

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: P1067624

Luminaire Tested: **NAV-SA5D-835-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067624
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5D-835-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 5xLight Square PACKAGE
80CRI 3500K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (70) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26647.6 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G5

Input Watts (W): 269.7
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

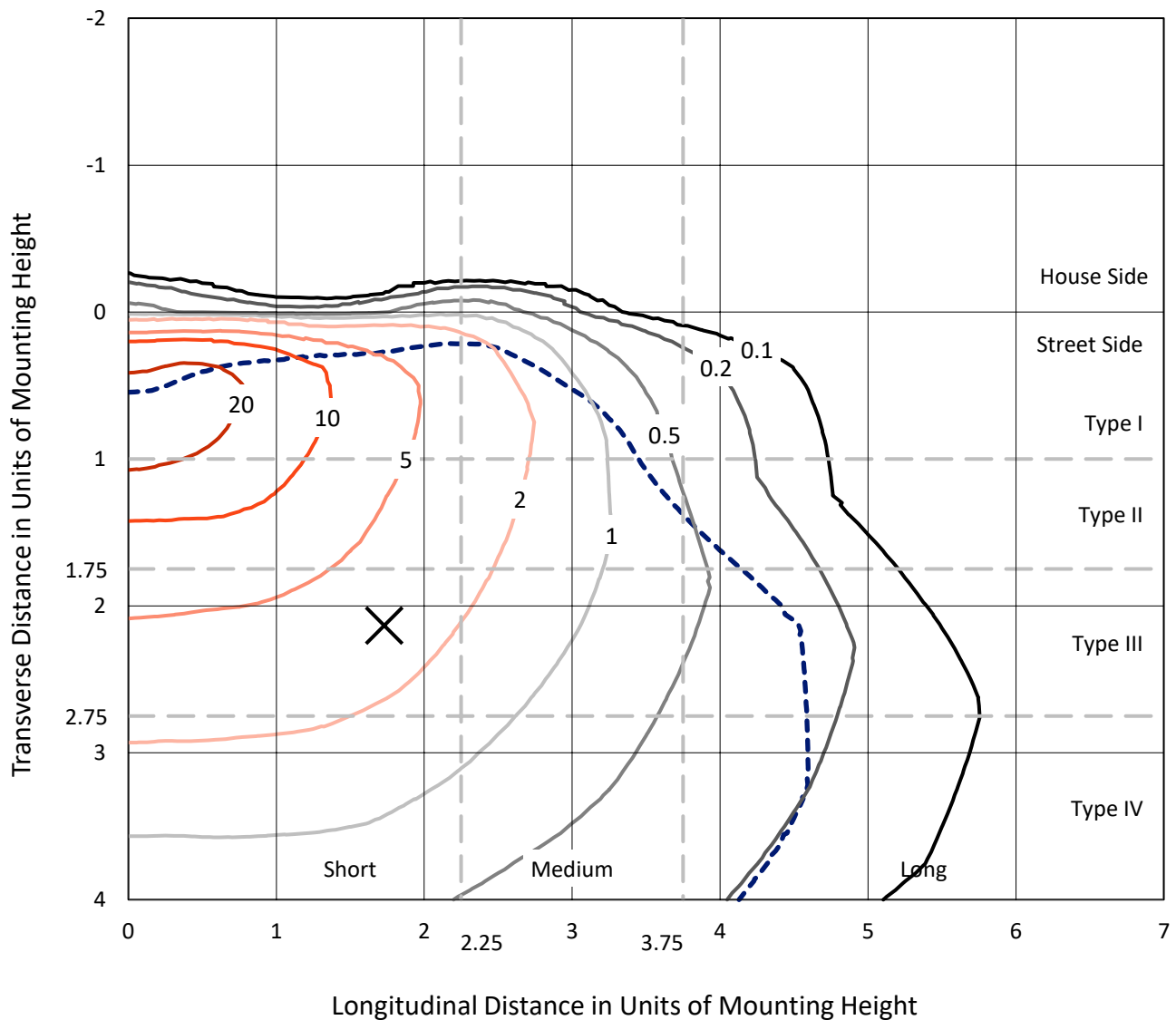


REPORT NUMBER: P1067624

CATALOG NUMBER: NAV-SA5D-835-U-T4BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

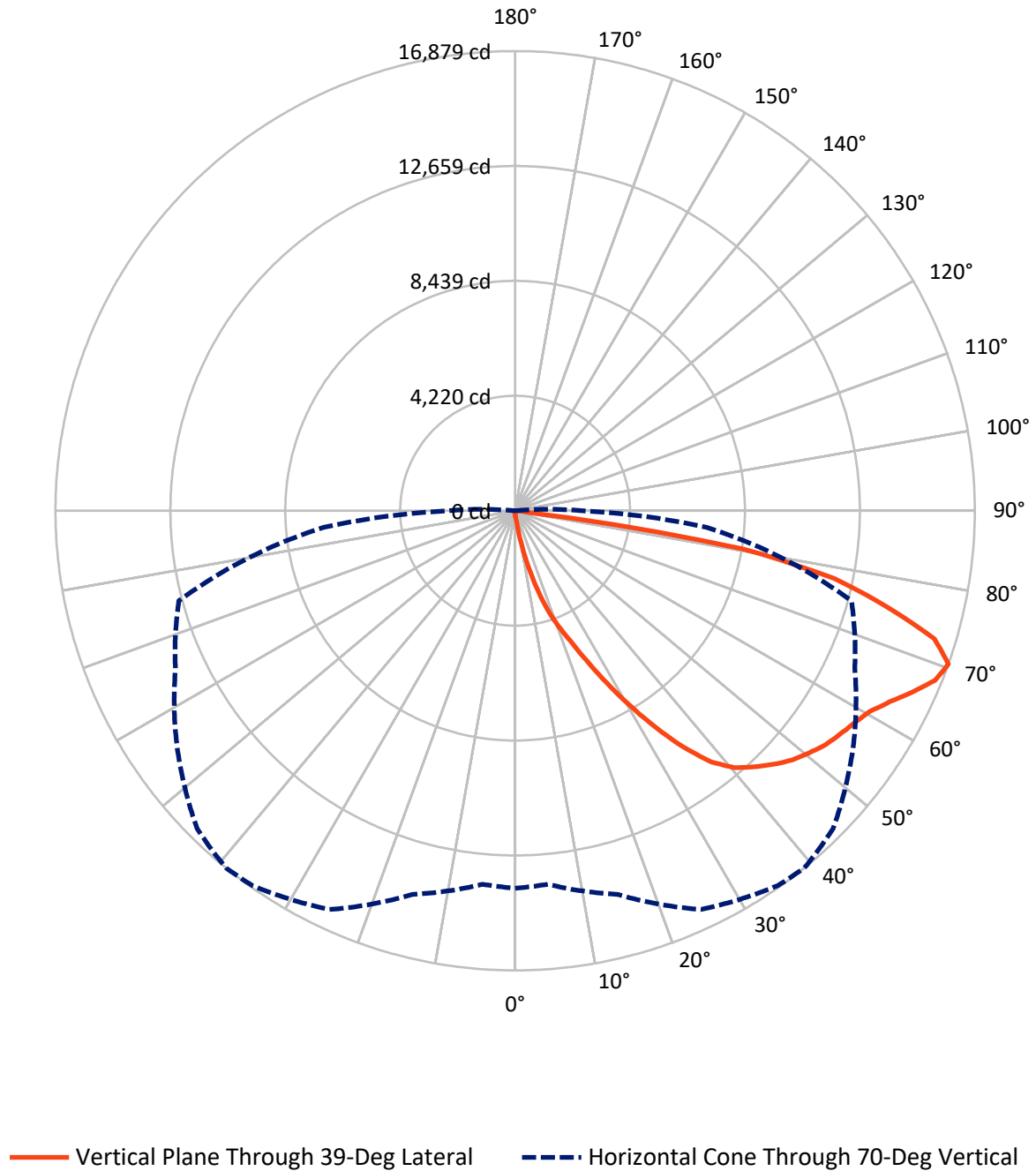


Based on 15 foot mounting height. Maximum calculated value = 29 fc
Type IV - Short - N/A

REPORT NUMBER: P1067624

CATALOG NUMBER: NAV-SA5D-835-U-T4BC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067624

CATALOG NUMBER: NAV-SA5D-835-U-T4BC

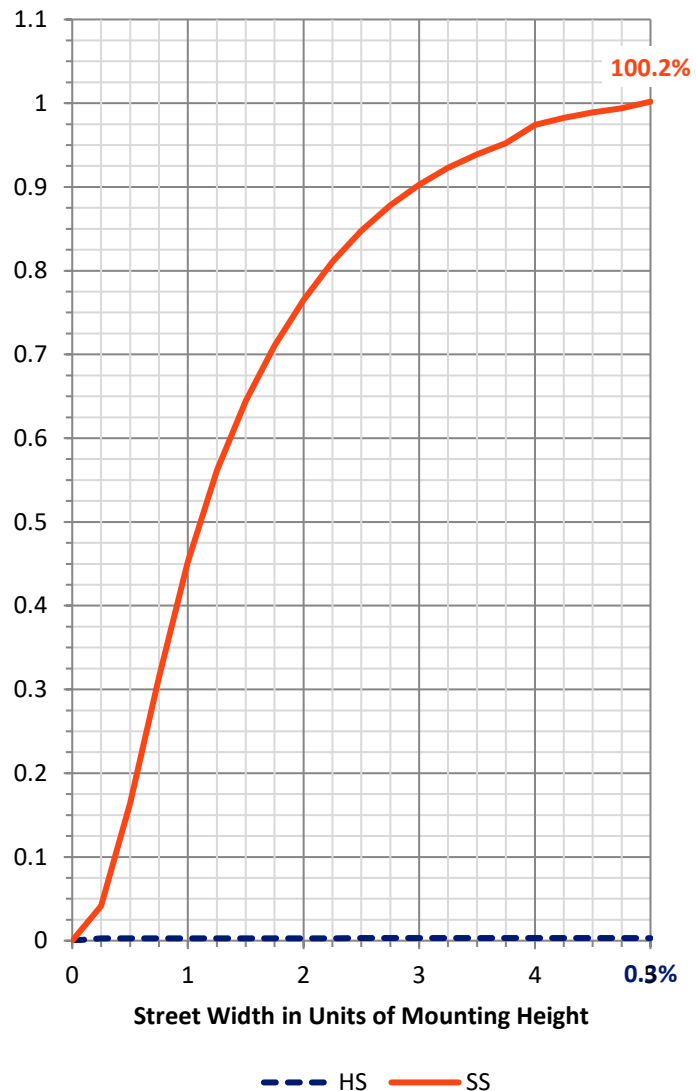
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	82.0	0.0	82.0
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	26565.6	0.0	26565.6
	% Fixture	99.7	0.0	99.7
Total	Lumens	26647.6	0.0	26647.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.0	0.1
10°-20°	327.6	1.2
20°-30°	1111.7	4.2
30°-40°	2612.7	9.8
40°-50°	4242.5	15.9
50°-60°	5376.1	20.2
60°-70°	6829.1	25.6
70°-80°	5548.6	20.8
80°-90°	571.3	2.1
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°	26647.6	100.0
0°-180°	26647.6	100.0



REPORT NUMBER: P1067624

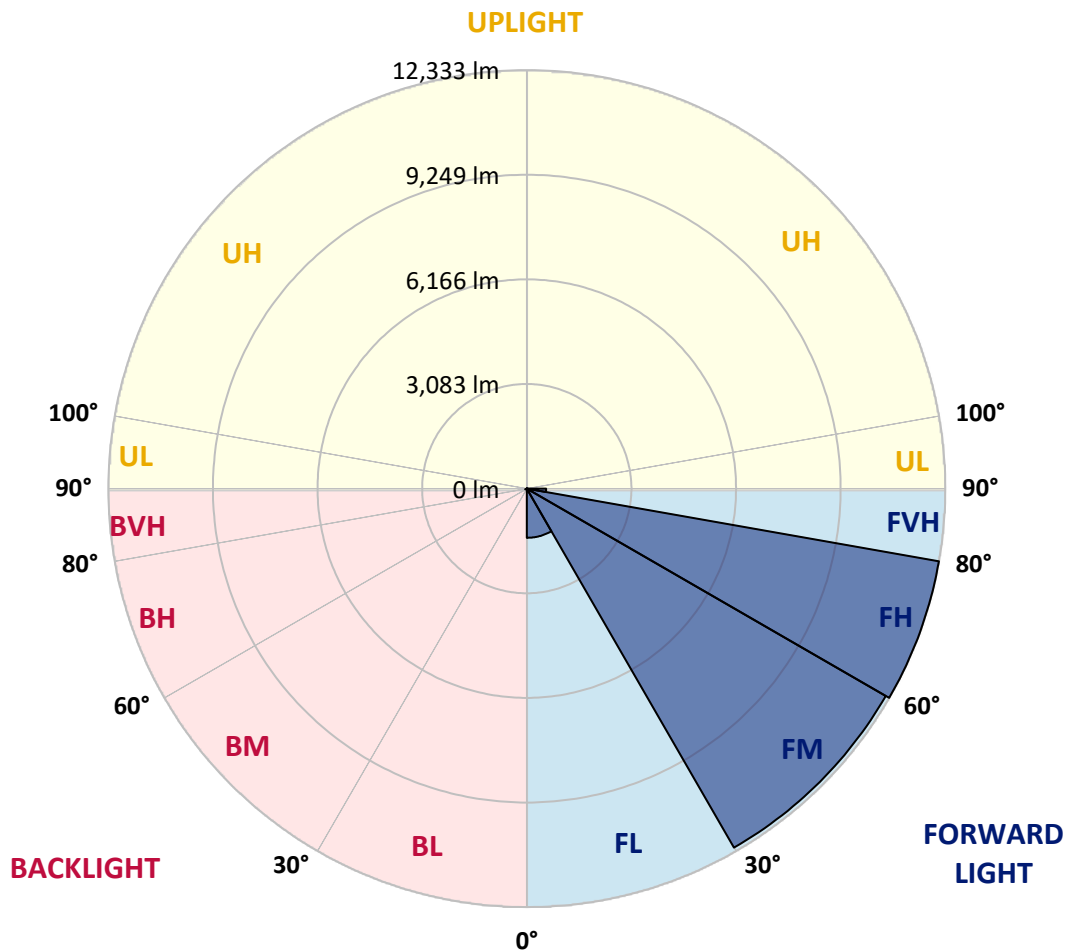
CATALOG NUMBER: NAV-SA5D-835-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1449.6	5.4			
FM	(30°-60°)	12215.5	45.8			
FH	(60°-80°)	12332.6	46.3			G5
FVH	(80°-90°)	567.9	2.1			G4/750
BL	(0°-30°)	17.8	0.1	B0/110		
BM	(30°-60°)	15.8	0.1	B0/220		
BH	(60°-80°)	45.1	0.2	B0/110		G0/110
BVH	(80°-90°)	3.4	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-G5

Type IV Short



REPORT NUMBER: P1067624

CATALOG NUMBER: NAV-SA5D-835-U-T4BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7
2.5°	188.1	188.1	188.1	180.9	180.9	173.6	173.6	166.4	159.2	159.2	151.9
5°	354.5	361.7	340.0	296.6	267.7	253.2	238.7	202.6	180.9	166.4	151.9
7.5°	969.5	940.5	897.1	752.4	578.8	492.0	419.6	296.6	217.0	173.6	151.9
10°	2040.2	1960.6	1837.6	1642.3	1302.3	1164.8	904.3	542.6	303.9	195.3	151.9
12.5°	2995.2	3009.7	2857.7	2669.6	2257.2	2025.7	1671.2	1020.1	477.5	231.5	151.9
15°	3718.7	3704.2	3646.3	3494.4	3125.4	2901.1	2582.8	1714.6	803.1	289.4	159.2
17.5°	4290.2	4232.3	4210.6	4145.5	3906.8	3783.8	3436.5	2524.9	1273.3	390.7	166.4
20°	4861.7	4847.3	4825.6	4753.2	4594.1	4507.2	4239.6	3342.5	1895.5	557.1	180.9
22.5°	5693.7	5614.2	5628.6	5469.5	5339.2	5187.3	4970.3	4210.6	2611.7	795.8	202.6
25°	6670.4	6663.2	6547.4	6475.1	6258.1	6091.7	5802.3	5049.9	3407.6	1150.3	224.3
27.5°	7820.8	7741.2	7690.5	7567.5	7343.3	7155.2	6757.3	5881.8	4268.5	1548.2	253.2
30°	9021.7	9021.7	8927.7	8739.6	8522.5	8291.0	7885.9	6757.3	5122.2	2054.7	289.4
32.5°	10425.3	10454.2	10222.7	9940.5	9658.4	9499.2	8971.1	7748.4	5939.7	2633.4	332.8
35°	11785.4	11749.2	11365.8	11054.7	10844.9	10671.3	10222.7	8833.6	6865.8	3306.3	390.7
37.5°	13087.7	12993.6	12356.9	11915.6	11821.6	11705.8	11257.3	9918.8	7784.6	4051.5	463.0
40°	14020.9	13876.2	13217.9	12610.2	12472.7	12407.6	12060.3	10902.8	8754.0	4883.5	557.1
42.5°	14426.1	14259.7	13803.9	13311.9	13008.1	12856.1	12552.3	11705.8	9723.5	5809.5	694.5
45°	14505.7	14375.4	14049.9	13934.1	13521.7	13290.2	12877.8	12277.4	10627.8	6728.3	882.6
47.5°	14216.3	14158.4	13963.1	14209.0	13999.2	13680.9	13181.7	12704.2	11430.9	7842.5	1143.1
50°	13507.3	13463.9	13557.9	14201.8	14346.5	13984.8	13514.5	13037.0	12125.4	8992.8	1512.1
52.5°	12552.3	12545.1	12986.4	14013.7	14498.4	14274.2	13840.1	13369.8	12675.3	10106.9	2033.0
55°	11510.5	11633.5	12407.6	13840.1	14585.2	14484.0	14158.4	13666.4	13167.2	11141.5	2872.2
57.5°	11423.7	11373.0	12118.2	13767.7	14635.9	14693.8	14476.7	13977.5	13586.9	11988.0	3993.6
60°	12291.8	12176.1	12458.2	13919.7	14860.2	14961.5	14795.1	14216.3	14006.5	12653.6	5469.5
62.5°	13297.5	13188.9	13333.6	14505.7	15301.5	15446.2	15236.4	14462.3	14346.5	13116.6	7053.9
65°	14100.5	14013.7	14288.6	15381.1	15916.4	16039.4	15894.7	14918.0	14498.4	13492.8	8341.7
67.5°	14230.7	14122.2	14693.8	15967.1	16538.6	16625.4	16509.7	15359.4	14447.8	13521.7	8638.3
70°	13861.8	13767.7	14585.2	16155.2	16806.3	16878.7	16509.7	15149.6	13760.5	12783.8	7061.1
72.5°	12725.9	12798.3	13854.5	15699.4	16437.3	16104.5	15323.2	14093.3	12870.6	10837.7	4955.8
75°	10960.6	11040.2	12443.8	14447.8	14505.7	14100.5	13680.9	12964.7	11517.7	7140.7	3436.5
77.5°	7791.8	7509.7	9607.7	11930.1	11720.3	11980.7	12016.9	10787.0	9643.9	3718.7	2300.6
80°	766.9	651.1	1208.2	3422.0	7560.3	8450.2	8797.5	8312.7	7111.8	1664.0	1208.2
82.5°	166.4	166.4	180.9	195.3	303.9	455.8	2090.8	5122.2	4594.1	846.5	390.7
85°	94.1	94.1	115.8	137.5	180.9	202.6	238.7	318.3	1237.1	303.9	72.3
87.5°	72.3	79.6	94.1	115.8	151.9	166.4	202.6	253.2	311.1	282.2	21.7
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: P1067624

CATALOG NUMBER: NAV-SA5D-835-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7	144.7
2.5°	151.9	144.7	137.5	130.2	123.0	123.0	115.8	115.8	115.8	115.8	115.8
5°	144.7	137.5	130.2	115.8	108.5	101.3	94.1	94.1	94.1	94.1	94.1
7.5°	144.7	137.5	123.0	108.5	94.1	86.8	79.6	72.3	72.3	79.6	79.6
10°	144.7	130.2	108.5	94.1	79.6	72.3	65.1	57.9	57.9	57.9	57.9
12.5°	137.5	123.0	101.3	86.8	72.3	57.9	43.4	36.2	36.2	36.2	36.2
15°	130.2	115.8	94.1	72.3	50.6	36.2	28.9	21.7	21.7	21.7	21.7
17.5°	130.2	108.5	86.8	65.1	36.2	21.7	14.5	7.2	7.2	7.2	14.5
20°	130.2	108.5	79.6	50.6	21.7	14.5	14.5	7.2	0.0	7.2	7.2
22.5°	130.2	101.3	65.1	36.2	21.7	14.5	7.2	0.0	0.0	0.0	0.0
25°	137.5	101.3	57.9	28.9	14.5	7.2	0.0	0.0	0.0	0.0	0.0
27.5°	137.5	94.1	50.6	21.7	7.2	0.0	0.0	0.0	0.0	0.0	0.0
30°	144.7	94.1	43.4	14.5	7.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	144.7	86.8	28.9	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	144.7	79.6	21.7	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	144.7	72.3	21.7	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	151.9	65.1	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	159.2	57.9	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	166.4	50.6	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	188.1	50.6	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	217.0	50.6	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	260.5	50.6	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	340.0	43.4	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	492.0	43.4	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	824.8	43.4	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1446.9	43.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	2445.3	43.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3190.5	50.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2423.6	43.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1157.6	28.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	513.7	28.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	224.3	21.7	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	86.8	14.5	7.2	7.2	7.2	7.2	0.0	0.0	0.0	0.0	0.0
82.5°	36.2	14.5	7.2	7.2	7.2	7.2	7.2	0.0	0.0	0.0	0.0
85°	21.7	14.5	14.5	14.5	7.2	7.2	7.2	0.0	0.0	0.0	0.0
87.5°	14.5	14.5	14.5	14.5	14.5	7.2	7.2	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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-10
 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-835-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3411
 CIE u' : 0.2360
 CIE v' : 0.5189
 Duv: 0.0044
 CIE x: 0.4154
 CIE y: 0.4059
 CIE z: 0.1787
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 579
 Purity: 46.51914
 R_f: 86.6
 R_g: 95.9

CRI (Ra): 83.5
 R1: 81.1
 R2: 88.9
 R3: 97.2
 R4: 83.8
 R5: 81.7
 R6: 86.9
 R7: 86.1
 R8: 62.2
 R9: 6.3
 R10: 75.4
 R11: 84.1
 R12: 69.7
 R13: 82.8
 R14: 98.5
 R15: 72.6



Test Conditions

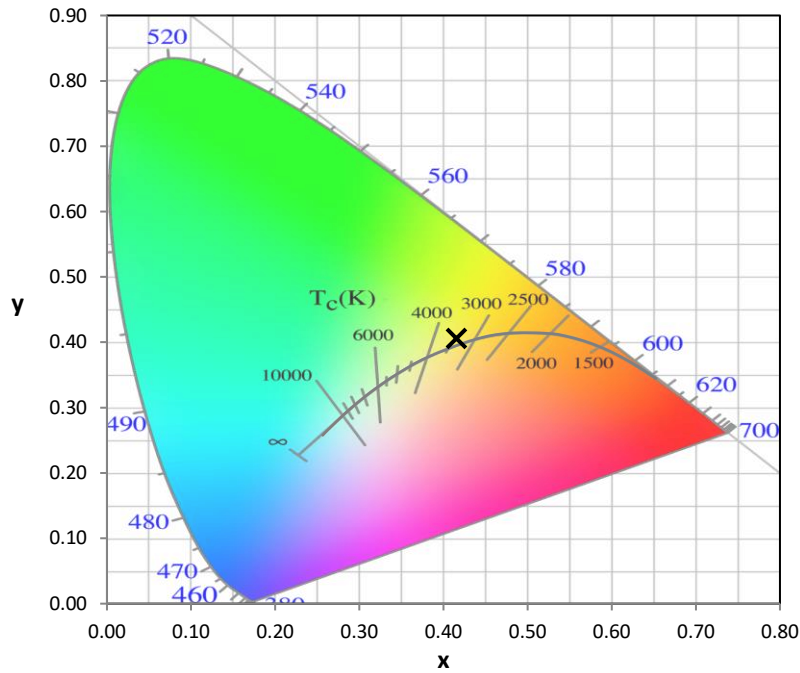
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-10

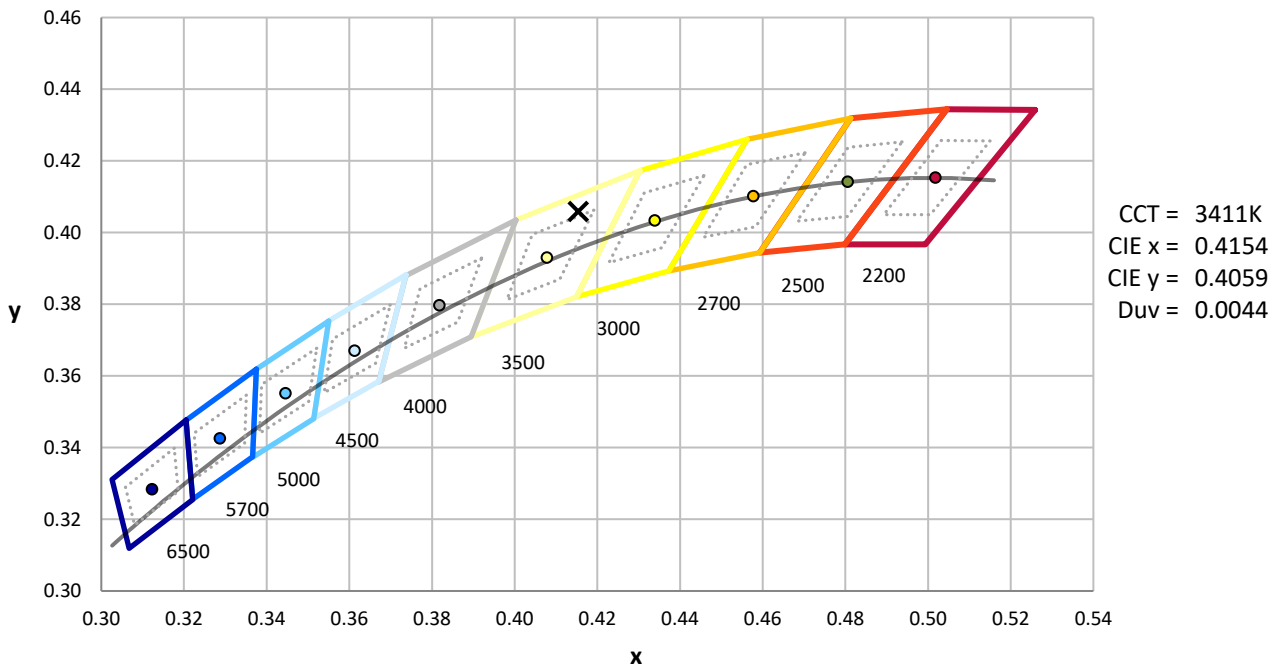
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-10

CIE 1931 Chromaticity Diagram



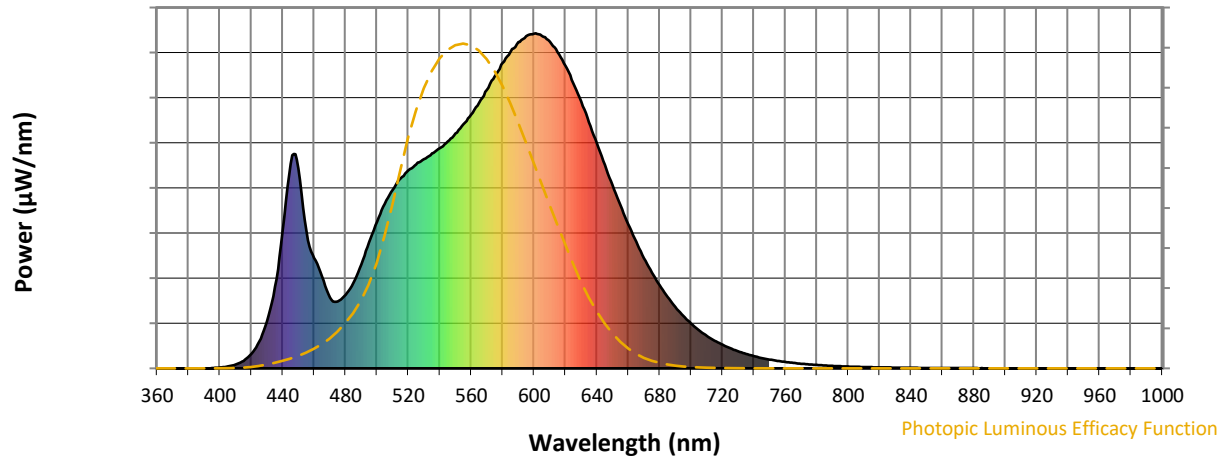
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

Photopic Flux vs. Wavelength

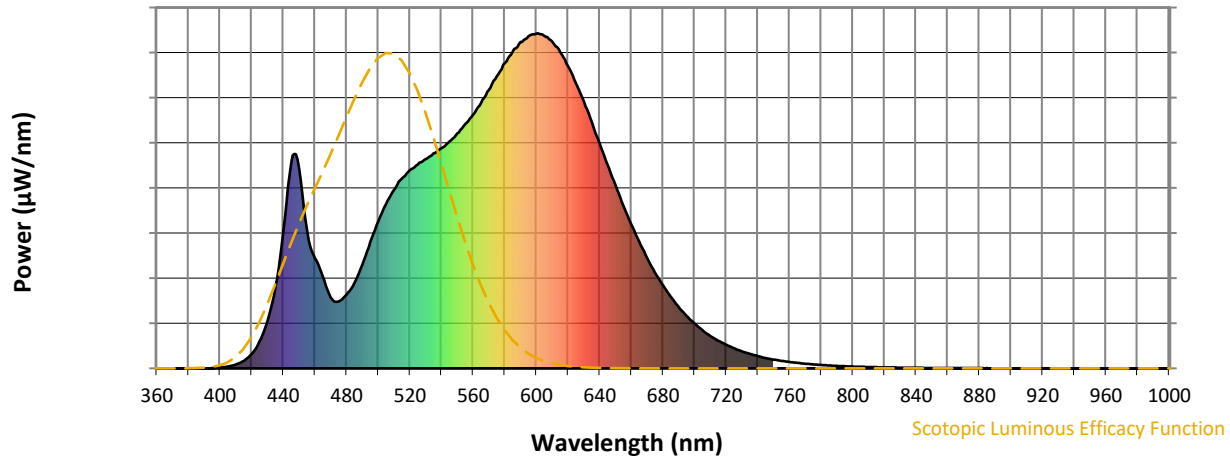


Photopic Lumens: NR

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength



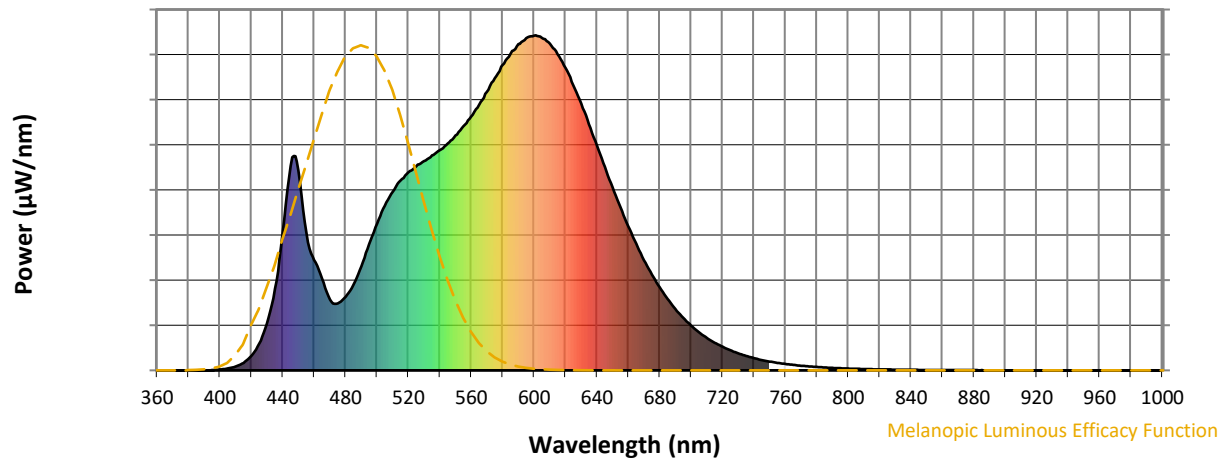
Scotopic Lumens: NR

S/P: 1.48

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.88

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

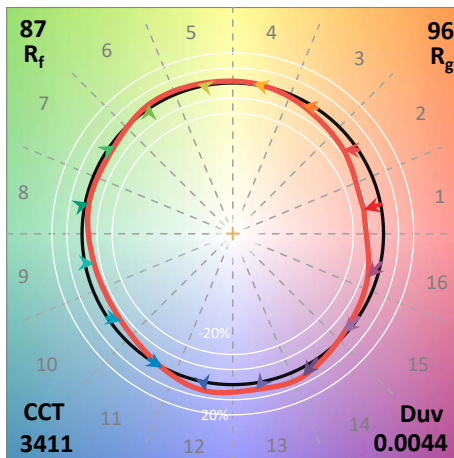
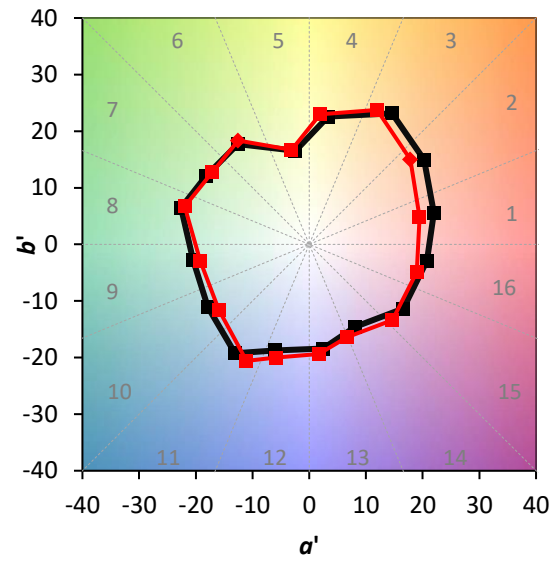
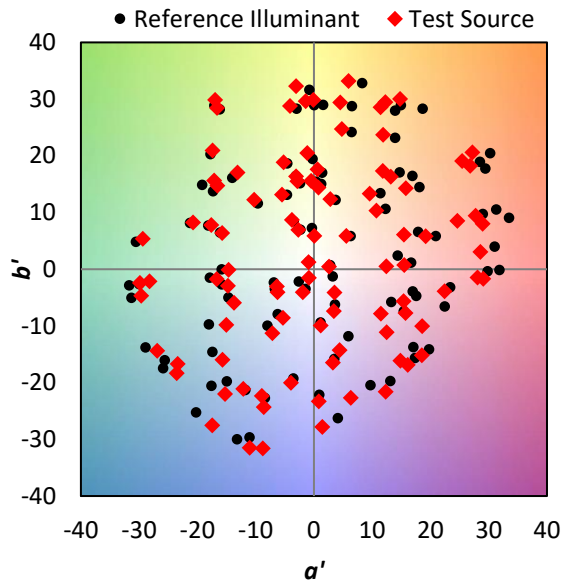
TM-30-18

Summary

$R_f = 86.6$
 $R_g = 95.9$
 $CIE R_a = 83.5$
 $R_9 = 6.3$



Color Vector Graphics

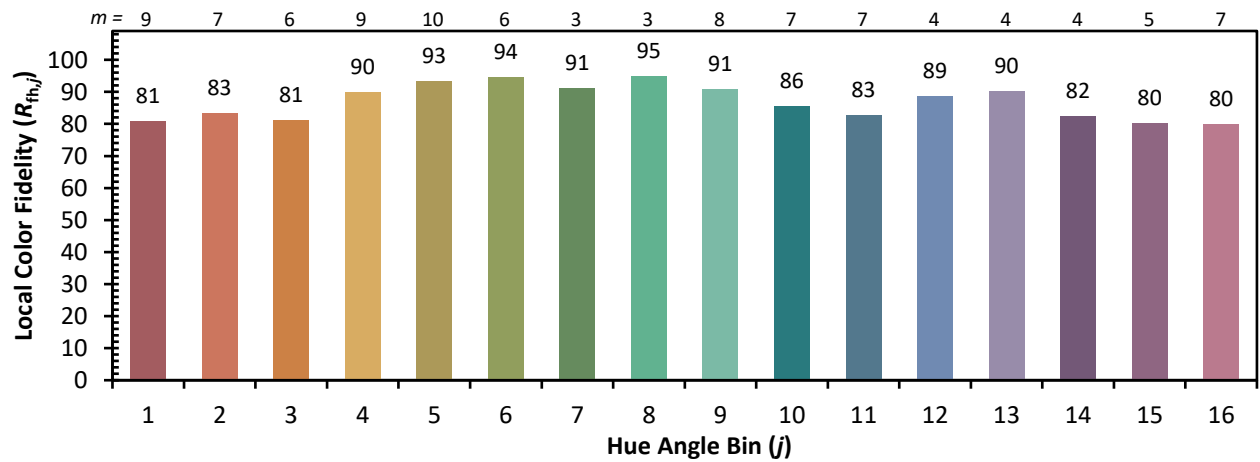
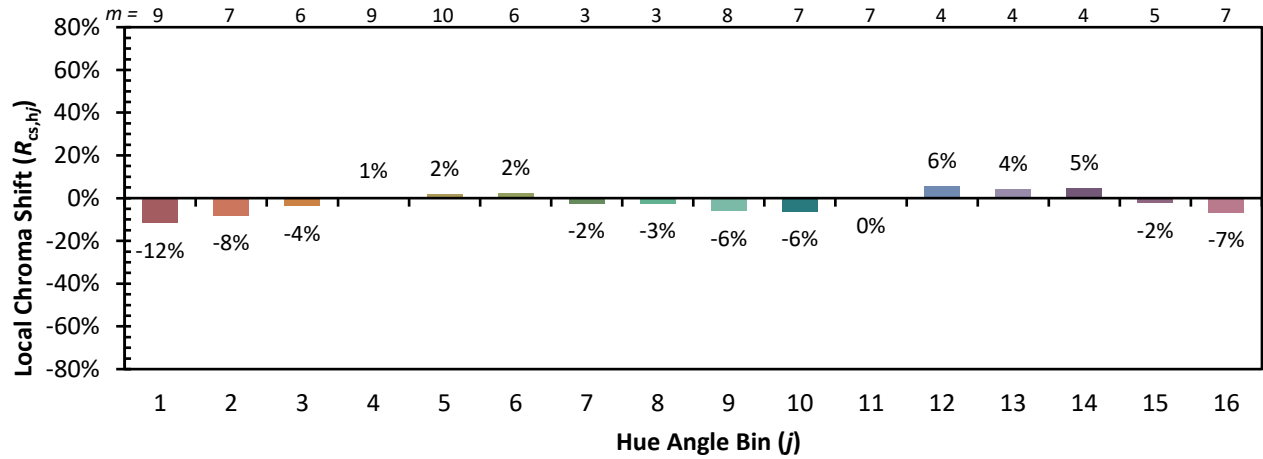


Individual Sample Fidelity Index ($R_{f,i}$)

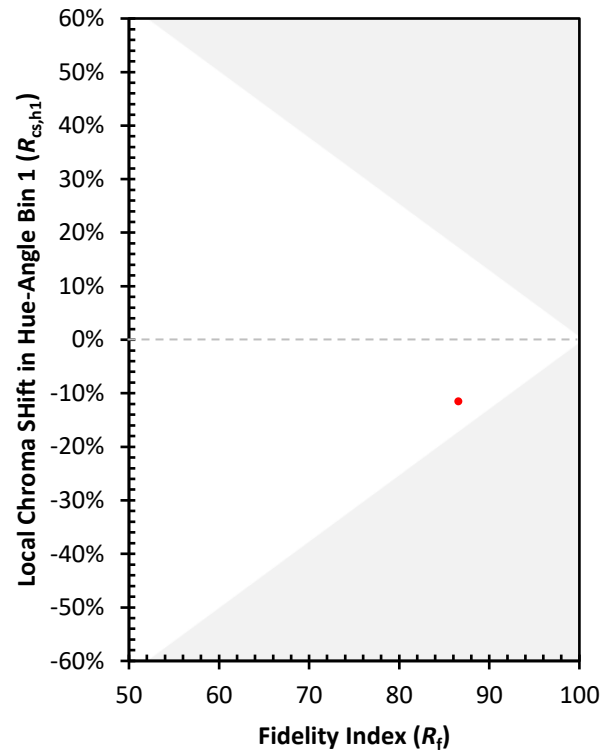
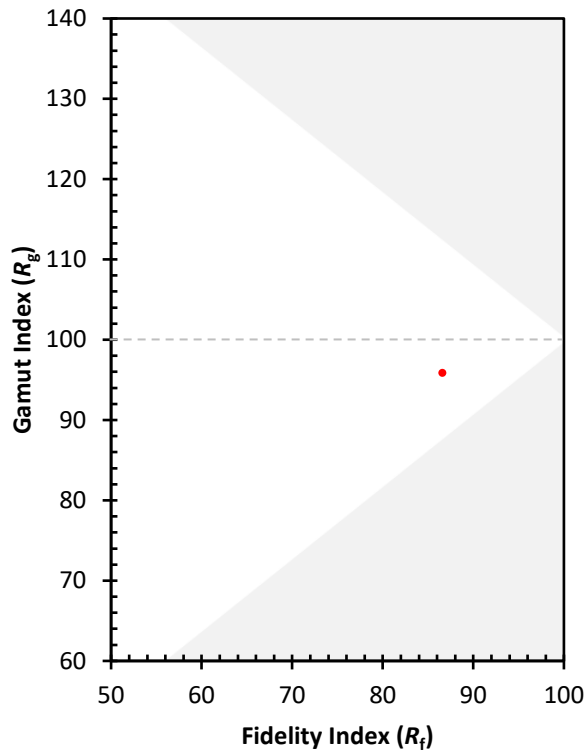
CES01 = 86	CES26 = 85	CES51 = 97	CES76 = 81
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)