

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: P1065151

Luminaire Tested: **GLAN-SA5C-722-U-LBC**

Issue Date: 08/07/2025



Test Information

Test Method: LM-79-08
Report Number: P1065151
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5C-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18470.7 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 236
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

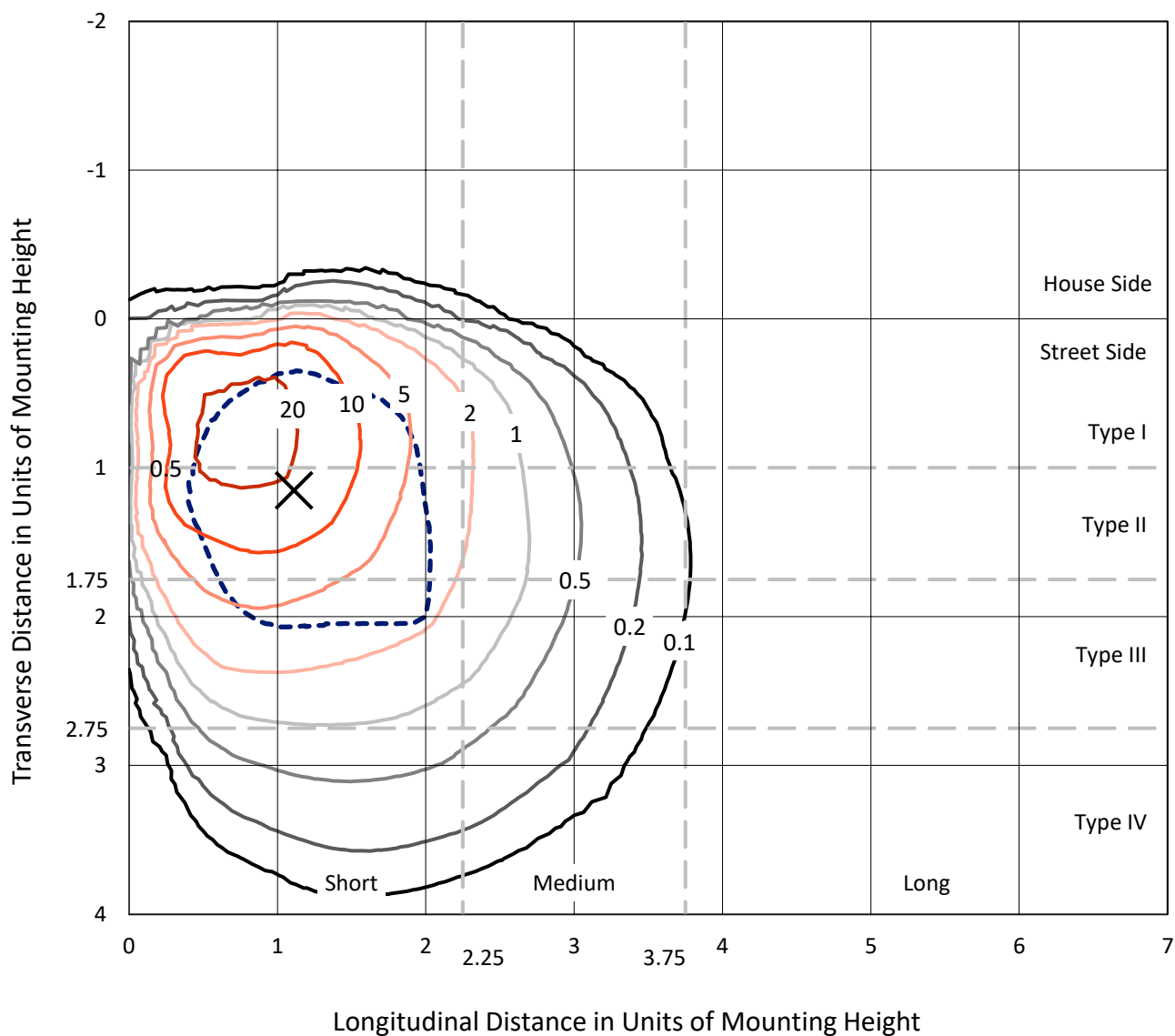
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

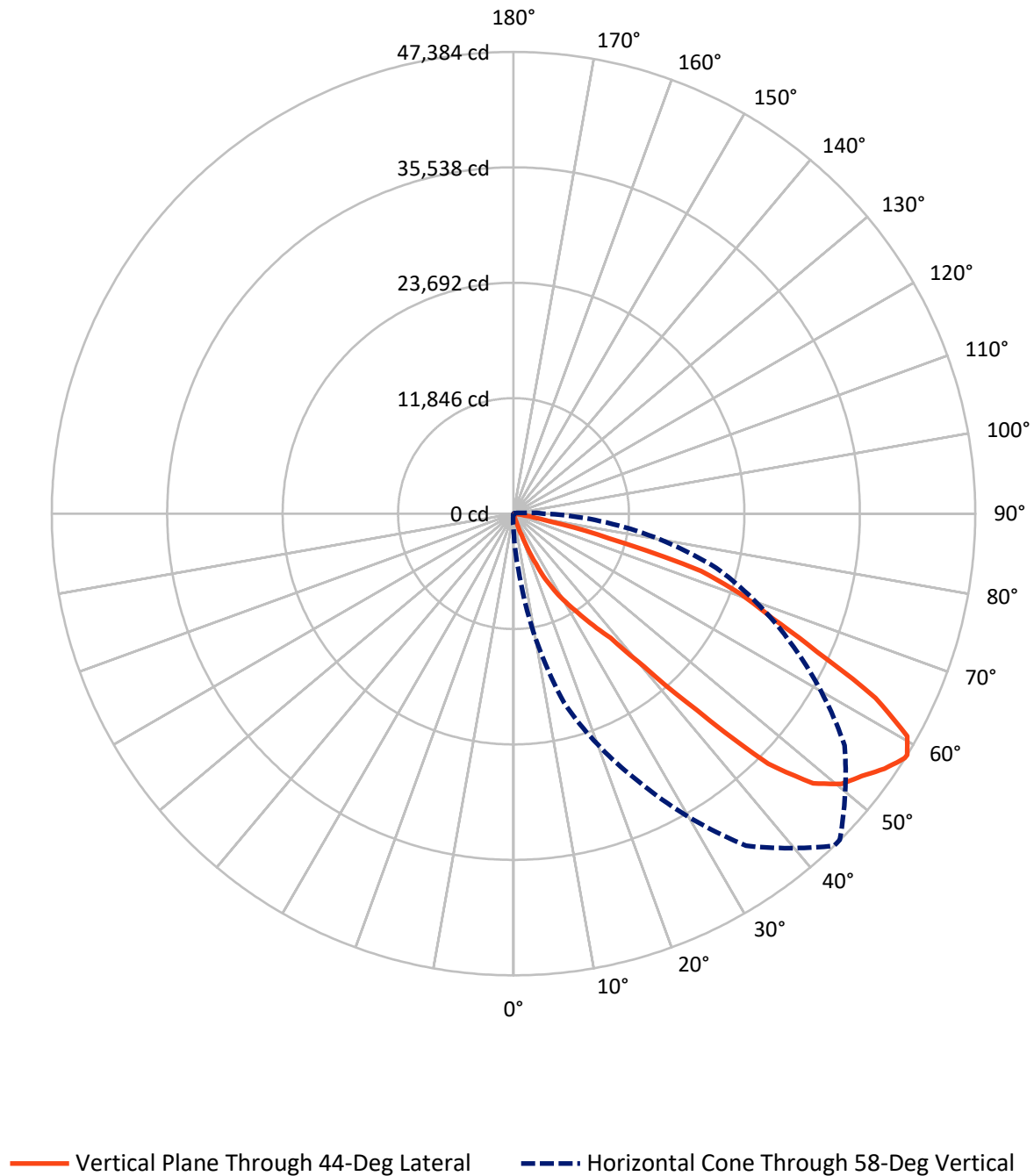


Based on 20 foot mounting height. Maximum calculated value = 32.2 fc

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	126.1	0.0	126.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	18344.5	0.0	18344.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	18470.7	0.0	18470.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.0
10°-20°	40.5	0.2
20°-30°	437.6	2.4
30°-40°	1294.1	7.0
40°-50°	3857.0	20.9
50°-60°	6120.1	33.1
60°-70°	5104.9	27.6
70°-80°	1574.4	8.5
80°-90°	35.0	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°	18470.7	100.0
0°-180°	18470.7	100.0



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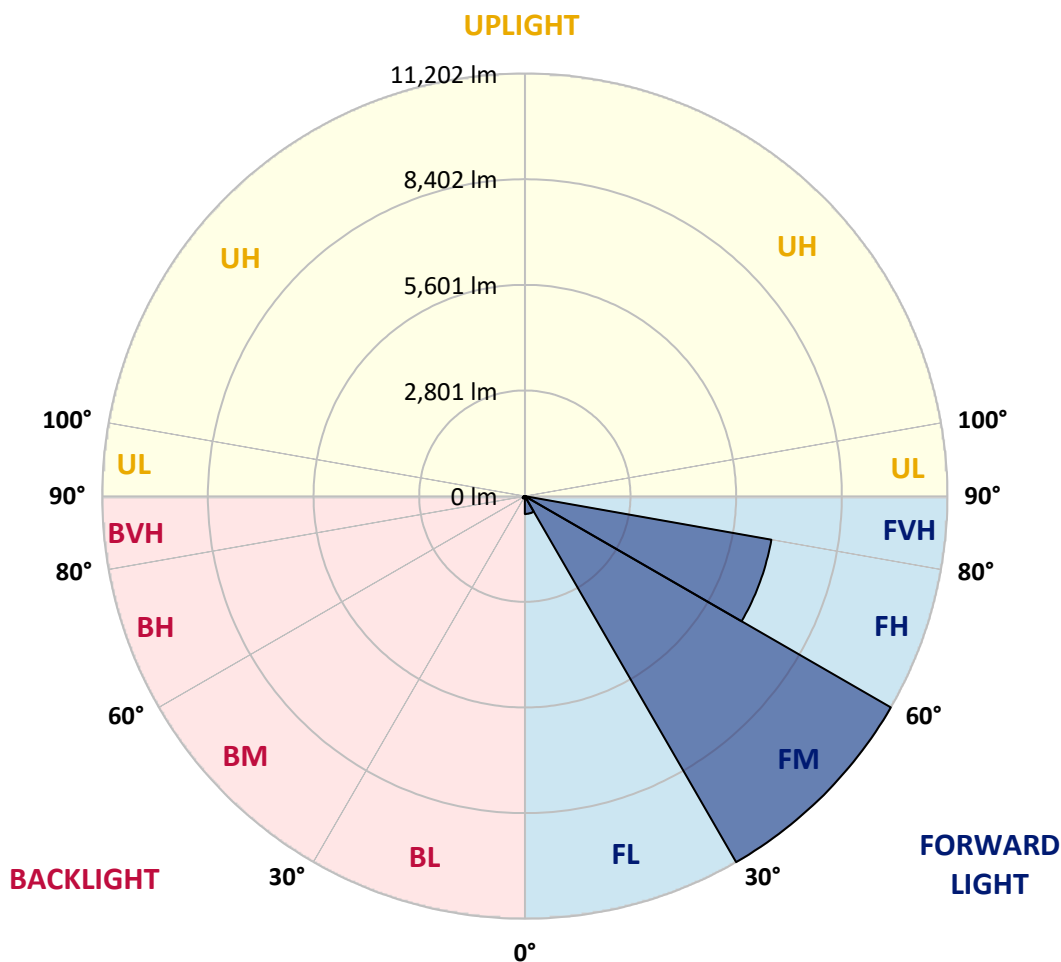
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	473.0	2.6			
FM	(30°-60°)	11202.1	60.6			
FH	(60°-80°)	6636.2	35.9			G3/7500
FVH	(80°-90°)	33.3	0.2			G1/100
BL	(0°-30°)	12.3	0.1	B0/110		
BM	(30°-60°)	69.0	0.4	B0/220		
BH	(60°-80°)	43.1	0.2	B0/110		G0/110
BVH	(80°-90°)	1.7	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
2.5°	104.6	104.6	100.5	94.9	89.3	83.7	82.3	79.5	78.1	76.7	75.3
5°	108.8	108.8	107.4	103.3	97.7	93.5	93.5	89.3	86.5	83.7	80.9
7.5°	111.6	113.0	115.8	114.4	111.6	107.4	107.4	104.6	100.5	93.5	89.3
10°	115.8	120.0	125.6	128.4	129.8	129.8	128.4	127.0	120.0	110.2	99.1
12.5°	120.0	128.4	142.3	156.3	164.6	175.8	174.4	171.6	153.5	132.6	113.0
15°	128.4	140.9	170.2	210.7	273.5	312.5	327.9	313.9	253.9	178.6	131.2
17.5°	138.1	159.1	247.0	440.9	722.8	856.7	937.6	872.1	577.7	339.1	164.6
20°	147.9	193.9	459.1	1142.8	1875.3	2313.4	2434.8	2245.0	1441.3	646.0	244.2
22.5°	164.6	272.1	930.7	2362.2	4040.8	4698.0	4822.2	4215.2	2722.2	1275.3	367.0
25°	199.5	394.9	1604.6	3849.6	6030.5	7139.8	7088.1	6292.8	4416.1	2037.1	558.1
27.5°	249.8	574.9	2426.4	5469.6	7936.5	8914.6	9031.8	8048.1	5886.8	2995.7	792.5
30°	322.3	796.7	3308.3	6767.2	9464.3	10522.0	10541.5	9524.3	7202.5	3837.1	1080.0
32.5°	392.1	1006.0	4079.9	8021.6	10969.9	12129.4	12215.9	10964.3	8184.8	4713.3	1329.7
35°	445.1	1142.8	4861.2	9123.9	12487.9	14085.6	14080.0	12594.0	9348.5	5496.1	1675.8
37.5°	449.3	1279.5	5568.6	10251.3	14410.7	16199.4	16376.7	14738.6	10755.0	6464.4	2099.9
40°	439.5	1433.0	6464.4	12009.4	17875.2	20619.8	20776.0	18711.0	13576.3	8122.0	2762.7
42.5°	450.7	1699.5	7918.3	15256.2	23628.0	27569.8	27871.1	25700.1	18762.6	11504.3	3944.5
45°	509.3	2200.4	10964.3	20688.1	31828.2	36633.6	36533.2	33406.3	24797.3	16652.9	6283.0
47.5°	703.2	3426.9	15479.5	25974.9	37069.0	41348.4	41434.9	37613.1	28319.0	20611.4	9432.2
50°	1081.4	5243.5	19273.3	28769.7	39322.4	43615.7	43534.8	39118.7	29657.1	22560.6	11361.9
52.5°	1406.5	6557.9	21176.5	29750.6	39611.2	44736.1	44730.6	39514.9	29865.0	22728.1	11603.3
55°	1487.4	6657.0	21191.8	29803.6	40258.6	46202.6	46386.8	40490.2	30134.3	21996.9	10695.0
57.5°	1455.3	5893.8	20307.2	30110.6	41411.1	47337.0	47346.8	41434.9	30818.0	21549.0	9190.8
58°	1427.4	5773.8	20128.6	30285.0	41609.3	47384.4	47360.7	41478.1	31374.7	21532.3	8955.0
60°	1271.1	5013.3	19432.4	30730.1	41314.9	46410.5	46188.7	40533.5	31292.4	21360.7	7767.6
62.5°	999.0	3911.0	18747.3	30215.2	38158.7	41695.8	41787.9	35885.8	28526.9	20360.2	6368.2
65°	795.3	2914.8	17318.5	26503.7	31422.2	34240.7	34583.9	29181.3	23810.8	17240.3	4695.2
67.5°	633.5	2106.9	14527.9	21101.1	24864.3	28577.2	28826.9	24500.1	18447.3	13209.3	3336.2
70°	514.9	1424.6	10028.0	15432.0	20508.1	24682.9	24698.2	20353.3	13768.8	8655.1	2093.0
72.5°	456.3	986.5	5821.2	11254.5	16629.2	20113.3	19707.2	16516.2	10582.0	5126.3	1247.4
75°	394.9	654.4	2854.8	6880.2	10082.4	10150.8	10305.7	7661.6	5289.6	2437.6	747.9
77.5°	325.1	464.6	1124.6	1879.5	3023.6	3870.6	4014.3	3041.8	1759.5	600.0	399.1
80°	223.2	220.5	302.8	576.3	865.1	1084.1	1011.6	782.8	460.4	230.2	142.3
82.5°	96.3	104.6	136.7	164.6	133.9	129.8	124.2	79.5	61.4	47.4	29.3
85°	30.7	27.9	29.3	29.3	23.7	18.1	18.1	8.4	0.0	0.0	0.0
87.5°	15.3	12.6	12.6	11.2	7.0	2.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
2.5°	74.0	74.0	71.2	68.4	67.0	64.2	62.8	61.4	60.0	58.6	57.2
5°	78.1	76.7	72.6	68.4	64.2	60.0	57.2	54.4	51.6	50.2	48.8
7.5°	85.1	82.3	74.0	67.0	61.4	55.8	53.0	48.8	46.0	41.9	40.5
10°	93.5	87.9	76.7	68.4	60.0	53.0	48.8	44.6	40.5	34.9	33.5
12.5°	104.6	94.9	80.9	67.0	57.2	48.8	44.6	39.1	34.9	30.7	27.9
15°	114.4	101.9	82.3	67.0	54.4	44.6	39.1	33.5	29.3	23.7	20.9
17.5°	128.4	107.4	80.9	62.8	50.2	39.1	33.5	29.3	22.3	14.0	11.2
20°	152.1	111.6	78.1	58.6	43.3	32.1	25.1	19.5	9.8	2.8	0.0
22.5°	189.8	122.8	75.3	53.0	37.7	25.1	16.7	7.0	0.0	0.0	0.0
25°	262.3	142.3	75.3	50.2	33.5	18.1	5.6	0.0	0.0	0.0	0.0
27.5°	348.8	168.8	75.3	43.3	26.5	9.8	0.0	0.0	0.0	0.0	0.0
30°	436.7	198.1	75.3	37.7	20.9	1.4	0.0	0.0	0.0	0.0	0.0
32.5°	520.4	223.2	76.7	32.1	14.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	605.6	227.4	75.3	27.9	8.4	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	714.4	219.1	71.2	25.1	4.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	879.0	223.2	67.0	23.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1183.2	241.4	61.4	23.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2045.5	323.7	55.8	25.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3383.6	581.8	54.4	25.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4318.5	732.5	57.2	26.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4311.5	816.3	60.0	27.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0
55°	3832.9	831.6	64.2	30.7	18.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3203.6	759.0	74.0	37.7	33.5	0.0	0.0	0.0	0.0	0.0	0.0
58°	3092.0	725.6	76.7	39.1	36.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	2533.9	591.6	97.7	48.8	48.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1749.7	516.3	111.6	62.8	50.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	1237.6	466.0	121.4	67.0	40.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	925.1	429.8	133.9	68.4	20.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	708.8	403.2	164.6	72.6	5.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	577.7	372.5	199.5	75.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	478.6	336.3	192.6	82.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	318.1	260.9	175.8	82.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	111.6	103.3	136.7	72.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.7	14.0	19.5	25.1	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°	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
2.5°	57.2	57.2	55.8	57.2	57.2	60.0	67.0	76.7	87.9	92.1	96.3
5°	47.4	46.0	44.6	44.6	44.6	48.8	54.4	65.6	78.1	83.7	86.5
7.5°	39.1	37.7	36.3	34.9	34.9	37.7	44.6	57.2	69.8	75.3	79.5
10°	32.1	29.3	27.9	26.5	26.5	29.3	36.3	48.8	62.8	68.4	74.0
12.5°	26.5	22.3	19.5	18.1	16.7	20.9	27.9	39.1	54.4	61.4	67.0
15°	18.1	14.0	9.8	8.4	7.0	11.2	18.1	30.7	46.0	54.4	60.0
17.5°	9.8	4.2	1.4	0.0	0.0	2.8	8.4	22.3	37.7	44.6	51.6
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	27.9	34.9	41.9
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	16.7	23.7	30.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	12.6	18.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	8.4
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	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	8.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	11.2	15.3
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°	315°	316°	325°	335°	345°	355°	360°
0°	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
2.5°	99.1	97.7	94.9	92.1	92.1	92.1	96.3	100.5	104.6	104.6
5°	92.1	92.1	90.7	87.9	87.9	89.3	94.9	101.9	107.4	108.8
7.5°	85.1	87.9	85.1	83.7	85.1	86.5	92.1	100.5	108.8	111.6
10°	80.9	82.3	82.3	80.9	80.9	83.7	89.3	100.5	111.6	115.8
12.5°	75.3	78.1	76.7	76.7	76.7	79.5	86.5	99.1	114.4	120.0
15°	69.8	74.0	74.0	72.6	72.6	74.0	83.7	97.7	118.6	128.4
17.5°	64.2	68.4	69.8	67.0	67.0	69.8	79.5	97.7	121.4	138.1
20°	53.0	60.0	64.2	60.0	60.0	62.8	72.6	92.1	122.8	147.9
22.5°	41.9	48.8	54.4	53.0	53.0	54.4	67.0	87.9	124.2	164.6
25°	30.7	37.7	41.9	44.6	44.6	48.8	61.4	85.1	129.8	199.5
27.5°	18.1	26.5	32.1	34.9	36.3	41.9	57.2	82.3	139.5	249.8
30°	8.4	15.3	22.3	27.9	27.9	37.7	53.0	79.5	152.1	322.3
32.5°	0.0	7.0	11.2	19.5	20.9	30.7	48.8	76.7	170.2	392.1
35°	0.0	0.0	5.6	15.3	15.3	25.1	44.6	74.0	198.1	445.1
37.5°	0.0	0.0	0.0	11.2	12.6	22.3	43.3	72.6	203.7	449.3
40°	0.0	0.0	0.0	8.4	9.8	20.9	43.3	74.0	184.2	439.5
42.5°	0.0	0.0	0.0	5.6	7.0	20.9	43.3	76.7	166.0	450.7
45°	0.0	0.0	0.0	4.2	5.6	22.3	41.9	75.3	156.3	509.3
47.5°	0.0	0.0	0.0	5.6	8.4	22.3	40.5	74.0	157.7	703.2
50°	0.0	0.0	0.0	7.0	9.8	22.3	41.9	71.2	173.0	1081.4
52.5°	0.0	0.0	0.0	5.6	8.4	25.1	46.0	69.8	188.4	1406.5
55°	0.0	0.0	0.0	1.4	4.2	32.1	50.2	69.8	212.1	1487.4
57.5°	0.0	0.0	0.0	0.0	0.0	36.3	57.2	74.0	251.2	1455.3
58°	0.0	0.0	0.0	0.0	0.0	36.3	58.6	74.0	253.9	1427.4
60°	0.0	0.0	0.0	0.0	0.0	36.3	64.2	82.3	273.5	1271.1
62.5°	0.0	0.0	0.0	0.0	0.0	30.7	76.7	103.3	284.6	999.0
65°	0.0	0.0	0.0	0.0	0.0	25.1	90.7	113.0	293.0	795.3
67.5°	0.0	0.0	0.0	0.0	0.0	23.7	93.5	114.4	297.2	633.5
70°	0.0	0.0	0.0	0.0	0.0	25.1	92.1	122.8	311.2	514.9
72.5°	0.0	0.0	0.0	0.0	0.0	27.9	83.7	135.3	311.2	456.3
75°	0.0	0.0	0.0	0.0	0.0	29.3	78.1	152.1	283.2	394.9
77.5°	0.0	0.0	0.0	0.0	0.0	27.9	76.7	177.2	252.5	325.1
80°	2.8	4.2	4.2	2.8	2.8	23.7	75.3	180.0	214.9	223.2
82.5°	8.4	11.2	9.8	7.0	7.0	20.9	67.0	150.7	111.6	96.3
85°	15.3	18.1	18.1	15.3	15.3	19.5	41.9	54.4	37.7	30.7
87.5°	20.9	23.7	23.7	20.9	20.9	19.5	18.1	16.7	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 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-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

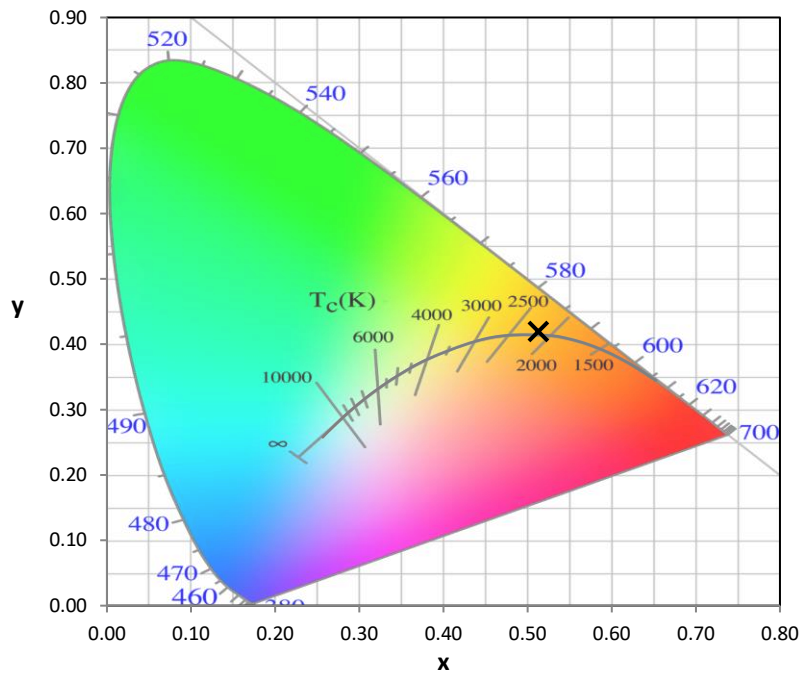
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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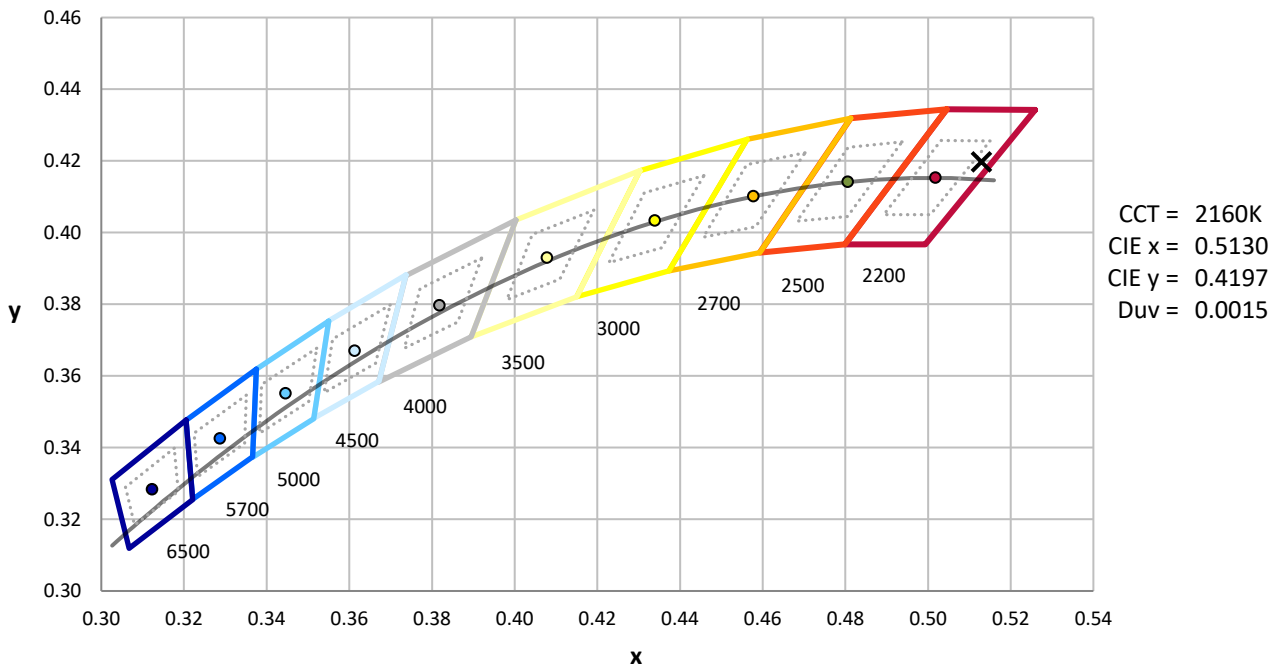
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



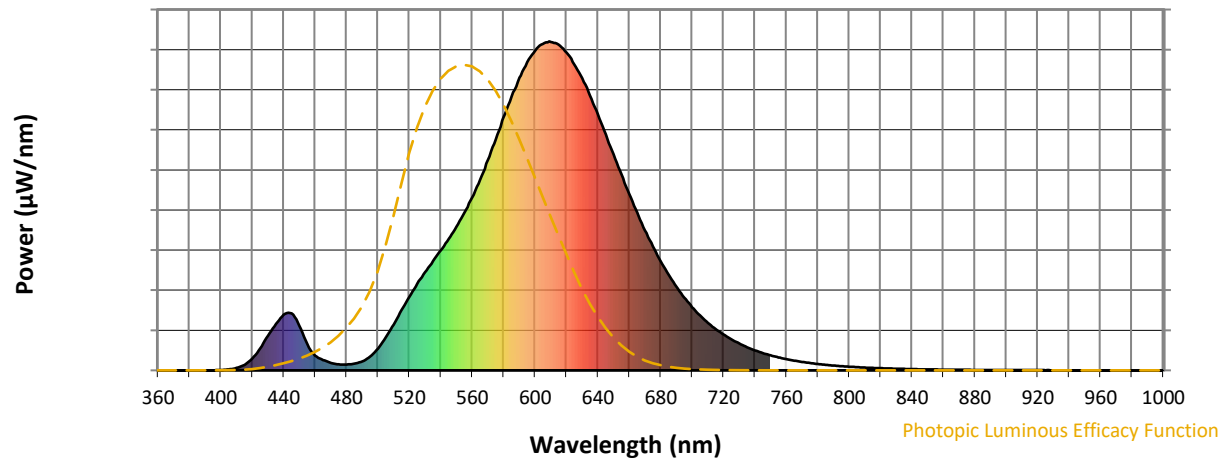
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

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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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 0.8

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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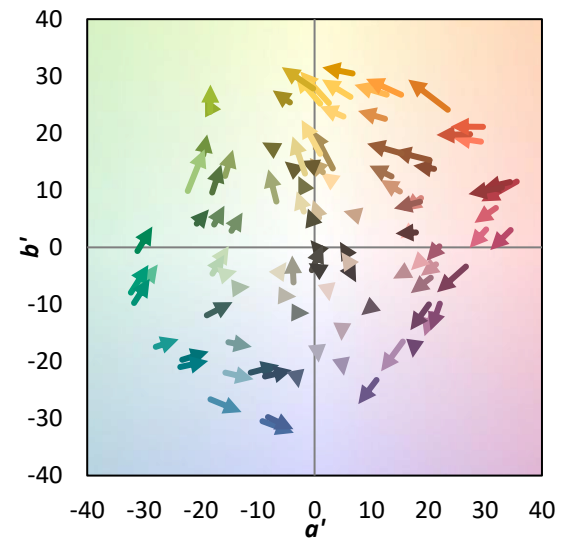
TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE\ R_a = 71.9$
 $R_g = -17.8$



Color Vector Graphics



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

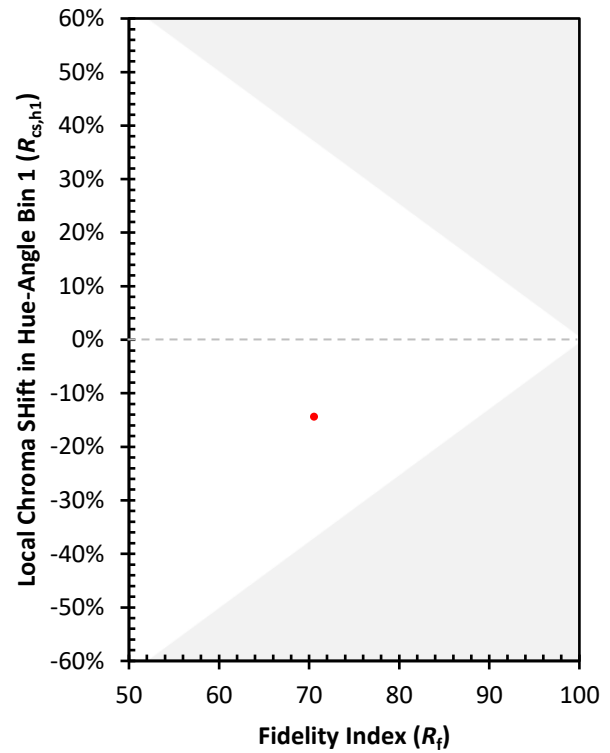
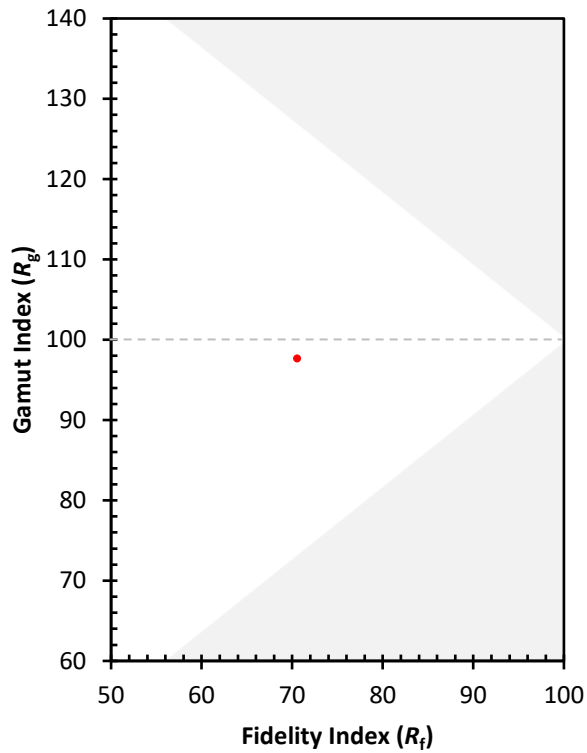
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)