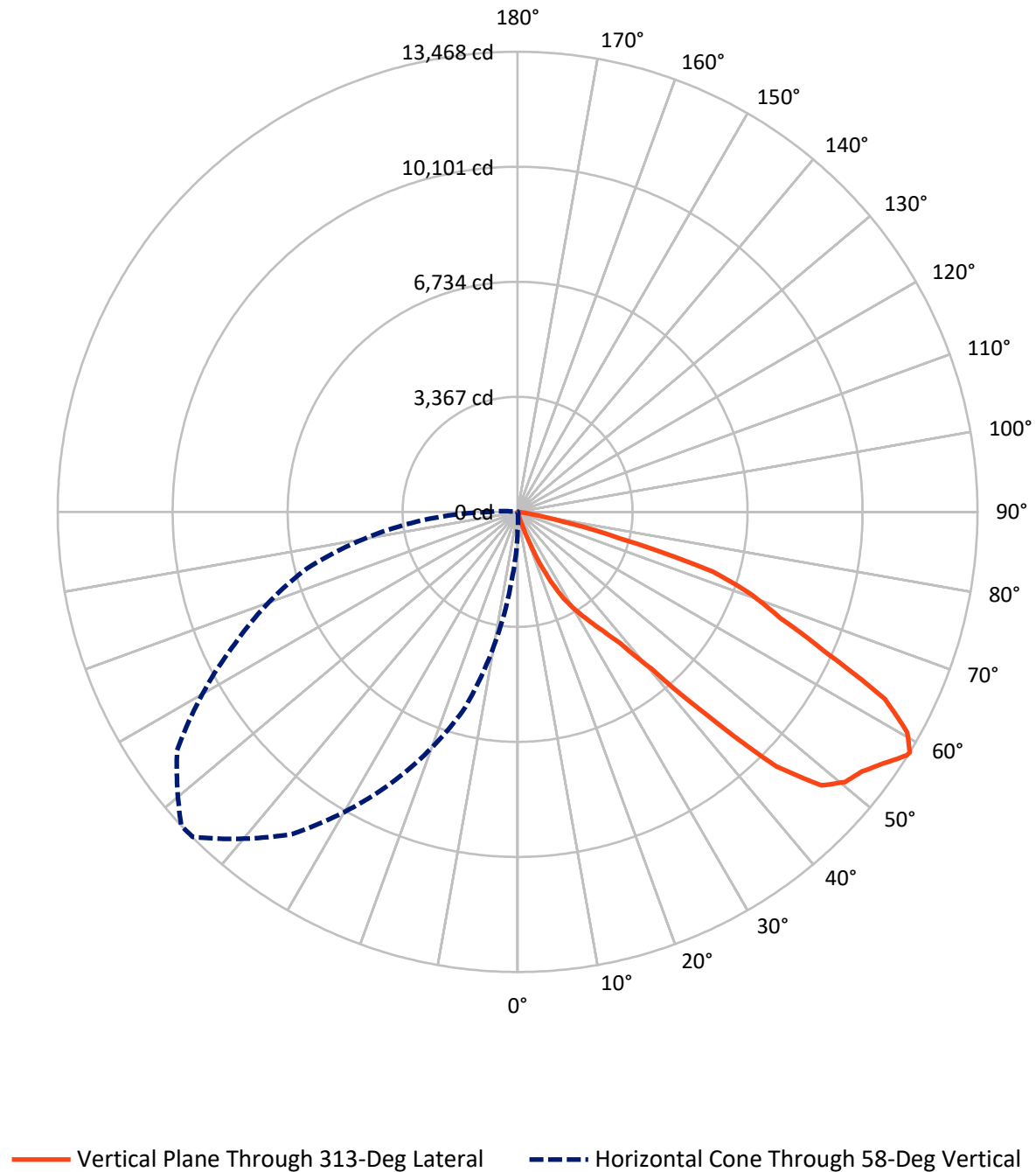


Based on 20 foot mounting height. Maximum calculated value = 0.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24.5	0.0	24.5
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	5450.1	0.0	5450.1
	% Fixture	99.6	0.0	99.6
Total	Lumens	5474.6	0.0	5474.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.0
10°-20°	9.5	0.2
20°-30°	138.3	2.5
30°-40°	397.5	7.3
40°-50°	1132.2	20.7
50°-60°	1780.9	32.5
60°-70°	1518.7	27.7
70°-80°	484.4	8.8
80°-90°	12.3	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°	5474.6	100.0
0°-180°	5474.6	100.0



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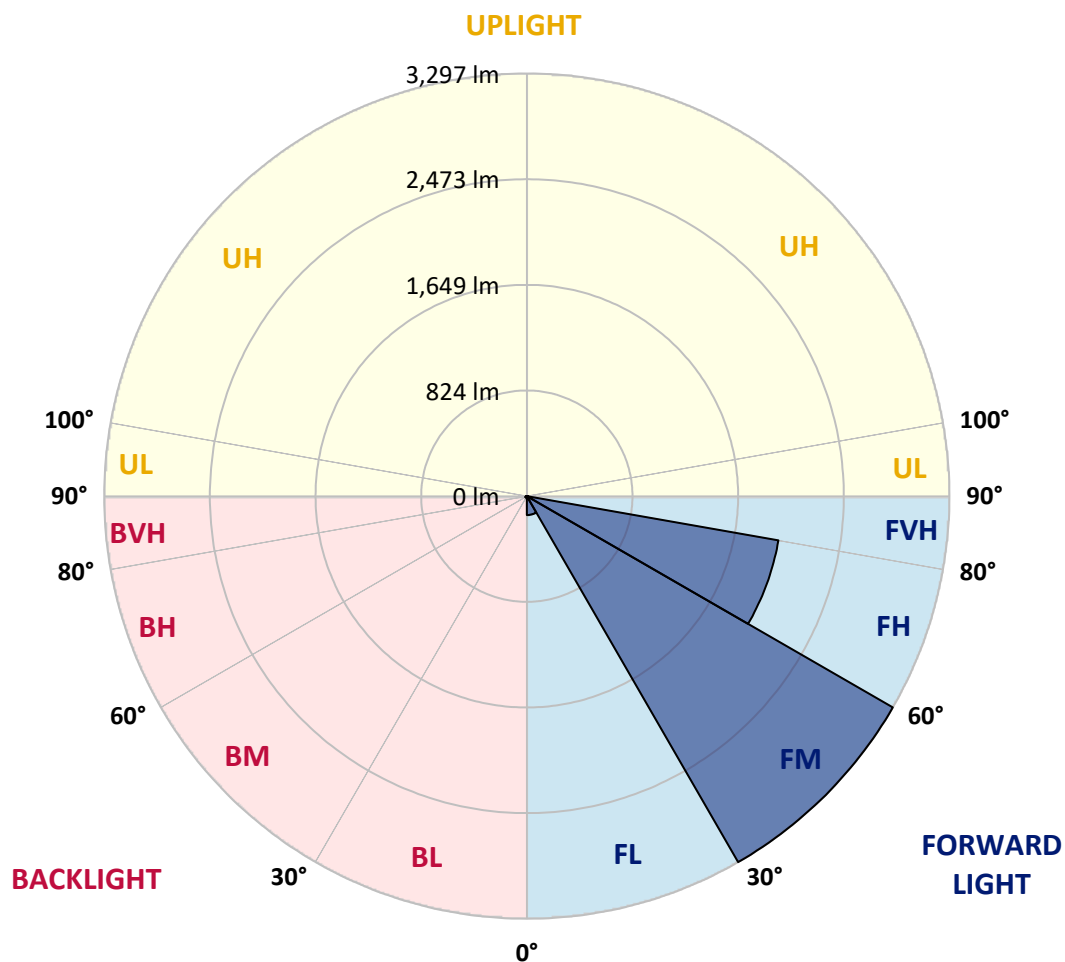
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	147.6	2.7			
FM	(30°-60°)	3297.5	60.2			
FH	(60°-80°)	1993.4	36.4			G2/5000
FVH	(80°-90°)	11.7	0.2			G1/100
BL	(0°-30°)	1.0	0.0	B0/110		
BM	(30°-60°)	13.1	0.2	B0/220		
BH	(60°-80°)	9.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.7	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
2.5°	19.7	20.8	21.9	20.8	18.6	14.2	14.2	11.0	7.7	4.4	3.3
5°	21.9	21.9	21.9	20.8	18.6	14.2	13.1	9.9	6.6	4.4	2.2
7.5°	24.1	24.1	23.0	20.8	17.5	14.2	13.1	9.9	6.6	3.3	0.0
10°	26.3	26.3	24.1	21.9	17.5	13.1	12.1	8.8	5.5	2.2	0.0
12.5°	29.6	28.5	25.2	21.9	17.5	12.1	12.1	8.8	4.4	1.1	0.0
15°	34.0	30.7	26.3	21.9	16.4	12.1	11.0	7.7	3.3	0.0	0.0
17.5°	37.3	34.0	27.4	20.8	15.3	11.0	9.9	6.6	3.3	0.0	0.0
20°	40.5	35.1	27.4	20.8	15.3	9.9	8.8	5.5	1.1	0.0	0.0
22.5°	46.0	37.3	27.4	20.8	14.2	8.8	7.7	4.4	0.0	0.0	0.0
25°	57.0	39.4	27.4	19.7	13.1	7.7	6.6	2.2	0.0	0.0	0.0
27.5°	70.1	42.7	27.4	18.6	12.1	6.6	5.5	1.1	0.0	0.0	0.0
30°	84.4	46.0	27.4	18.6	11.0	5.5	4.4	0.0	0.0	0.0	0.0
32.5°	99.7	50.4	27.4	17.5	9.9	4.4	3.3	0.0	0.0	0.0	0.0
35°	128.2	57.0	27.4	17.5	8.8	3.3	2.2	0.0	0.0	0.0	0.0
37.5°	141.3	65.7	27.4	16.4	8.8	2.2	1.1	0.0	0.0	0.0	0.0
40°	146.8	63.5	26.3	16.4	7.7	1.1	0.0	0.0	0.0	0.0	0.0
42.5°	158.9	59.2	27.4	15.3	7.7	1.1	0.0	0.0	0.0	0.0	0.0
45°	193.9	59.2	29.6	15.3	6.6	2.2	0.0	0.0	0.0	0.0	0.0
47.5°	336.4	61.4	28.5	15.3	6.6	2.2	0.0	0.0	0.0	0.0	0.0
50°	553.3	72.3	27.4	16.4	7.7	1.1	0.0	0.0	0.0	0.0	0.0
52.5°	642.0	87.7	27.4	17.5	9.9	0.0	0.0	0.0	0.0	0.0	0.0
55°	615.7	107.4	27.4	18.6	12.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	559.9	101.9	29.6	21.9	15.3	0.0	0.0	0.0	0.0	0.0	0.0
58°	539.1	101.9	29.6	21.9	15.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	422.9	104.1	34.0	24.1	16.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	314.4	106.3	38.3	27.4	16.4	1.1	0.0	0.0	0.0	0.0	0.0
65°	233.4	110.7	40.5	31.8	15.3	2.2	0.0	0.0	0.0	0.0	0.0
67.5°	186.3	113.9	43.8	35.1	17.5	4.4	1.1	0.0	0.0	0.0	0.0
70°	160.0	109.6	47.1	36.2	16.4	6.6	3.3	0.0	0.0	0.0	0.0
72.5°	142.4	103.0	53.7	35.1	17.5	6.6	3.3	0.0	0.0	0.0	0.0
75°	128.2	94.2	61.4	34.0	17.5	6.6	4.4	0.0	0.0	0.0	0.0
77.5°	96.4	82.2	60.3	32.9	16.4	6.6	4.4	0.0	0.0	0.0	0.0
80°	48.2	54.8	52.6	29.6	13.1	5.5	4.4	1.1	0.0	0.0	0.0
82.5°	19.7	20.8	26.3	21.9	11.0	4.4	4.4	1.1	0.0	0.0	0.0
85°	2.2	4.4	7.7	8.8	7.7	4.4	4.4	1.1	0.0	0.0	0.0
87.5°	0.0	1.1	4.4	6.6	5.5	3.3	2.2	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°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
2.5°	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
5°	1.1	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°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
2.5°	1.1	2.2	2.2	2.2	3.3	3.3	4.4	5.5	5.5	5.5	6.6
5°	0.0	0.0	1.1	1.1	2.2	3.3	4.4	6.6	7.7	7.7	8.8
7.5°	0.0	0.0	0.0	1.1	2.2	3.3	4.4	6.6	8.8	9.9	11.0
10°	0.0	0.0	0.0	0.0	1.1	2.2	4.4	7.7	11.0	13.1	15.3
12.5°	0.0	0.0	0.0	0.0	0.0	1.1	4.4	8.8	13.1	16.4	18.6
15°	0.0	0.0	0.0	0.0	0.0	1.1	4.4	8.8	16.4	19.7	24.1
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	9.9	18.6	24.1	32.9
20°	0.0	0.0	0.0	0.0	0.0	0.0	3.3	9.9	20.8	29.6	49.3
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.3	9.9	23.0	38.3	90.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	9.9	26.3	57.0	151.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	11.0	31.8	80.0	221.3
30°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	11.0	39.4	108.5	309.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	11.0	46.0	137.0	420.7
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	54.8	181.9	528.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	67.9	200.5	619.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	64.6	218.0	723.1
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	59.2	243.2	886.4
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	59.2	322.1	1247.9
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	72.3	501.8	1907.5
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	93.1	770.2	2716.1
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	112.9	947.7	3185.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	135.9	948.8	3169.7
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	151.2	849.1	2860.7
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	150.1	821.7	2775.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	11.0	131.5	713.3	2422.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	17.5	115.0	511.7	2008.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	8.8	19.7	105.2	371.4	1507.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	11.0	23.0	100.8	263.0	1048.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	13.1	26.3	93.1	188.4	690.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	13.1	32.9	87.7	147.9	416.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	13.1	41.6	76.7	120.5	223.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	13.1	44.9	63.5	87.7	135.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	12.1	40.5	46.0	38.3	46.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.6	24.1	9.9	9.9	15.3
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°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
2.5°	7.7	7.7	7.7	7.7	8.8	8.8	12.1	15.3	18.6	19.7
5°	9.9	11.0	12.1	12.1	12.1	13.1	15.3	17.5	20.8	21.9
7.5°	14.2	15.3	17.5	17.5	17.5	18.6	19.7	21.9	24.1	24.1
10°	18.6	21.9	23.0	24.1	25.2	25.2	25.2	26.3	27.4	26.3
12.5°	25.2	29.6	35.1	36.2	36.2	36.2	35.1	32.9	30.7	29.6
15°	35.1	48.2	65.7	72.3	69.0	61.4	53.7	41.6	36.2	34.0
17.5°	64.6	131.5	238.8	264.0	258.6	222.4	130.4	63.5	42.7	37.3
20°	174.2	425.1	701.2	768.0	803.1	665.1	384.6	147.9	52.6	40.5
22.5°	375.8	883.1	1368.5	1541.6	1552.5	1249.0	748.3	300.2	75.6	46.0
25°	604.8	1412.3	2074.0	2241.7	2245.0	1925.0	1196.4	486.5	115.0	57.0
27.5°	926.9	1979.8	2720.5	2859.6	2857.4	2533.1	1728.9	742.8	161.1	70.1
30°	1256.7	2422.5	3146.7	3319.8	3336.2	2948.4	2173.7	1046.3	210.4	84.4
32.5°	1583.2	2750.1	3535.6	3765.7	3751.5	3315.4	2483.8	1295.0	294.7	99.7
35°	1840.7	3029.4	3966.2	4248.9	4259.8	3718.6	2758.8	1536.1	367.0	128.2
37.5°	2060.9	3389.9	4539.2	4865.7	4880.0	4220.4	3047.0	1772.7	429.5	141.3
40°	2332.6	3981.6	5488.1	6042.5	6044.6	5156.1	3565.2	2037.9	513.9	146.8
42.5°	2942.9	5249.2	7341.9	8138.4	8207.4	7097.6	4743.0	2613.1	646.4	158.9
45°	4163.4	6920.1	9706.3	10623.3	10711.0	9513.4	6762.3	3941.0	937.9	193.9
47.5°	5615.2	8372.9	11080.2	11963.3	12021.4	10656.2	8114.3	5477.1	1596.3	336.4
50°	6508.1	8910.8	11585.3	12427.8	12437.7	11032.0	8538.3	6274.7	2274.5	553.3
52.5°	6785.3	8979.9	11605.0	12624.0	12652.4	10988.2	8596.4	6435.8	2557.2	642.0
55°	6672.4	8939.3	11813.2	12998.7	13029.3	11166.8	8556.9	6259.4	2424.6	615.7
57.5°	6415.0	9097.1	12155.0	13443.5	13443.5	11496.5	8702.7	5963.6	2100.3	559.9
58°	6376.6	9136.5	12173.6	13467.6	13457.7	11517.4	8762.9	5920.8	2029.1	539.1
60°	6324.0	9258.2	12035.6	13111.5	13083.0	11370.5	8872.5	5882.5	1684.0	422.9
62.5°	6247.3	8984.2	11029.8	12064.1	11990.7	10341.7	8558.0	5657.9	1256.7	314.4
65°	5854.0	7973.0	9194.6	9911.2	9888.1	8507.6	7366.0	5068.4	905.0	233.4
67.5°	4934.8	6241.9	7427.3	8290.7	8296.2	6945.3	5760.9	4050.6	615.7	186.3
70°	3471.0	4603.9	6314.2	7275.0	7318.9	5825.5	4267.5	2699.7	406.5	160.0
72.5°	2072.9	3477.6	5250.3	5980.0	5957.0	4834.0	3166.4	1609.5	247.6	142.4
75°	1004.7	2078.4	2653.6	3077.7	3060.1	2418.1	1687.3	788.9	180.8	128.2
77.5°	272.8	638.8	1027.7	1336.7	1372.8	968.5	553.3	211.5	112.9	96.4
80°	92.0	197.2	335.3	455.8	467.8	418.5	208.2	74.5	49.3	48.2
82.5°	35.1	48.2	61.4	54.8	54.8	57.0	44.9	31.8	23.0	19.7
85°	0.0	0.0	1.1	2.2	2.2	3.3	3.3	3.3	2.2	2.2
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: SP1-2407-184-7

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-757-U-5WQ

Data in this report applies to families of products including GSS-SB1A-757-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-7
 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-757-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5700K CCT 26 LEDS

Spectral Parameters

CCT (K):	5571	CRI (Ra):	69.9		
CIE u':	0.2033	R1:	68.8	R9:	-35.4
CIE v':	0.4806	R2:	72.5	R10:	36.7
Duv:	0.0041	R3:	76.8	R11:	73.9
CIE x:	0.3308	R4:	72.0	R12:	47.8
CIE y:	0.3476	R5:	70.9	R13:	68.0
CIE z:	0.3216	R6:	65.6	R14:	87.0
Peak Wavelength (nm):	442	R7:	75.5	R15:	59.8
Dominant Wavelength (nm):	544	R8:	56.8		
Purity:	3.635698				
Rf:	70.4				
Rg:	97.1				



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-7

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



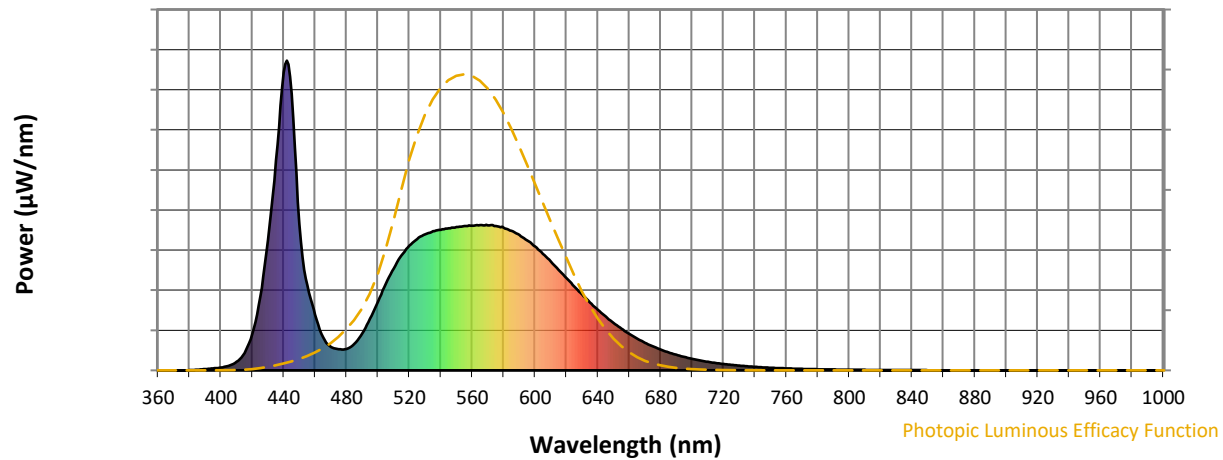
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5700K 4-step quadrangle

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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	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

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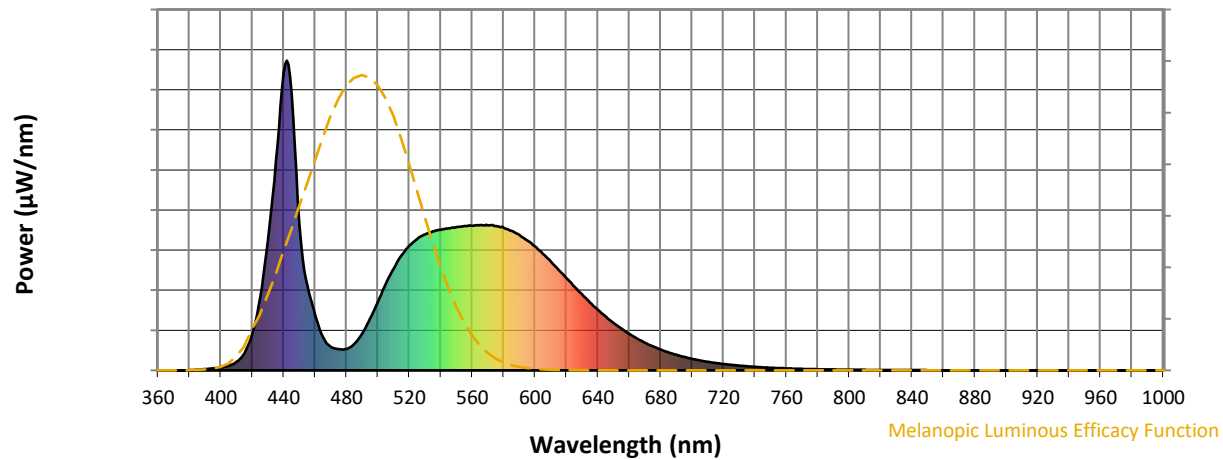
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.84

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	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.71

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	120	NR	620	298	NR	750	9	NR	880	0	NR
365	0	NR	495	167	NR	625	270	NR	755	7	NR	885	0	NR
370	0	NR	500	222	NR	630	245	NR	760	6	NR	890	0	NR
375	0	NR	505	279	NR	635	219	NR	765	6	NR	895	0	NR
380	1	NR	510	329	NR	640	196	NR	770	5	NR	900	0	NR
385	2	NR	515	371	NR	645	173	NR	775	4	NR	905	0	NR
390	4	NR	520	403	NR	650	153	NR	780	4	NR	910	0	NR
395	6	NR	525	424	NR	655	135	NR	785	3	NR	915	0	NR
400	9	NR	530	439	NR	660	117	NR	790	3	NR	920	0	NR
405	14	NR	535	449	NR	665	103	NR	795	2	NR	925	0	NR
410	28	NR	540	454	NR	670	89	NR	800	2	NR	930	0	NR
415	55	NR	545	459	NR	675	77	NR	805	2	NR	935	0	NR
420	118	NR	550	463	NR	680	67	NR	810	2	NR	940	0	NR
425	237	NR	555	466	NR	685	58	NR	815	1	NR	945	0	NR
430	420	NR	560	467	NR	690	50	NR	820	1	NR	950	0	NR
435	677	NR	565	469	NR	695	43	NR	825	1	NR	955	0	NR
440	962	NR	570	469	NR	700	37	NR	830	1	NR	960	0	NR
445	894	NR	575	466	NR	705	32	NR	835	1	NR	965	0	NR
450	472	NR	580	461	NR	710	28	NR	840	1	NR	970	0	NR
455	275	NR	585	450	NR	715	24	NR	845	1	NR	975	0	NR
460	180	NR	590	437	NR	720	21	NR	850	1	NR	980	0	NR
465	107	NR	595	420	NR	725	18	NR	855	0	NR	985	0	NR
470	76	NR	600	400	NR	730	15	NR	860	0	NR	990	0	NR
475	68	NR	605	376	NR	735	13	NR	865	0	NR	995	0	NR
480	69	NR	610	352	NR	740	11	NR	870	0	NR	1000	0	NR
485	86	NR	615	325	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-7

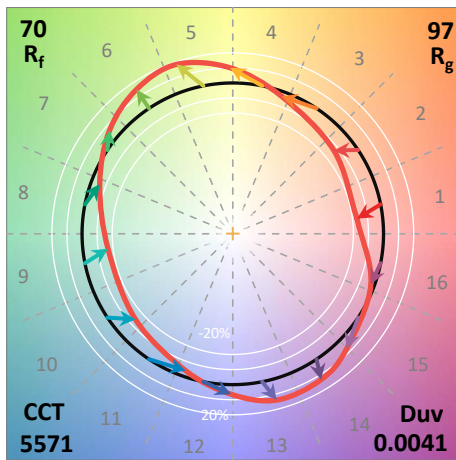
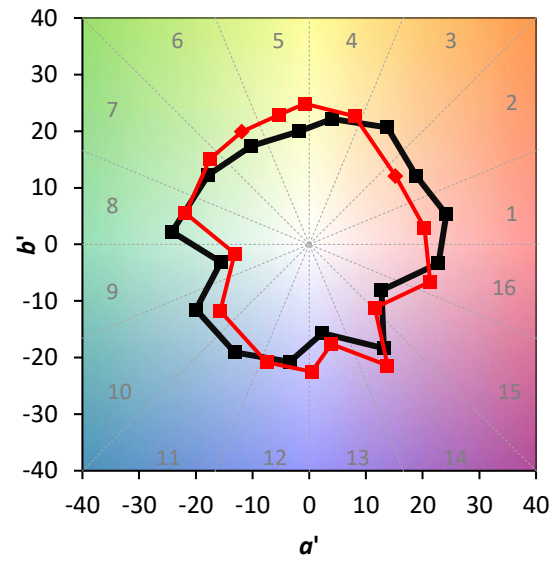
TM-30-18

Summary

$R_f = 70.4$
 $R_g = 97.1$
 $\text{CIE } R_a = 69.9$
 $R_g = -35.4$

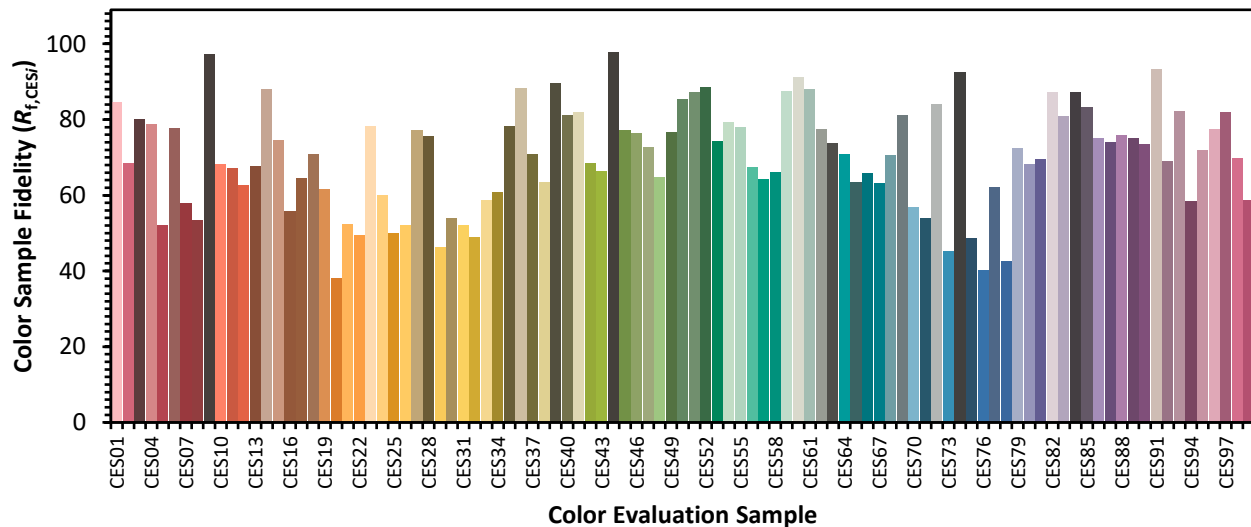


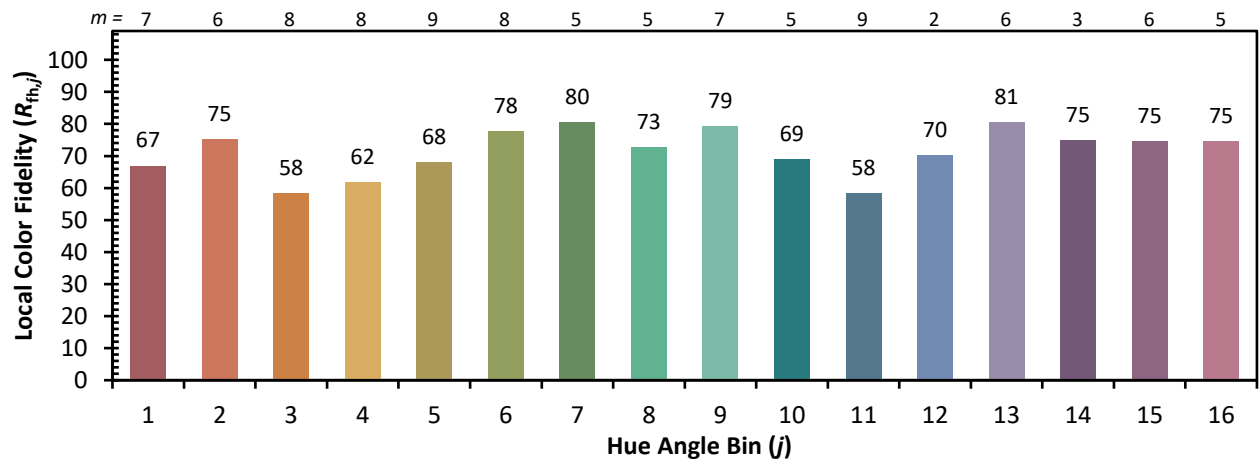
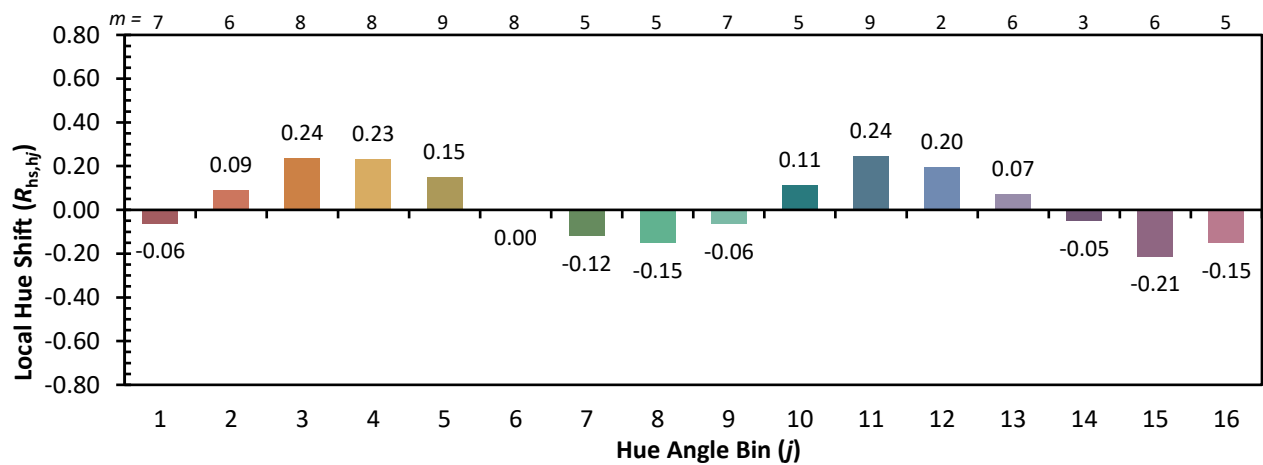
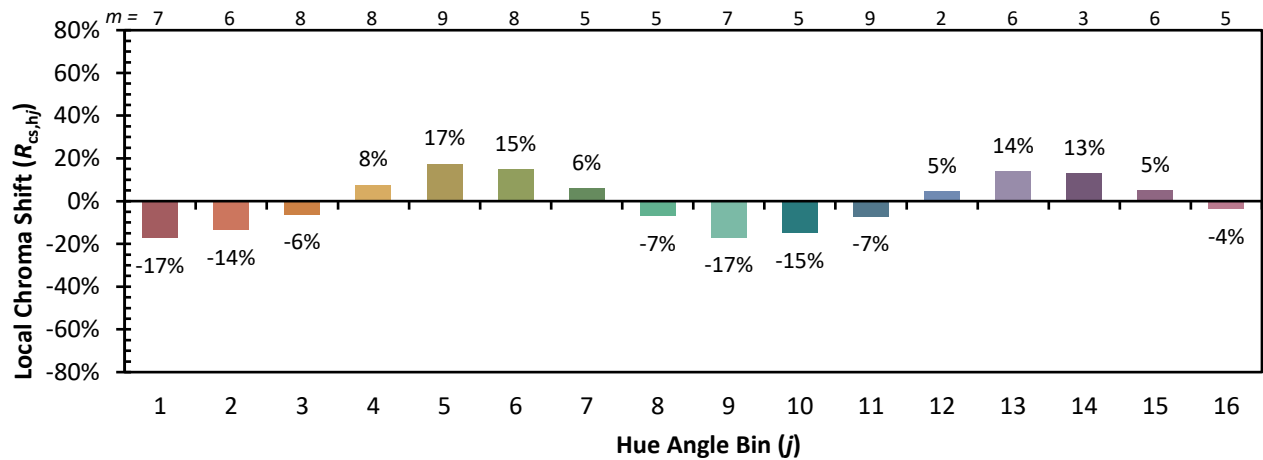
Color Vector Graphics



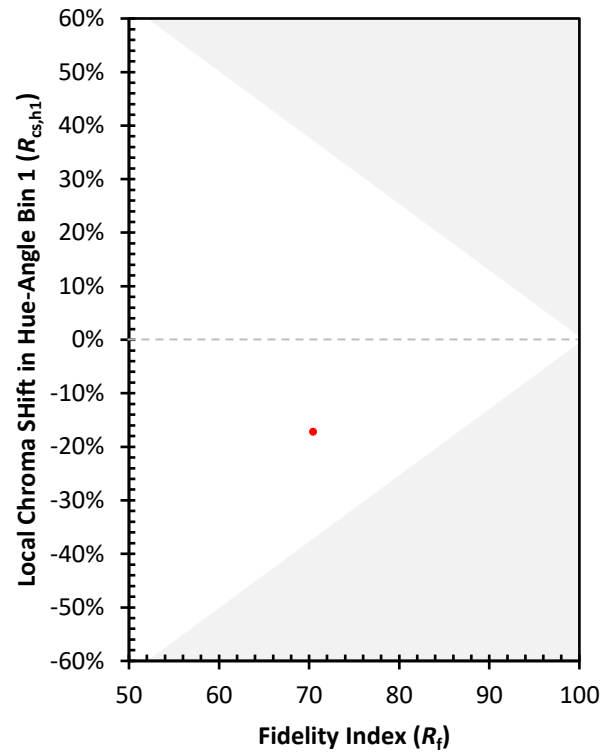
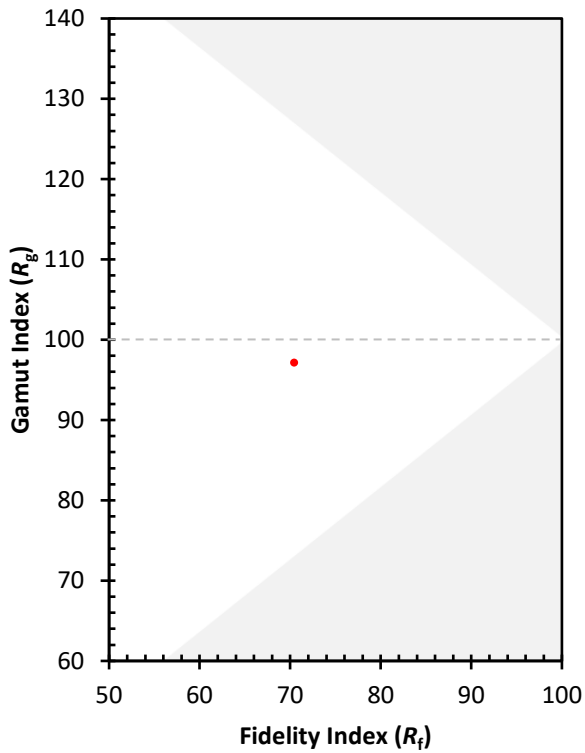
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 52	CES51 = 87	CES76 = 40
CES02 = 59	CES27 = 77	CES52 = 88	CES77 = 62
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 43
CES04 = 68	CES29 = 46	CES54 = 79	CES79 = 72
CES05 = 45	CES30 = 54	CES55 = 78	CES80 = 68
CES06 = 49	CES31 = 52	CES56 = 67	CES81 = 70
CES07 = 38	CES32 = 49	CES57 = 64	CES82 = 87
CES08 = 37	CES33 = 59	CES58 = 66	CES83 = 81
CES09 = 29	CES34 = 61	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 78	CES60 = 91	CES85 = 83
CES11 = 55	CES36 = 88	CES61 = 88	CES86 = 75
CES12 = 61	CES37 = 71	CES62 = 77	CES87 = 74
CES13 = 41	CES38 = 64	CES63 = 74	CES88 = 76
CES14 = 74	CES39 = 90	CES64 = 71	CES89 = 75
CES15 = 70	CES40 = 81	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 82	CES66 = 66	CES91 = 93
CES17 = 48	CES42 = 69	CES67 = 63	CES92 = 69
CES18 = 55	CES43 = 67	CES68 = 71	CES93 = 82
CES19 = 70	CES44 = 98	CES69 = 81	CES94 = 58
CES20 = 63	CES45 = 77	CES70 = 57	CES95 = 72
CES21 = 85	CES46 = 76	CES71 = 54	CES96 = 78
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 45	CES98 = 70
CES24 = 90	CES49 = 77	CES74 = 92	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)