

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: LUMARK

Report Number: P1067118

Luminaire Tested: **NAV-SA5B-830-U-T3BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067118
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5B-830-U-T3BC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 5xLight Square PACKAGE
80CRI 3000K FIXTURE w/ TYPE III ANGLED BACKLIGHT CONTROL
Light Source: (70) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18433.7 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 178.8
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



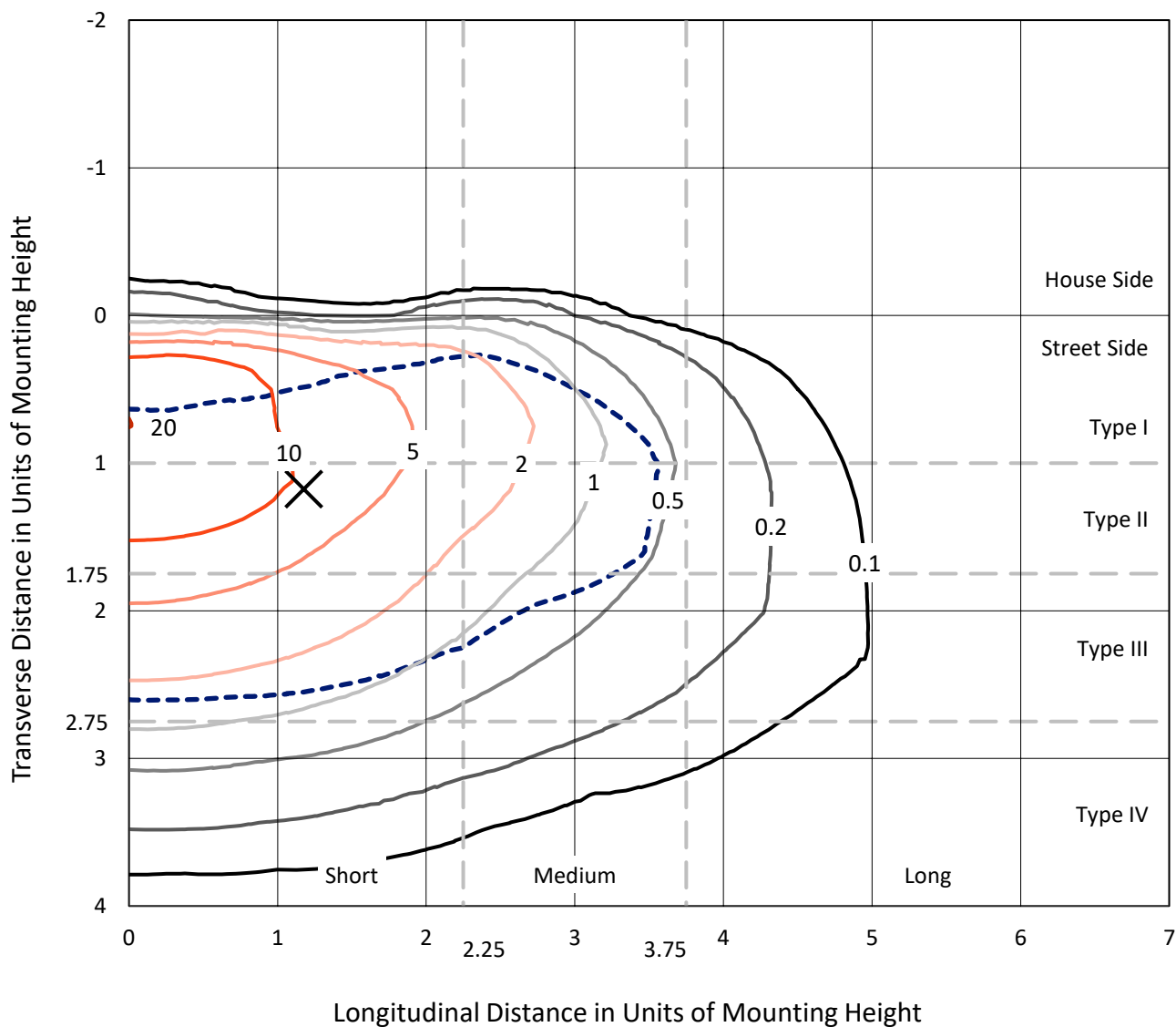
REPORT NUMBER: P1067118

CATALOG NUMBER: NAV-SA5B-830-U-T3BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

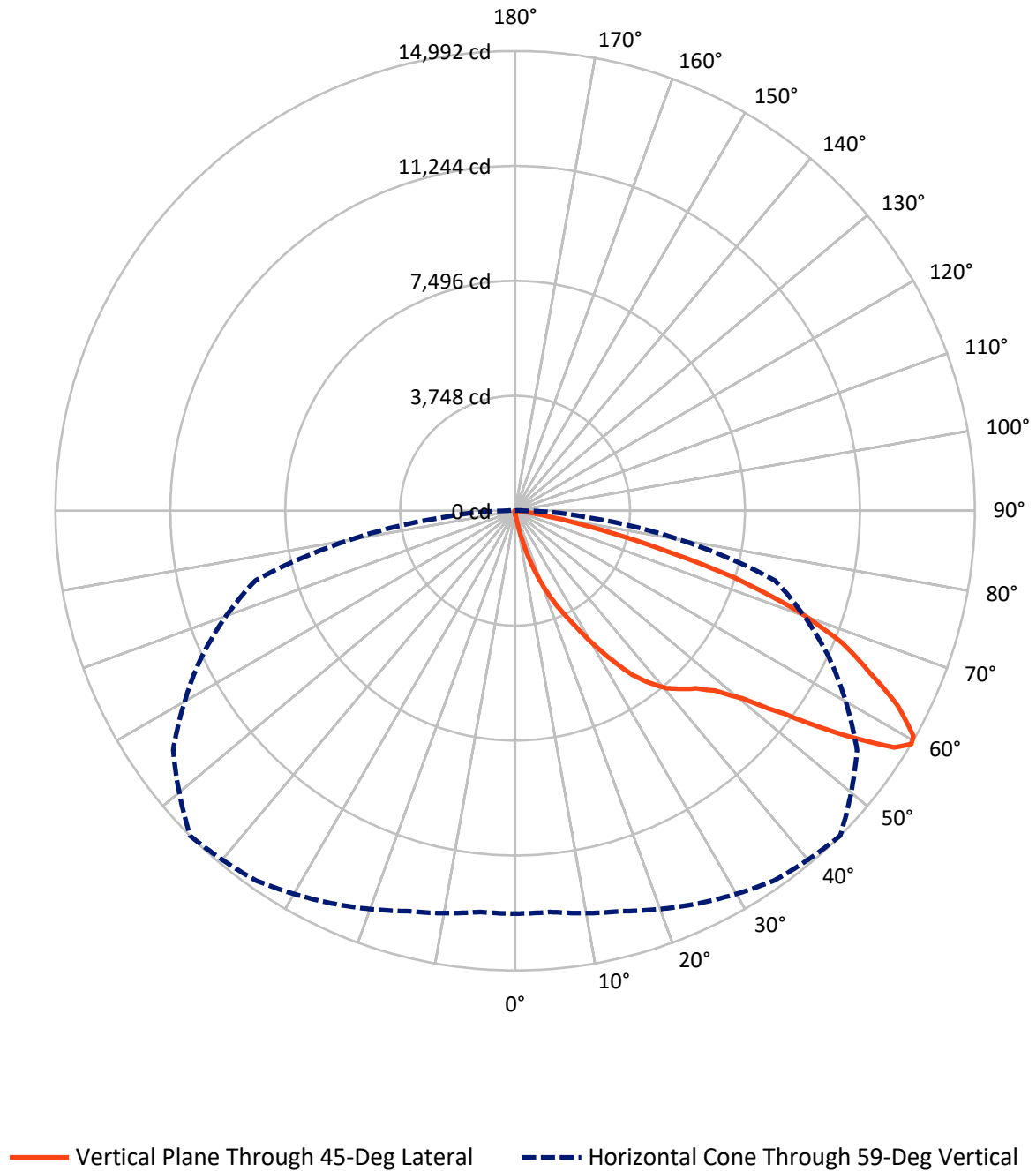


Based on 15 foot mounting height. Maximum calculated value = 20.1 fc
 Type III - Short - N/A

REPORT NUMBER: P1067118

CATALOG NUMBER: NAV-SA5B-830-U-T3BC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067118

CATALOG NUMBER: NAV-SA5B-830-U-T3BC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	65.4	0.0	65.4
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	18368.3	0.0	18368.3
	% Fixture	99.6	0.0	99.6
Total	Lumens	18433.7	0.0	18433.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.1	0.1
10°-20°	203.7	1.1
20°-30°	732.1	4.0
30°-40°	1701.2	9.2
40°-50°	2899.5	15.7
50°-60°	4777.6	25.9
60°-70°	5524.0	30.0
70°-80°	2373.3	12.9
80°-90°	205.1	1.1
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°	18433.7	100.0
0°-180°	18433.7	100.0



REPORT NUMBER: P1067118

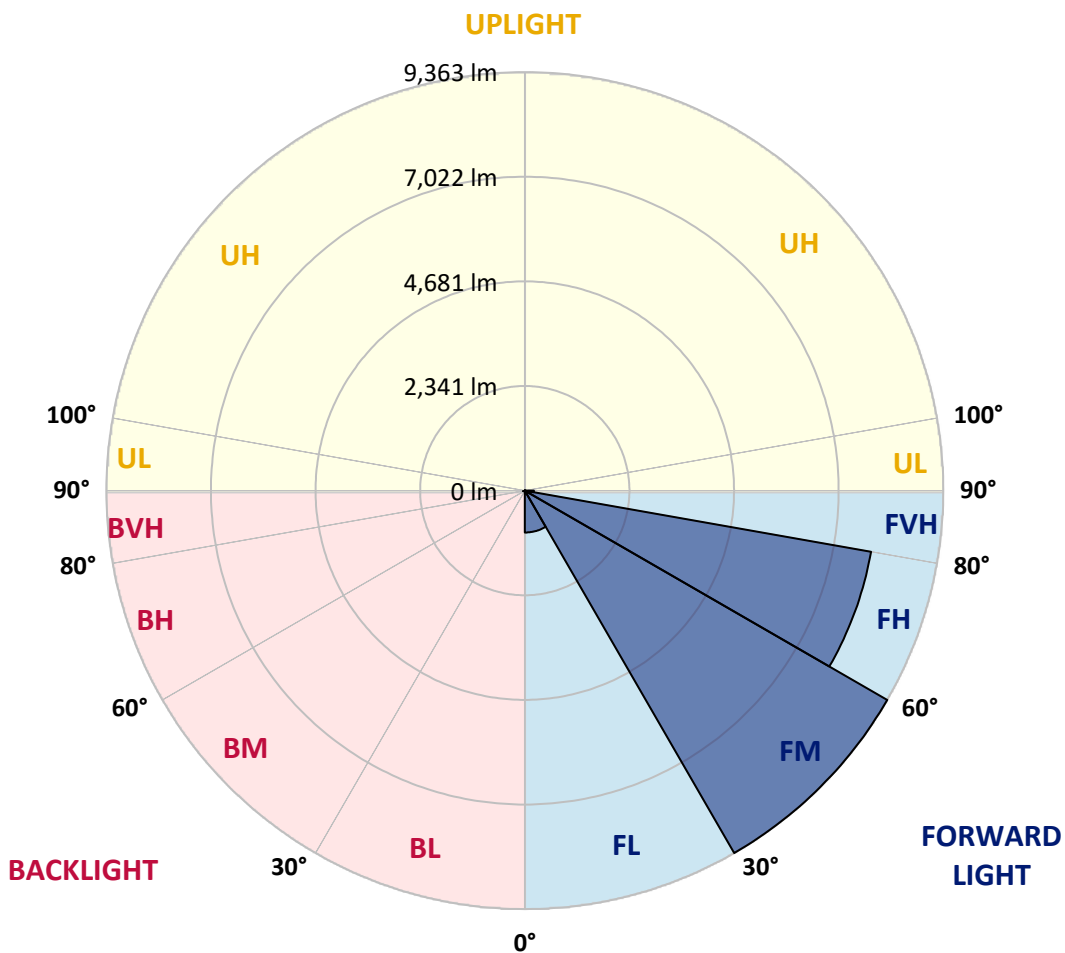
CATALOG NUMBER: NAV-SA5B-830-U-T3BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	936.8	5.1			
FM	(30°-60°)	9362.5	50.8			
FH	(60°-80°)	7866.5	42.7			G4/12000
FVH	(80°-90°)	202.4	1.1			G2/225
BL	(0°-30°)	16.2	0.1	B0/110		
BM	(30°-60°)	15.8	0.1	B0/220		
BH	(60°-80°)	30.8	0.2	B0/110		G0/110
BVH	(80°-90°)	2.7	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-G4

Type III Short



REPORT NUMBER: P1067118

CATALOG NUMBER: NAV-SA5B-830-U-T3BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	116.5	116.5	116.5	116.5	116.5	116.5	116.5	116.5	116.5	116.5	116.5
2.5°	151.2	151.2	147.5	142.5	141.3	137.6	137.6	133.9	128.9	125.2	120.2
5°	219.4	218.1	208.2	195.8	179.7	169.8	169.8	156.2	143.8	132.6	122.7
7.5°	479.7	468.5	432.6	373.1	295.0	242.9	239.2	194.6	164.9	142.5	123.9
10°	1100.7	1062.2	1011.4	868.9	642.1	448.7	440.0	283.8	197.1	153.7	126.4
12.5°	1803.5	1834.4	1732.8	1508.5	1243.2	924.7	862.7	478.4	260.3	168.6	128.9
15°	2443.0	2435.6	2378.6	2195.1	1889.0	1465.1	1426.7	831.7	373.1	192.1	131.4
17.5°	2921.5	2912.8	2858.3	2740.5	2505.0	2081.1	2047.6	1326.3	585.0	225.6	133.9
20°	3425.9	3414.8	3337.9	3243.7	3038.0	2677.3	2637.6	1879.1	916.0	280.1	133.9
22.5°	4030.8	4009.7	3927.9	3768.0	3551.1	3237.5	3201.6	2444.3	1326.3	369.4	140.1
25°	4762.1	4726.2	4613.4	4469.6	4208.1	3791.6	3753.2	3073.9	1820.8	504.5	146.3
27.5°	5596.3	5602.5	5450.0	5207.1	4856.3	4431.2	4359.3	3637.9	2332.7	697.8	153.7
30°	6586.6	6524.7	6310.2	6027.6	5686.8	5145.1	5075.7	4199.4	2907.8	982.9	166.1
32.5°	7513.8	7446.8	7158.0	6802.3	6436.7	5865.3	5808.2	4830.3	3430.9	1320.1	188.4
35°	8309.5	8262.4	7858.4	7424.5	7099.8	6589.1	6571.8	5534.3	4045.7	1683.2	213.2
37.5°	9009.8	8924.3	8405.0	7955.0	7625.3	7168.0	7130.8	6178.8	4638.2	2104.7	250.4
40°	9607.3	9560.2	8926.8	8335.6	8067.8	7658.8	7611.7	6744.1	5250.5	2594.2	296.2
42.5°	10246.8	10184.9	9570.1	8907.0	8413.6	7976.1	7945.1	7210.1	5795.8	3132.2	364.4
45°	10969.5	10854.2	10315.0	9720.1	8970.2	8304.6	8269.9	7625.3	6354.9	3709.8	447.5
47.5°	11741.7	11641.3	11205.0	10787.3	9924.6	8846.2	8771.9	7978.6	6910.1	4376.6	552.8
50°	12527.5	12530.0	12202.8	12002.0	11090.9	9726.3	9620.9	8497.9	7493.9	5090.6	709.0
52.5°	13442.2	13465.8	13460.8	13312.1	12605.6	11165.3	11024.0	9286.2	8171.9	5923.5	924.7
55°	13825.2	13867.4	14141.3	14471.0	14278.9	12989.8	12838.6	10646.0	9070.6	6851.9	1244.4
57.5°	13511.7	13558.8	13936.8	14514.4	14955.7	14587.5	14570.2	12416.0	10254.3	7977.3	1767.5
59°	13138.6	13132.4	13520.3	14132.6	14727.6	14966.8	14991.6	13613.3	11285.5	8766.9	2218.7
60°	12890.7	12895.6	13153.4	13781.9	14414.0	14829.2	14925.9	14318.6	11887.9	9334.6	2605.4
62.5°	11933.8	11990.8	12195.3	12779.1	13379.0	13842.6	14007.5	14947.0	13612.1	10675.7	3950.2
65°	10893.9	10897.6	11188.9	11688.4	12263.5	12589.5	12693.6	13969.0	14763.5	12041.6	5714.0
67.5°	9038.3	9114.0	9444.9	10254.3	11014.1	11426.8	11506.2	12159.4	14286.3	12931.6	6597.8
70°	6325.1	6424.3	6896.5	7946.4	9078.0	9756.0	9751.1	10108.0	12573.4	12534.9	5593.8
72.5°	3158.2	3329.3	3714.7	4839.0	6209.8	7274.6	7498.9	8131.0	10100.6	10411.7	4173.4
75°	1395.7	1405.6	1625.0	2191.4	3086.3	4438.6	4639.4	6454.0	7749.3	7236.1	3014.4
77.5°	811.9	819.3	859.0	984.2	1250.6	2175.3	2400.9	4232.9	5476.1	4205.6	1965.8
80°	295.0	302.4	301.2	373.1	547.9	856.5	954.4	2051.4	3652.8	2215.0	1030.0
82.5°	181.0	181.0	174.8	176.0	199.6	328.5	359.5	873.8	1778.7	1090.7	295.0
85°	89.2	94.2	100.4	112.8	133.9	162.4	172.3	250.4	598.7	264.0	70.7
87.5°	53.3	54.5	59.5	71.9	89.2	116.5	123.9	169.8	214.4	177.2	17.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1067118

CATALOG NUMBER: NAV-SA5B-830-U-T3BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	116.5	116.5	116.5	116.5	116.5	116.5	116.5	116.5	116.5	116.5	116.5
2.5°	117.8	116.5	110.3	105.4	100.4	95.4	91.7	88.0	88.0	89.2	88.0
5°	117.8	112.8	102.9	94.2	86.8	80.6	74.4	69.4	68.2	68.2	69.4
7.5°	116.5	110.3	96.7	85.5	75.6	66.9	60.7	54.5	53.3	54.5	53.3
10°	115.3	107.8	91.7	78.1	64.5	55.8	47.1	40.9	40.9	40.9	42.1
12.5°	115.3	104.1	86.8	70.7	55.8	45.9	37.2	31.0	29.7	29.7	29.7
15°	114.0	101.6	81.8	62.0	47.1	34.7	27.3	21.1	21.1	21.1	21.1
17.5°	111.6	97.9	75.6	54.5	37.2	26.0	18.6	12.4	12.4	14.9	14.9
20°	109.1	94.2	68.2	44.6	31.0	19.8	12.4	7.4	7.4	11.2	12.4
22.5°	110.3	94.2	63.2	39.7	24.8	14.9	9.9	6.2	5.0	8.7	11.2
25°	111.6	91.7	57.0	34.7	18.6	11.2	7.4	2.5	1.2	2.5	3.7
27.5°	111.6	89.2	49.6	27.3	13.6	8.7	3.7	0.0	0.0	0.0	0.0
30°	110.3	85.5	43.4	22.3	9.9	5.0	1.2	0.0	0.0	0.0	0.0
32.5°	109.1	81.8	39.7	17.4	8.7	2.5	0.0	0.0	0.0	0.0	0.0
35°	110.3	76.8	34.7	13.6	5.0	0.0	0.0	0.0	0.0	0.0	2.5
37.5°	114.0	71.9	29.7	11.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	119.0	68.2	24.8	8.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	128.9	68.2	22.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	141.3	68.2	18.6	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	157.4	69.4	16.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	177.2	71.9	14.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	192.1	69.4	13.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	218.1	66.9	12.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	252.9	63.2	12.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	287.6	58.3	12.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	327.2	55.8	11.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	540.4	49.6	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1043.6	47.1	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1686.9	47.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1773.7	47.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1180.0	38.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	632.1	34.7	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	340.9	32.2	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	150.0	23.6	6.2	3.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	59.5	16.1	7.4	6.2	5.0	2.5	0.0	0.0	0.0	0.0	0.0
85°	28.5	12.4	9.9	8.7	6.2	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	12.4	11.2	9.9	8.7	6.2	1.2	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

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

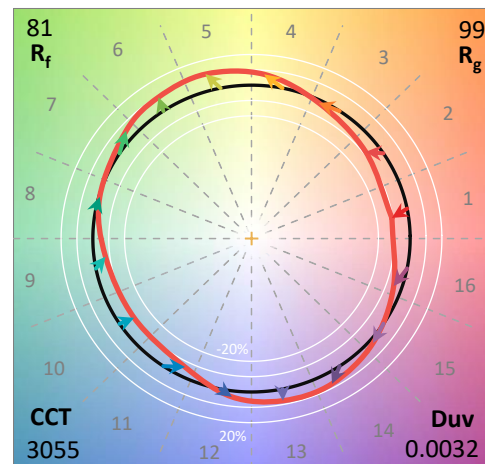
Test Information

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

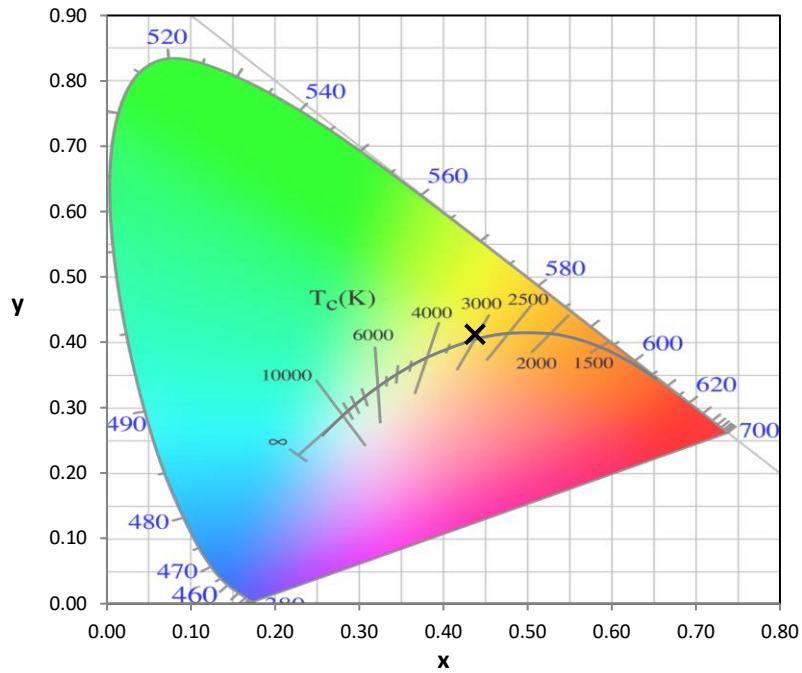
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

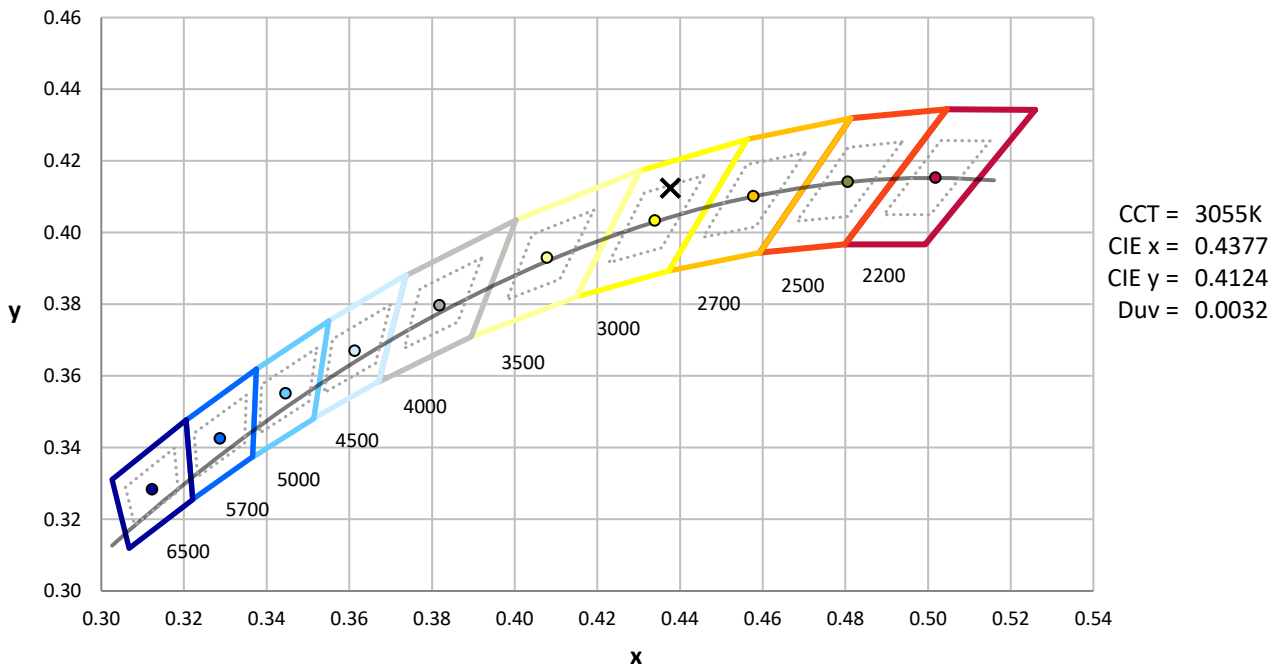
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

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

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

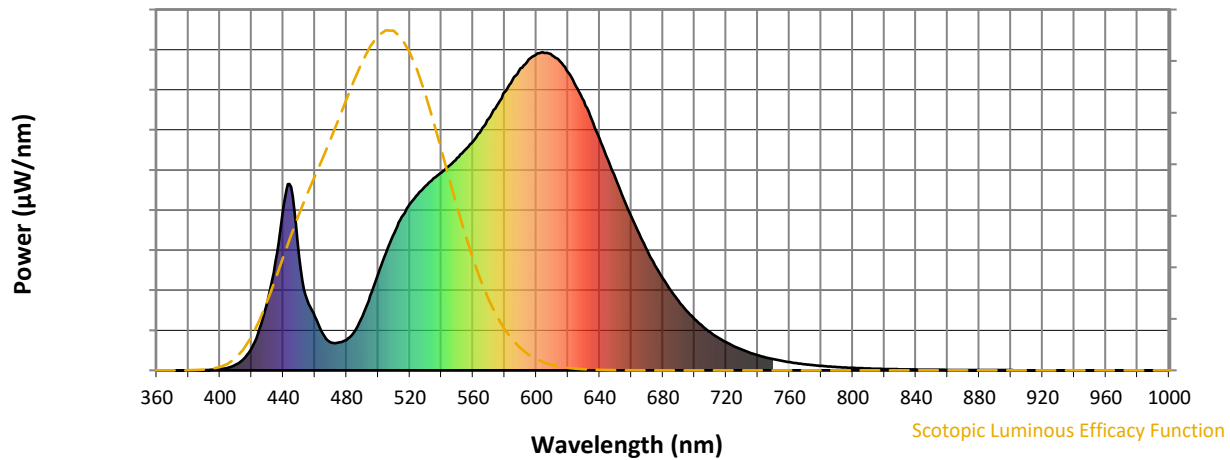


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



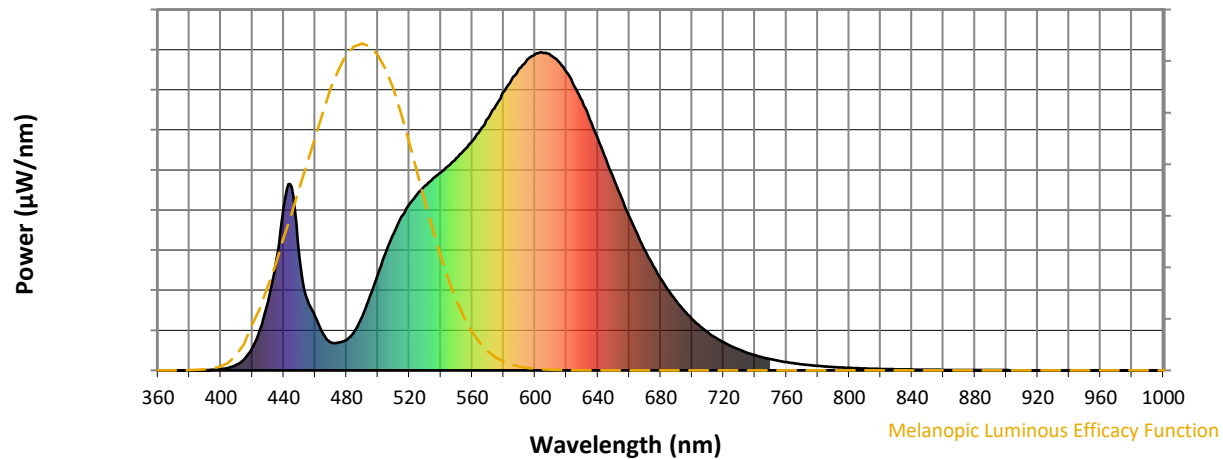
Scotopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-9

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.33

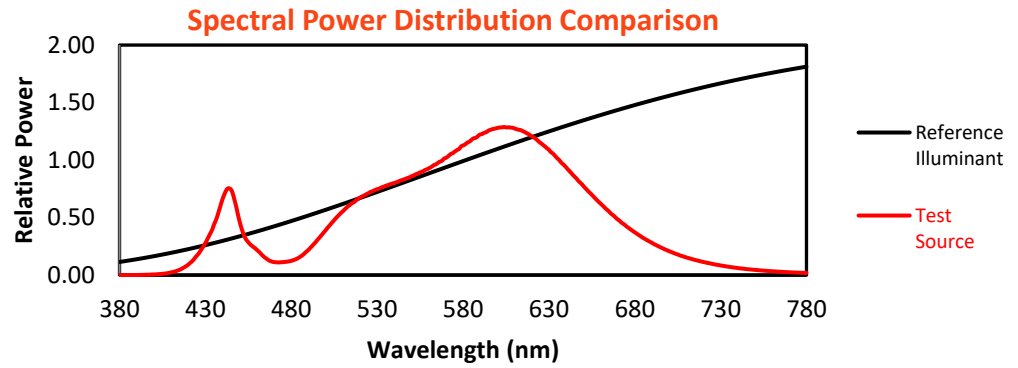
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	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

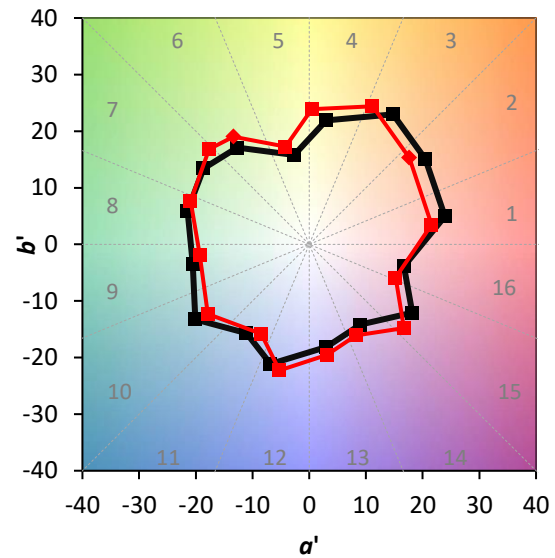
TM-30-18

Summary

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

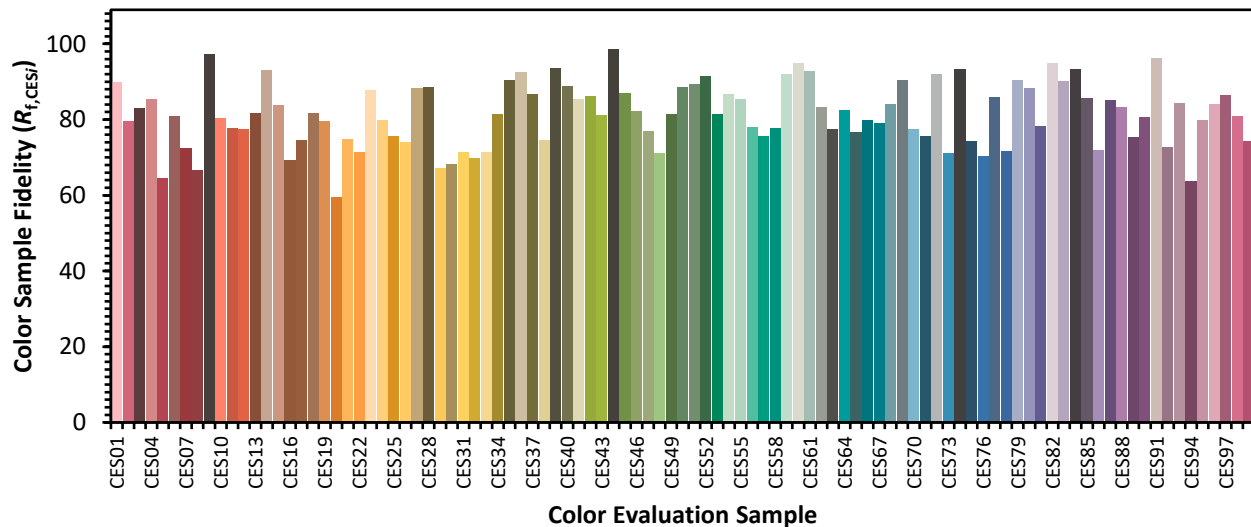


Color Vector Graphics

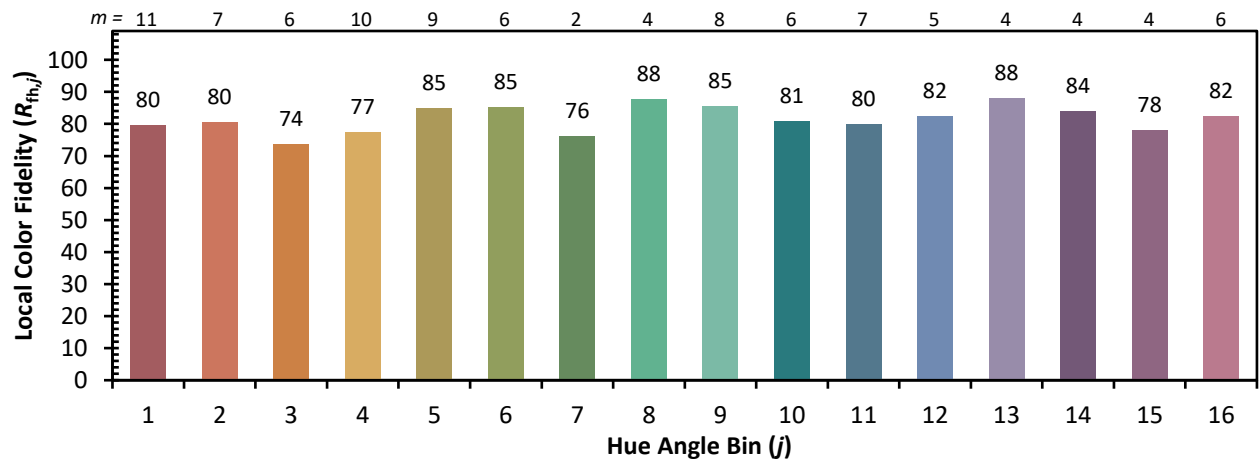


Individual Sample Fidelity Index ($R_{f,i}$)

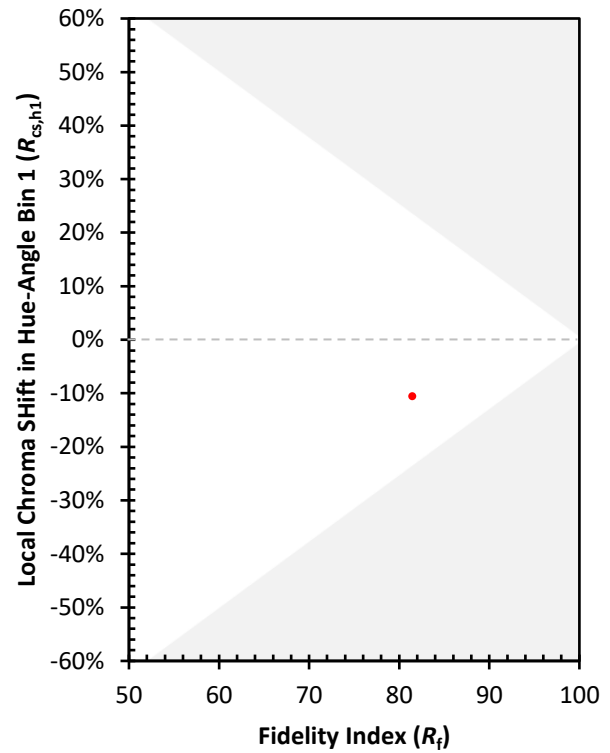
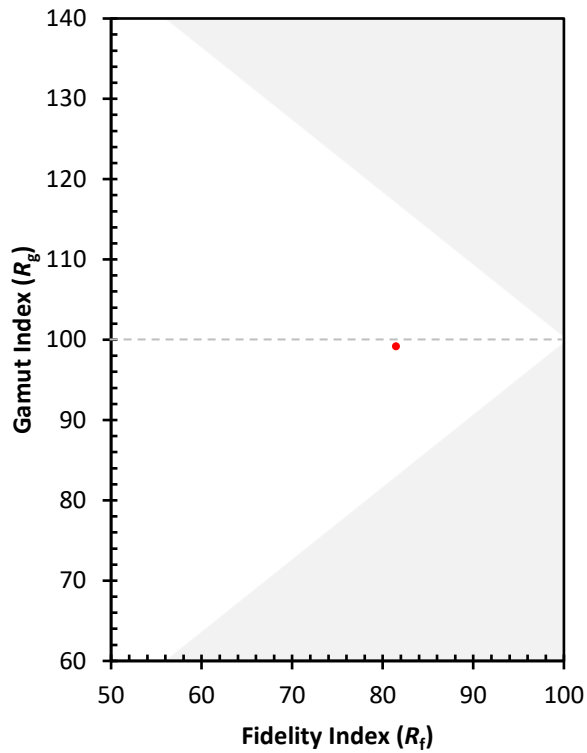
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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)