

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: STREETWORKS

Report Number: P1057657

Luminaire Tested: **GAP-SA2D-727-U-RBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1057657
Test Lab: INNOVATION CENTER(G1)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-SA2D-727-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 1200mA 2xLight Square PACKAGE 70CRI
2700K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (28) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9080.8 lumens
Efficiency: N/A
Efficacy: 83.9 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): 108.2
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: 28.75 FT

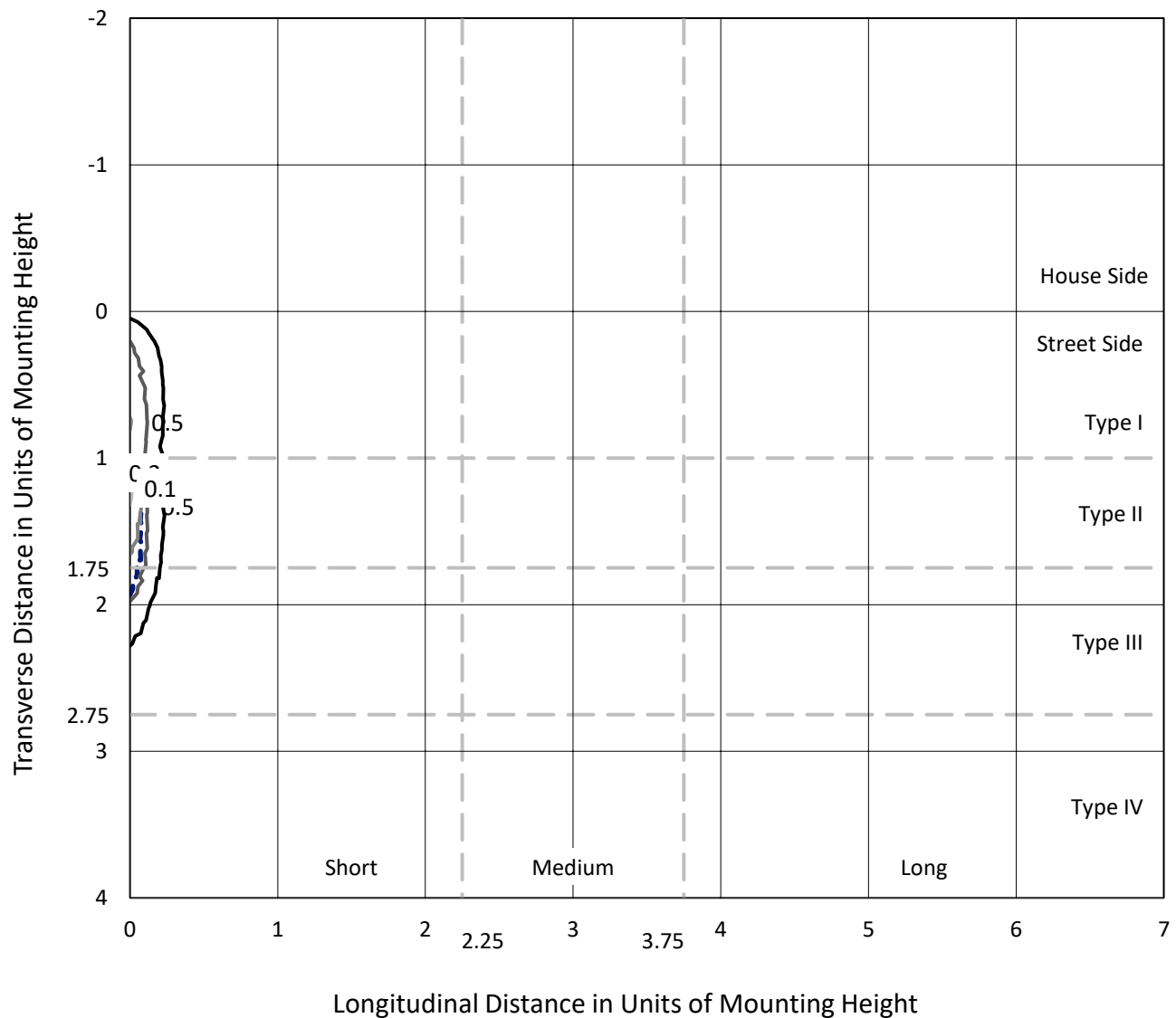


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

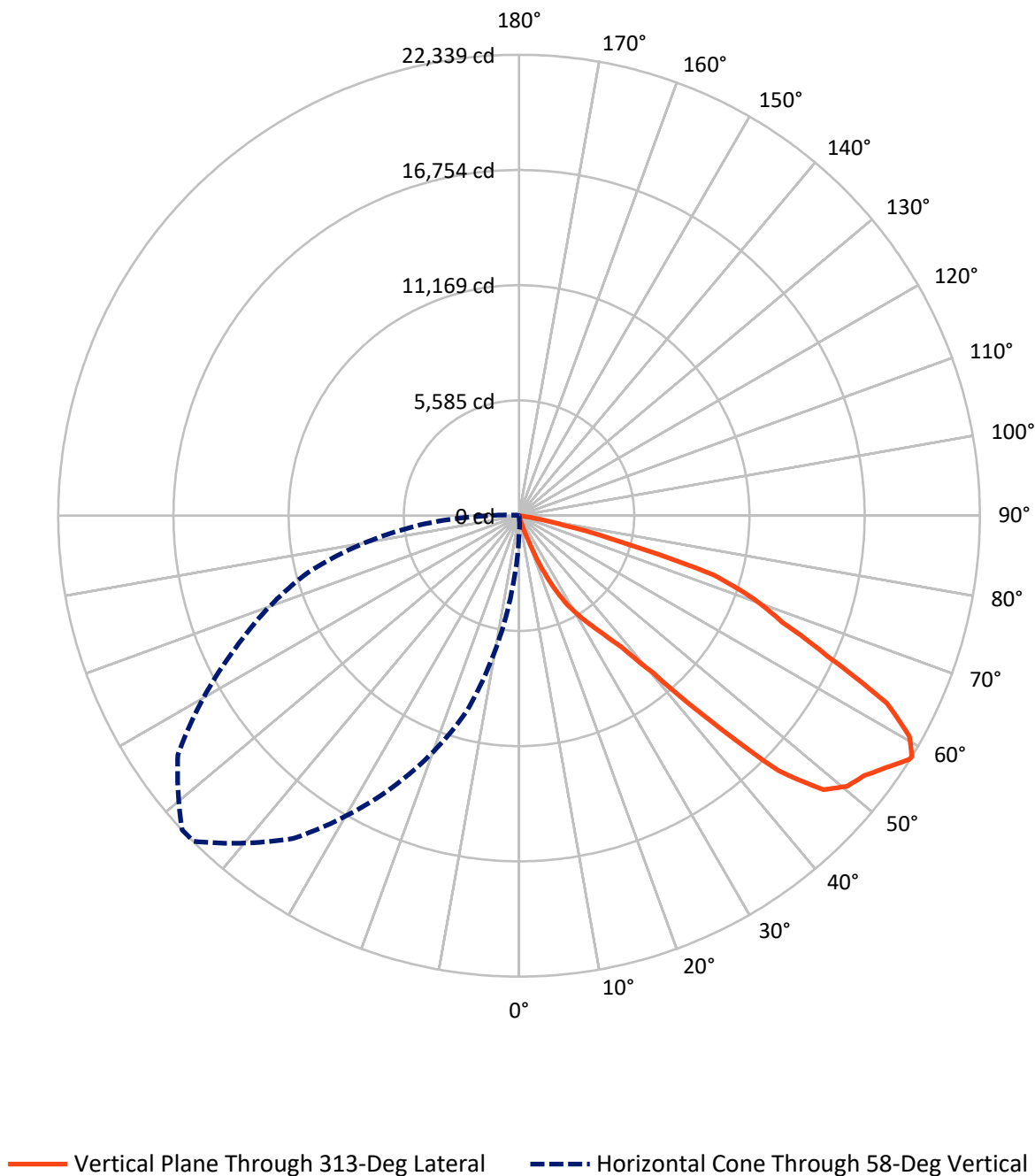


Based on 15 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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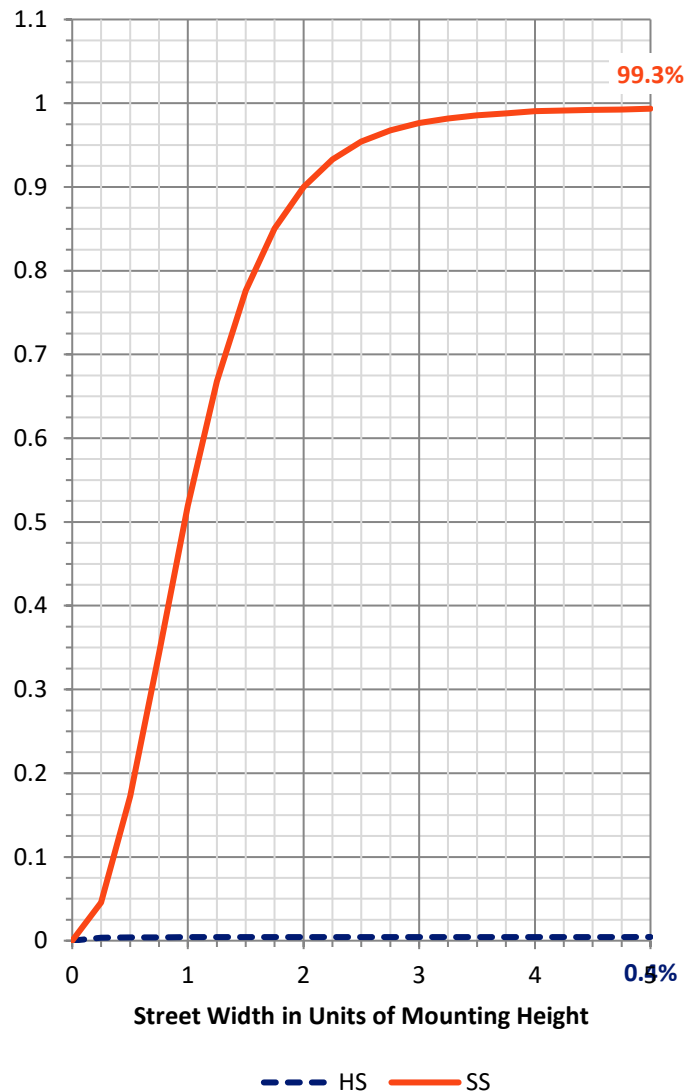
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	40.6	0.0	40.6
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	9040.2	0.0	9040.2
	% Fixture	99.6	0.0	99.6
Total	Lumens	9080.8	0.0	9080.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.0
10°-20°	15.8	0.2
20°-30°	229.3	2.5
30°-40°	659.3	7.3
40°-50°	1878.0	20.7
50°-60°	2954.0	32.5
60°-70°	2519.1	27.7
70°-80°	803.6	8.8
80°-90°	20.5	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°	9080.8	100.0
0°-180°	9080.8	100.0



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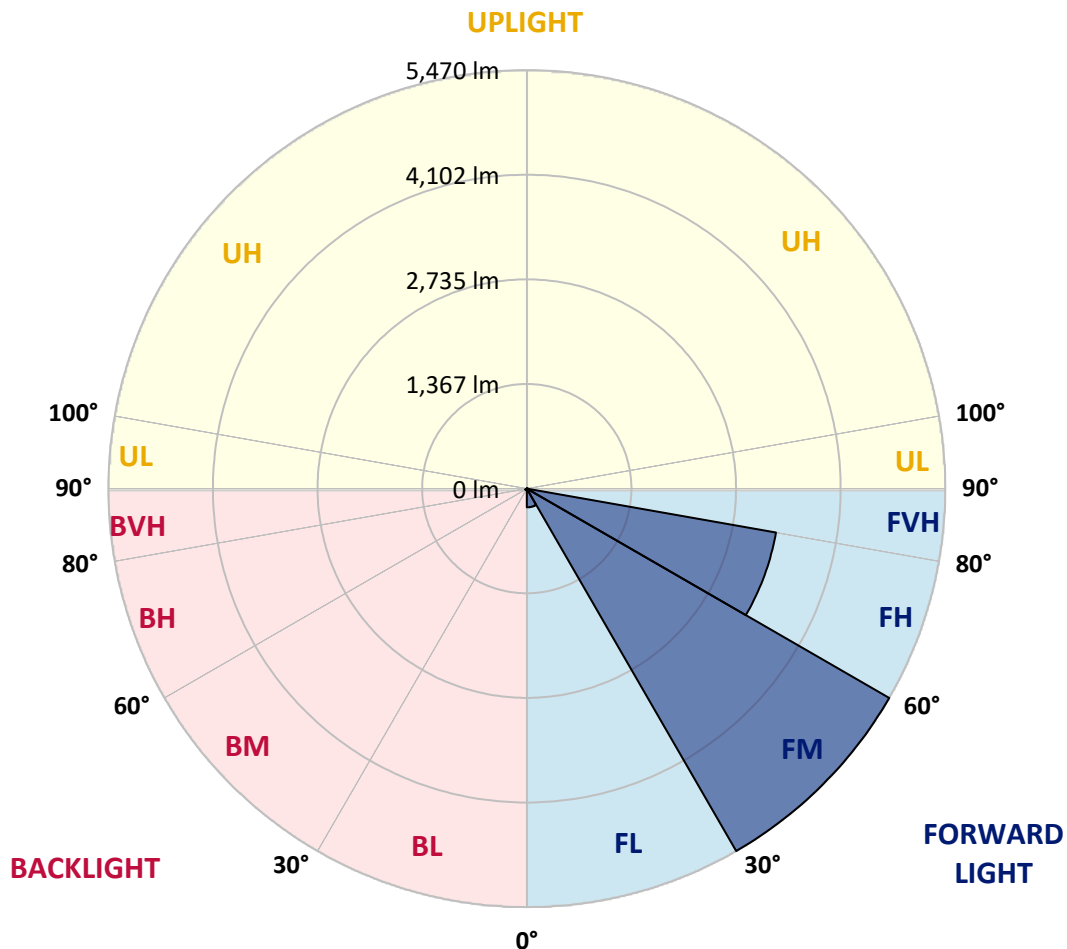
CATALOG NUMBER: GAP-SA2D-727-U-RBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	244.8	2.7			
FM	(30°-60°)	5469.5	60.2			
FH	(60°-80°)	3306.5	36.4			G2/5000
FVH	(80°-90°)	19.4	0.2			G1/100
BL	(0°-30°)	1.6	0.0	B0/110		
BM	(30°-60°)	21.7	0.2	B0/220		
BH	(60°-80°)	16.1	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
2.5°	32.7	34.5	36.3	34.5	30.9	23.6	23.6	18.2	12.7	7.3	5.5
5°	36.3	36.3	36.3	34.5	30.9	23.6	21.8	16.4	10.9	7.3	3.6
7.5°	40.0	40.0	38.2	34.5	29.1	23.6	21.8	16.4	10.9	5.5	0.0
10°	43.6	43.6	40.0	36.3	29.1	21.8	20.0	14.5	9.1	3.6	0.0
12.5°	49.1	47.3	41.8	36.3	29.1	20.0	20.0	14.5	7.3	1.8	0.0
15°	56.3	50.9	43.6	36.3	27.3	20.0	18.2	12.7	5.5	0.0	0.0
17.5°	61.8	56.3	45.4	34.5	25.4	18.2	16.4	10.9	5.5	0.0	0.0
20°	67.2	58.2	45.4	34.5	25.4	16.4	14.5	9.1	1.8	0.0	0.0
22.5°	76.3	61.8	45.4	34.5	23.6	14.5	12.7	7.3	0.0	0.0	0.0
25°	94.5	65.4	45.4	32.7	21.8	12.7	10.9	3.6	0.0	0.0	0.0
27.5°	116.3	70.9	45.4	30.9	20.0	10.9	9.1	1.8	0.0	0.0	0.0
30°	139.9	76.3	45.4	30.9	18.2	9.1	7.3	0.0	0.0	0.0	0.0
32.5°	165.4	83.6	45.4	29.1	16.4	7.3	5.5	0.0	0.0	0.0	0.0
35°	212.6	94.5	45.4	29.1	14.5	5.5	3.6	0.0	0.0	0.0	0.0
37.5°	234.4	109.0	45.4	27.3	14.5	3.6	1.8	0.0	0.0	0.0	0.0
40°	243.5	105.4	43.6	27.3	12.7	1.8	0.0	0.0	0.0	0.0	0.0
42.5°	263.5	98.1	45.4	25.4	12.7	1.8	0.0	0.0	0.0	0.0	0.0
45°	321.7	98.1	49.1	25.4	10.9	3.6	0.0	0.0	0.0	0.0	0.0
47.5°	557.9	101.8	47.3	25.4	10.9	3.6	0.0	0.0	0.0	0.0	0.0
50°	917.8	119.9	45.4	27.3	12.7	1.8	0.0	0.0	0.0	0.0	0.0
52.5°	1065.0	145.4	45.4	29.1	16.4	0.0	0.0	0.0	0.0	0.0	0.0
55°	1021.4	178.1	45.4	30.9	20.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	928.7	169.0	49.1	36.3	25.4	0.0	0.0	0.0	0.0	0.0	0.0
58°	894.1	169.0	49.1	36.3	25.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	701.5	172.6	56.3	40.0	27.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	521.6	176.3	63.6	45.4	27.3	1.8	0.0	0.0	0.0	0.0	0.0
65°	387.1	183.6	67.2	52.7	25.4	3.6	0.0	0.0	0.0	0.0	0.0
67.5°	309.0	189.0	72.7	58.2	29.1	7.3	1.8	0.0	0.0	0.0	0.0
70°	265.3	181.7	78.1	60.0	27.3	10.9	5.5	0.0	0.0	0.0	0.0
72.5°	236.3	170.8	89.1	58.2	29.1	10.9	5.5	0.0	0.0	0.0	0.0
75°	212.6	156.3	101.8	56.3	29.1	10.9	7.3	0.0	0.0	0.0	0.0
77.5°	159.9	136.3	100.0	54.5	27.3	10.9	7.3	0.0	0.0	0.0	0.0
80°	80.0	90.9	87.2	49.1	21.8	9.1	7.3	1.8	0.0	0.0	0.0
82.5°	32.7	34.5	43.6	36.3	18.2	7.3	7.3	1.8	0.0	0.0	0.0
85°	3.6	7.3	12.7	14.5	12.7	7.3	7.3	1.8	0.0	0.0	0.0
87.5°	0.0	1.8	7.3	10.9	9.1	5.5	3.6	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°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
2.5°	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
5°	1.8	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°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
2.5°	1.8	3.6	3.6	3.6	5.5	5.5	7.3	9.1	9.1	9.1	10.9
5°	0.0	0.0	1.8	1.8	3.6	5.5	7.3	10.9	12.7	12.7	14.5
7.5°	0.0	0.0	0.0	1.8	3.6	5.5	7.3	10.9	14.5	16.4	18.2
10°	0.0	0.0	0.0	0.0	1.8	3.6	7.3	12.7	18.2	21.8	25.4
12.5°	0.0	0.0	0.0	0.0	0.0	1.8	7.3	14.5	21.8	27.3	30.9
15°	0.0	0.0	0.0	0.0	0.0	1.8	7.3	14.5	27.3	32.7	40.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.3	16.4	30.9	40.0	54.5
20°	0.0	0.0	0.0	0.0	0.0	0.0	5.5	16.4	34.5	49.1	81.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.5	16.4	38.2	63.6	150.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	16.4	43.6	94.5	250.8
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	18.2	52.7	132.7	367.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	18.2	65.4	179.9	512.5
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	18.2	76.3	227.2	697.9
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4	90.9	301.7	876.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4	112.7	332.6	1026.8
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	107.2	361.7	1199.5
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4	98.1	403.5	1470.2
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4	98.1	534.3	2070.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	119.9	832.3	3164.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	154.5	1277.6	4505.2
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	187.2	1572.0	5283.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	225.4	1573.8	5257.6
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	250.8	1408.4	4745.1
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	249.0	1363.0	4603.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	18.2	218.1	1183.1	4018.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.3	29.1	190.8	848.7	3331.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	14.5	32.7	174.5	616.1	2500.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	18.2	38.2	167.2	436.2	1739.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	21.8	43.6	154.5	312.6	1144.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	21.8	54.5	145.4	245.3	690.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	21.8	69.1	127.2	199.9	370.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	21.8	74.5	105.4	145.4	225.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	20.0	67.2	76.3	63.6	76.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.9	40.0	16.4	16.4	25.4
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°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
2.5°	12.7	12.7	12.7	12.7	14.5	14.5	20.0	25.4	30.9	32.7
5°	16.4	18.2	20.0	20.0	20.0	21.8	25.4	29.1	34.5	36.3
7.5°	23.6	25.4	29.1	29.1	29.1	30.9	32.7	36.3	40.0	40.0
10°	30.9	36.3	38.2	40.0	41.8	41.8	41.8	43.6	45.4	43.6
12.5°	41.8	49.1	58.2	60.0	60.0	60.0	58.2	54.5	50.9	49.1
15°	58.2	80.0	109.0	119.9	114.5	101.8	89.1	69.1	60.0	56.3
17.5°	107.2	218.1	396.2	438.0	428.9	368.9	216.3	105.4	70.9	61.8
20°	289.0	705.1	1163.1	1274.0	1332.1	1103.1	637.9	245.3	87.2	67.2
22.5°	623.4	1464.8	2269.9	2557.0	2575.2	2071.8	1241.3	498.0	125.4	76.3
25°	1003.2	2342.6	3440.3	3718.3	3723.8	3193.1	1984.6	806.9	190.8	94.5
27.5°	1537.5	3284.0	4512.5	4743.3	4739.7	4201.7	2867.8	1232.2	267.2	116.3
30°	2084.5	4018.2	5219.4	5506.6	5533.8	4890.5	3605.6	1735.6	348.9	139.9
32.5°	2626.1	4561.6	5864.6	6246.2	6222.6	5499.3	4119.9	2148.1	488.9	165.4
35°	3053.2	5025.0	6578.8	7047.7	7065.9	6168.1	4576.1	2547.9	608.8	212.6
37.5°	3418.4	5622.9	7529.3	8070.9	8094.5	7000.4	5054.1	2940.5	712.4	234.4
40°	3869.1	6604.3	9103.1	10022.7	10026.3	8552.5	5913.7	3380.3	852.3	243.5
42.5°	4881.4	8706.9	12178.1	13499.3	13613.8	11772.8	7867.3	4334.4	1072.2	263.5
45°	6905.9	11478.4	16099.9	17621.1	17766.5	15780.1	11216.7	6537.0	1555.7	321.7
47.5°	9313.9	13888.2	18378.9	19843.7	19940.0	17675.6	13459.3	9085.0	2647.9	557.9
50°	10795.1	14780.5	19216.7	20614.2	20630.6	18298.9	14162.6	10408.0	3772.8	917.8
52.5°	11254.9	14895.0	19249.4	20939.6	20986.8	18226.2	14259.0	10675.1	4241.7	1065.0
55°	11067.7	14827.8	19594.7	21561.1	21612.0	18522.5	14193.5	10382.5	4021.8	1021.4
57.5°	10640.6	15089.5	20161.7	22298.9	22298.9	19069.5	14435.2	9891.9	3483.9	928.7
58°	10577.0	15154.9	20192.6	22338.9	22322.6	19104.0	14535.2	9821.0	3365.7	894.1
60°	10489.8	15356.6	19963.6	21748.3	21701.0	18860.5	14716.9	9757.4	2793.3	701.5
62.5°	10362.6	14902.3	18295.3	20010.9	19889.1	17154.0	14195.4	9384.8	2084.5	521.6
65°	9710.1	13224.9	15251.2	16439.8	16401.6	14111.8	12218.1	8407.1	1501.1	387.1
67.5°	8185.4	10353.5	12319.8	13751.9	13761.0	11520.2	9555.6	6718.8	1021.4	309.0
70°	5757.4	7636.5	10473.4	12067.2	12139.9	9662.9	7078.6	4478.0	674.2	265.3
72.5°	3438.4	5768.3	8708.8	9919.1	9881.0	8018.2	5252.2	2669.7	410.7	236.3
75°	1666.5	3447.5	4401.6	5104.9	5075.9	4010.9	2798.7	1308.5	299.9	212.6
77.5°	452.5	1059.5	1704.7	2217.2	2277.1	1606.5	917.8	350.7	187.2	159.9
80°	152.7	327.1	556.1	756.0	776.0	694.2	345.3	123.6	81.8	80.0
82.5°	58.2	80.0	101.8	90.9	90.9	94.5	74.5	52.7	38.2	32.7
85°	0.0	0.0	1.8	3.6	3.6	5.5	5.5	5.5	3.6	3.6
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: SP1-2407-184-3

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

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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 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			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.02

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

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	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			

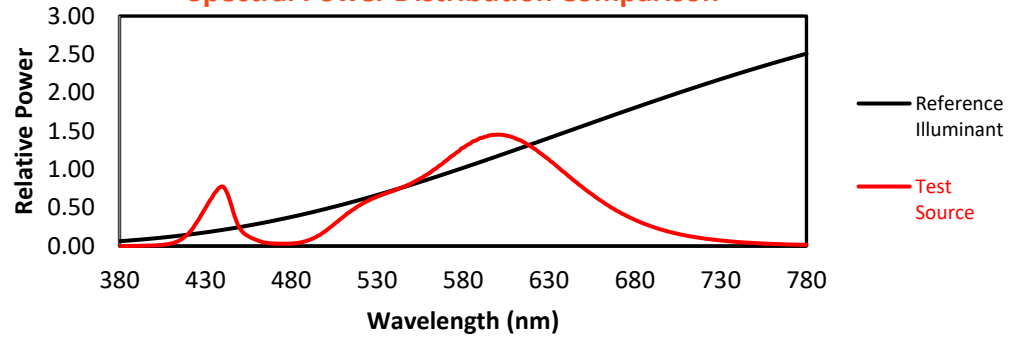
REPORT NUMBER: SP1-2407-184-3

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



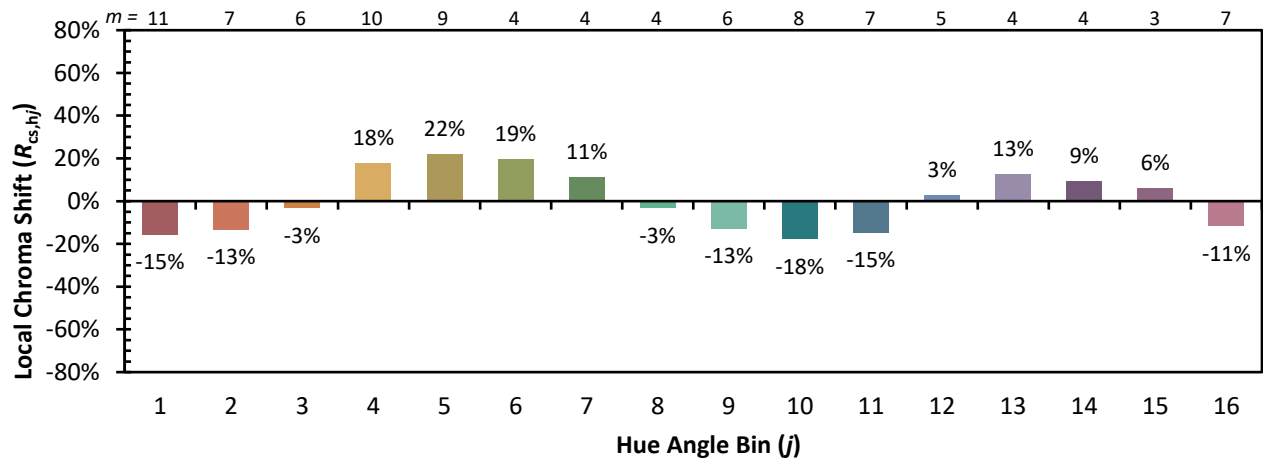
Color Vector Graphics



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)