

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: P1048285

Luminaire Tested: **GALN-SA4A-722-U-T4BC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1048285
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-722-U-T4BC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE
70CRI 2200K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (56) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10807.3 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 107.4
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

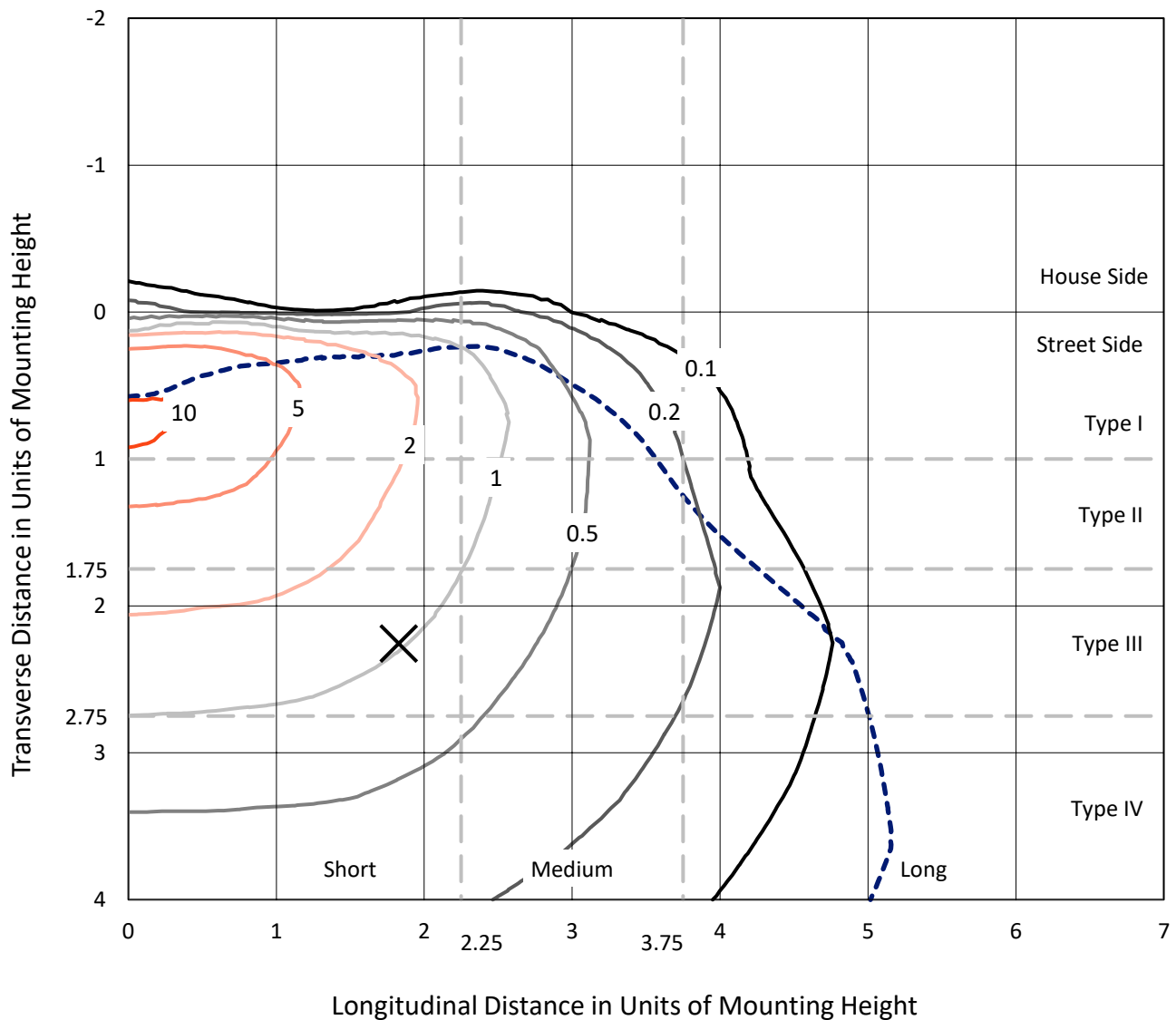


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

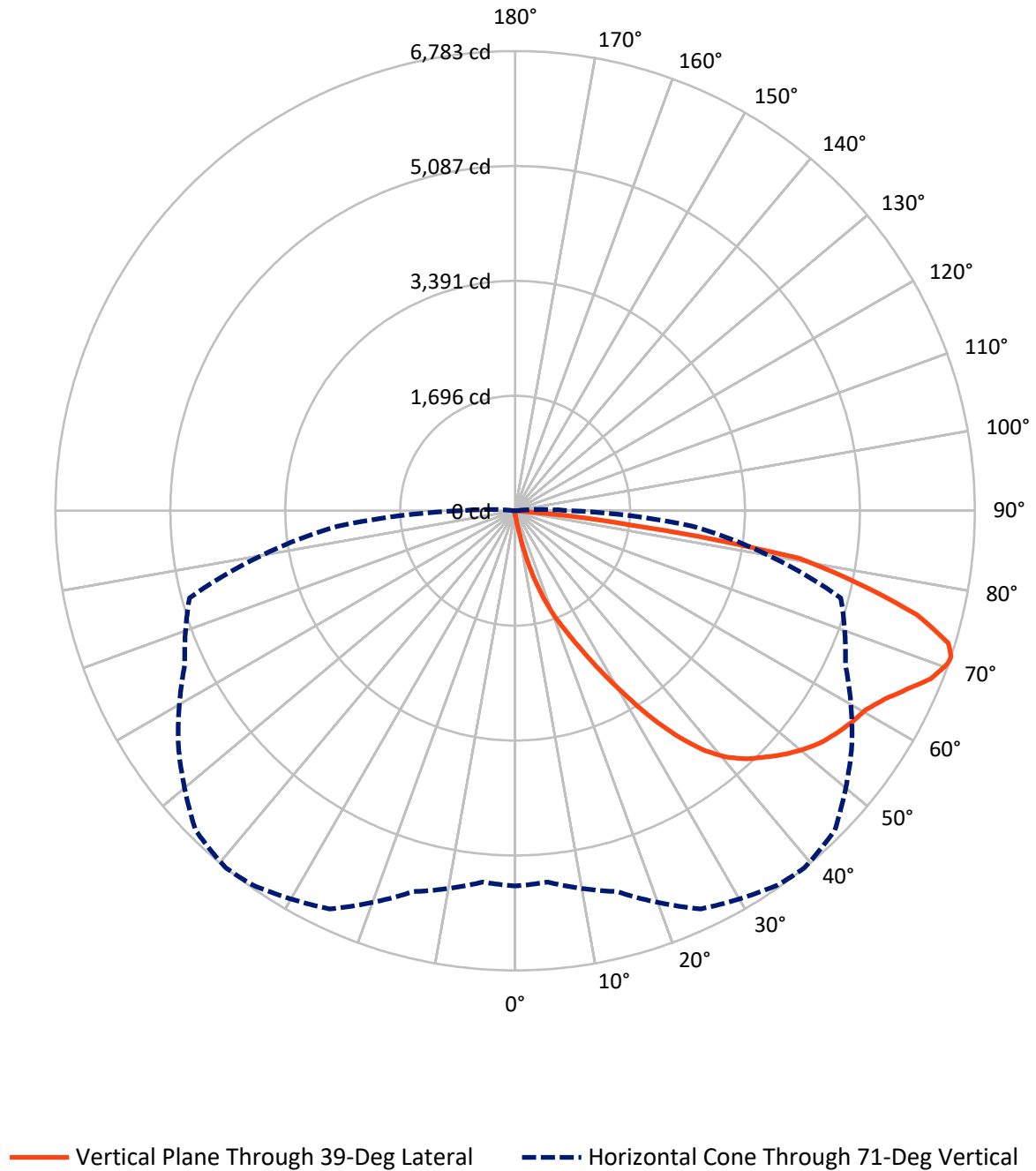


Based on 15 foot mounting height. Maximum calculated value = 11.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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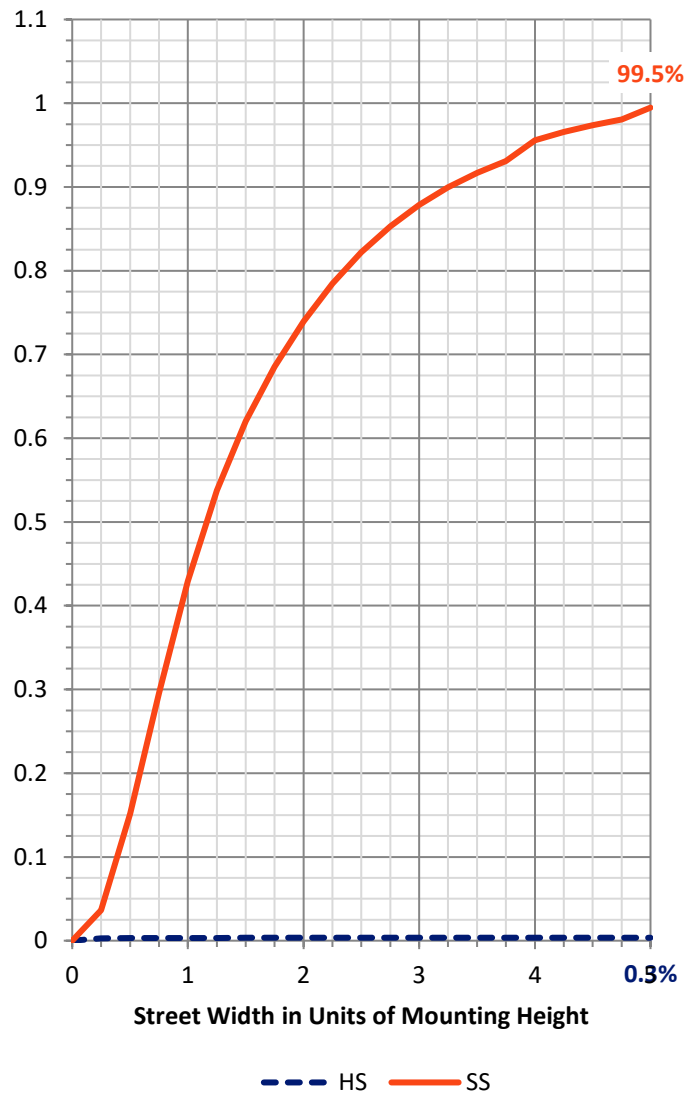
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	38.4	0.0	38.4
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	10768.9	0.0	10768.9
	% Fixture	99.6	0.0	99.6
Total	Lumens	10807.3	0.0	10807.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.1
10°-20°	115.5	1.1
20°-30°	411.4	3.8
30°-40°	991.4	9.2
40°-50°	1659.2	15.4
50°-60°	2131.0	19.7
60°-70°	2696.8	25.0
70°-80°	2404.3	22.2
80°-90°	388.6	3.6
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°	10807.3	100.0
0°-180°	10807.3	100.0



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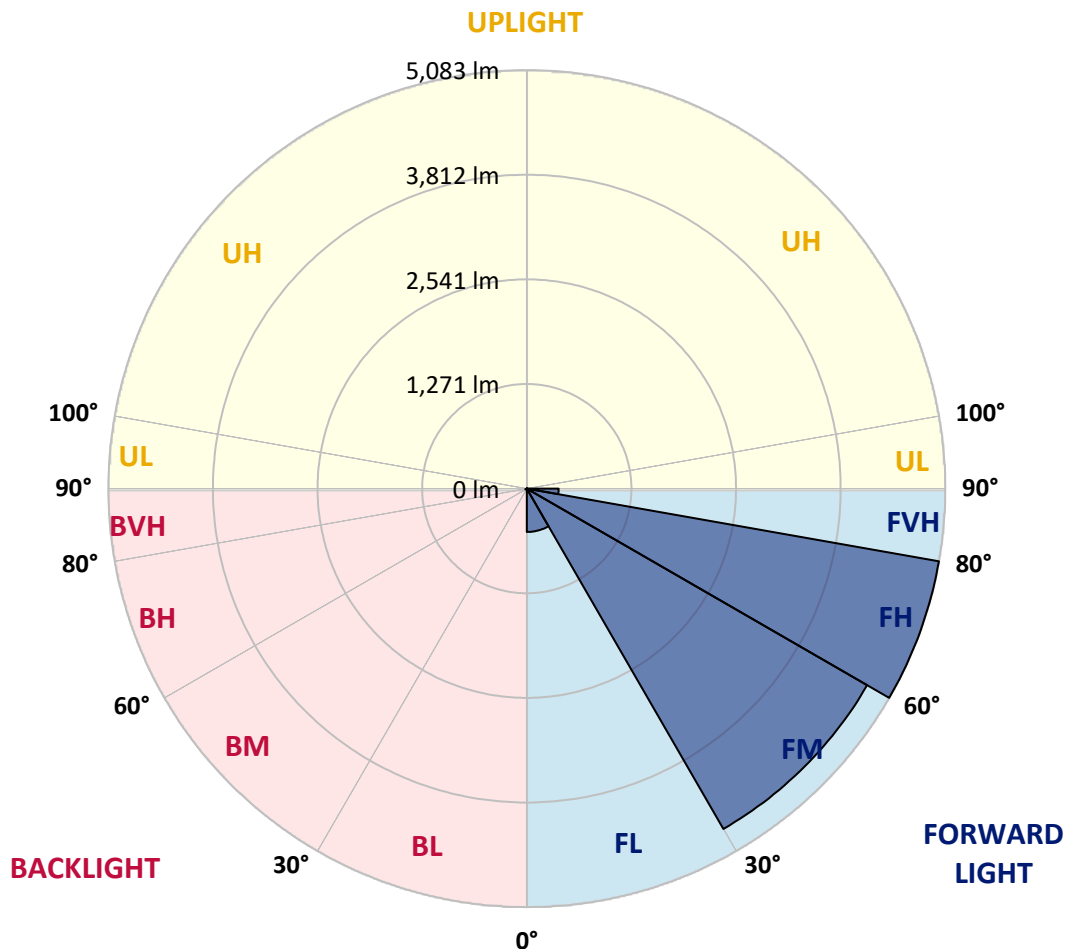
CATALOG NUMBER: GALN-SA4A-722-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	526.6	4.9			
FM	(30°-60°)	4772.7	44.2			
FH	(60°-80°)	5082.7	47.0			G3/7500
FVH	(80°-90°)	386.9	3.6			G3/500
BL	(0°-30°)	9.3	0.1	B0/110		
BM	(30°-60°)	8.9	0.1	B0/220		
BH	(60°-80°)	18.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.8	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
2.5°	68.0	68.0	68.0	65.8	65.8	65.1	64.4	64.4	62.9	62.2	60.7
5°	103.2	101.0	95.8	92.9	87.1	83.4	79.7	74.6	69.5	65.8	61.5
7.5°	233.4	238.5	221.7	190.2	158.0	144.1	120.7	97.3	80.5	69.5	62.2
10°	594.8	591.9	534.8	471.9	364.3	321.2	251.7	158.8	103.9	76.1	62.9
12.5°	1011.8	1008.9	941.6	856.0	714.0	624.1	492.4	296.3	149.2	86.3	62.9
15°	1362.2	1350.5	1329.3	1244.4	1078.4	1003.0	828.9	523.8	241.4	103.9	64.4
17.5°	1594.1	1583.9	1564.1	1533.4	1428.1	1338.8	1199.1	823.0	390.7	134.6	67.3
20°	1807.0	1799.7	1783.6	1777.8	1709.7	1662.2	1546.6	1166.9	608.7	182.9	71.7
22.5°	2099.7	2084.3	2090.9	2055.8	1989.2	1932.1	1861.2	1526.8	875.0	263.4	79.7
25°	2458.2	2450.8	2432.6	2407.7	2315.5	2265.7	2156.7	1866.3	1172.7	368.7	88.5
27.5°	2891.3	2883.2	2878.8	2821.8	2715.7	2661.5	2509.4	2186.7	1507.8	516.5	100.2
30°	3390.2	3393.9	3365.3	3292.2	3168.5	3092.5	2935.9	2522.5	1850.9	689.9	112.7
32.5°	3906.7	3899.4	3855.5	3769.2	3658.7	3587.7	3388.7	2890.5	2210.9	918.9	127.3
35°	4463.5	4449.6	4334.0	4235.2	4140.8	4051.6	3870.1	3317.8	2570.8	1175.7	147.1
37.5°	5025.3	4960.2	4728.3	4603.2	4538.1	4464.9	4295.9	3773.6	2928.6	1462.5	171.2
40°	5449.6	5399.2	5124.1	4893.6	4841.7	4779.5	4653.7	4167.2	3309.0	1770.5	200.5
42.5°	5684.5	5656.7	5409.4	5181.9	5059.7	5004.8	4897.3	4511.0	3685.0	2110.7	242.9
45°	5784.7	5741.6	5576.2	5470.1	5275.5	5184.8	5056.8	4770.7	4077.9	2496.9	302.1
47.5°	5754.0	5729.1	5610.6	5649.4	5508.2	5367.0	5179.0	4969.7	4413.7	2940.3	383.4
50°	5560.9	5539.6	5503.1	5713.0	5695.5	5528.7	5337.0	5127.0	4688.1	3397.5	509.2
52.5°	5193.6	5184.8	5278.5	5663.3	5801.5	5671.3	5489.2	5266.0	4944.1	3875.3	689.2
55°	4720.2	4756.1	5023.9	5585.7	5855.7	5776.7	5623.8	5396.2	5149.7	4302.5	954.7
57.5°	4525.6	4535.2	4869.5	5530.9	5879.8	5869.6	5754.7	5520.6	5338.4	4644.2	1360.0
60°	4753.2	4738.5	4914.9	5572.6	5928.1	5953.0	5871.0	5636.2	5502.3	4937.5	1900.0
62.5°	5164.3	5156.3	5212.6	5750.3	6069.3	6119.8	6032.7	5719.6	5647.2	5130.7	2516.0
65°	5531.6	5514.8	5619.4	6065.7	6317.3	6353.2	6277.1	5862.3	5710.8	5271.1	3094.6
67.5°	5690.3	5686.7	5855.0	6365.6	6577.8	6616.5	6550.0	6059.1	5696.2	5315.8	3350.0
70°	5617.9	5604.0	5873.2	6492.9	6724.8	6768.7	6704.3	6132.2	5537.4	5174.6	2971.7
71°	5538.2	5500.9	5818.4	6484.1	6745.3	6782.6	6669.9	6065.7	5378.0	4974.1	2628.6
72.5°	5290.9	5297.5	5667.7	6392.7	6696.3	6685.3	6475.3	5827.2	5185.5	4519.1	2111.4
75°	4682.2	4721.0	5179.7	6008.6	6258.8	6119.1	5797.9	5371.4	4799.3	3240.2	1466.1
77.5°	3826.2	3884.0	4388.1	5269.7	5198.7	5184.8	5171.6	4732.7	4098.4	1740.5	1019.8
80°	1826.8	1951.9	2646.9	3761.9	4086.7	4244.0	4145.2	3813.8	3169.3	828.9	609.4
82.5°	119.2	117.8	166.8	316.0	1332.2	1722.2	2736.2	2725.9	2209.4	403.8	248.7
85°	56.3	57.8	63.6	72.4	84.1	92.2	127.3	746.2	1057.2	192.4	54.1
87.5°	32.9	33.7	39.5	50.5	65.8	73.2	87.1	111.9	137.5	106.1	11.7
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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CATALOG NUMBER: GALN-SA4A-722-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
2.5°	60.0	59.3	57.1	54.9	52.7	51.2	50.5	51.2	51.2	51.9	51.9
5°	60.0	57.8	54.1	49.7	46.8	43.9	42.4	41.7	42.4	42.4	42.4
7.5°	59.3	55.6	50.5	45.4	41.7	38.0	36.6	35.8	35.8	36.6	36.6
10°	57.8	54.1	47.6	41.7	37.3	32.9	30.7	28.5	28.5	28.5	29.3
12.5°	57.1	51.9	43.9	38.0	32.2	27.1	22.7	20.5	21.2	21.2	21.2
15°	55.6	49.7	41.7	34.4	27.1	20.5	16.8	14.6	15.4	16.1	15.4
17.5°	55.6	49.0	38.8	30.0	21.2	15.4	12.4	11.0	11.0	11.7	11.7
20°	55.6	47.6	36.6	25.6	16.1	11.7	8.8	8.0	8.0	9.5	10.2
22.5°	57.1	47.6	33.7	21.2	13.2	8.8	6.6	5.9	6.6	8.0	8.8
25°	59.3	46.8	30.7	19.0	11.0	6.6	5.1	3.7	4.4	5.9	6.6
27.5°	61.5	46.1	27.8	16.8	8.8	5.1	3.7	2.9	2.2	2.9	2.9
30°	63.6	46.1	24.9	13.9	7.3	3.7	2.2	1.5	0.7	0.0	0.0
32.5°	65.1	44.6	22.7	11.0	5.9	2.9	1.5	0.7	0.0	0.0	0.0
35°	66.6	43.2	19.8	8.8	4.4	2.2	0.7	0.0	0.0	0.0	0.0
37.5°	68.0	41.0	16.8	7.3	3.7	1.5	0.0	0.0	0.0	0.0	0.0
40°	69.5	38.0	13.9	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	71.0	35.8	11.7	5.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	74.6	34.4	9.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	81.2	32.9	8.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	90.7	31.5	8.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	103.9	30.7	7.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	127.3	30.0	6.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	167.5	29.3	6.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	256.8	27.8	6.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	458.7	27.1	5.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	799.6	27.8	5.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1146.4	29.3	5.1	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	981.1	25.6	5.1	2.9	1.5	0.7	0.0	0.0	0.0	0.0	0.0
71°	799.6	22.7	5.1	2.9	1.5	0.7	0.7	0.0	0.0	0.0	0.0
72.5°	514.3	17.6	4.4	2.9	1.5	1.5	0.7	0.0	0.0	0.0	0.0
75°	217.3	14.6	4.4	2.9	2.2	1.5	1.5	0.7	0.0	0.0	0.0
77.5°	92.9	11.0	4.4	3.7	2.9	2.2	2.2	1.5	0.7	0.0	0.0
80°	35.1	8.8	5.1	4.4	3.7	3.7	2.9	1.5	0.7	0.0	0.0
82.5°	16.1	7.3	5.1	4.4	4.4	3.7	2.9	2.2	1.5	0.0	0.0
85°	10.2	6.6	5.1	4.4	4.4	3.7	3.7	2.2	1.5	0.0	0.0
87.5°	8.0	6.6	5.1	5.1	4.4	4.4	2.9	2.2	0.7	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

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

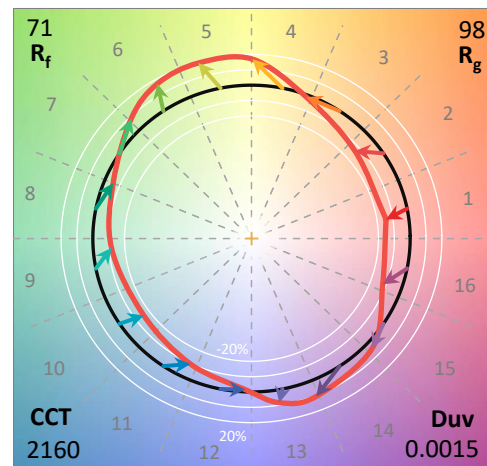
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

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

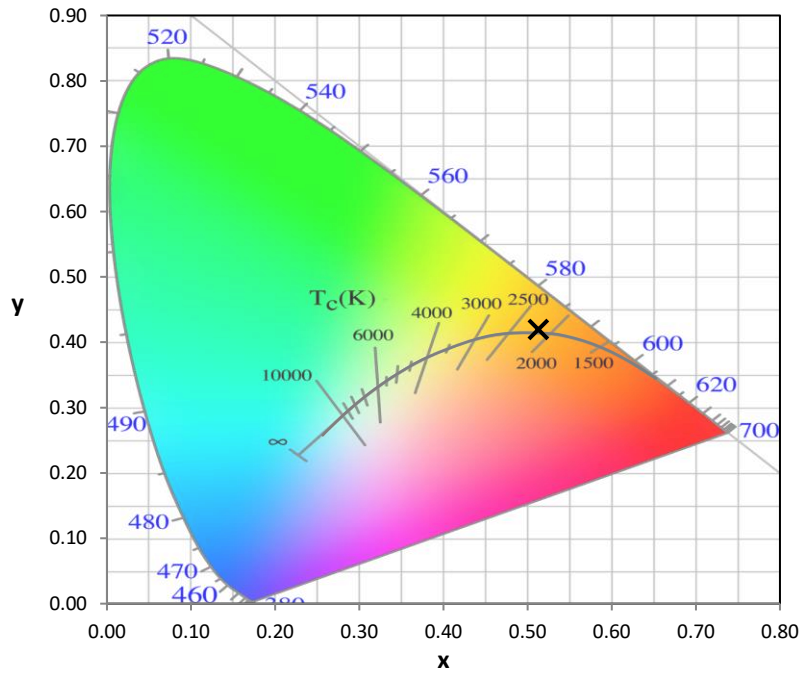
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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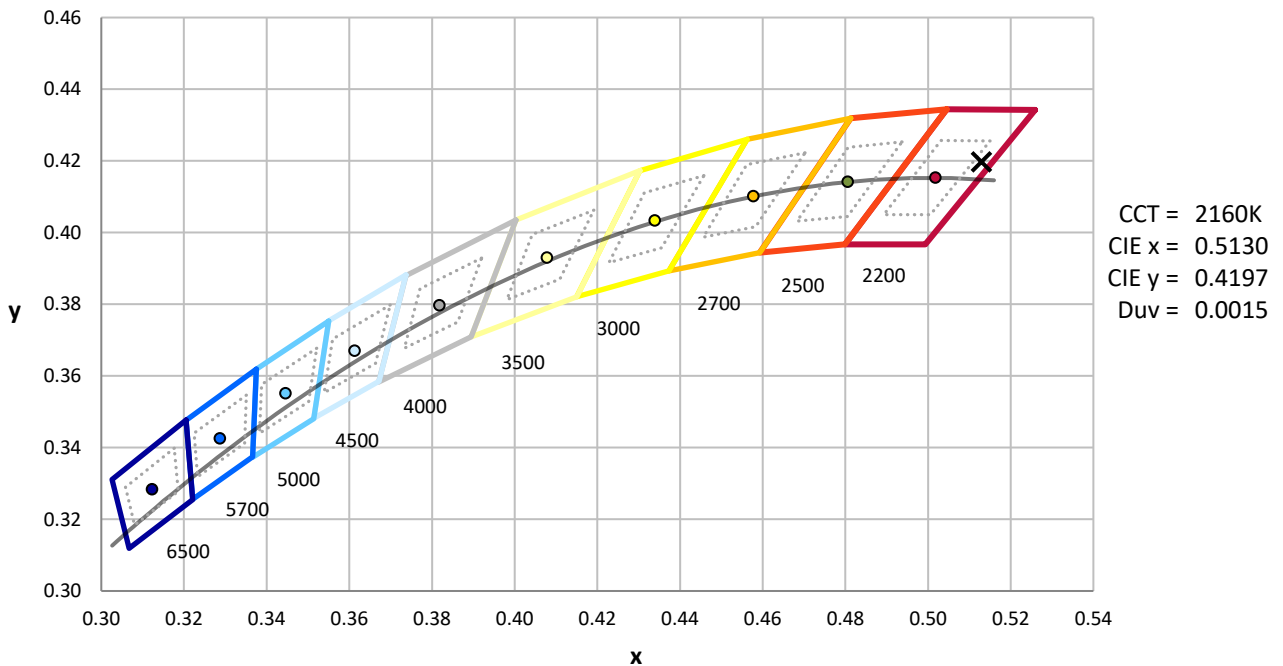
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



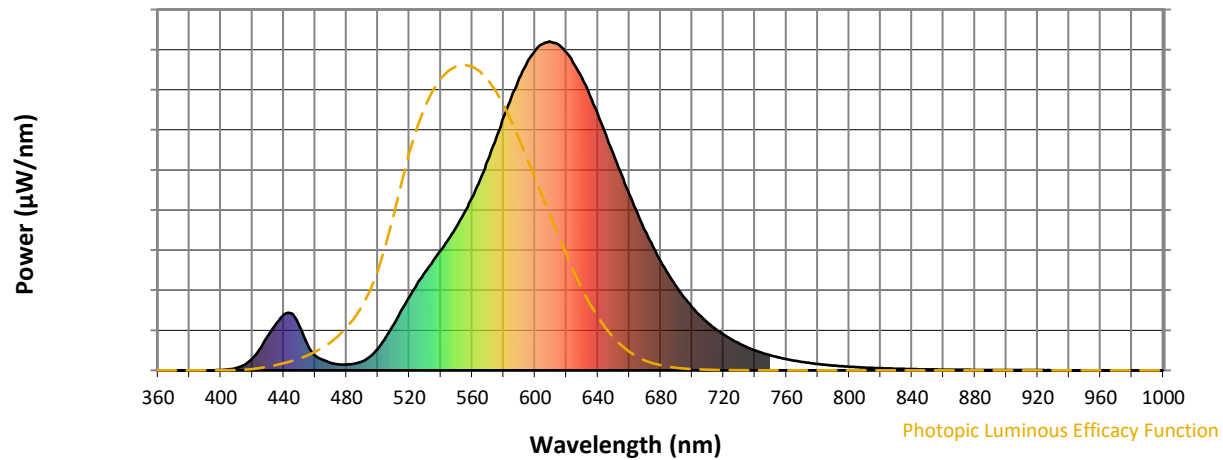
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

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Photopic Flux vs. Wavelength

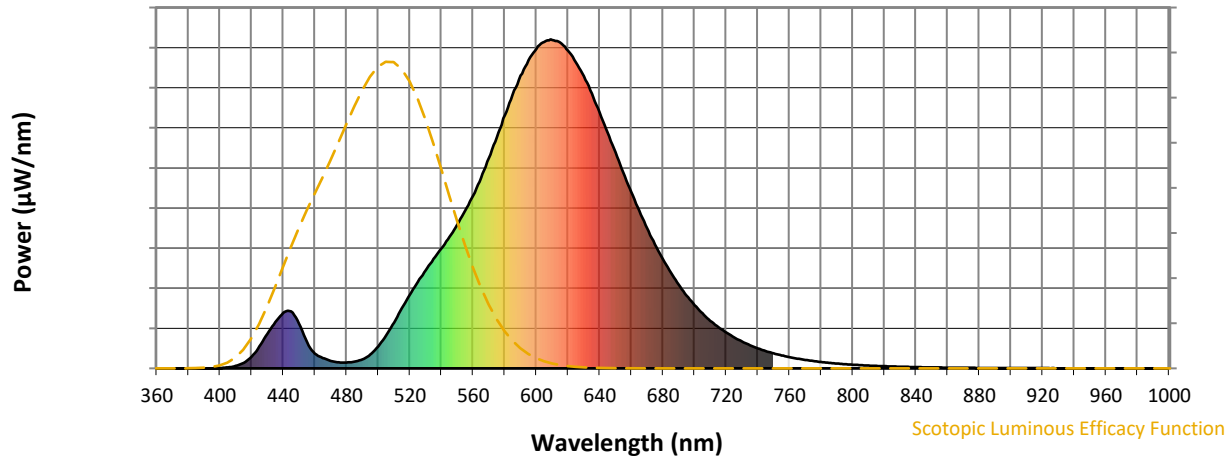


Photopic Lumens: NR

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



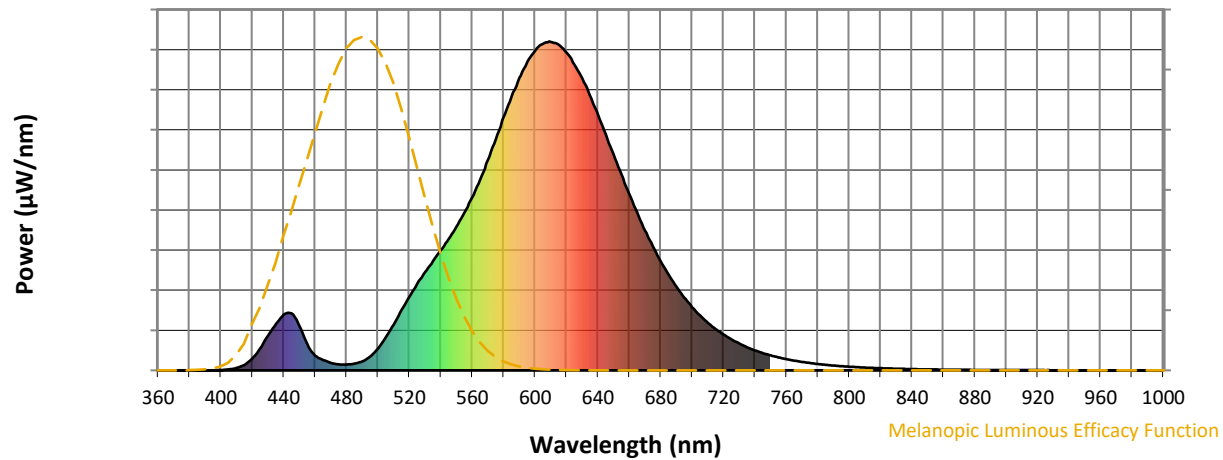
Scotopic Lumens: NR

S/P: 0.8

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

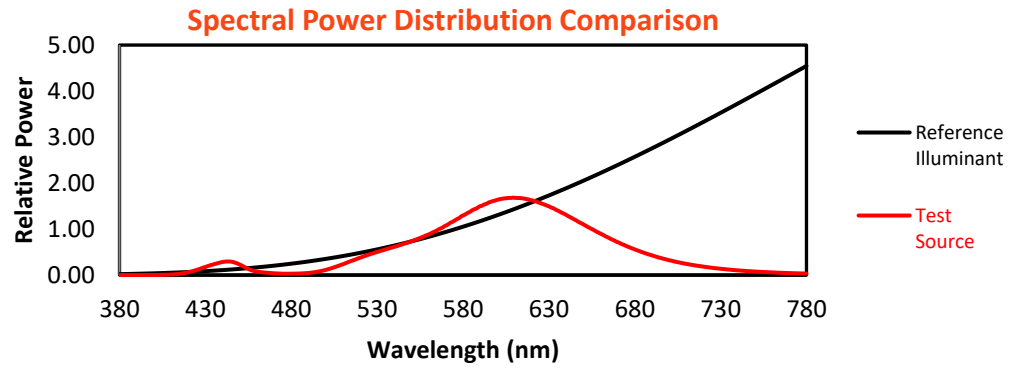
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	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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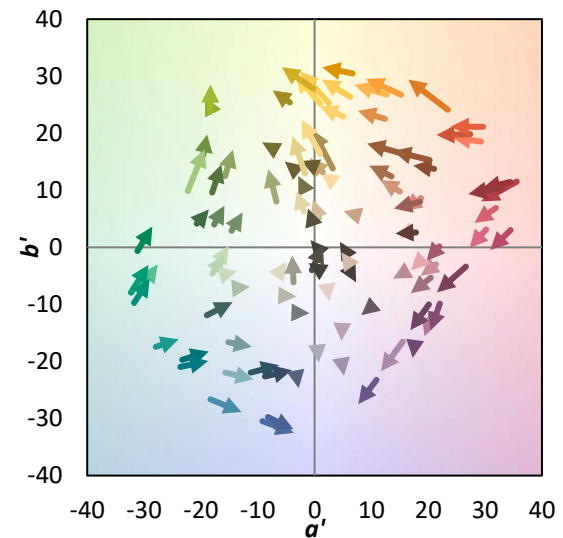
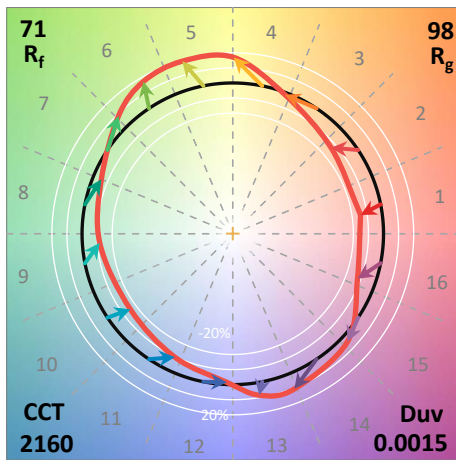
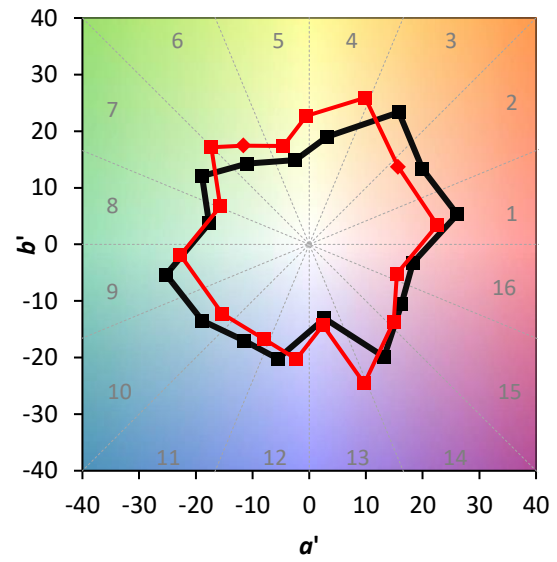
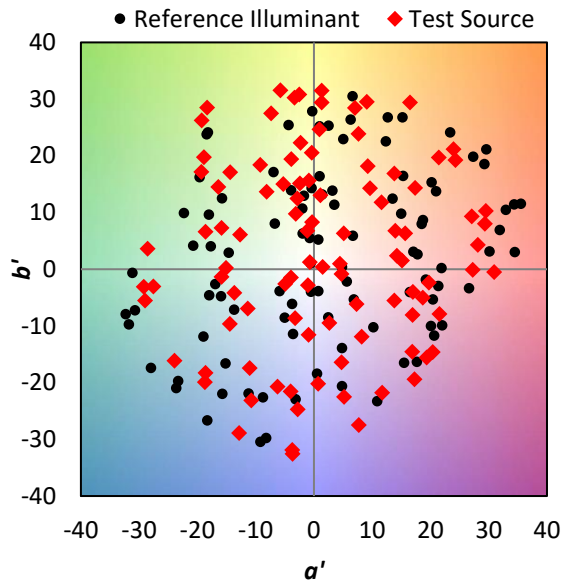
TM-30-18

Summary

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

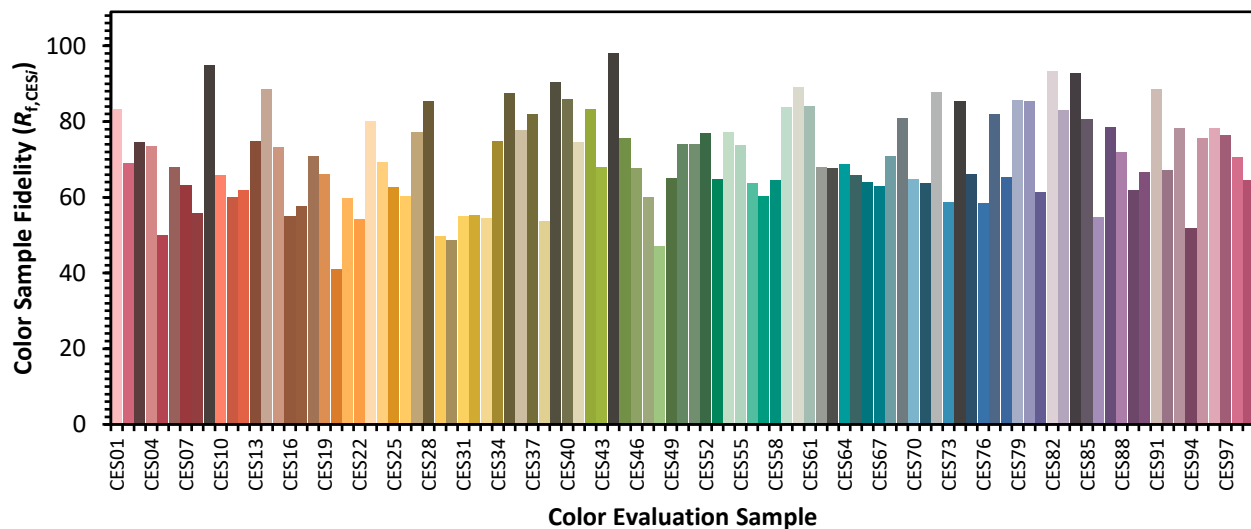


Color Vector Graphics

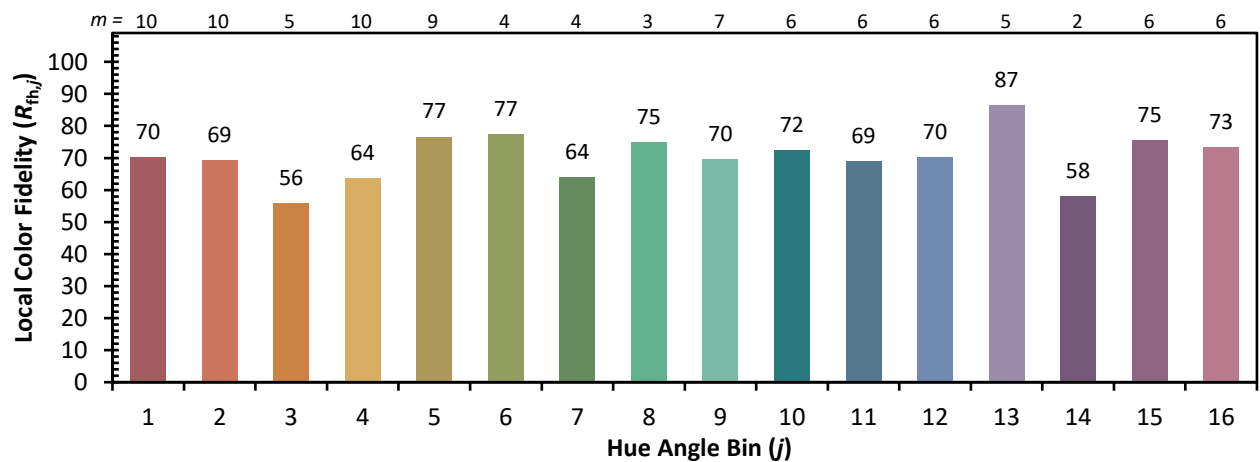
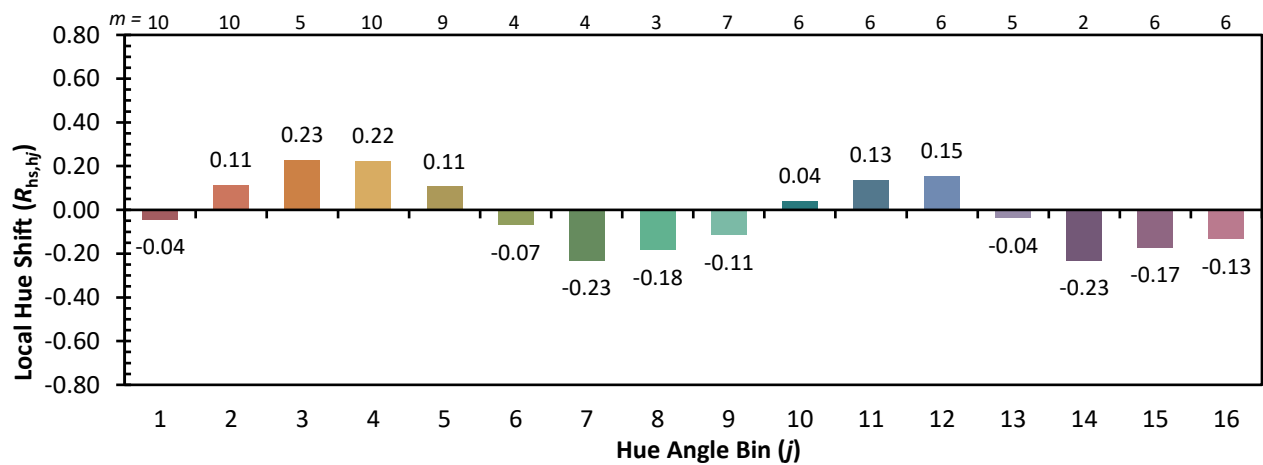
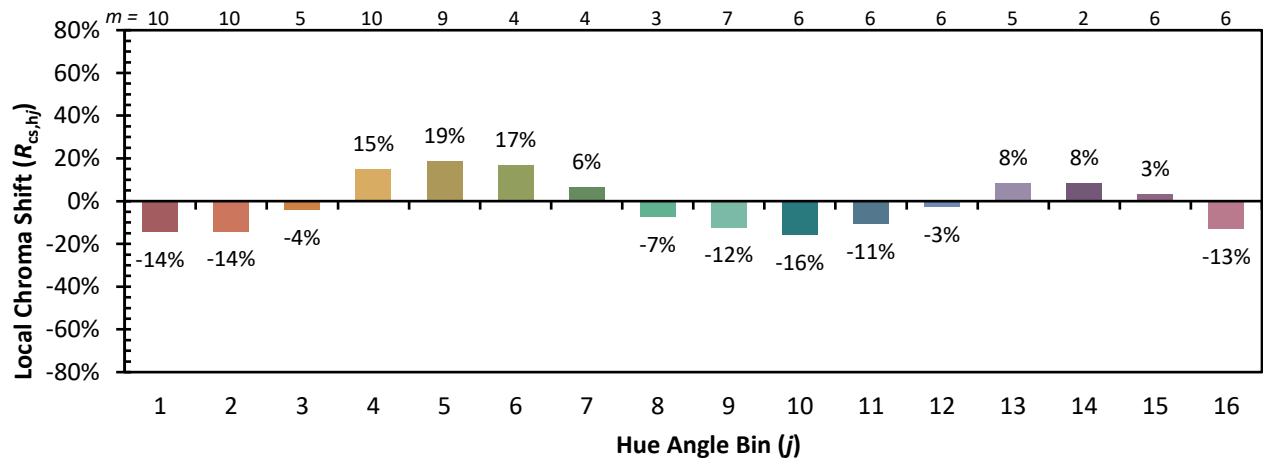


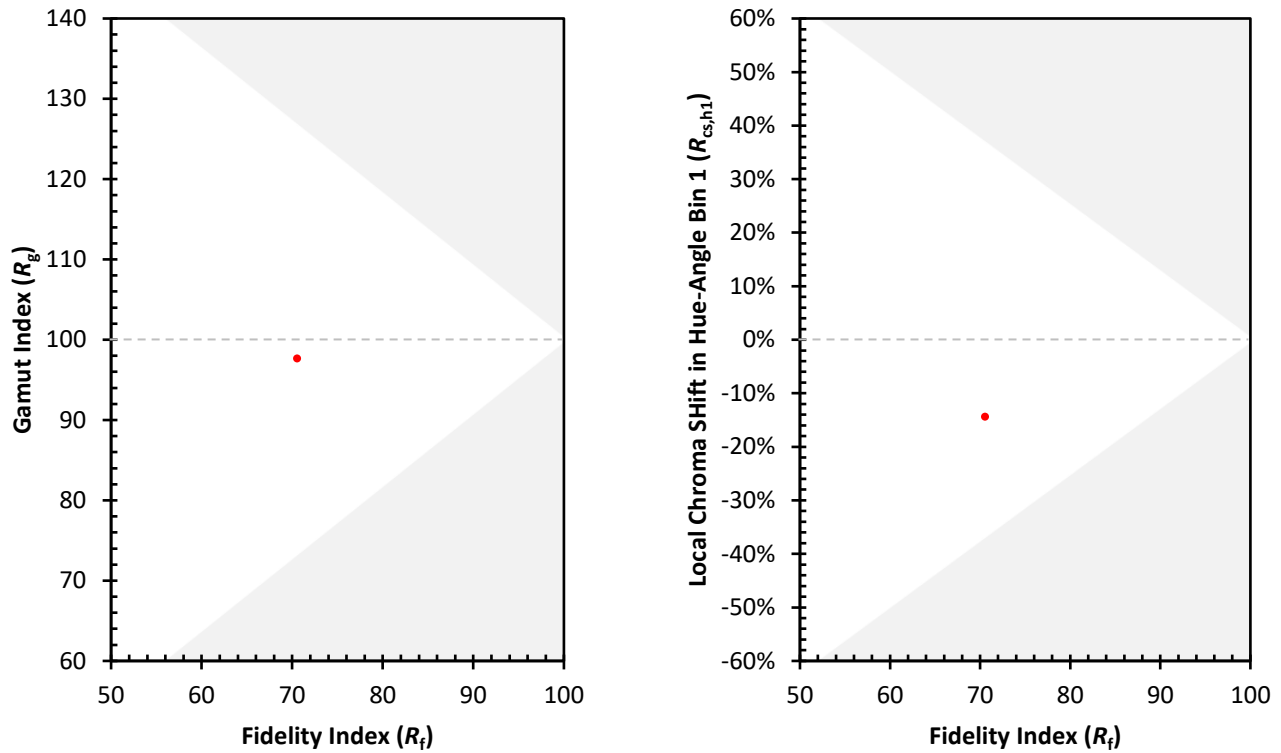
Individual Sample Fidelity Index ($R_{f,i}$)

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)