

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: P1445187

Luminaire Tested: TPTN-VA2-750-U-CQ-GM

Issue Date: 05/21/2026

Test Information

Test Method: LM-79-2024
Report Number: P1445187
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: MCGRAW-EDISON
Catalog Number: TPTN-VA2-750-U-CQ-GM
Description: TOPTIER NANO SPIDER MOUNT VISUAL COMFORT LED LUMINAIRE 42W 70CRI 5000K w/
TYPE V CONCENTRATED DISTRIBUTION OPTIC
Light Source: 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4098.6 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

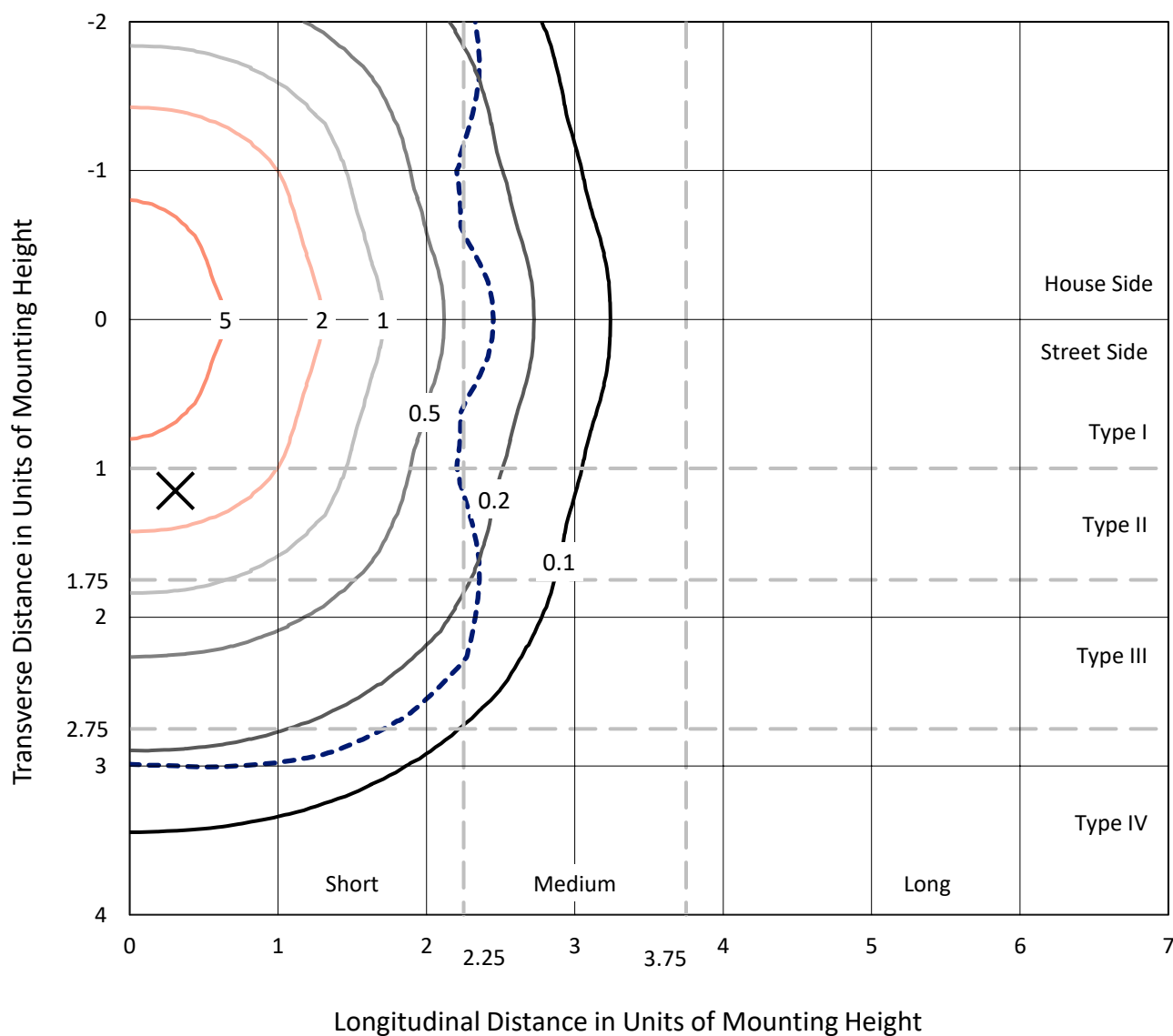
Input Watts (W): 42.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.98
Total Harmonic Distortion (THDi): 7.5%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1445187

CATALOG NUMBER: TPTN-VA2-750-U-CQ-GM

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

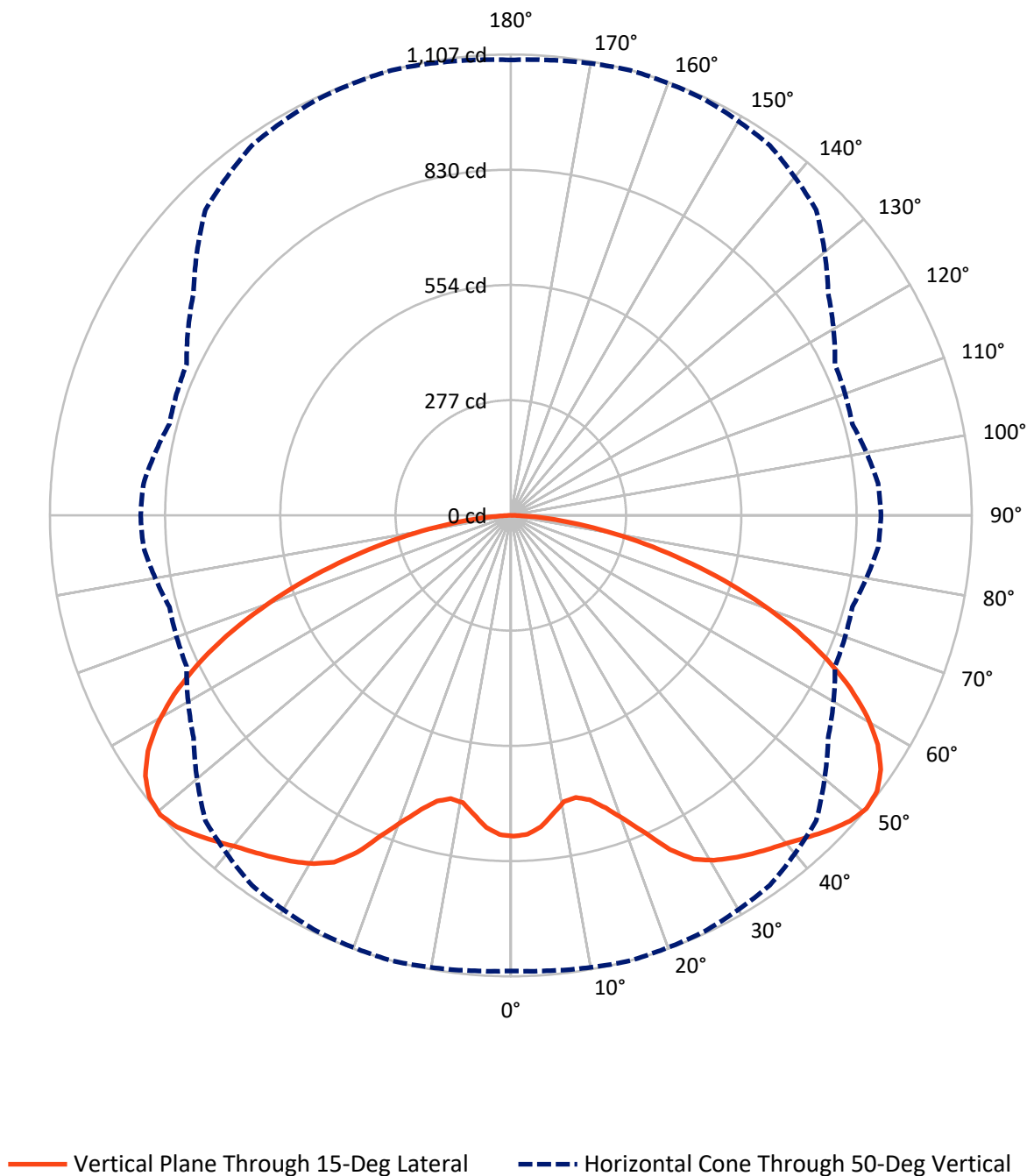


Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
Type V - Short - N/A

REPORT NUMBER: P1445187

CATALOG NUMBER: TPTN-VA2-750-U-CQ-GM

Luminous Intensity Polar Plot



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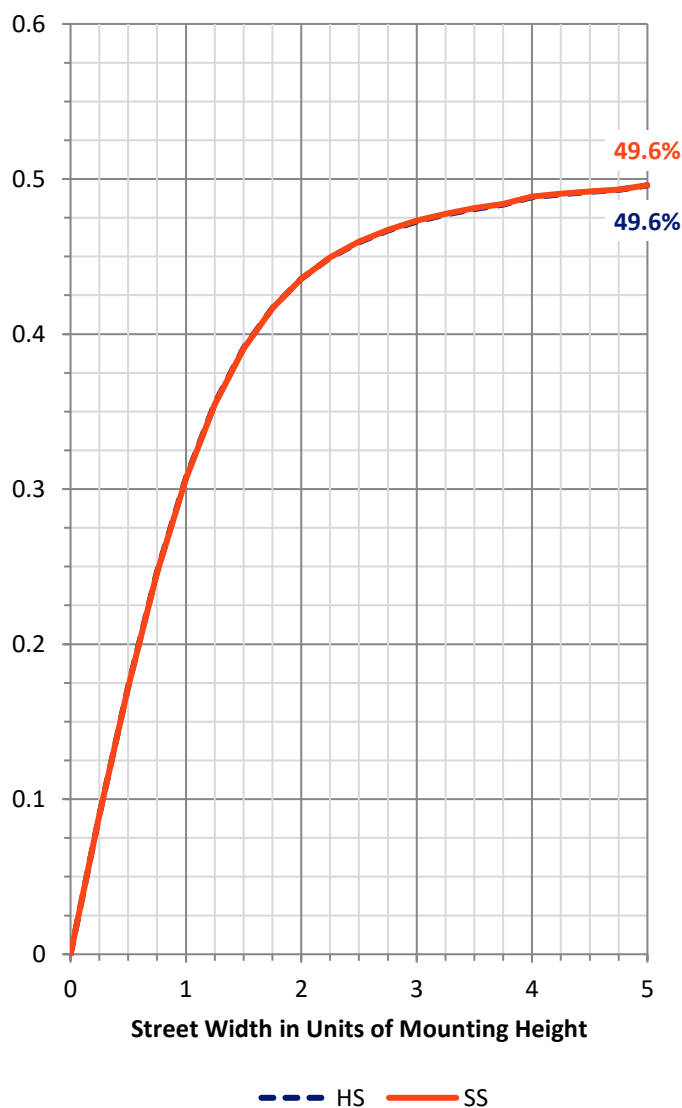
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2049.3	0.0	2049.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2049.3	0.0	2049.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	4098.6	0.0	4098.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	1.7
10°-20°	206.8	5.0
20°-30°	386.1	9.4
30°-40°	569.9	13.9
40°-50°	749.4	18.3
50°-60°	859.4	21.0
60°-70°	741.6	18.1
70°-80°	418.9	10.2
80°-90°	96.0	2.3
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°	4098.6	100.0
0°-180°	4098.6	100.0

Coefficient of Utilization



REPORT NUMBER: P1445187

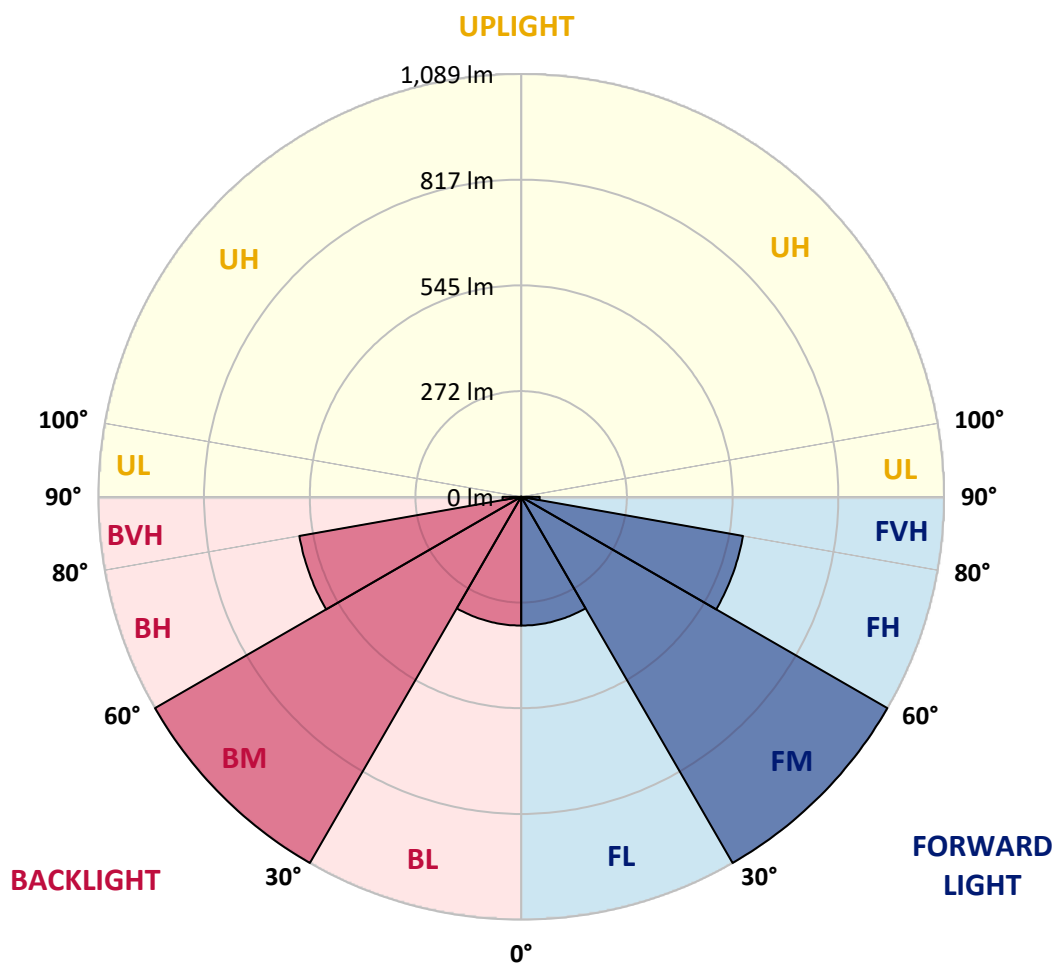
CATALOG NUMBER: TPTN-VA2-750-U-CQ-GM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	331.7	8.1			
FM	(30°-60°)	1089.4	26.6			
FH	(60°-80°)	580.3	14.2			G0/660
FVH	(80°-90°)	48.0	1.2			G1/100
BL	(0°-30°)	331.7	8.1	B1/500		
BM	(30°-60°)	1089.4	26.6	B2/2500		
BH	(60°-80°)	580.3	14.2	B2/1000		G0/660
BVH	(80°-90°)	48.0	1.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



REPORT NUMBER: P1445187

CATALOG NUMBER: TPTN-VA2-750-U-CQ-GM

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	770.5	770.5	770.5	770.5	770.5	770.5	770.5	770.5	770.5	770.5	770.5
2.5°	766.8	766.8	766.8	766.8	766.8	767.6	766.8	767.6	768.3	768.3	769.0
5°	751.6	750.9	751.6	751.6	753.0	754.5	755.9	757.4	759.6	760.3	760.3
7.5°	724.7	724.0	724.0	724.0	726.1	728.3	734.1	739.2	743.6	745.8	747.2
10°	700.7	700.7	699.3	697.8	698.5	702.2	708.7	717.4	724.7	729.8	730.5
12.5°	694.9	694.9	694.9	695.6	697.1	701.4	709.4	716.7	724.0	728.3	729.1
15°	705.8	707.2	708.7	713.8	716.0	716.7	721.1	726.9	732.7	737.8	738.5
17.5°	729.1	730.5	738.5	743.6	741.4	736.3	734.9	739.2	747.2	752.3	753.0
20°	775.6	774.1	779.2	780.7	772.7	759.6	751.6	753.8	763.2	771.2	771.9
22.5°	833.7	833.0	828.6	827.2	811.9	787.9	771.9	769.0	779.9	791.6	793.0
25°	897.7	896.2	889.0	875.2	851.9	819.2	795.2	785.7	795.2	809.7	811.9
27.5°	950.0	947.8	934.8	910.8	883.9	848.3	816.3	798.8	805.4	822.1	825.0
30°	986.4	984.2	960.9	929.7	904.2	865.0	828.6	807.6	814.1	831.5	834.4
32.5°	1016.2	1010.4	980.6	945.7	919.5	878.1	838.1	814.1	819.9	840.3	842.4
35°	1035.8	1027.8	998.0	963.1	933.3	891.9	846.8	820.6	825.0	846.1	849.7
37.5°	1047.4	1042.3	1014.7	980.6	950.0	908.6	855.5	826.5	830.1	852.6	856.3
40°	1057.6	1055.4	1032.2	1002.4	970.4	928.2	867.9	833.0	835.9	859.9	863.5
42.5°	1069.2	1069.2	1054.0	1027.8	997.3	954.4	884.6	842.4	842.4	870.1	873.7
45°	1082.3	1083.8	1076.5	1056.1	1029.3	984.2	902.8	852.6	849.7	880.2	883.9
47.5°	1092.5	1094.7	1096.8	1083.8	1061.2	1015.4	920.9	859.9	854.1	887.5	891.1
50°	1093.9	1097.6	1107.0	1101.9	1084.5	1037.2	930.4	859.2	849.0	885.3	889.0
52.5°	1080.9	1083.0	1101.2	1104.8	1092.5	1044.5	928.9	846.8	832.3	871.5	875.2
55°	1052.5	1055.4	1078.0	1088.9	1081.6	1035.1	913.7	822.1	803.9	844.6	848.3
57.5°	1007.4	1011.1	1039.4	1056.1	1052.5	1010.4	887.5	786.5	766.8	808.3	811.2
60°	951.5	955.8	984.2	1008.2	1008.9	971.1	848.3	742.9	717.4	759.6	763.2
62.5°	882.4	885.3	915.9	942.0	945.7	916.6	800.3	686.2	660.7	702.2	705.8
65°	801.7	803.9	834.4	863.5	870.8	846.8	735.6	624.4	596.0	634.6	636.7
67.5°	712.3	713.8	742.9	769.0	781.4	760.3	664.4	555.3	527.0	559.0	561.9
70°	611.3	618.6	641.1	666.5	677.4	662.9	583.0	479.0	452.1	480.5	483.4
72.5°	512.4	515.4	536.4	561.1	569.9	560.4	492.8	402.0	375.1	399.8	400.5
75°	412.9	412.9	428.9	450.7	463.0	457.2	400.5	322.0	301.7	317.6	318.4
77.5°	310.4	314.7	329.3	350.4	355.4	351.1	311.8	246.4	229.7	242.8	243.5
80°	222.4	222.4	234.8	247.9	256.6	252.2	225.3	178.1	162.8	171.5	168.6
82.5°	140.3	141.7	148.3	160.6	165.7	165.0	148.3	116.3	106.1	108.3	103.9
85°	73.4	73.4	79.2	86.5	90.9	91.6	84.3	66.9	58.9	56.0	49.4
87.5°	21.8	22.5	25.4	30.5	34.2	35.6	34.9	29.8	26.2	18.9	10.9
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: SP1-2411-284-3

Test Date: 11/21/2024

Luminaire Tested: TTN-D0-750-U-WQ

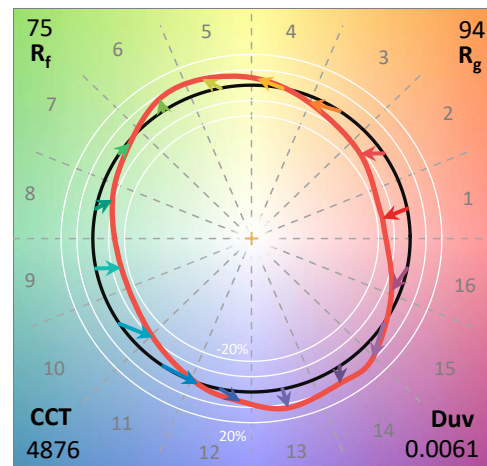
Data in this report applies to families of products including TTN-D0-750-U-WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2411-284-3
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 11/21/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **TTN-D0-750-U-WQ**
 Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE. 5000K, 70 CRI LEDS AND WIDE DISTRIBUTION

Spectral Parameters

CCT (K):	4876	CRI (Ra):	72.6		
CIE u':	0.2086	R1:	69.5	R9:	-24.6
CIE v':	0.4932	R2:	77.0	R10:	44.8
Duv:	0.0061	R3:	82.2	R11:	68.2
CIE x:	0.3502	R4:	72.6	R12:	36.1
CIE y:	0.3680	R5:	69.3	R13:	70.5
CIE z:	0.2818	R6:	67.6	R14:	89.9
Peak Wavelength (nm):	451	R7:	83.7	R15:	63.1
Dominant Wavelength (nm):	569	R8:	58.6		
Purity:	15.51324				
Rf:	74.6				
Rg:	94.4				



Test Conditions

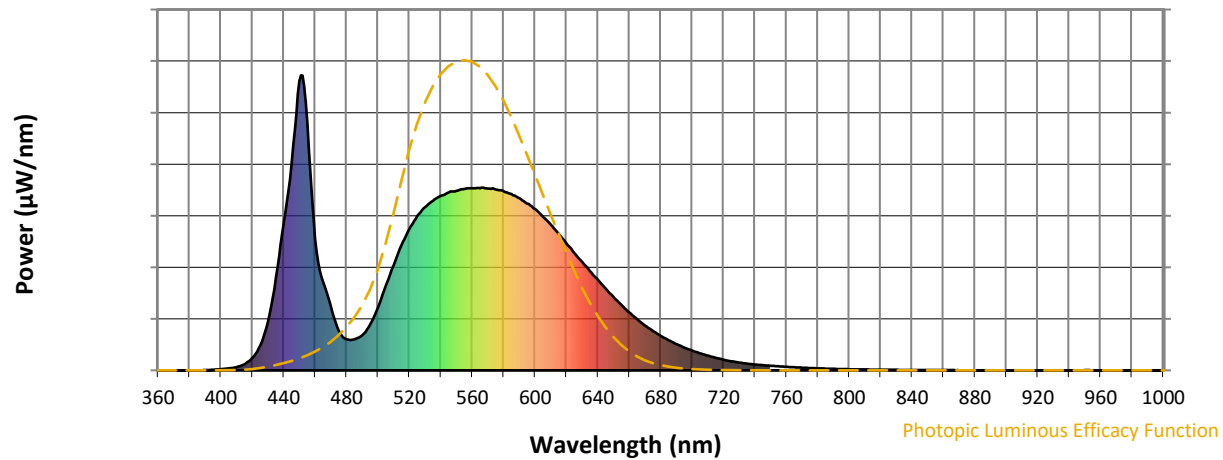
Stabilization Time: 51M
 Operation Time: 1H 51M
 Sphere Temperature (°C): 24.9

REPORT NUMBER: SP1-2411-284-3

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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Photopic Flux vs. Wavelength

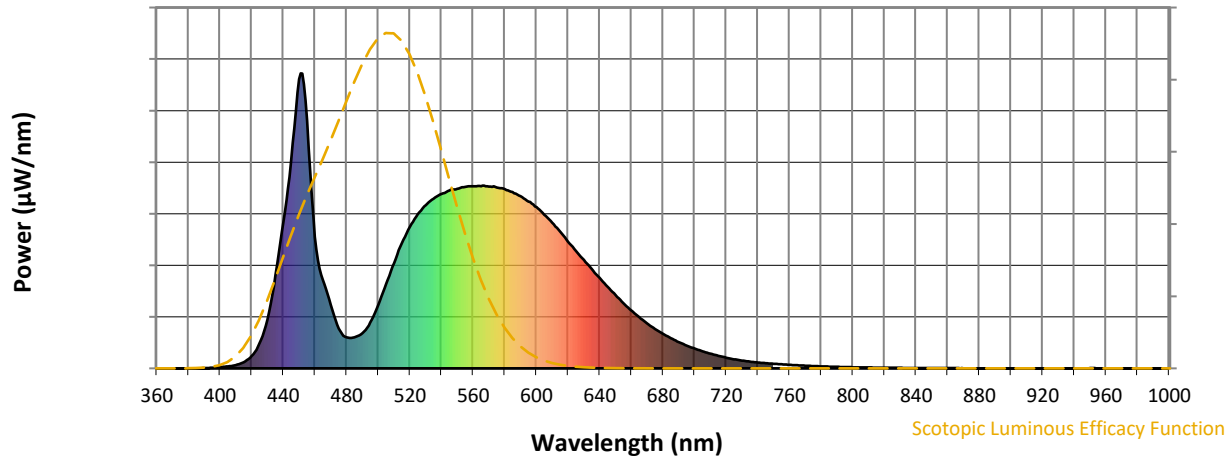


Photopic Lumens: NR

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	119	NR	620	430	NR	750	16	NR	880	0	NR
365	0	NR	495	156	NR	625	398	NR	755	14	NR	885	0	NR
370	0	NR	500	214	NR	630	368	NR	760	12	NR	890	0	NR
375	0	NR	505	286	NR	635	336	NR	765	11	NR	895	0	NR
380	0	NR	510	357	NR	640	306	NR	770	9	NR	900	0	NR
385	0	NR	515	425	NR	645	276	NR	775	8	NR	905	0	NR
390	1	NR	520	480	NR	650	248	NR	780	7	NR	910	0	NR
395	2	NR	525	523	NR	655	221	NR	785	6	NR	915	0	NR
400	4	NR	530	554	NR	660	196	NR	790	5	NR	920	0	NR
405	7	NR	535	575	NR	665	173	NR	795	4	NR	925	0	NR
410	11	NR	540	592	NR	670	152	NR	800	4	NR	930	0	NR
415	21	NR	545	603	NR	675	133	NR	805	3	NR	935	0	NR
420	42	NR	550	609	NR	680	117	NR	810	3	NR	940	0	NR
425	85	NR	555	615	NR	685	102	NR	815	3	NR	945	0	NR
430	165	NR	560	617	NR	690	89	NR	820	2	NR	950	1	NR
435	316	NR	565	617	NR	695	77	NR	825	2	NR	955	0	NR
440	497	NR	570	616	NR	700	67	NR	830	2	NR	960	0	NR
445	702	NR	575	613	NR	705	58	NR	835	2	NR	965	0	NR
450	981	NR	580	607	NR	710	50	NR	840	1	NR	970	0	NR
455	840	NR	585	598	NR	715	43	NR	845	1	NR	975	0	NR
460	446	NR	590	583	NR	720	36	NR	850	1	NR	980	0	NR
465	300	NR	595	566	NR	725	31	NR	855	1	NR	985	0	NR
470	215	NR	600	546	NR	730	26	NR	860	1	NR	990	0	NR
475	135	NR	605	521	NR	735	23	NR	865	1	NR	995	0	NR
480	105	NR	610	494	NR	740	20	NR	870	1	NR	1000	0	NR
485	106	NR	615	463	NR	745	18	NR	875	0	NR			

REPORT NUMBER: SP1-2411-284-3

Scotopic Flux vs. Wavelength



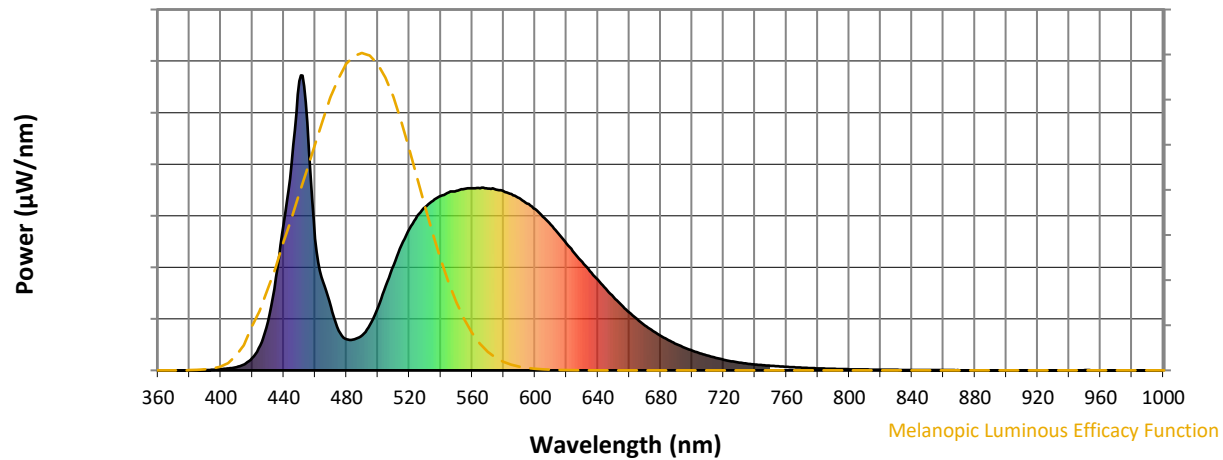
Scotopic Lumens: NR

S/P: 1.74

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	430	NR	750	16	NR	880	0	NR
365	0	NR	495	156	NR	625	398	NR	755	14	NR	885	0	NR
370	0	NR	500	214	NR	630	368	NR	760	12	NR	890	0	NR
375	0	NR	505	286	NR	635	336	NR	765	11	NR	895	0	NR
380	0	NR	510	357	NR	640	306	NR	770	9	NR	900	0	NR
385	0	NR	515	425	NR	645	276	NR	775	8	NR	905	0	NR
390	1	NR	520	480	NR	650	248	NR	780	7	NR	910	0	NR
395	2	NR	525	523	NR	655	221	NR	785	6	NR	915	0	NR
400	4	NR	530	554	NR	660	196	NR	790	5	NR	920	0	NR
405	7	NR	535	575	NR	665	173	NR	795	4	NR	925	0	NR
410	11	NR	540	592	NR	670	152	NR	800	4	NR	930	0	NR
415	21	NR	545	603	NR	675	133	NR	805	3	NR	935	0	NR
420	42	NR	550	609	NR	680	117	NR	810	3	NR	940	0	NR
425	85	NR	555	615	NR	685	102	NR	815	3	NR	945	0	NR
430	165	NR	560	617	NR	690	89	NR	820	2	NR	950	1	NR
435	316	NR	565	617	NR	695	77	NR	825	2	NR	955	0	NR
440	497	NR	570	616	NR	700	67	NR	830	2	NR	960	0	NR
445	702	NR	575	613	NR	705	58	NR	835	2	NR	965	0	NR
450	981	NR	580	607	NR	710	50	NR	840	1	NR	970	0	NR
455	840	NR	585	598	NR	715	43	NR	845	1	NR	975	0	NR
460	446	NR	590	583	NR	720	36	NR	850	1	NR	980	0	NR
465	300	NR	595	566	NR	725	31	NR	855	1	NR	985	0	NR
470	215	NR	600	546	NR	730	26	NR	860	1	NR	990	0	NR
475	135	NR	605	521	NR	735	23	NR	865	1	NR	995	0	NR
480	105	NR	610	494	NR	740	20	NR	870	1	NR	1000	0	NR
485	106	NR	615	463	NR	745	18	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.51

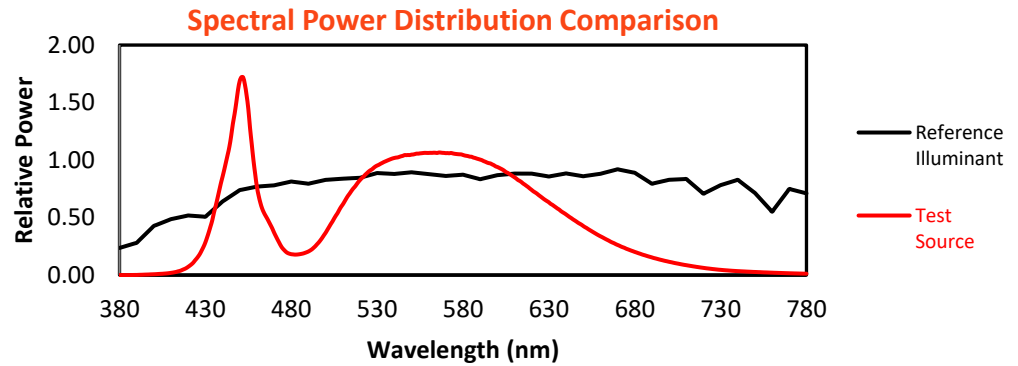
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	430	NR	750	16	NR	880	0	NR
365	0	NR	495	156	NR	625	398	NR	755	14	NR	885	0	NR
370	0	NR	500	214	NR	630	368	NR	760	12	NR	890	0	NR
375	0	NR	505	286	NR	635	336	NR	765	11	NR	895	0	NR
380	0	NR	510	357	NR	640	306	NR	770	9	NR	900	0	NR
385	0	NR	515	425	NR	645	276	NR	775	8	NR	905	0	NR
390	1	NR	520	480	NR	650	248	NR	780	7	NR	910	0	NR
395	2	NR	525	523	NR	655	221	NR	785	6	NR	915	0	NR
400	4	NR	530	554	NR	660	196	NR	790	5	NR	920	0	NR
405	7	NR	535	575	NR	665	173	NR	795	4	NR	925	0	NR
410	11	NR	540	592	NR	670	152	NR	800	4	NR	930	0	NR
415	21	NR	545	603	NR	675	133	NR	805	3	NR	935	0	NR
420	42	NR	550	609	NR	680	117	NR	810	3	NR	940	0	NR
425	85	NR	555	615	NR	685	102	NR	815	3	NR	945	0	NR
430	165	NR	560	617	NR	690	89	NR	820	2	NR	950	1	NR
435	316	NR	565	617	NR	695	77	NR	825	2	NR	955	0	NR
440	497	NR	570	616	NR	700	67	NR	830	2	NR	960	0	NR
445	702	NR	575	613	NR	705	58	NR	835	2	NR	965	0	NR
450	981	NR	580	607	NR	710	50	NR	840	1	NR	970	0	NR
455	840	NR	585	598	NR	715	43	NR	845	1	NR	975	0	NR
460	446	NR	590	583	NR	720	36	NR	850	1	NR	980	0	NR
465	300	NR	595	566	NR	725	31	NR	855	1	NR	985	0	NR
470	215	NR	600	546	NR	730	26	NR	860	1	NR	990	0	NR
475	135	NR	605	521	NR	735	23	NR	865	1	NR	995	0	NR
480	105	NR	610	494	NR	740	20	NR	870	1	NR	1000	0	NR
485	106	NR	615	463	NR	745	18	NR	875	0	NR			

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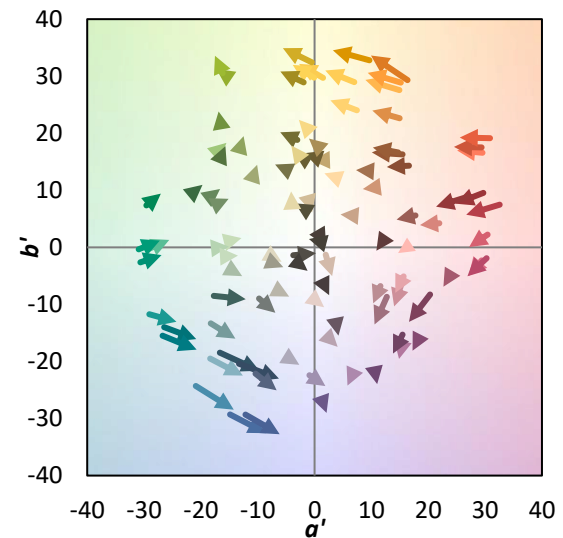
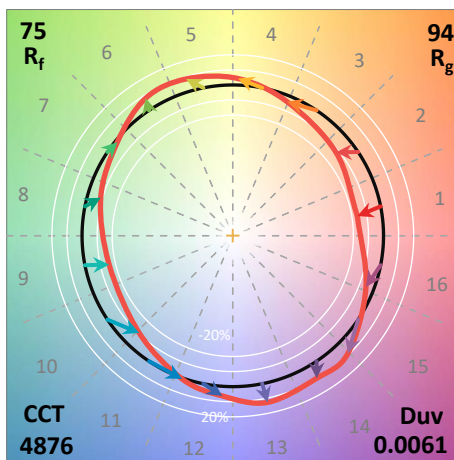
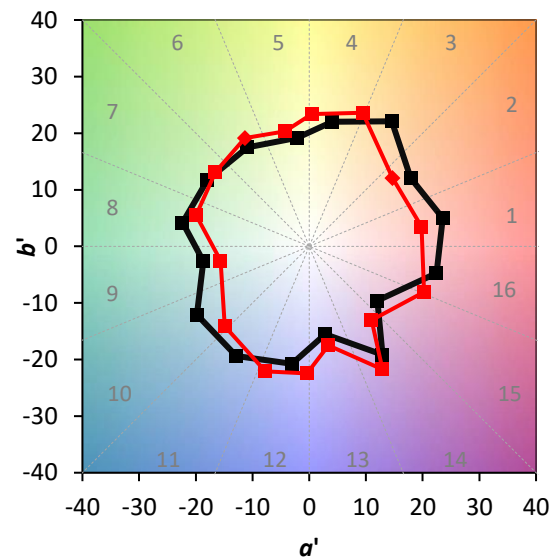
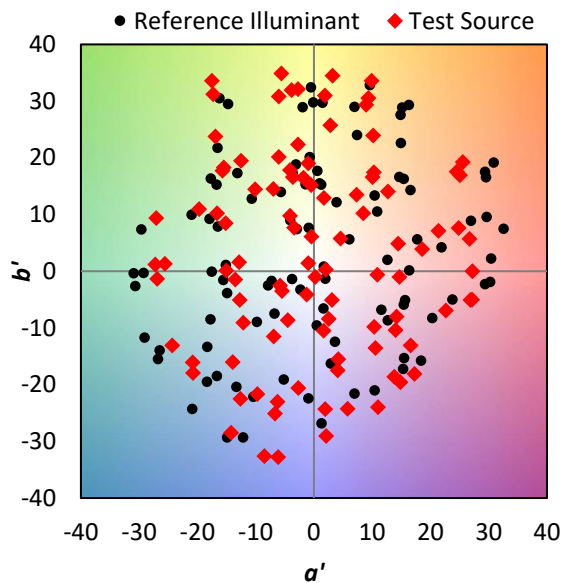
TM-30-18

Summary

$R_f = 74.6$
 $R_g = 94.4$
 $\text{CIE } R_a = 72.6$
 $R_g = -24.6$

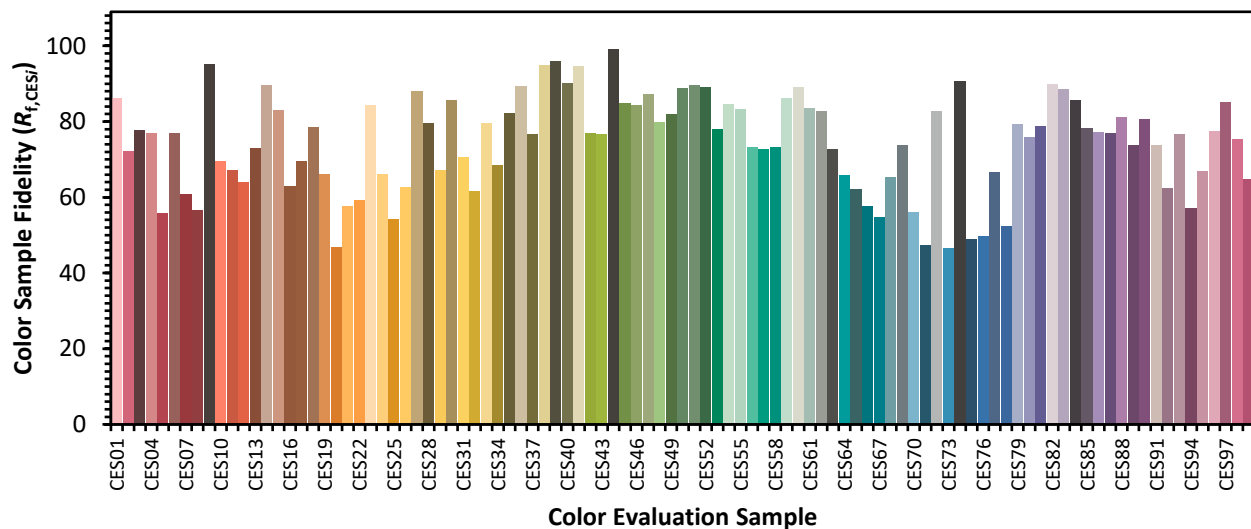


Color Vector Graphics

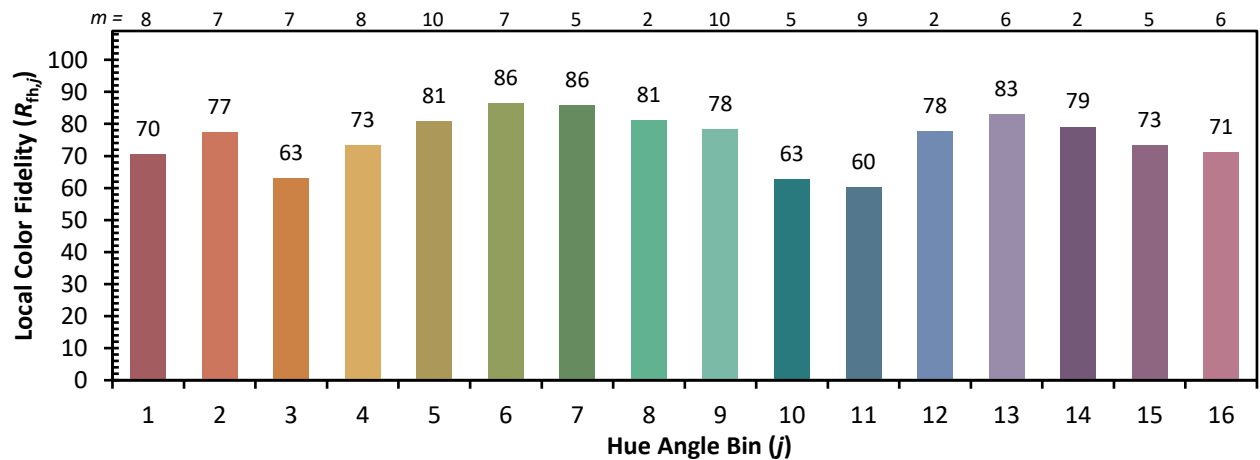
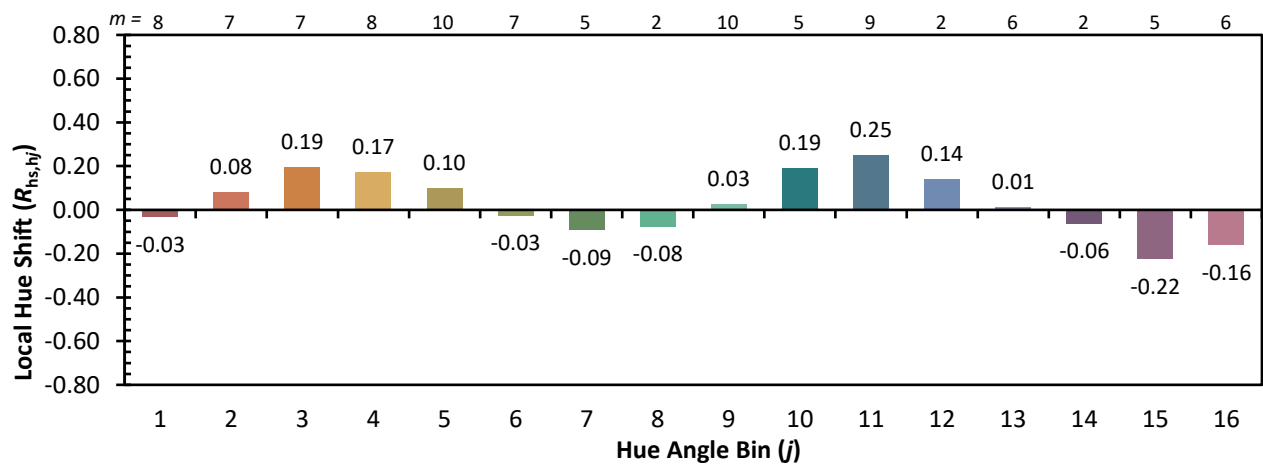
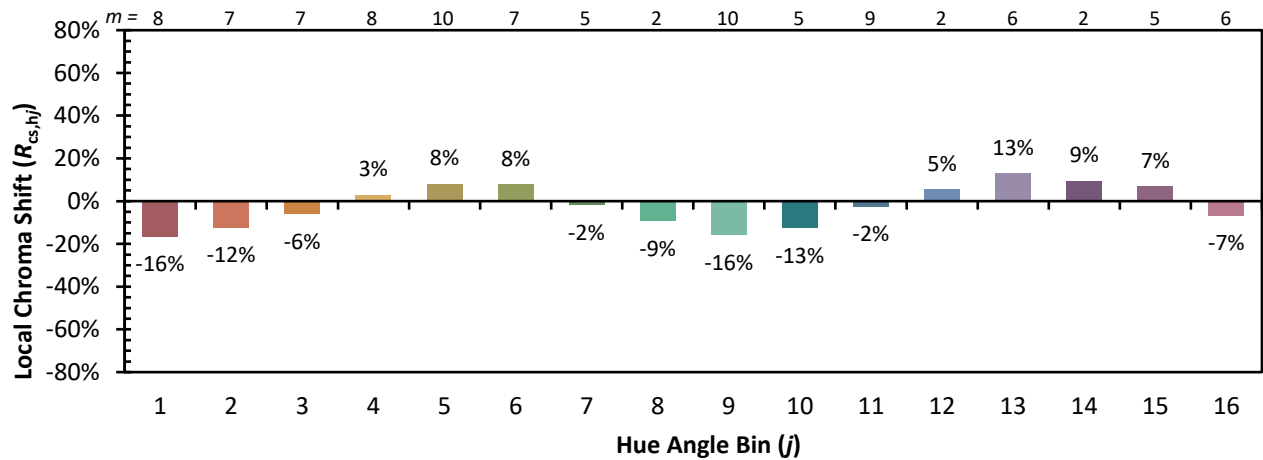


Individual Sample Fidelity Index ($R_{f,i}$)

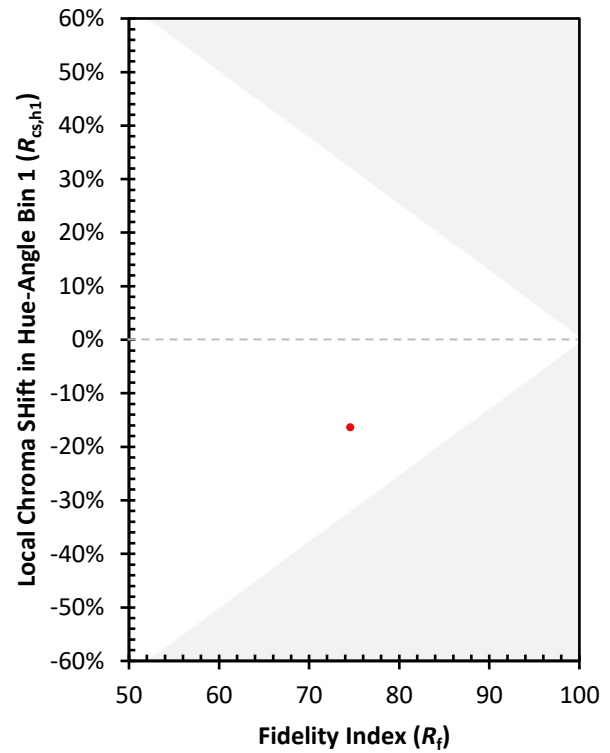
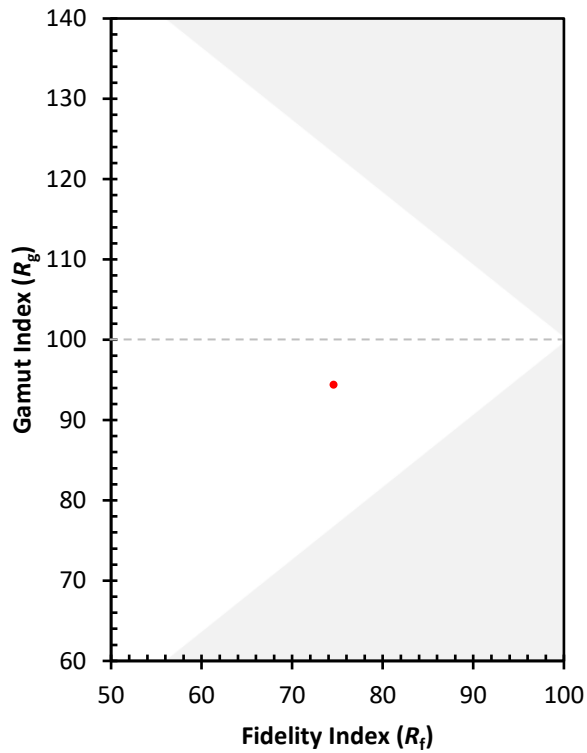
CES01 = 85	CES26 = 63	CES51 = 90	CES76 = 50
CES02 = 59	CES27 = 88	CES52 = 89	CES77 = 67
CES03 = 30	CES28 = 80	CES53 = 78	CES78 = 52
CES04 = 69	CES29 = 67	CES54 = 85	CES79 = 79
CES05 = 46	CES30 = 86	CES55 = 83	CES80 = 76
CES06 = 50	CES31 = 70	CES56 = 73	CES81 = 79
CES07 = 39	CES32 = 62	CES57 = 73	CES82 = 90
CES08 = 38	CES33 = 80	CES58 = 73	CES83 = 89
CES09 = 29	CES34 = 69	CES59 = 86	CES84 = 86
CES10 = 72	CES35 = 82	CES60 = 89	CES85 = 78
CES11 = 55	CES36 = 89	CES61 = 83	CES86 = 77
CES12 = 61	CES37 = 77	CES62 = 83	CES87 = 77
CES13 = 41	CES38 = 95	CES63 = 73	CES88 = 81
CES14 = 74	CES39 = 96	CES64 = 66	CES89 = 74
CES15 = 70	CES40 = 90	CES65 = 62	CES90 = 81
CES16 = 46	CES41 = 95	CES66 = 58	CES91 = 74
CES17 = 49	CES42 = 77	CES67 = 55	CES92 = 62
CES18 = 55	CES43 = 77	CES68 = 65	CES93 = 77
CES19 = 71	CES44 = 99	CES69 = 74	CES94 = 57
CES20 = 64	CES45 = 85	CES70 = 56	CES95 = 67
CES21 = 85	CES46 = 84	CES71 = 47	CES96 = 77
CES22 = 77	CES47 = 87	CES72 = 83	CES97 = 85
CES23 = 91	CES48 = 80	CES73 = 46	CES98 = 75
CES24 = 90	CES49 = 82	CES74 = 91	CES99 = 65
CES25 = 71	CES50 = 89	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)