

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

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Peachtree City, GA 30269

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1445225

Luminaire Tested: TPTN-VA0-735-U-DL-GM

Issue Date: 05/21/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445225
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: MCGRAW-EDISON
Catalog Number: TPTN-VA0-735-U-DL-GM
Description: TOPTIER NANO SPIDER MOUNT VISUAL COMFORT LED LUMINAIRE 9W 70CRI 3500K w/
DRIVE LANE TYPE IV DISTRIBUTION OPTIC
Light Source: 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 761.5 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 8.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 29.6%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

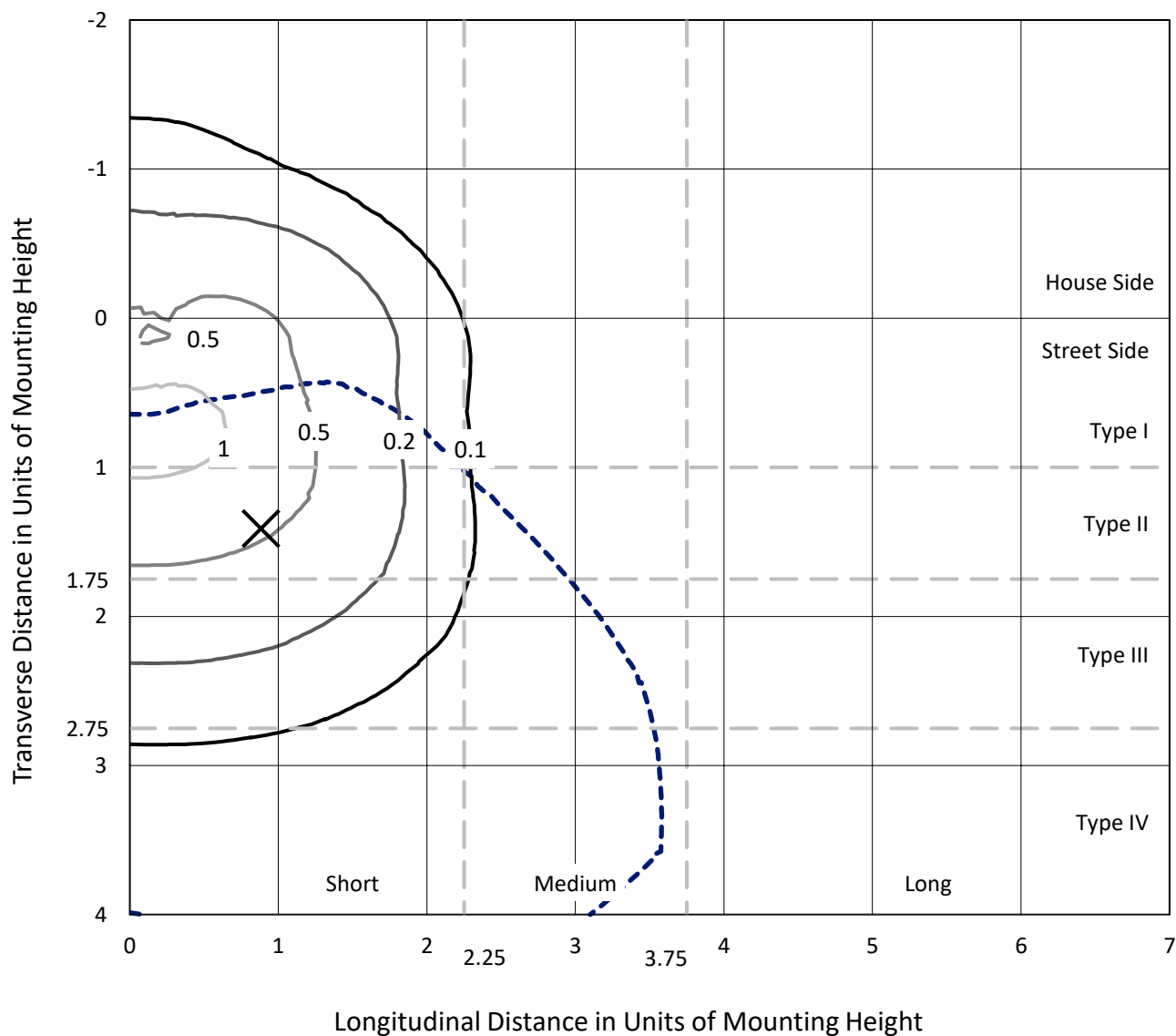
REPORT NUMBER: P1445225

CATALOG NUMBER: TPTN-VA0-735-U-DL-GM

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



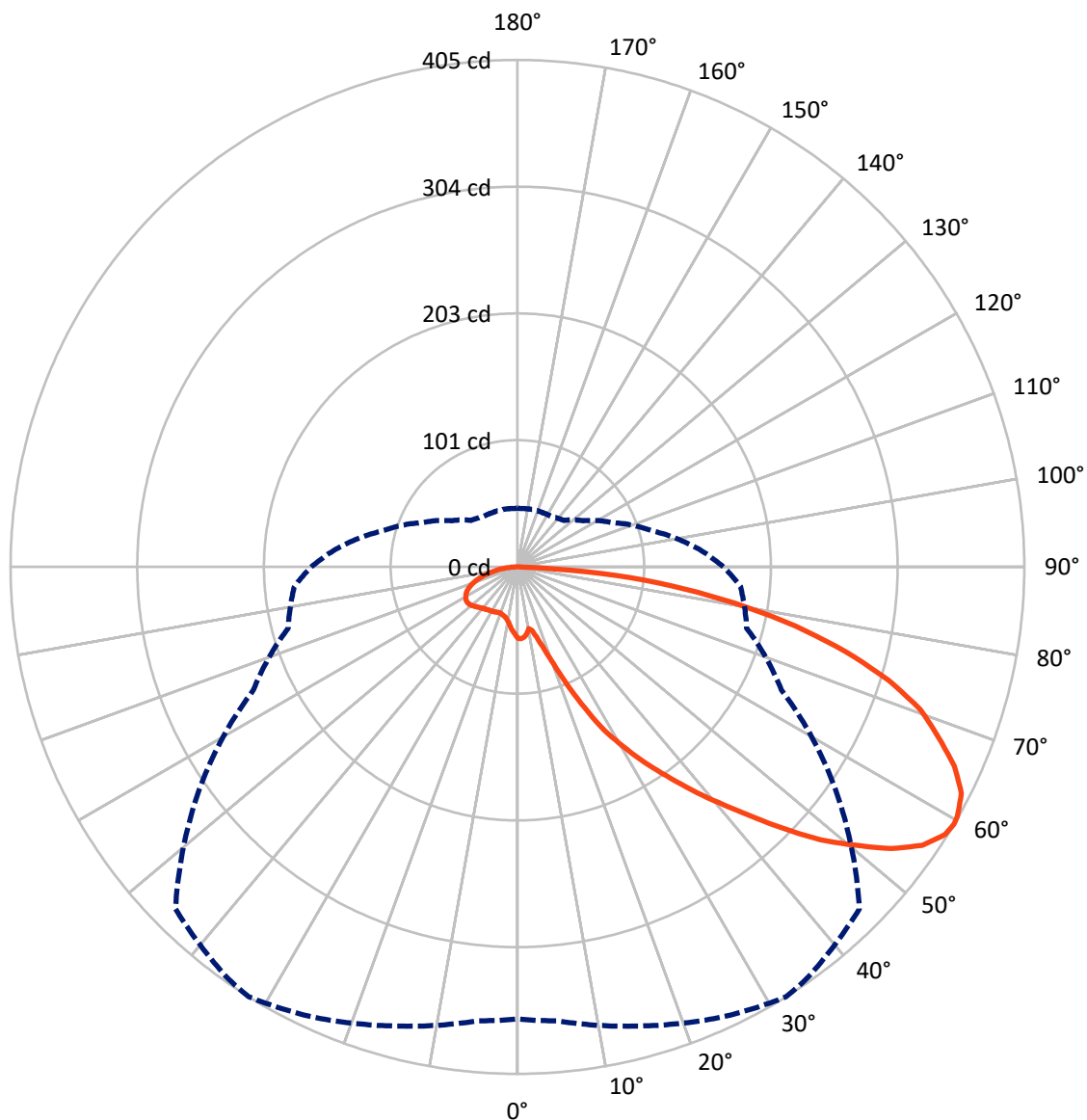
Based on 10 foot mounting height. Maximum calculated value = 1.2 fc

Type IV - Short - N/A

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CATALOG NUMBER: TPTN-VA0-735-U-DL-GM

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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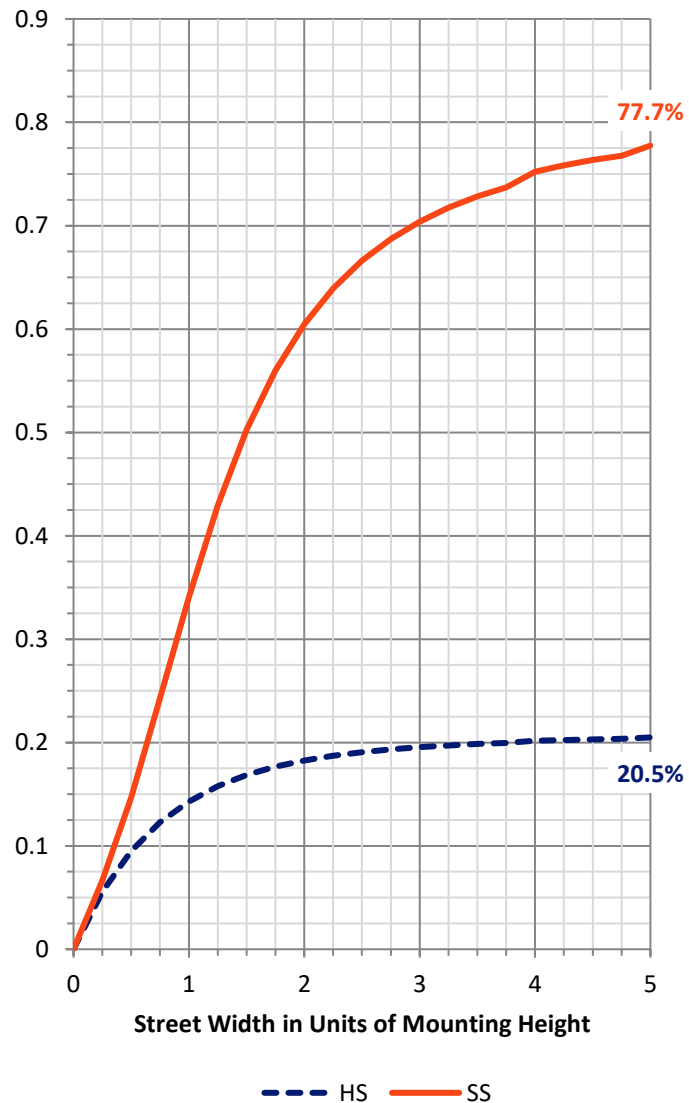
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	158.4	0.0	158.4
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	603.2	0.0	603.2
	% Fixture	79.2	0.0	79.2
Total	Lumens	761.5	0.0	761.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.7
10°-20°	15.0	2.0
20°-30°	36.9	4.8
30°-40°	72.4	9.5
40°-50°	120.5	15.8
50°-60°	170.1	22.3
60°-70°	178.7	23.5
70°-80°	128.9	16.9
80°-90°	34.1	4.5
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°	761.5	100.0
0°-180°	761.5	100.0

Coefficient of Utilization



REPORT NUMBER: P1445225

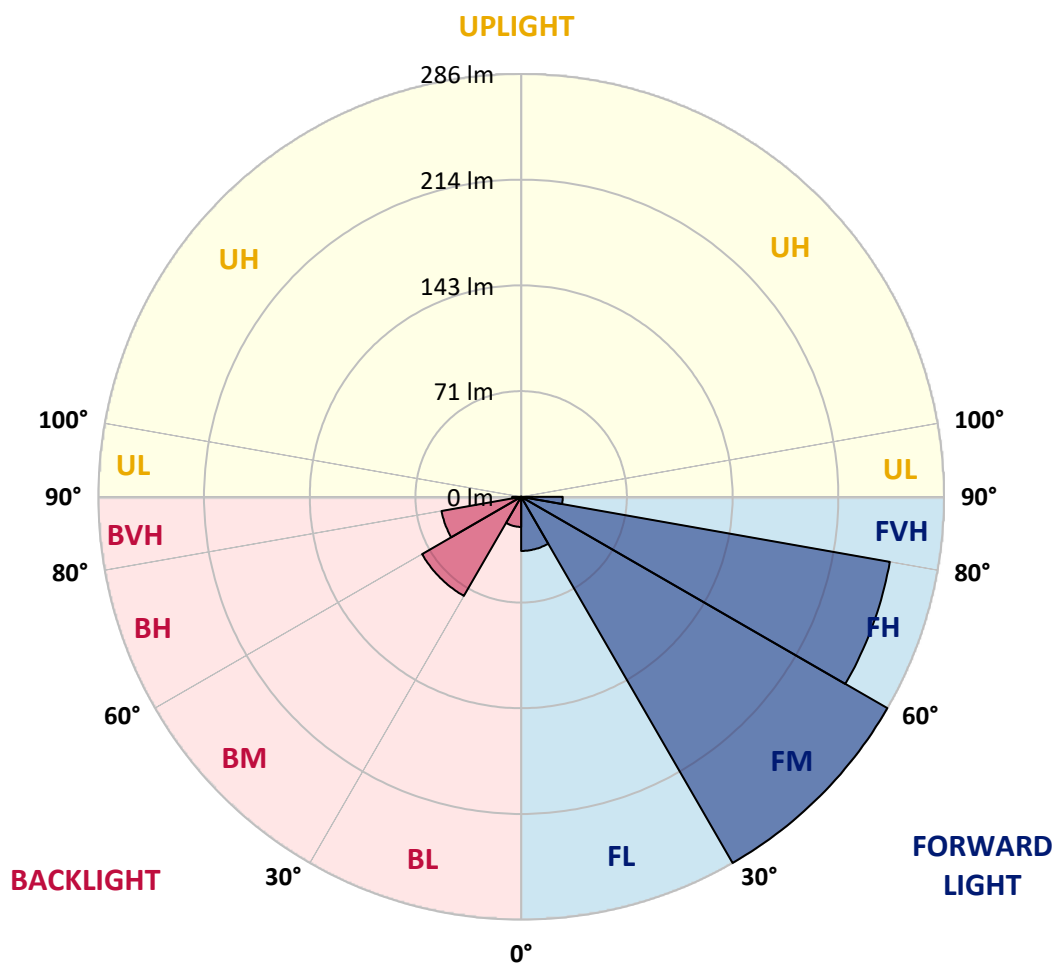
CATALOG NUMBER: TPTN-VA0-735-U-DL-GM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	36.6	4.8			
FM	(30°-60°)	285.7	37.5			
FH	(60°-80°)	252.9	33.2			G0/660
FVH	(80°-90°)	28.0	3.7			G1/100
BL	(0°-30°)	20.3	2.7	B0/110		
BM	(30°-60°)	77.3	10.2	B0/220		
BH	(60°-80°)	54.6	7.2	B0/110		G0/110
BVH	(80°-90°)	6.1	0.8			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



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CATALOG NUMBER: TPTN-VA0-735-U-DL-GM

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
2.5°	58.0	57.8	57.8	57.7	57.5	57.5	57.4	57.1	56.6	56.2	55.9
5°	57.4	57.2	56.9	56.8	56.5	56.3	56.0	55.5	55.2	55.3	55.3
7.5°	54.9	55.0	54.7	54.3	53.8	53.7	53.0	52.8	52.7	52.2	52.5
10°	54.4	54.6	53.2	51.8	50.2	49.6	49.0	49.1	50.0	50.6	51.2
12.5°	58.1	57.5	56.3	54.3	52.2	51.6	50.0	50.0	50.7	51.3	51.9
15°	63.7	63.5	62.2	60.6	58.8	58.1	55.2	53.8	54.0	54.4	54.9
17.5°	71.9	72.4	72.8	70.7	68.7	67.2	63.0	60.0	58.8	59.0	59.0
20°	86.6	86.8	87.8	86.0	82.8	80.8	74.0	68.5	65.9	65.3	65.0
22.5°	107.7	107.1	107.1	106.6	102.4	99.9	89.1	79.4	74.7	73.1	73.0
25°	132.1	131.8	132.4	130.2	124.6	122.8	108.0	93.7	85.3	83.0	81.2
27.5°	155.9	156.2	156.5	152.5	147.8	144.7	127.5	110.6	97.1	92.8	89.6
30°	178.4	179.2	175.3	169.7	166.4	162.5	143.9	124.0	108.1	100.8	97.7
32.5°	200.6	199.9	193.0	188.7	185.9	182.1	160.3	138.3	119.3	109.0	104.9
35°	222.3	220.2	211.5	207.4	205.0	201.8	180.2	153.0	130.2	117.2	112.2
37.5°	242.4	241.2	231.2	229.2	226.1	223.6	201.7	168.4	141.9	126.9	120.8
40°	261.2	261.4	254.2	250.8	247.7	245.3	223.6	184.6	154.1	136.9	130.2
42.5°	280.8	280.6	276.5	274.3	271.1	269.3	246.5	202.5	166.9	147.5	139.6
45°	299.2	300.5	300.8	299.5	298.2	296.5	274.6	223.3	182.1	158.3	149.9
47.5°	320.8	322.4	324.8	325.2	326.0	323.3	302.0	242.8	196.8	168.9	159.6
50°	336.8	338.5	346.0	348.3	349.6	348.5	327.9	264.0	210.0	178.9	167.1
52.5°	352.7	353.6	364.2	372.4	374.0	372.1	353.3	284.2	223.0	186.8	174.7
55°	362.1	363.5	377.1	389.3	392.7	392.0	375.4	298.3	230.9	192.4	179.6
57.5°	363.0	365.4	381.1	395.8	403.3	401.4	385.5	307.7	233.3	191.8	179.7
59°	361.4	364.2	379.9	396.1	405.2	402.4	386.6	310.5	232.8	189.7	179.0
60°	360.1	362.9	377.9	395.1	404.2	401.8	386.4	311.8	230.9	188.6	178.4
62.5°	352.1	357.0	371.8	387.1	398.3	399.6	383.5	312.4	227.0	184.7	175.3
65°	333.5	338.2	357.7	376.4	383.8	388.3	372.6	304.8	217.8	176.9	165.2
67.5°	310.1	314.0	333.2	357.7	362.9	367.0	357.4	289.6	206.2	161.8	152.7
70°	286.1	290.9	306.4	332.1	341.8	344.8	337.9	273.1	189.6	146.6	140.5
72.5°	253.9	257.8	276.2	300.1	310.2	313.9	308.3	251.2	168.6	131.4	125.6
75°	218.0	220.3	237.5	261.7	271.4	275.1	273.3	223.3	145.9	112.2	106.3
77.5°	174.6	179.9	194.2	213.4	227.3	228.0	227.8	189.3	120.0	88.4	86.3
80°	130.3	135.0	148.6	166.8	176.4	179.0	178.7	149.3	93.1	67.7	64.3
82.5°	82.5	85.5	99.6	114.3	124.3	126.6	129.3	107.8	64.9	44.9	41.0
85°	32.8	32.7	44.9	60.6	68.0	71.9	73.8	62.8	35.2	20.0	16.9
87.5°	2.4	2.5	3.1	3.8	4.0	4.3	4.9	6.2	4.9	4.3	2.2
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: P1445225

CATALOG NUMBER: TPTN-VA0-735-U-DL-GM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
2.5°	55.7	55.6	55.0	54.7	54.3	54.1	54.0	53.7	53.5	53.4	53.5
5°	54.9	54.9	54.3	53.8	52.8	52.1	51.3	50.3	49.6	49.1	49.0
7.5°	52.8	53.0	52.8	51.9	51.0	49.9	48.1	46.3	45.0	44.3	44.0
10°	51.0	51.3	51.2	50.6	49.1	47.2	45.0	42.7	40.6	39.3	39.1
12.5°	51.9	51.9	51.5	50.3	48.4	45.9	43.1	40.0	37.7	36.2	35.9
15°	54.9	54.6	53.2	51.3	48.4	45.3	41.9	38.4	35.6	34.0	33.8
17.5°	59.1	58.5	56.2	52.7	48.8	45.0	41.3	37.4	34.0	31.9	31.6
20°	64.7	63.4	59.7	54.4	49.7	45.3	40.7	36.3	32.9	30.6	30.0
22.5°	71.6	69.4	63.7	56.6	50.9	45.9	40.9	36.0	32.4	30.2	30.0
25°	78.8	75.9	68.2	59.3	52.2	46.3	41.0	36.6	32.9	31.3	31.0
27.5°	86.2	82.7	73.1	62.4	53.7	47.1	41.6	37.5	34.7	33.4	33.2
30°	93.4	88.7	77.4	65.0	55.2	47.5	42.1	37.5	35.6	34.6	34.4
32.5°	100.0	94.3	81.3	67.8	56.6	48.4	42.5	37.9	36.2	35.9	35.7
35°	107.1	100.9	85.5	70.2	58.1	49.1	43.0	38.4	37.1	37.1	37.1
37.5°	114.7	107.5	89.9	72.8	59.6	50.5	43.5	39.4	38.2	38.5	38.5
40°	122.8	114.6	94.4	75.6	60.9	51.2	44.0	40.4	39.4	39.7	39.9
42.5°	131.2	121.5	99.1	78.1	62.7	52.1	44.9	41.8	41.0	41.3	41.3
45°	139.7	128.9	103.6	80.8	64.1	53.0	45.9	43.2	42.7	42.8	42.8
47.5°	148.1	135.5	107.5	83.1	65.5	53.7	46.9	44.7	44.3	44.4	44.3
50°	155.2	141.2	111.1	84.9	66.8	54.4	48.1	46.2	45.9	45.6	45.5
52.5°	161.4	146.4	113.8	86.2	67.4	54.7	49.1	47.7	47.4	46.8	46.6
55°	164.7	148.7	114.6	86.5	66.9	54.4	49.4	48.4	48.1	47.4	47.4
57.5°	165.5	148.7	113.0	85.2	65.5	53.4	49.3	48.1	47.8	47.1	47.1
59°	164.7	147.8	111.5	83.7	64.3	52.5	48.7	47.8	47.4	46.8	46.8
60°	164.0	147.2	110.5	82.2	63.5	51.9	48.1	47.4	46.9	46.5	46.5
62.5°	160.8	143.9	107.7	78.4	61.0	49.7	46.8	46.3	46.0	45.6	45.5
65°	151.8	135.8	101.8	74.1	57.2	47.1	44.6	44.4	44.3	43.5	43.2
67.5°	141.2	125.8	93.3	68.7	52.4	44.0	41.9	41.9	41.3	40.7	40.9
70°	130.3	116.2	84.4	61.9	46.8	40.0	38.4	38.5	37.9	37.8	37.9
72.5°	115.9	102.7	74.7	53.7	41.0	35.4	34.1	34.6	34.4	34.3	34.3
75°	97.7	87.1	63.0	45.3	34.7	30.4	29.7	29.9	30.0	29.9	29.9
77.5°	79.6	70.7	49.9	35.7	27.5	24.6	24.4	25.2	25.3	25.2	25.3
80°	59.0	52.1	36.3	26.2	20.4	18.8	19.1	20.2	20.4	20.4	20.7
82.5°	37.9	32.7	23.5	16.9	13.7	13.2	14.1	15.2	15.6	15.6	15.6
85°	15.0	13.5	10.9	8.4	7.8	8.4	9.4	10.0	10.7	10.7	10.6
87.5°	0.9	2.2	3.4	3.4	3.4	3.7	3.7	3.8	4.0	3.8	3.8
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: SP1-2411-284-1

Test Date: 11/15/2024

Luminaire Tested: TTN-D0-735-U-WQ

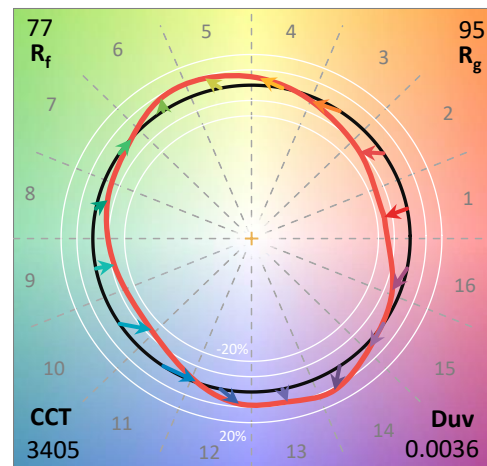
Data in this report applies to families of products including TTN-D0-735-U-WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2411-284-1
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 11/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **TTN-D0-735-U-WQ**
 Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE. 3500K, 70 CRI LEDS AND WIDE DISTRIBUTION

Spectral Parameters

CCT (K):	3405	CRI (Ra):	73.9		
CIE u':	0.2365	R1:	71.3	R9:	-18.0
CIE v':	0.5180	R2:	80.3	R10:	53.1
Duv:	0.0036	R3:	87.8	R11:	68.6
CIE x:	0.4148	R4:	73.2	R12:	42.6
CIE y:	0.4038	R5:	69.8	R13:	72.5
CIE z:	0.1814	R6:	71.8	R14:	92.7
Peak Wavelength (nm):	596	R7:	82.8	R15:	64.3
Dominant Wavelength (nm):	579	R8:	54.1		
Purity:	45.70672				
Rf:	76.6				
Rg:	95.4				



Test Conditions

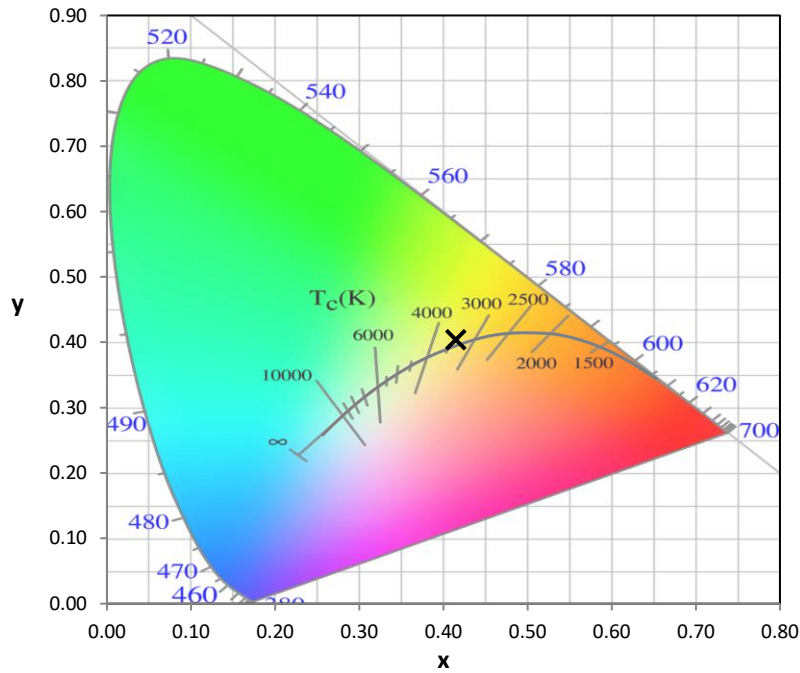
Stabilization Time: 38M
 Operation Time: 1H 38M
 Sphere Temperature (°C): 24.9

REPORT NUMBER: SP1-2411-284-1

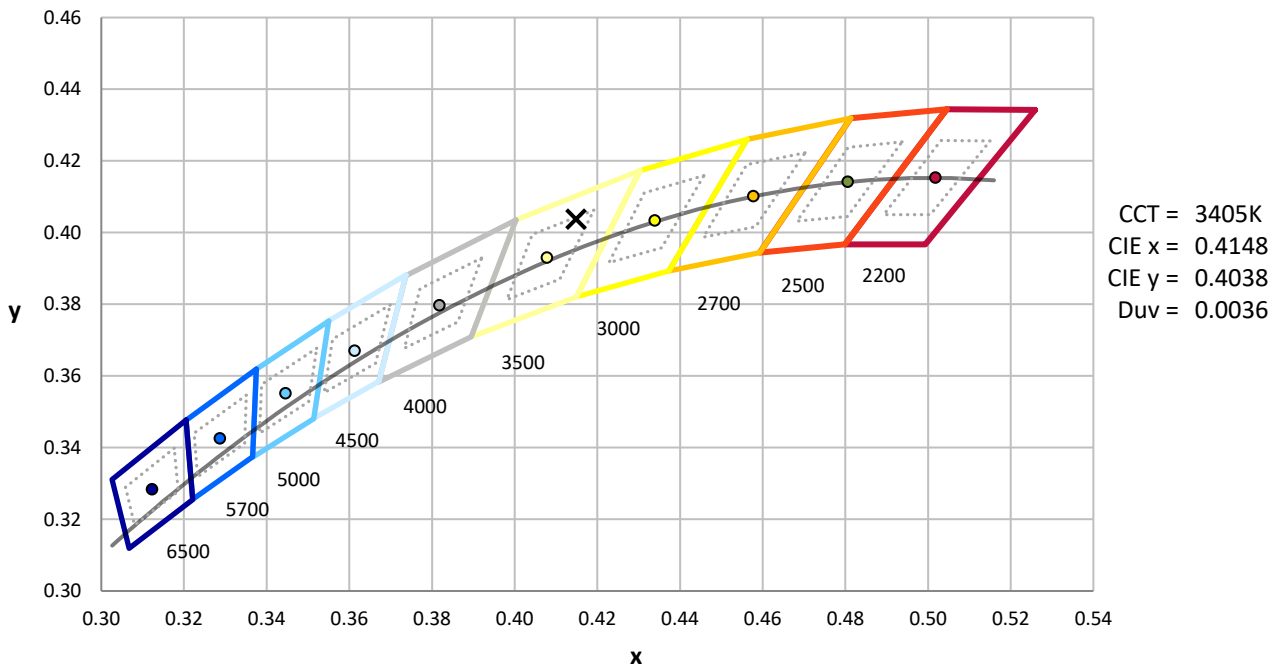
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

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CIE 1931 Chromaticity Diagram



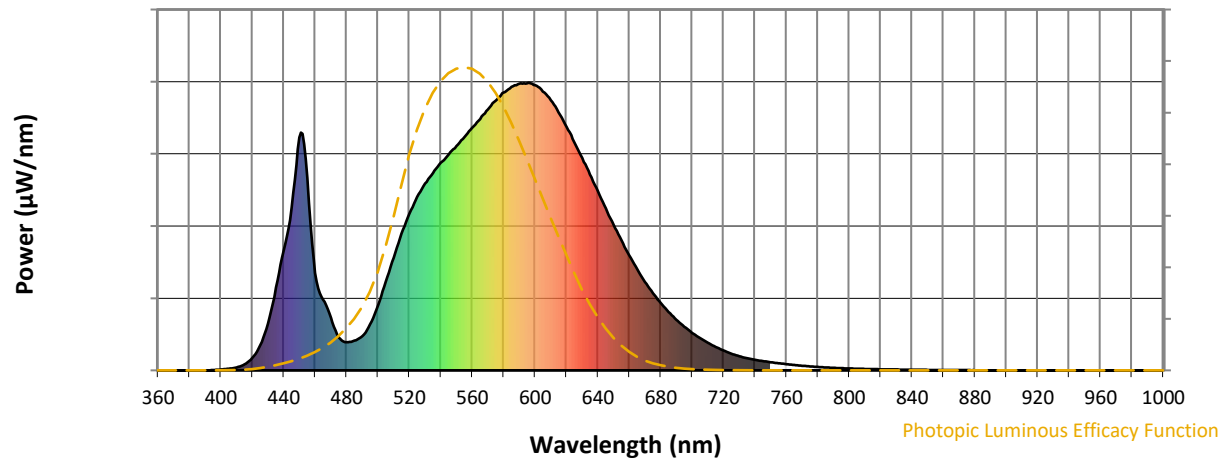
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

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Photopic Flux vs. Wavelength

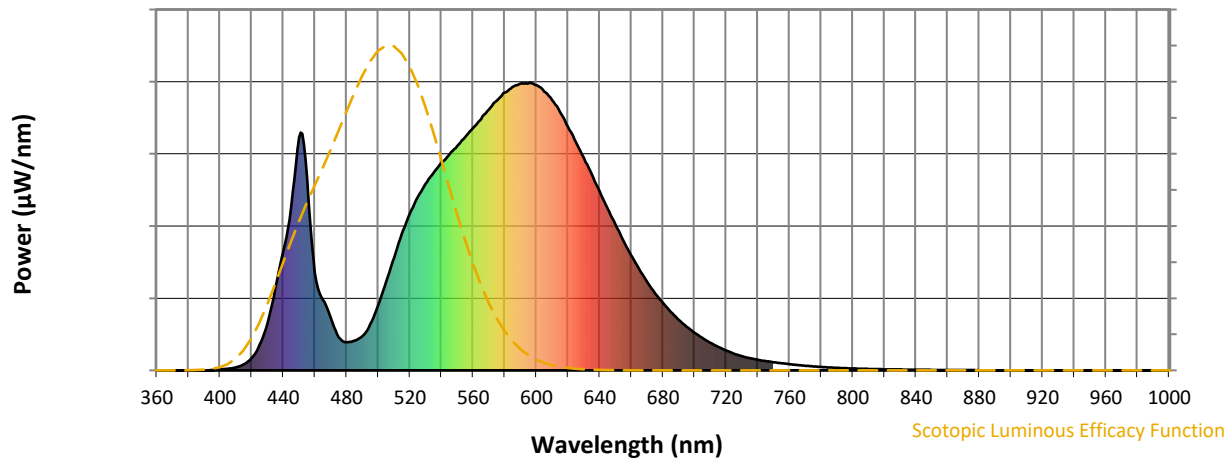


Photopic Lumens: NR

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	119	NR	620	846	NR	750	28	NR	880	1	NR
365	0	NR	495	160	NR	625	793	NR	755	25	NR	885	0	NR
370	0	NR	500	225	NR	630	739	NR	760	22	NR	890	0	NR
375	0	NR	505	308	NR	635	681	NR	765	19	NR	895	0	NR
380	0	NR	510	392	NR	640	623	NR	770	16	NR	900	0	NR
385	0	NR	515	474	NR	645	563	NR	775	14	NR	905	0	NR
390	0	NR	520	545	NR	650	506	NR	780	12	NR	910	0	NR
395	1	NR	525	603	NR	655	451	NR	785	10	NR	915	0	NR
400	3	NR	530	649	NR	660	399	NR	790	9	NR	920	0	NR
405	5	NR	535	687	NR	665	352	NR	795	8	NR	925	0	NR
410	11	NR	540	721	NR	670	307	NR	800	6	NR	930	0	NR
415	21	NR	545	751	NR	675	268	NR	805	6	NR	935	0	NR
420	43	NR	550	779	NR	680	234	NR	810	5	NR	940	0	NR
425	88	NR	555	811	NR	685	203	NR	815	4	NR	945	0	NR
430	163	NR	560	843	NR	690	176	NR	820	4	NR	950	0	NR
435	288	NR	565	873	NR	695	152	NR	825	3	NR	955	0	NR
440	416	NR	570	907	NR	700	131	NR	830	3	NR	960	0	NR
445	566	NR	575	938	NR	705	112	NR	835	3	NR	965	0	NR
450	810	NR	580	965	NR	710	96	NR	840	2	NR	970	0	NR
455	669	NR	585	986	NR	715	81	NR	845	2	NR	975	0	NR
460	338	NR	590	997	NR	720	69	NR	850	2	NR	980	0	NR
465	246	NR	595	997	NR	725	58	NR	855	1	NR	985	0	NR
470	182	NR	600	991	NR	730	49	NR	860	1	NR	990	0	NR
475	115	NR	605	968	NR	735	42	NR	865	1	NR	995	0	NR
480	97	NR	610	939	NR	740	37	NR	870	1	NR	1000	0	NR
485	103	NR	615	896	NR	745	32	NR	875	1	NR			

REPORT NUMBER: SP1-2411-284-1

Scotopic Flux vs. Wavelength



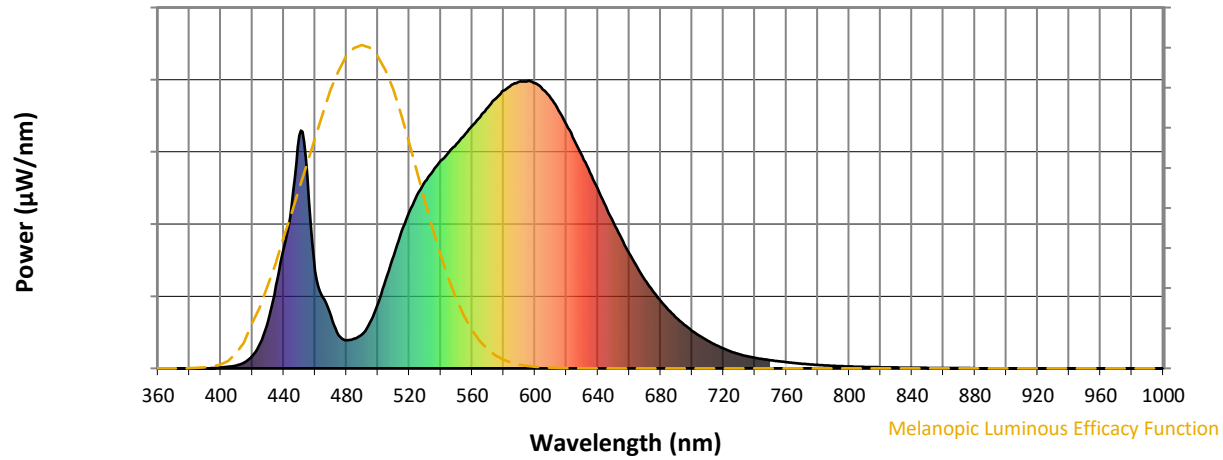
Scotopic Lumens: NR

S/P: 1.33

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	119	NR	620	846	NR	750	28	NR	880	1	NR
365	0	NR	495	160	NR	625	793	NR	755	25	NR	885	0	NR
370	0	NR	500	225	NR	630	739	NR	760	22	NR	890	0	NR
375	0	NR	505	308	NR	635	681	NR	765	19	NR	895	0	NR
380	0	NR	510	392	NR	640	623	NR	770	16	NR	900	0	NR
385	0	NR	515	474	NR	645	563	NR	775	14	NR	905	0	NR
390	0	NR	520	545	NR	650	506	NR	780	12	NR	910	0	NR
395	1	NR	525	603	NR	655	451	NR	785	10	NR	915	0	NR
400	3	NR	530	649	NR	660	399	NR	790	9	NR	920	0	NR
405	5	NR	535	687	NR	665	352	NR	795	8	NR	925	0	NR
410	11	NR	540	721	NR	670	307	NR	800	6	NR	930	0	NR
415	21	NR	545	751	NR	675	268	NR	805	6	NR	935	0	NR
420	43	NR	550	779	NR	680	234	NR	810	5	NR	940	0	NR
425	88	NR	555	811	NR	685	203	NR	815	4	NR	945	0	NR
430	163	NR	560	843	NR	690	176	NR	820	4	NR	950	0	NR
435	288	NR	565	873	NR	695	152	NR	825	3	NR	955	0	NR
440	416	NR	570	907	NR	700	131	NR	830	3	NR	960	0	NR
445	566	NR	575	938	NR	705	112	NR	835	3	NR	965	0	NR
450	810	NR	580	965	NR	710	96	NR	840	2	NR	970	0	NR
455	669	NR	585	986	NR	715	81	NR	845	2	NR	975	0	NR
460	338	NR	590	997	NR	720	69	NR	850	2	NR	980	0	NR
465	246	NR	595	997	NR	725	58	NR	855	1	NR	985	0	NR
470	182	NR	600	991	NR	730	49	NR	860	1	NR	990	0	NR
475	115	NR	605	968	NR	735	42	NR	865	1	NR	995	0	NR
480	97	NR	610	939	NR	740	37	NR	870	1	NR	1000	0	NR
485	103	NR	615	896	NR	745	32	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.47

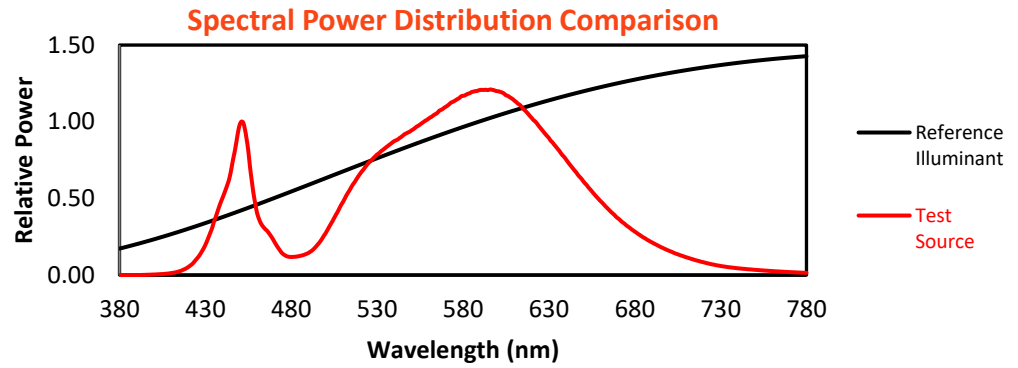
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	846	NR	750	28	NR	880	1	NR
365	0	NR	495	160	NR	625	793	NR	755	25	NR	885	0	NR
370	0	NR	500	225	NR	630	739	NR	760	22	NR	890	0	NR
375	0	NR	505	308	NR	635	681	NR	765	19	NR	895	0	NR
380	0	NR	510	392	NR	640	623	NR	770	16	NR	900	0	NR
385	0	NR	515	474	NR	645	563	NR	775	14	NR	905	0	NR
390	0	NR	520	545	NR	650	506	NR	780	12	NR	910	0	NR
395	1	NR	525	603	NR	655	451	NR	785	10	NR	915	0	NR
400	3	NR	530	649	NR	660	399	NR	790	9	NR	920	0	NR
405	5	NR	535	687	NR	665	352	NR	795	8	NR	925	0	NR
410	11	NR	540	721	NR	670	307	NR	800	6	NR	930	0	NR
415	21	NR	545	751	NR	675	268	NR	805	6	NR	935	0	NR
420	43	NR	550	779	NR	680	234	NR	810	5	NR	940	0	NR
425	88	NR	555	811	NR	685	203	NR	815	4	NR	945	0	NR
430	163	NR	560	843	NR	690	176	NR	820	4	NR	950	0	NR
435	288	NR	565	873	NR	695	152	NR	825	3	NR	955	0	NR
440	416	NR	570	907	NR	700	131	NR	830	3	NR	960	0	NR
445	566	NR	575	938	NR	705	112	NR	835	3	NR	965	0	NR
450	810	NR	580	965	NR	710	96	NR	840	2	NR	970	0	NR
455	669	NR	585	986	NR	715	81	NR	845	2	NR	975	0	NR
460	338	NR	590	997	NR	720	69	NR	850	2	NR	980	0	NR
465	246	NR	595	997	NR	725	58	NR	855	1	NR	985	0	NR
470	182	NR	600	991	NR	730	49	NR	860	1	NR	990	0	NR
475	115	NR	605	968	NR	735	42	NR	865	1	NR	995	0	NR
480	97	NR	610	939	NR	740	37	NR	870	1	NR	1000	0	NR
485	103	NR	615	896	NR	745	32	NR	875	1	NR			

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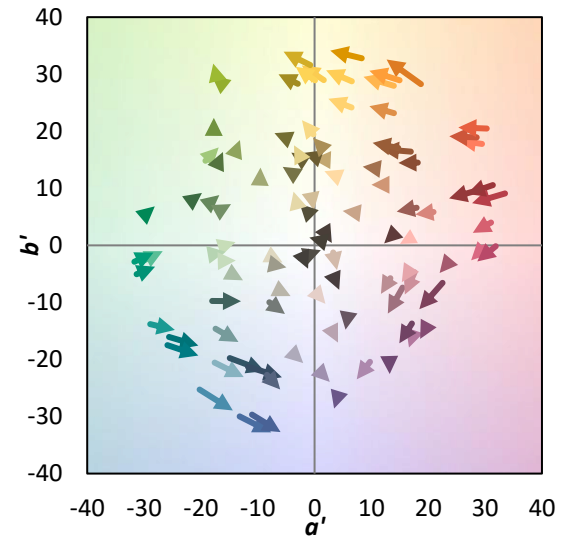
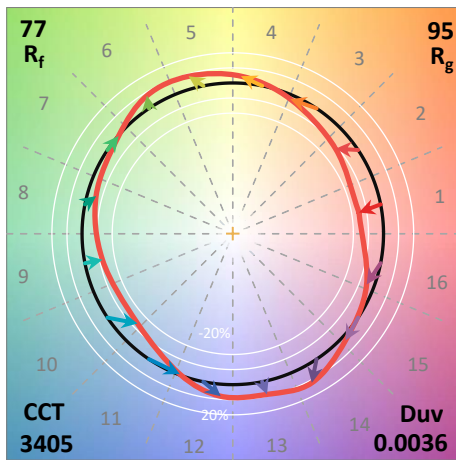
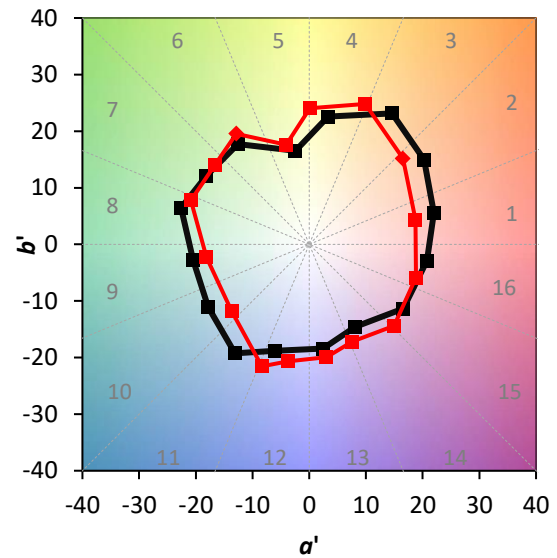
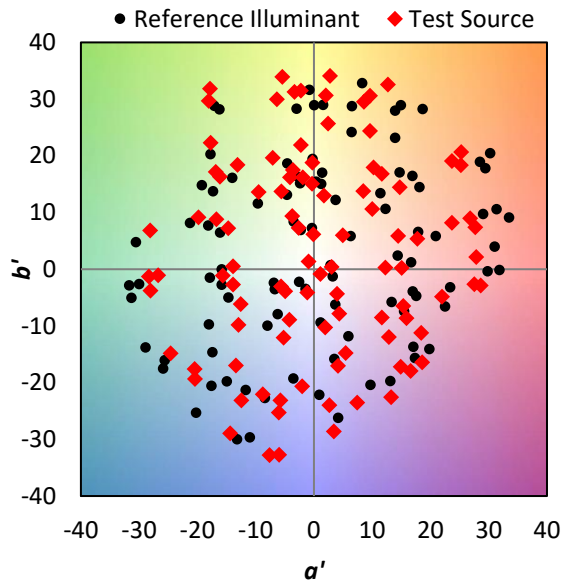
TM-30-18

Summary

$R_f = 76.6$
 $R_g = 95.4$
 $CIE R_a = 73.9$
 $R_g = -18.0$

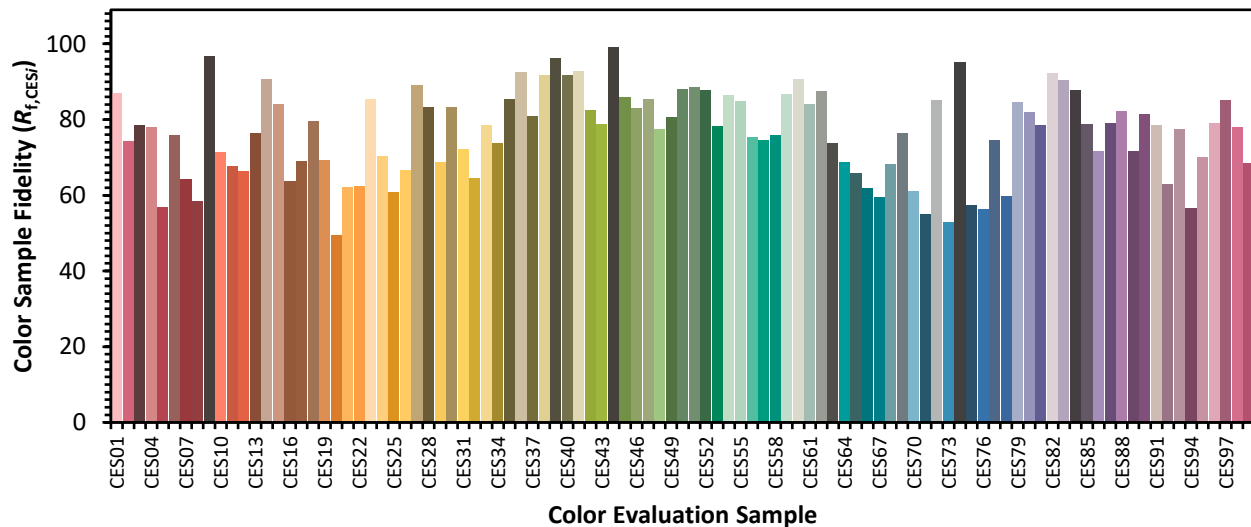


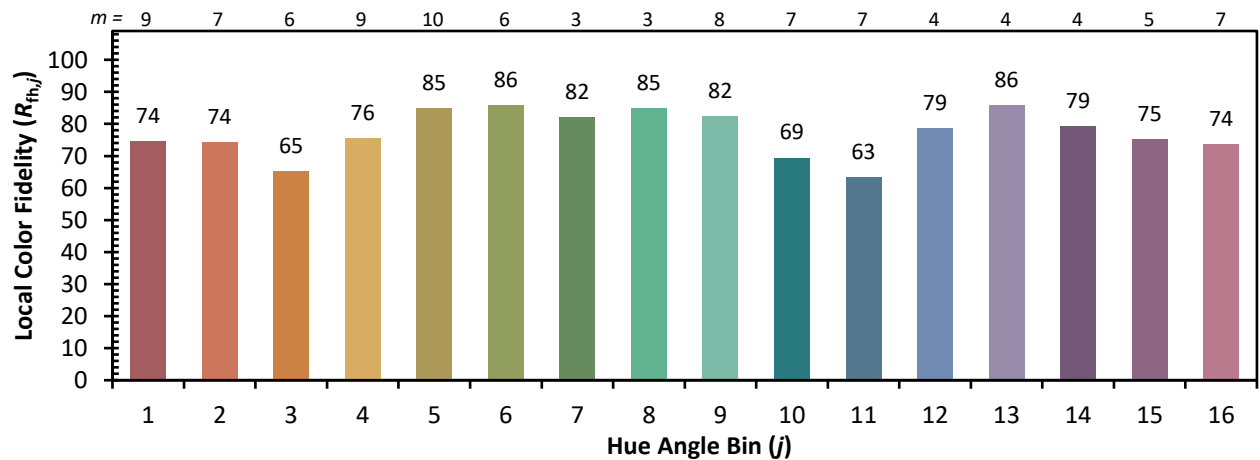
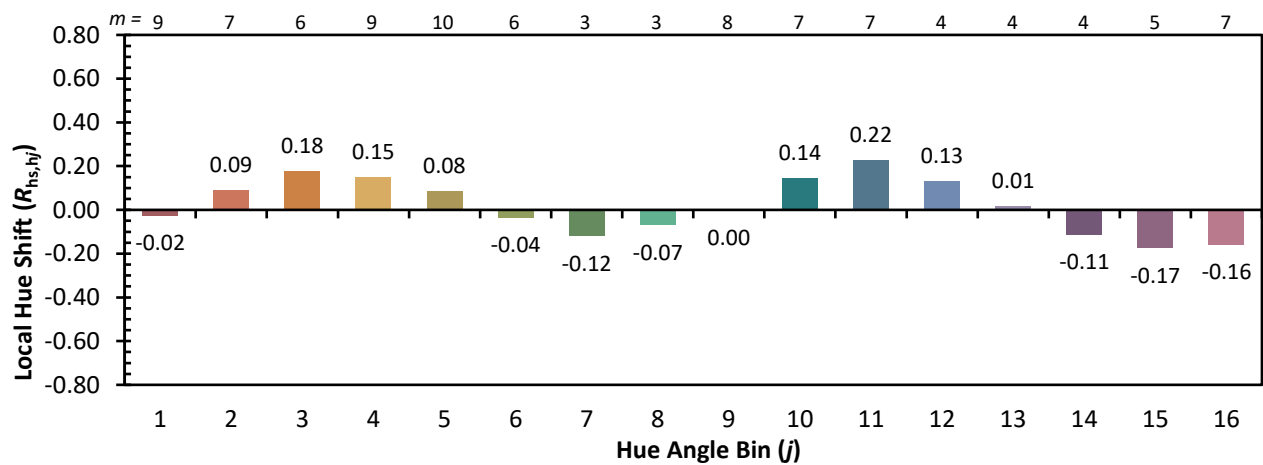
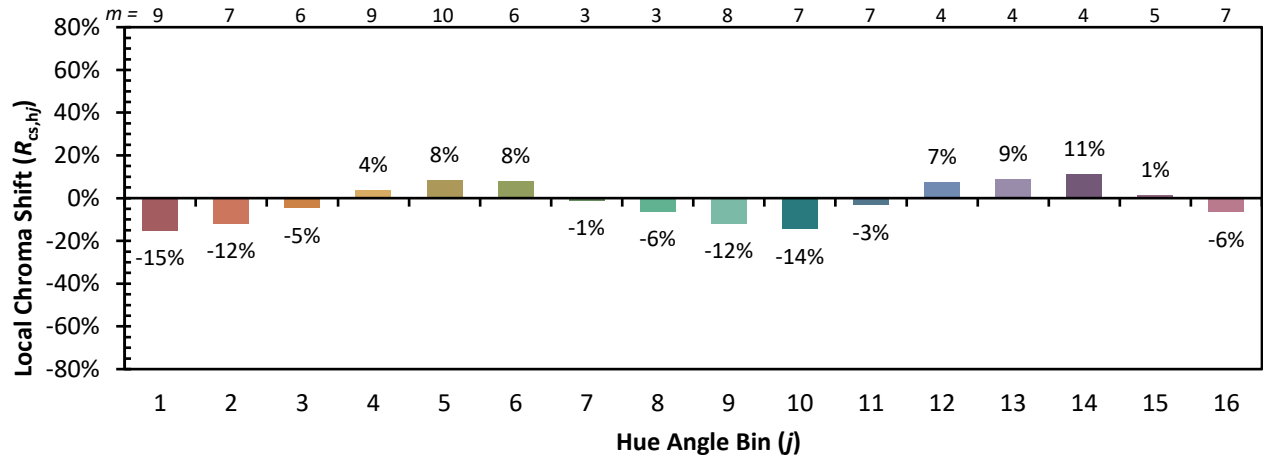
Color Vector Graphics



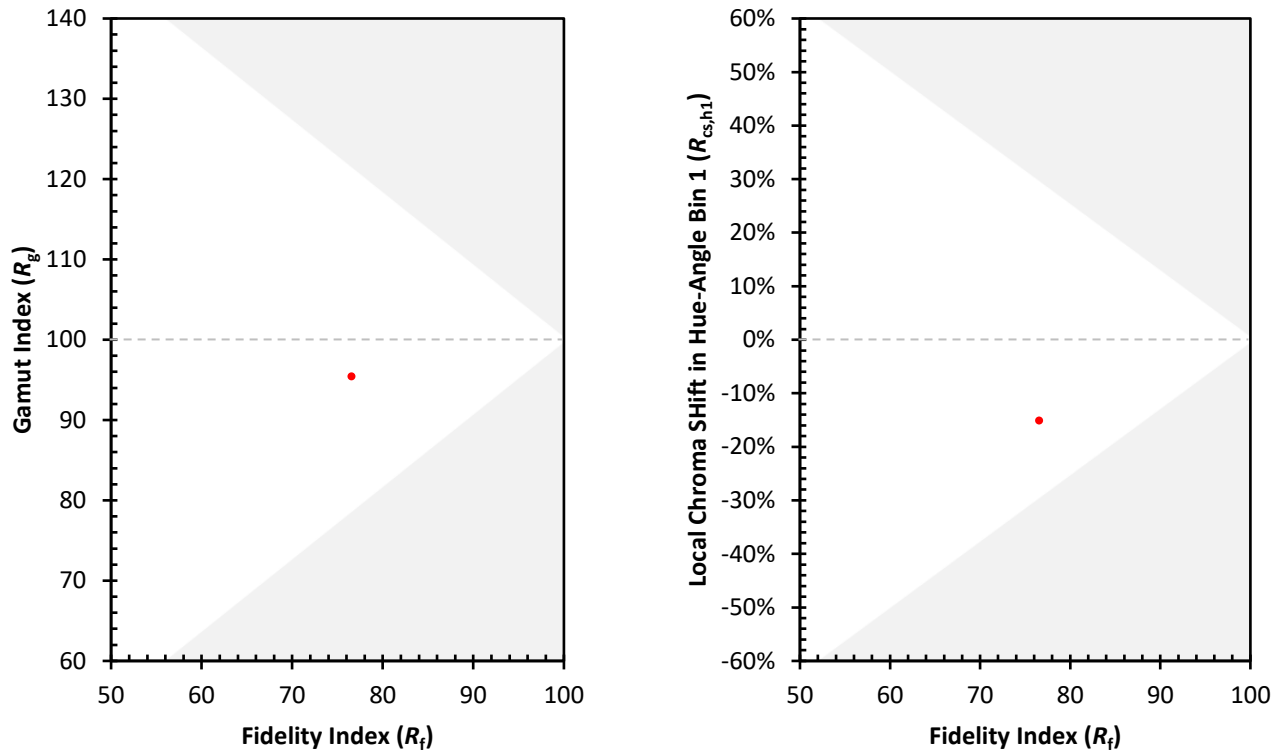
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 67	CES51 = 88	CES76 = 56
CES02 = 62	CES27 = 89	CES52 = 88	CES77 = 75
CES03 = 31	CES28 = 83	CES53 = 78	CES78 = 60
CES04 = 70	CES29 = 69	CES54 = 86	CES79 = 85
CES05 = 48	CES30 = 83	CES55 = 85	CES80 = 82
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 78
CES07 = 41	CES32 = 65	CES57 = 75	CES82 = 92
CES08 = 40	CES33 = 78	CES58 = 76	CES83 = 90
CES09 = 29	CES34 = 74	CES59 = 87	CES84 = 88
CES10 = 75	CES35 = 86	CES60 = 91	CES85 = 79
CES11 = 58	CES36 = 93	CES61 = 84	CES86 = 72
CES12 = 64	CES37 = 81	CES62 = 88	CES87 = 79
CES13 = 43	CES38 = 92	CES63 = 74	CES88 = 82
CES14 = 74	CES39 = 96	CES64 = 69	CES89 = 72
CES15 = 71	CES40 = 92	CES65 = 66	CES90 = 82
CES16 = 47	CES41 = 93	CES66 = 62	CES91 = 79
CES17 = 50	CES42 = 83	CES67 = 60	CES92 = 63
CES18 = 56	CES43 = 79	CES68 = 68	CES93 = 77
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 56
CES20 = 65	CES45 = 86	CES70 = 61	CES95 = 70
CES21 = 86	CES46 = 83	CES71 = 55	CES96 = 79
CES22 = 79	CES47 = 85	CES72 = 85	CES97 = 85
CES23 = 92	CES48 = 78	CES73 = 53	CES98 = 78
CES24 = 91	CES49 = 81	CES74 = 95	CES99 = 68
CES25 = 72	CES50 = 88	CES75 = 57	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)