

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: P991294

Luminaire Tested: **GPC-SA2B-830-U-RBC**

Issue Date: 07/03/2025

Test Information

Test Method: LM-79-08
Report Number: P991294
Test Lab: INNOVATION CENTER(G1)
Issue Date: 07/03/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-SA2B-830-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 800mA 2xLight Square PACKAGE 80CRI
3000K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6189.9 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 72.2
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



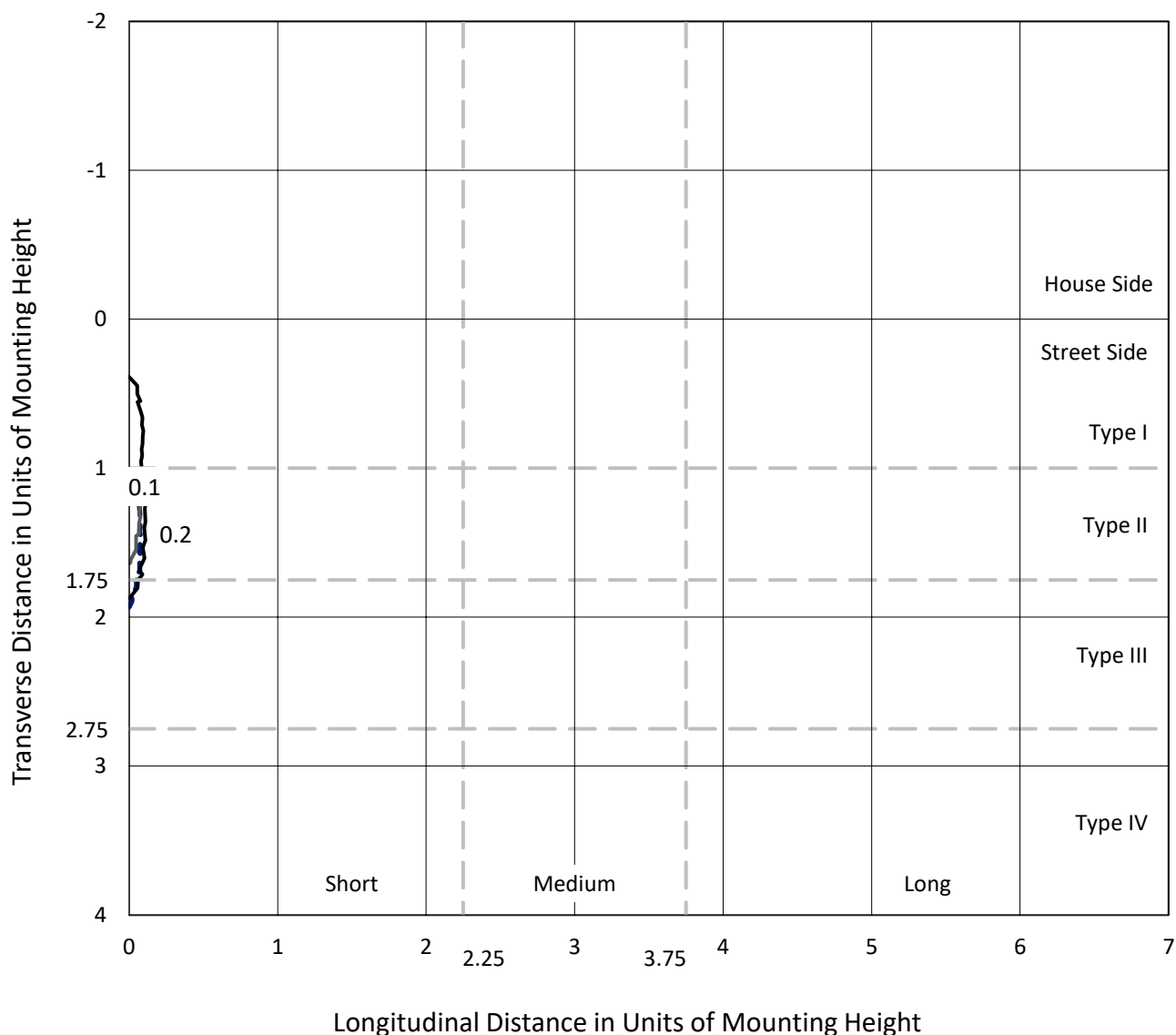
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



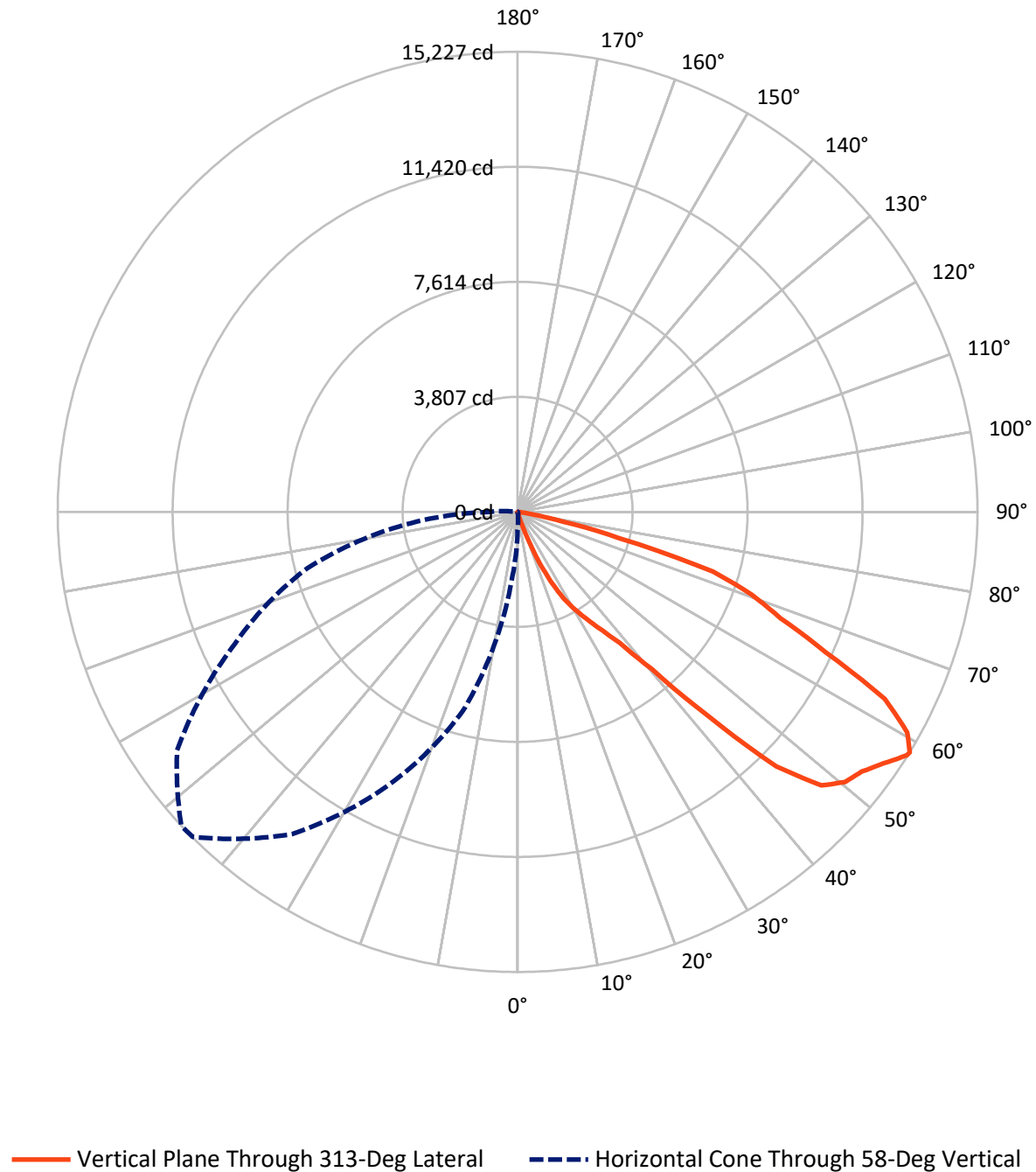
Based on 20 foot mounting height. Maximum calculated value = 0.4 fc

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	27.7	0.0	27.7
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	6162.3	0.0	6162.3
	% Fixture	99.6	0.0	99.6
Total	Lumens	6189.9	0.0	6189.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.0
10°-20°	10.8	0.2
20°-30°	156.3	2.5
30°-40°	449.4	7.3
40°-50°	1280.1	20.7
50°-60°	2013.6	32.5
60°-70°	1717.2	27.7
70°-80°	547.7	8.8
80°-90°	13.9	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°	6189.9	100.0
0°-180°	6189.9	100.0



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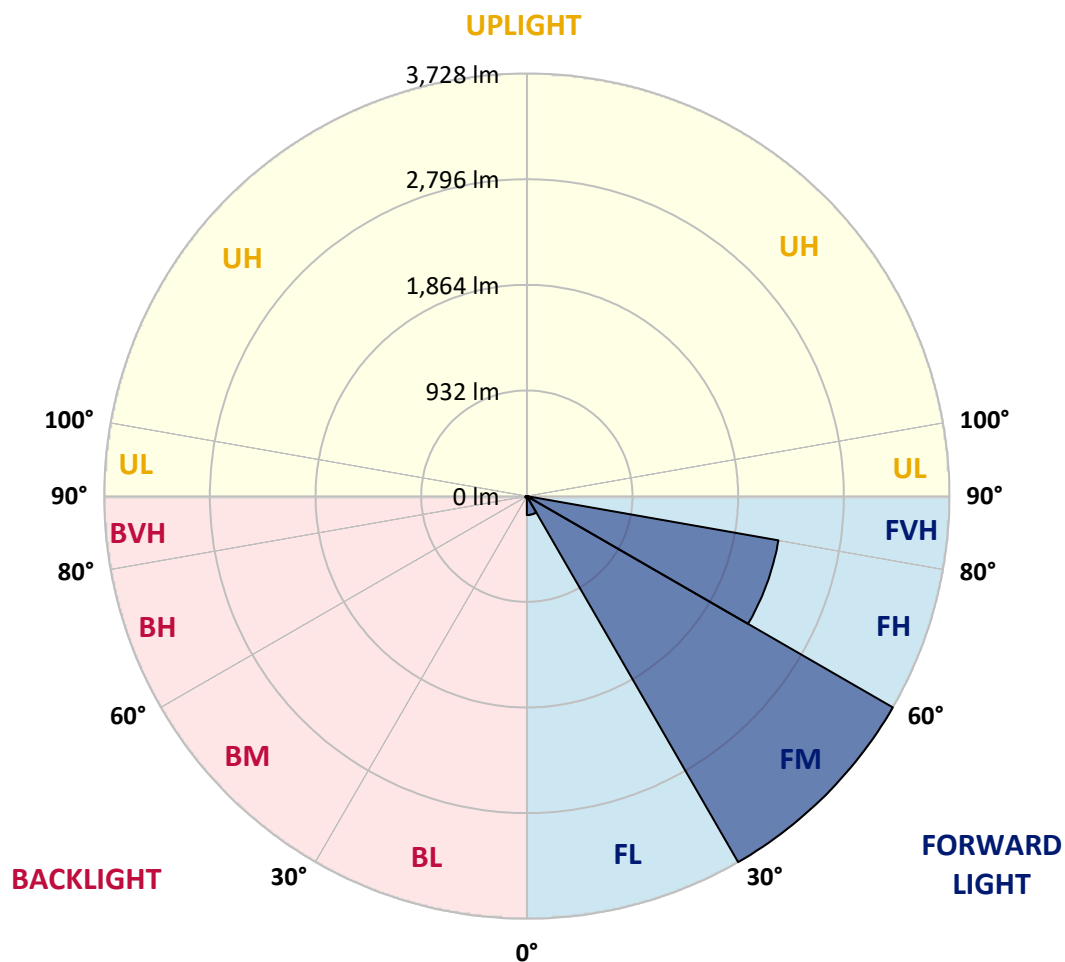
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	166.9	2.7			
FM	(30°-60°)	3728.3	60.2			
FH	(60°-80°)	2253.9	36.4			G2/5000
FVH	(80°-90°)	13.2	0.2			G1/100
BL	(0°-30°)	1.1	0.0	B0/110		
BM	(30°-60°)	14.8	0.2	B0/220		
BH	(60°-80°)	11.0	0.2	B0/110		G0/110
BVH	(80°-90°)	0.8	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°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
2.5°	22.3	23.5	24.8	23.5	21.1	16.1	16.1	12.4	8.7	5.0	3.7
5°	24.8	24.8	24.8	23.5	21.1	16.1	14.9	11.1	7.4	5.0	2.5
7.5°	27.3	27.3	26.0	23.5	19.8	16.1	14.9	11.1	7.4	3.7	0.0
10°	29.7	29.7	27.3	24.8	19.8	14.9	13.6	9.9	6.2	2.5	0.0
12.5°	33.4	32.2	28.5	24.8	19.8	13.6	13.6	9.9	5.0	1.2	0.0
15°	38.4	34.7	29.7	24.8	18.6	13.6	12.4	8.7	3.7	0.0	0.0
17.5°	42.1	38.4	31.0	23.5	17.3	12.4	11.1	7.4	3.7	0.0	0.0
20°	45.8	39.6	31.0	23.5	17.3	11.1	9.9	6.2	1.2	0.0	0.0
22.5°	52.0	42.1	31.0	23.5	16.1	9.9	8.7	5.0	0.0	0.0	0.0
25°	64.4	44.6	31.0	22.3	14.9	8.7	7.4	2.5	0.0	0.0	0.0
27.5°	79.3	48.3	31.0	21.1	13.6	7.4	6.2	1.2	0.0	0.0	0.0
30°	95.4	52.0	31.0	21.1	12.4	6.2	5.0	0.0	0.0	0.0	0.0
32.5°	112.7	57.0	31.0	19.8	11.1	5.0	3.7	0.0	0.0	0.0	0.0
35°	144.9	64.4	31.0	19.8	9.9	3.7	2.5	0.0	0.0	0.0	0.0
37.5°	159.8	74.3	31.0	18.6	9.9	2.5	1.2	0.0	0.0	0.0	0.0
40°	166.0	71.9	29.7	18.6	8.7	1.2	0.0	0.0	0.0	0.0	0.0
42.5°	179.6	66.9	31.0	17.3	8.7	1.2	0.0	0.0	0.0	0.0	0.0
45°	219.3	66.9	33.4	17.3	7.4	2.5	0.0	0.0	0.0	0.0	0.0
47.5°	380.3	69.4	32.2	17.3	7.4	2.5	0.0	0.0	0.0	0.0	0.0
50°	625.6	81.8	31.0	18.6	8.7	1.2	0.0	0.0	0.0	0.0	0.0
52.5°	725.9	99.1	31.0	19.8	11.1	0.0	0.0	0.0	0.0	0.0	0.0
55°	696.2	121.4	31.0	21.1	13.6	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	633.0	115.2	33.4	24.8	17.3	0.0	0.0	0.0	0.0	0.0	0.0
58°	609.5	115.2	33.4	24.8	17.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	478.2	117.7	38.4	27.3	18.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	355.5	120.2	43.4	31.0	18.6	1.2	0.0	0.0	0.0	0.0	0.0
65°	263.9	125.1	45.8	35.9	17.3	2.5	0.0	0.0	0.0	0.0	0.0
67.5°	210.6	128.8	49.6	39.6	19.8	5.0	1.2	0.0	0.0	0.0	0.0
70°	180.9	123.9	53.3	40.9	18.6	7.4	3.7	0.0	0.0	0.0	0.0
72.5°	161.0	116.4	60.7	39.6	19.8	7.4	3.7	0.0	0.0	0.0	0.0
75°	144.9	106.5	69.4	38.4	19.8	7.4	5.0	0.0	0.0	0.0	0.0
77.5°	109.0	92.9	68.1	37.2	18.6	7.4	5.0	0.0	0.0	0.0	0.0
80°	54.5	61.9	59.5	33.4	14.9	6.2	5.0	1.2	0.0	0.0	0.0
82.5°	22.3	23.5	29.7	24.8	12.4	5.0	5.0	1.2	0.0	0.0	0.0
85°	2.5	5.0	8.7	9.9	8.7	5.0	5.0	1.2	0.0	0.0	0.0
87.5°	0.0	1.2	5.0	7.4	6.2	3.7	2.5	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°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
2.5°	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
5°	1.2	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°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
2.5°	1.2	2.5	2.5	2.5	3.7	3.7	5.0	6.2	6.2	6.2	7.4
5°	0.0	0.0	1.2	1.2	2.5	3.7	5.0	7.4	8.7	8.7	9.9
7.5°	0.0	0.0	0.0	1.2	2.5	3.7	5.0	7.4	9.9	11.1	12.4
10°	0.0	0.0	0.0	0.0	1.2	2.5	5.0	8.7	12.4	14.9	17.3
12.5°	0.0	0.0	0.0	0.0	0.0	1.2	5.0	9.9	14.9	18.6	21.1
15°	0.0	0.0	0.0	0.0	0.0	1.2	5.0	9.9	18.6	22.3	27.3
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.0	11.1	21.1	27.3	37.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	3.7	11.1	23.5	33.4	55.7
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.7	11.1	26.0	43.4	102.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	11.1	29.7	64.4	171.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	12.4	35.9	90.4	250.2
30°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	12.4	44.6	122.6	349.3
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	12.4	52.0	154.8	475.7
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	61.9	205.6	597.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	76.8	226.7	699.9
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	73.1	246.5	817.6
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	66.9	275.0	1002.2
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	66.9	364.2	1411.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	81.8	567.4	2156.7
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	105.3	870.9	3071.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	127.6	1071.6	3601.2
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	153.6	1072.8	3583.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	171.0	960.1	3234.5
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	169.7	929.1	3137.9
60°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	12.4	148.7	806.5	2739.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.0	19.8	130.1	578.5	2270.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	9.9	22.3	118.9	420.0	1704.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	12.4	26.0	114.0	297.3	1185.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	14.9	29.7	105.3	213.1	780.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	14.9	37.2	99.1	167.2	470.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	14.9	47.1	86.7	136.3	252.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	14.9	50.8	71.9	99.1	153.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	13.6	45.8	52.0	43.4	52.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.4	27.3	11.1	11.1	17.3
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°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
2.5°	8.7	8.7	8.7	8.7	9.9	9.9	13.6	17.3	21.1	22.3
5°	11.1	12.4	13.6	13.6	13.6	14.9	17.3	19.8	23.5	24.8
7.5°	16.1	17.3	19.8	19.8	19.8	21.1	22.3	24.8	27.3	27.3
10°	21.1	24.8	26.0	27.3	28.5	28.5	28.5	29.7	31.0	29.7
12.5°	28.5	33.4	39.6	40.9	40.9	40.9	39.6	37.2	34.7	33.4
15°	39.6	54.5	74.3	81.8	78.0	69.4	60.7	47.1	40.9	38.4
17.5°	73.1	148.7	270.1	298.6	292.4	251.5	147.4	71.9	48.3	42.1
20°	197.0	480.7	792.8	868.4	908.0	751.9	434.8	167.2	59.5	45.8
22.5°	424.9	998.5	1547.3	1743.0	1755.4	1412.2	846.1	339.4	85.5	52.0
25°	683.8	1596.8	2345.0	2534.6	2538.3	2176.6	1352.8	550.0	130.1	64.4
27.5°	1048.0	2238.5	3075.9	3233.3	3230.8	2864.1	1954.8	839.9	182.1	79.3
30°	1420.9	2739.0	3557.8	3753.6	3772.1	3333.6	2457.8	1183.1	237.8	95.4
32.5°	1790.1	3109.4	3997.6	4257.7	4241.6	3748.6	2808.4	1464.3	333.2	112.7
35°	2081.2	3425.3	4484.4	4804.1	4816.4	4204.5	3119.3	1736.8	415.0	144.9
37.5°	2330.2	3832.8	5132.3	5501.5	5517.6	4771.8	3445.1	2004.4	485.6	159.8
40°	2637.4	4501.8	6205.1	6832.0	6834.4	5829.8	4031.0	2304.2	581.0	166.0
42.5°	3327.4	5935.1	8301.2	9201.8	9279.8	8024.9	5362.8	2954.5	730.9	179.6
45°	4707.4	7824.2	10974.5	12011.4	12110.5	10756.5	7645.9	4456.0	1060.4	219.3
47.5°	6348.8	9466.9	12528.0	13526.4	13592.1	12048.5	9174.5	6192.7	1804.9	380.3
50°	7358.5	10075.1	13099.0	14051.7	14062.8	12473.4	9653.9	7094.6	2571.7	625.6
52.5°	7671.9	10153.2	13121.3	14273.4	14305.6	12423.9	9719.6	7276.7	2891.4	725.9
55°	7544.3	10107.3	13356.7	14697.1	14731.8	12625.8	9675.0	7077.2	2741.5	696.2
57.5°	7253.2	10285.7	13743.2	15200.0	15200.0	12998.7	9839.8	6742.8	2374.8	633.0
58°	7209.8	10330.3	13764.3	15227.3	15216.1	13022.2	9907.9	6694.5	2294.3	609.5
60°	7150.3	10467.8	13608.2	14824.7	14792.5	12856.2	10031.8	6651.1	1904.0	478.2
62.5°	7063.6	10158.1	12471.0	13640.4	13557.4	11693.0	9676.2	6397.1	1420.9	355.5
65°	6618.9	9014.7	10396.0	11206.2	11180.1	9619.3	8328.4	5730.7	1023.2	263.9
67.5°	5579.5	7057.4	8397.8	9374.0	9380.2	7852.7	6513.6	4579.8	696.2	210.6
70°	3924.5	5205.4	7139.2	8225.6	8275.2	6586.7	4825.1	3052.4	459.6	180.9
72.5°	2343.8	3931.9	5936.3	6761.4	6735.3	5465.6	3580.1	1819.8	280.0	161.0
75°	1136.0	2350.0	3000.4	3479.8	3460.0	2734.0	1907.7	891.9	204.4	144.9
77.5°	308.5	722.2	1162.0	1511.3	1552.2	1095.1	625.6	239.1	127.6	109.0
80°	104.1	223.0	379.1	515.3	529.0	473.2	235.4	84.2	55.7	54.5
82.5°	39.6	54.5	69.4	61.9	61.9	64.4	50.8	35.9	26.0	22.3
85°	0.0	0.0	1.2	2.5	2.5	3.7	3.7	3.7	2.5	2.5
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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

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

REPORT NUMBER: SP1-2407-184-9

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 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

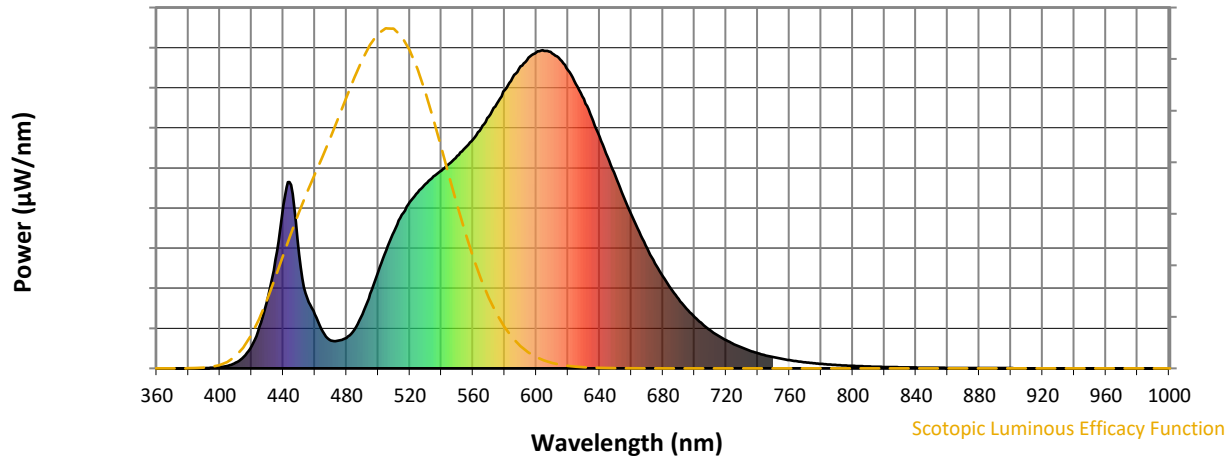


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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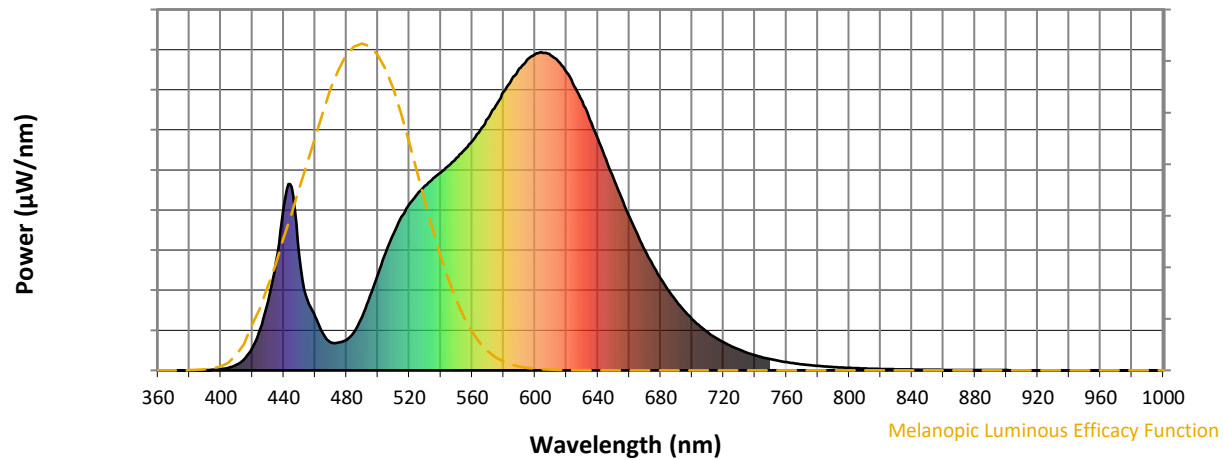
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.33

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

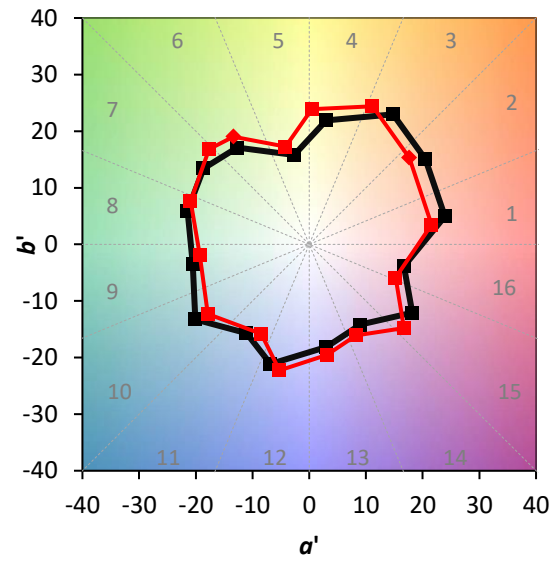
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

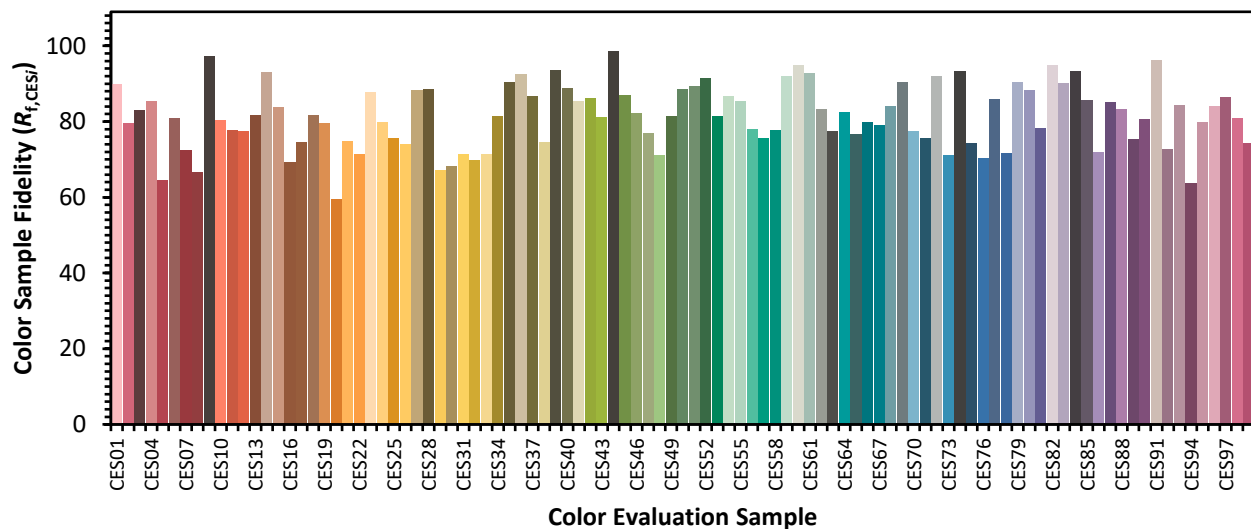


Color Vector Graphics

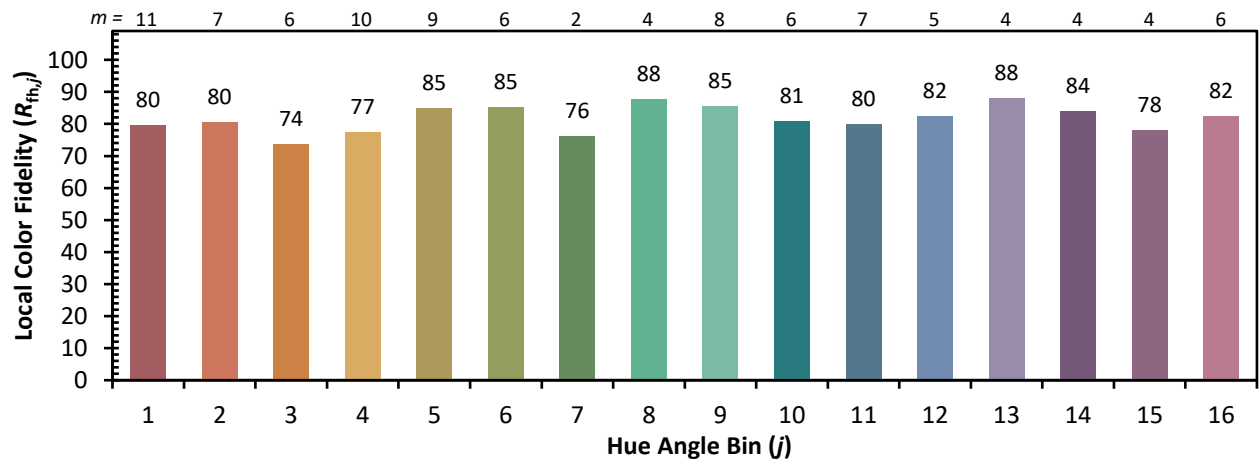


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)