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: P832501

Luminaire Tested: **TTN-D0-735-U-DL-CG**

Issue Date: 5/14/2024

Report Generated By 670246001

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P832501
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-15)
Test Lab:	INNOVATION CENTER
Issue Date:	5/14/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TTN-D0-735-U-DL-CG
Description:	TOPTIER NANO LED PARKING GARAGE LUMINAIRE
	3500K, 70 CRI LEDS AND DRIVE LANE DISTRIBUTION WITH CLEAR GLASS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1083 lumens
Efficiency:	N/A
Efficacy:	101.2 lumens/watt
Luminous Opening:	Circular (Dia: 0.71' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B0 - U0 - G1

Input Watts (W):	10.7
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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REPORT NUMBER: P832501
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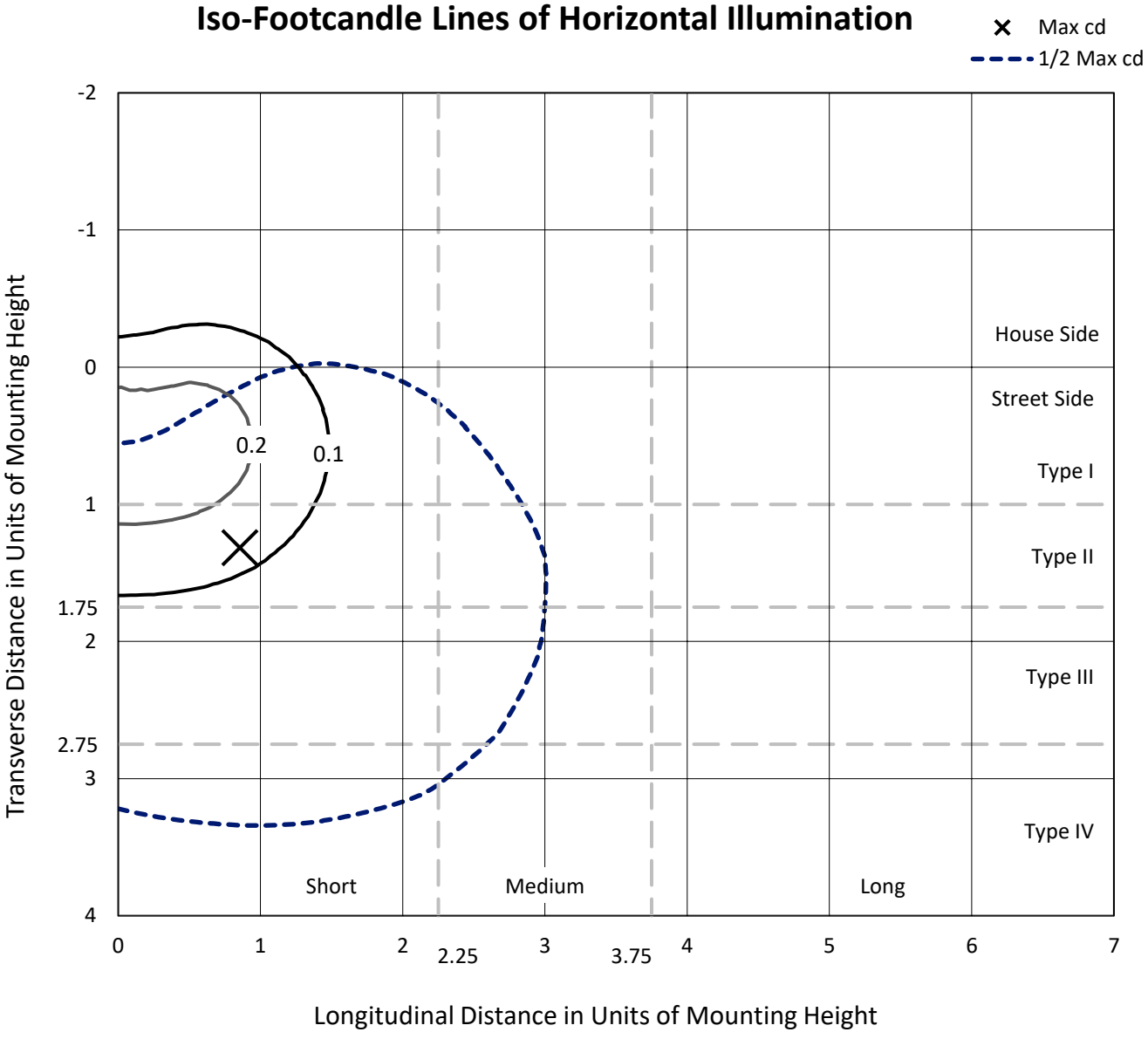
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 0.3 fc
Type IV - Short - N/A

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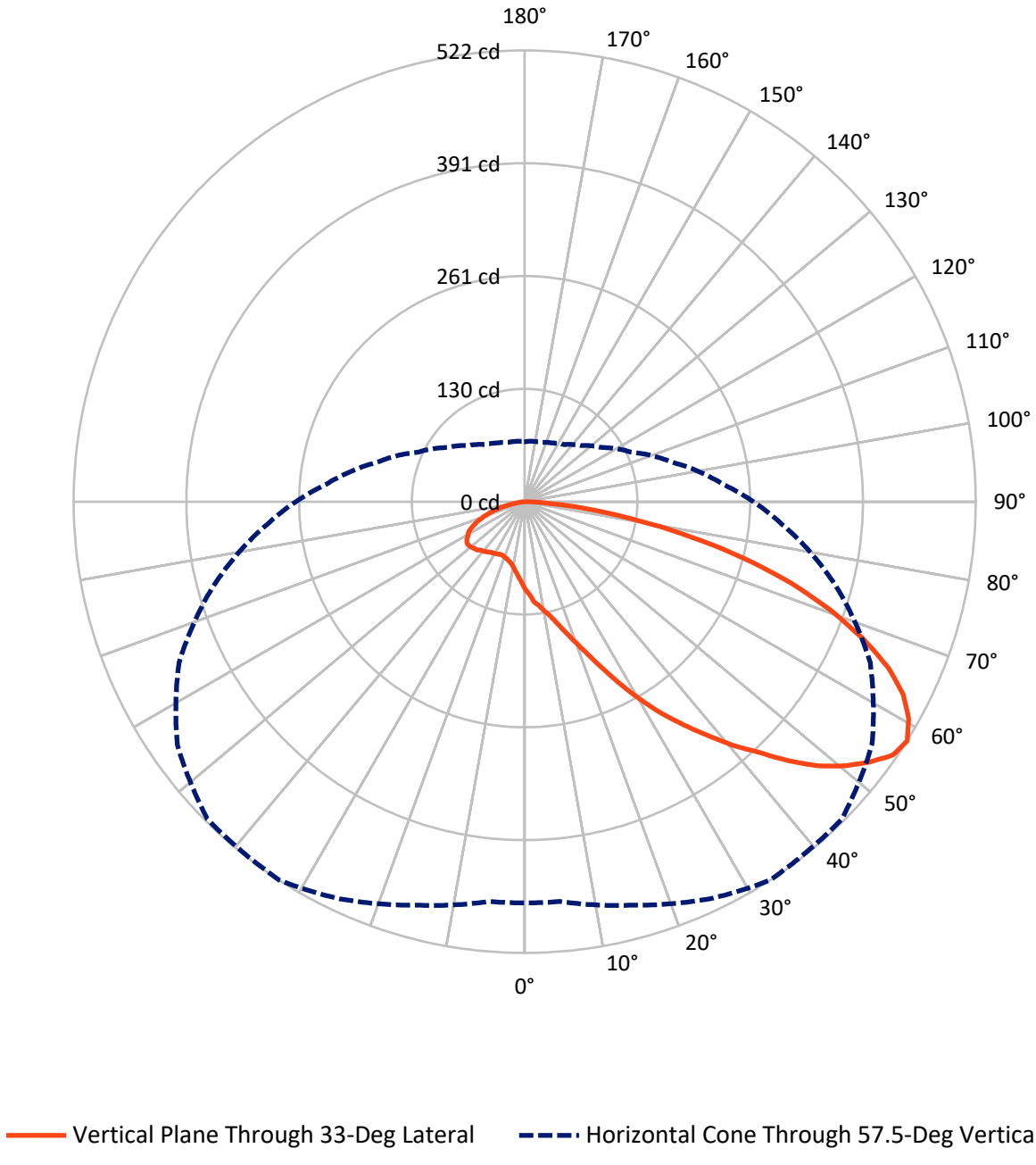
Luminous Intensity Polar Plot



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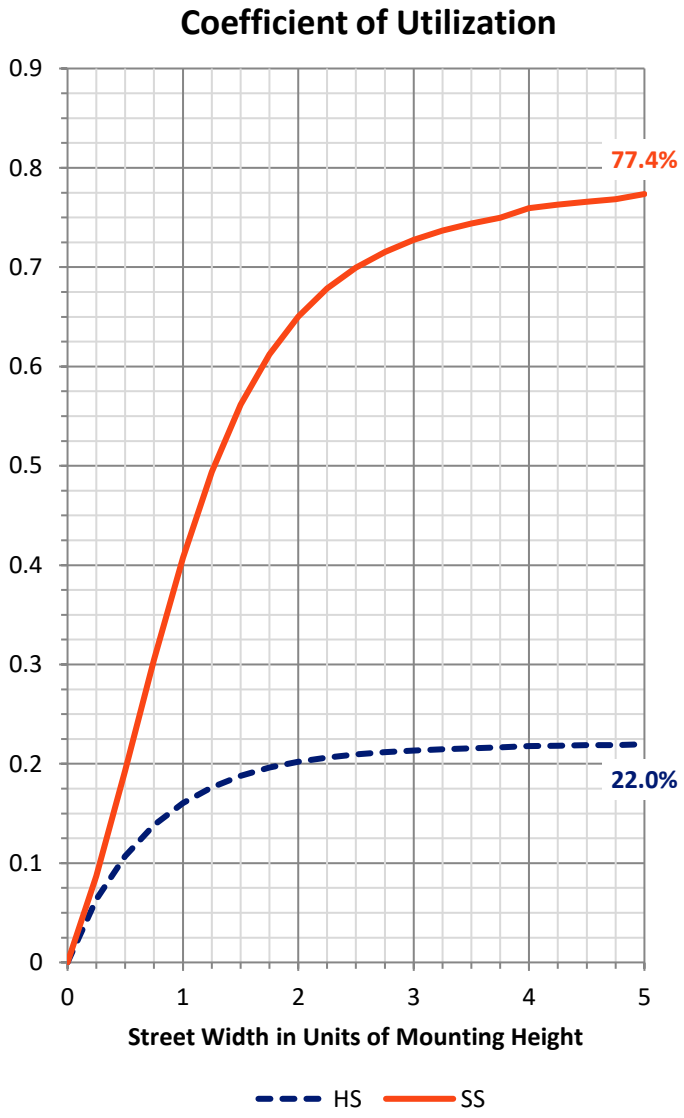
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	239.0	0.0	239.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	844.0	0.0	844.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	1083.0	0.0	1083.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.7	0.9
10°-20°	31.5	2.9
20°-30°	66.4	6.1
30°-40°	120.6	11.1
40°-50°	190.6	17.6
50°-60°	253.1	23.4
60°-70°	243.6	22.5
70°-80°	143.0	13.2
80°-90°	24.5	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°	1083.0	100.0
0°-180°	1083.0	100.0



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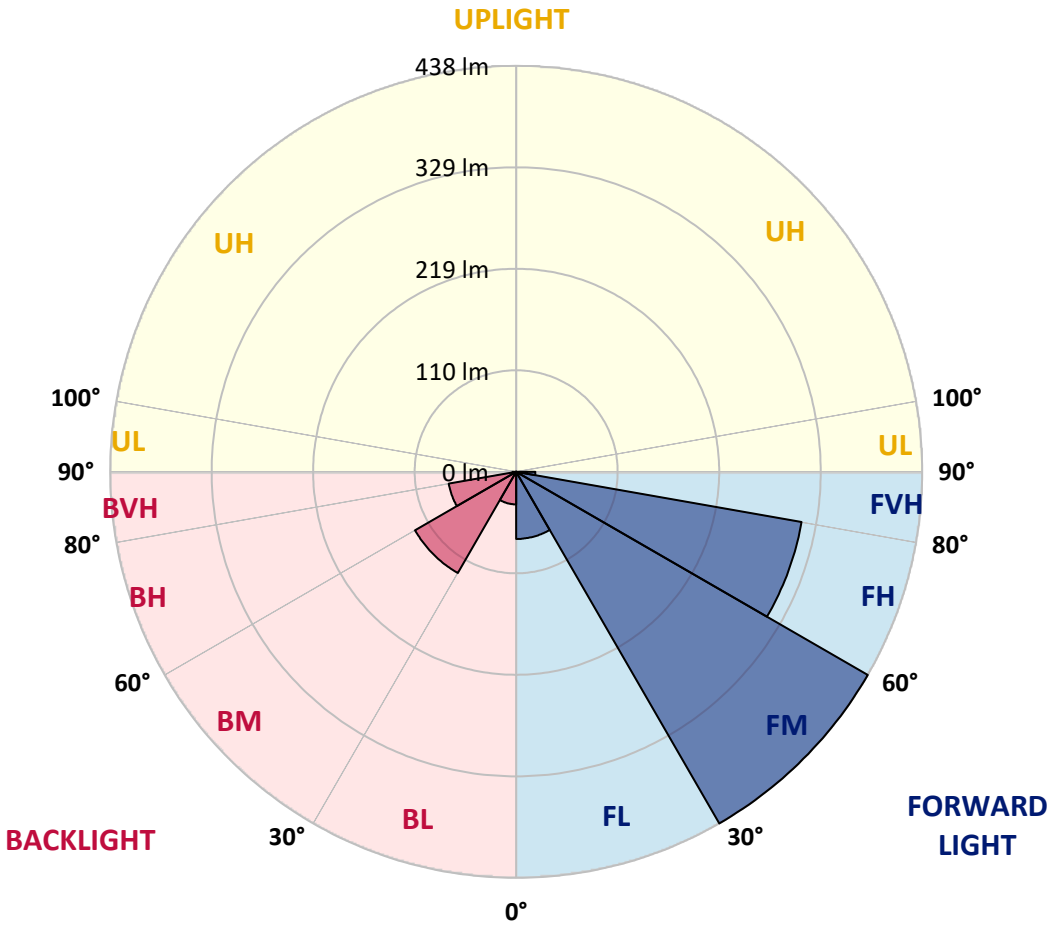
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	72.5	6.7			
FM	(30°-60°)	438.1	40.5			
FH	(60°-80°)	312.7	28.9			G0/660
FVH	(80°-90°)	20.7	1.9			G1/100
BL	(0°-30°)	35.2	3.2	B0/110		
BM	(30°-60°)	126.1	11.6	B0/220		
BH	(60°-80°)	73.9	6.8	B0/110		G0/110
BVH	(80°-90°)	3.8	0.4			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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	101.5	101.5	101.5	101.5	*101.5*	101.5	101.5	101.5	101.5	101.5	101.5
2.5°	108.1	109.1	108.1	108.1	*107.2*	107.2	106.2	105.3	104.3	103.4	101.5
5°	120.5	120.5	119.5	117.6	*116.7*	115.7	113.8	111.0	109.1	106.2	103.4
7.5°	126.2	126.2	125.2	123.3	*121.4*	120.5	117.6	113.8	111.0	107.2	103.4
10°	133.8	134.7	132.8	130.9	*129.0*	128.1	124.3	119.5	114.8	110.0	104.3
12.5°	142.3	143.2	142.3	139.4	*136.6*	135.7	131.9	126.2	120.5	113.8	107.2
15°	153.7	155.6	152.7	150.8	*148.0*	147.0	142.3	135.7	129.0	120.5	111.9
17.5°	167.0	167.9	166.0	163.2	*161.3*	160.3	155.6	148.0	138.5	129.0	118.6
20°	182.1	183.1	182.1	178.3	*176.4*	175.5	170.8	162.2	150.8	140.4	127.1
22.5°	200.2	202.1	199.2	196.4	*194.5*	194.5	188.8	179.3	166.0	152.7	137.6
25°	221.0	223.9	220.1	218.2	*216.3*	215.3	210.6	199.2	184.0	167.9	148.9
27.5°	246.6	248.5	245.7	244.7	*241.0*	241.0	233.4	220.1	204.0	185.0	163.2
30°	269.4	271.3	269.4	269.4	*266.6*	265.6	258.0	244.7	224.8	202.1	175.5
32.5°	291.2	293.1	292.2	293.1	*292.2*	291.2	281.7	267.5	247.6	218.2	187.8
35°	313.0	315.9	314.9	317.8	*316.8*	315.9	308.3	291.2	267.5	238.1	201.1
37.5°	335.8	338.7	338.7	341.5	*342.5*	342.5	333.9	315.9	289.3	256.1	216.3
40°	360.5	363.3	363.3	368.1	*370.0*	370.0	360.5	342.5	313.0	276.1	232.4
42.5°	384.2	387.0	388.0	392.7	*395.6*	396.5	388.9	368.1	333.9	296.0	247.6
45°	407.0	409.8	412.7	422.1	*426.9*	425.9	420.2	398.4	360.5	316.8	263.7
47.5°	428.8	432.6	437.3	449.7	*456.3*	455.3	451.5	426.9	385.1	336.8	277.9
50°	445.9	448.7	458.2	471.5	*480.0*	481.0	475.3	451.5	406.0	351.9	288.4
52.5°	459.1	462.9	474.3	493.3	*499.9*	502.8	496.1	472.4	426.9	365.2	296.9
55°	468.6	468.6	485.7	507.5	*517.0*	518.9	518.9	489.5	439.2	373.8	301.7
57.5°	*463.9*	*463.9*	*482.9*	*506.6*	*521.7*	*520.8*	*518.9*	*490.4*	*441.1*	*371.9*	*298.8*
60°	450.6	453.4	471.5	495.2	*510.4*	509.4	503.7	478.1	431.6	364.3	293.1
62.5°	432.6	437.3	456.3	474.3	*491.4*	494.2	486.6	463.9	415.5	352.9	282.7
65°	398.4	405.1	428.8	448.7	*462.0*	467.7	458.2	437.3	393.7	331.1	260.9
67.5°	360.5	365.2	385.1	413.6	*421.2*	426.9	422.1	400.3	363.3	296.0	236.2
70°	316.8	324.4	337.7	366.2	*374.7*	380.4	380.4	358.6	323.5	259.9	206.8
72.5°	265.6	274.2	290.3	311.2	*322.5*	326.3	325.4	307.4	276.1	220.1	174.5
75°	209.6	216.3	235.3	250.4	*262.8*	265.6	264.7	249.5	221.0	177.4	138.5
77.5°	154.6	161.3	175.5	186.9	*198.3*	196.4	196.4	185.0	167.0	131.9	105.3
80°	101.5	107.2	119.5	123.3	*135.7*	134.7	134.7	126.2	113.8	88.2	70.2
82.5°	56.0	60.7	69.2	73.0	*80.6*	78.7	79.7	74.0	66.4	49.3	39.8
85°	19.9	23.7	28.5	31.3	*35.1*	35.1	35.1	30.4	28.5	19.0	16.1
87.5°	0.9	1.9	3.8	3.8	*5.7*	5.7	5.7	3.8	3.8	0.9	0.9
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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Scaled Data Report

REPORT NUMBER: P832501
CATALOG NUMBER: TTN-D0-735-U-DL-CG

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
2.5°	100.6	99.6	98.7	96.8	95.8	94.9	93.9	93.0	93.0	93.0	93.0
5°	101.5	100.6	97.7	94.9	92.0	89.2	87.3	86.3	85.4	84.4	84.4
7.5°	101.5	99.6	95.8	92.0	89.2	85.4	82.5	79.7	77.8	76.8	76.8
10°	102.5	99.6	94.9	91.1	86.3	81.6	77.8	74.0	72.1	70.2	70.2
12.5°	104.3	101.5	94.9	90.1	84.4	78.7	74.0	70.2	67.4	65.5	65.5
15°	108.1	104.3	96.8	90.1	83.5	76.8	72.1	67.4	64.5	62.6	62.6
17.5°	113.8	109.1	99.6	90.1	82.5	75.9	70.2	65.5	61.7	59.8	59.8
20°	120.5	114.8	103.4	92.0	82.5	74.9	69.2	63.6	59.8	57.9	57.9
22.5°	130.0	121.4	108.1	94.9	84.4	75.9	68.3	62.6	58.8	56.9	56.9
25°	140.4	130.9	113.8	98.7	86.3	75.9	68.3	62.6	58.8	56.9	56.0
27.5°	151.8	141.3	120.5	102.5	88.2	77.8	69.2	62.6	58.8	56.9	56.9
30°	162.2	149.9	127.1	107.2	91.1	78.7	70.2	63.6	58.8	56.9	56.9
32.5°	173.6	159.4	133.8	111.9	93.9	80.6	71.1	64.5	59.8	57.9	56.9
35°	185.0	168.9	140.4	115.7	96.8	82.5	72.1	65.5	60.7	58.8	58.8
37.5°	197.3	179.3	147.0	120.5	99.6	84.4	74.0	66.4	61.7	59.8	59.8
40°	210.6	189.7	153.7	124.3	102.5	86.3	75.9	68.3	63.6	61.7	61.7
42.5°	223.9	201.1	161.3	129.0	105.3	88.2	76.8	70.2	65.5	63.6	63.6
45°	237.2	210.6	167.9	133.8	108.1	91.1	79.7	72.1	67.4	65.5	65.5
47.5°	249.5	221.0	173.6	136.6	111.0	93.0	80.6	74.0	69.2	68.3	67.4
50°	258.0	227.7	177.4	139.4	111.9	93.9	82.5	74.9	71.1	69.2	69.2
52.5°	264.7	234.3	180.2	141.3	112.9	94.9	83.5	76.8	73.0	71.1	70.2
55°	268.5	235.3	180.2	139.4	111.9	94.9	83.5	76.8	73.0	71.1	71.1
57.5°	*264.7*	*230.5*	*176.4*	*135.7*	*109.1*	*92.0*	*80.6*	*74.9*	*71.1*	*70.2*	*69.2*
60°	257.1	222.9	168.9	130.0	104.3	87.3	76.8	72.1	69.2	68.3	67.4
62.5°	246.6	213.4	161.3	122.4	97.7	81.6	74.0	68.3	66.4	65.5	64.5
65°	225.8	195.4	148.9	112.9	89.2	74.9	67.4	63.6	61.7	59.8	58.8
67.5°	203.0	175.5	131.9	101.5	78.7	67.4	60.7	56.9	54.1	54.1	53.1
70°	178.3	154.6	113.8	86.3	68.3	58.8	52.2	49.3	47.4	47.4	46.5
72.5°	148.9	130.0	94.9	70.2	56.0	48.4	43.6	40.8	39.8	39.8	38.9
75°	119.5	102.5	74.9	55.0	43.6	37.9	34.2	32.3	31.3	31.3	30.4
77.5°	88.2	74.9	54.1	39.8	31.3	27.5	24.7	23.7	22.8	22.8	21.8
80°	58.8	49.3	35.1	25.6	19.0	17.1	15.2	15.2	14.2	15.2	14.2
82.5°	32.3	26.6	19.0	13.3	9.5	8.5	7.6	7.6	8.5	8.5	7.6
85°	12.3	9.5	6.6	3.8	2.8	2.8	2.8	2.8	2.8	2.8	1.9
87.5°	0.9	0.9	0.0	0.0	0.0	0.0	0.0	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

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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 TT and TTN families of products

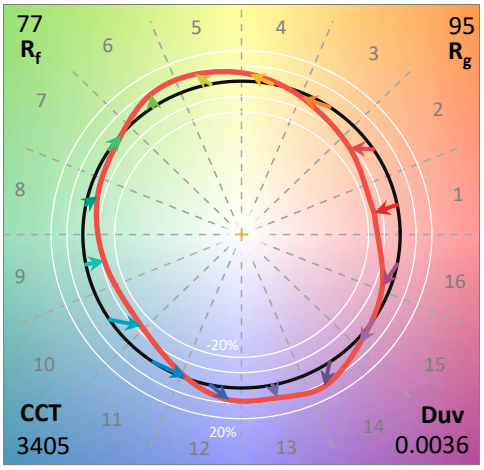
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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				



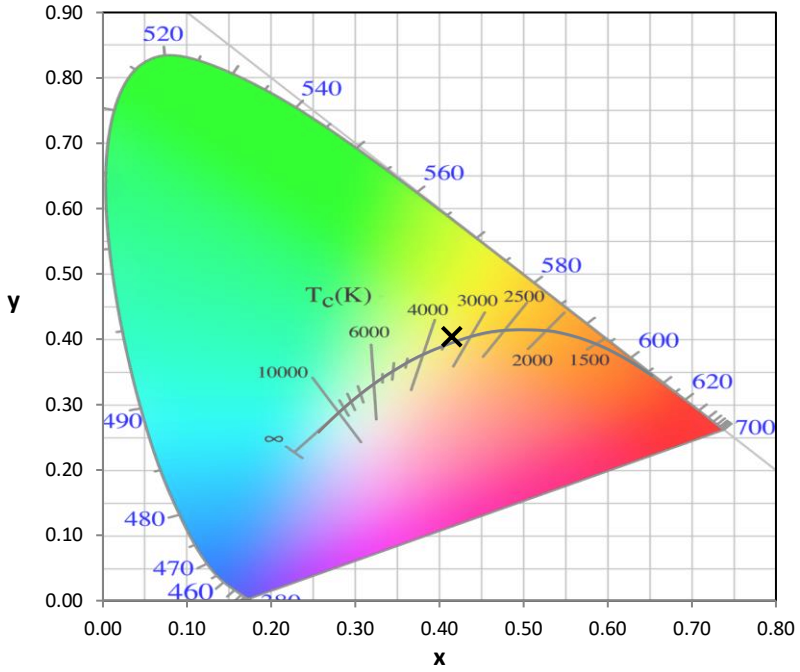
Test Conditions

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

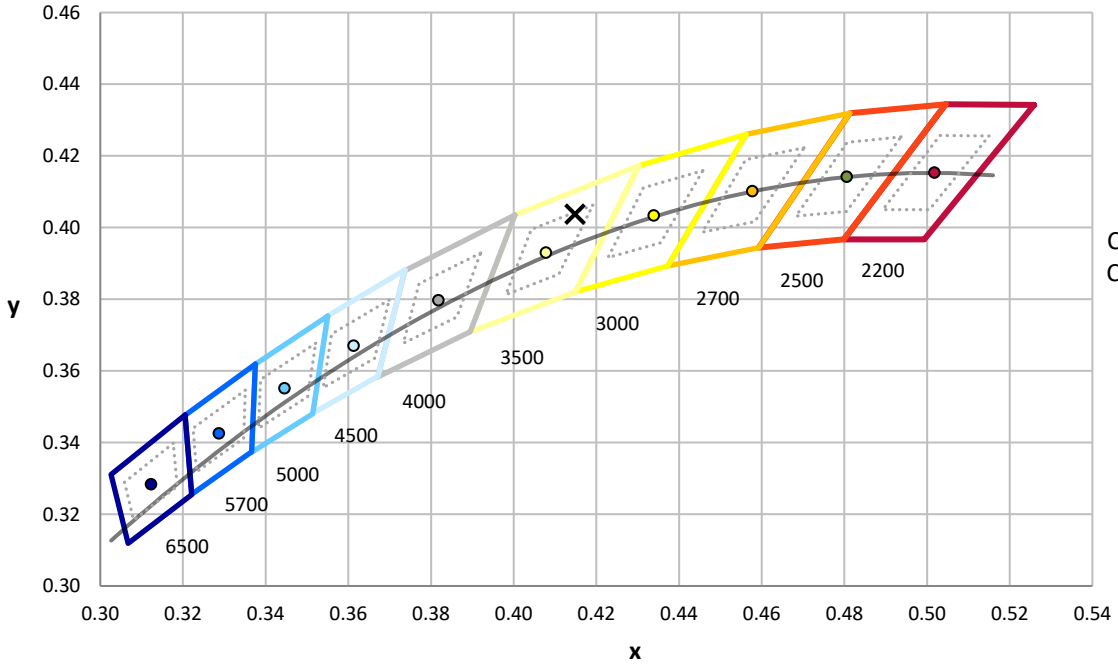
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2411-284-1

CIE 1931 Chromaticity Diagram



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

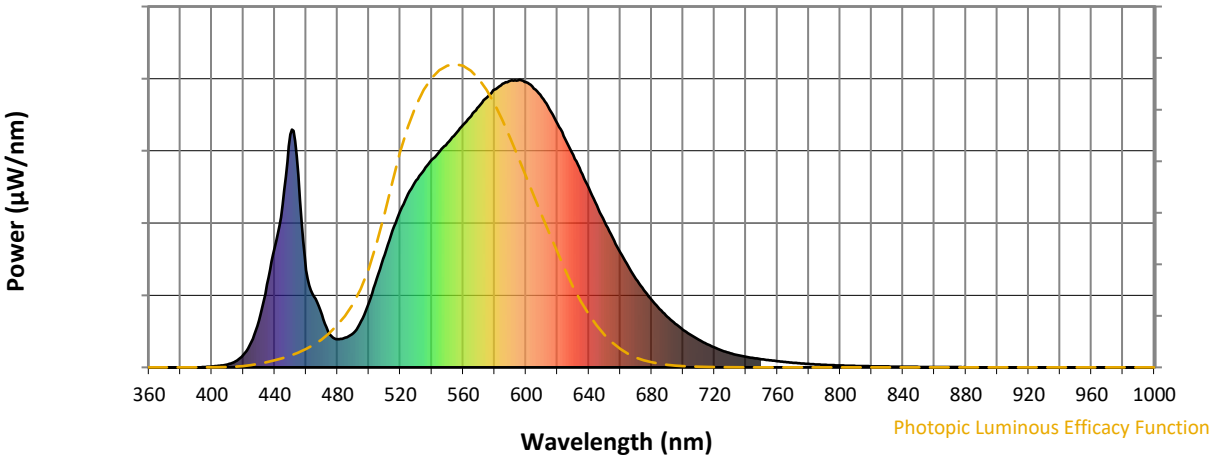


CCT = 3405K
CIE x = 0.4148
CIE y = 0.4038
Duv = 0.0036

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2411-284-1

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			

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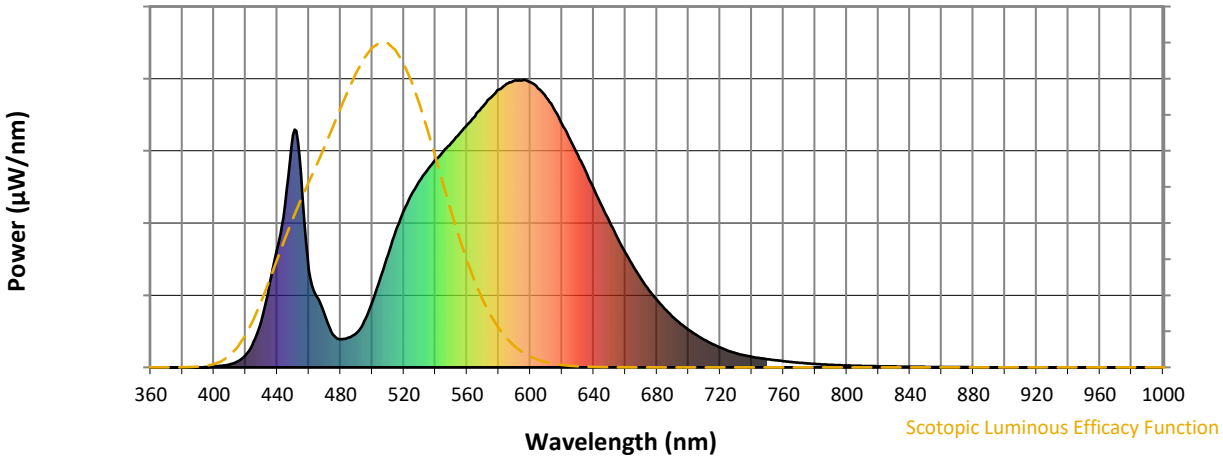
Scotopic Flux vs. Wavelength



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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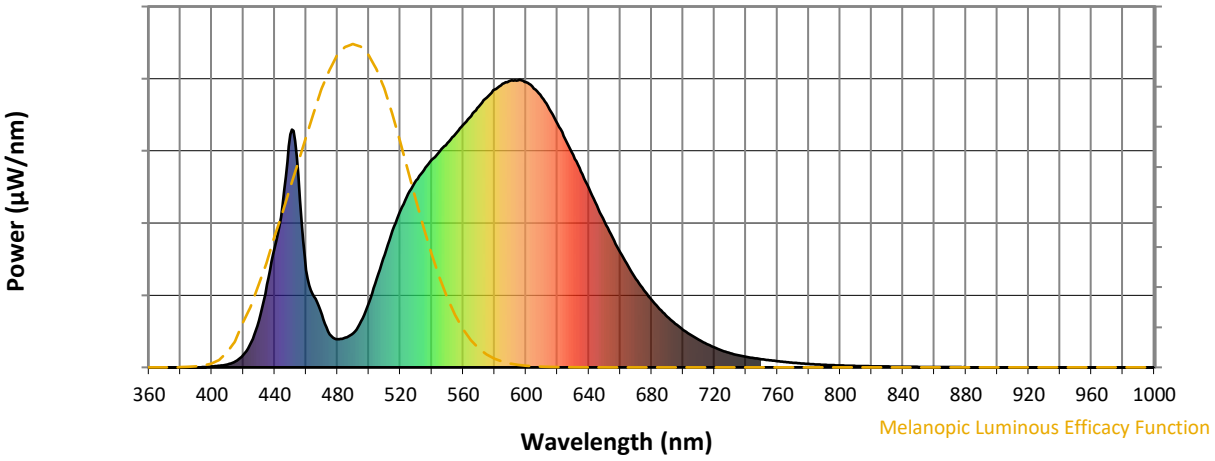
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.47**

λ (nm)	Power 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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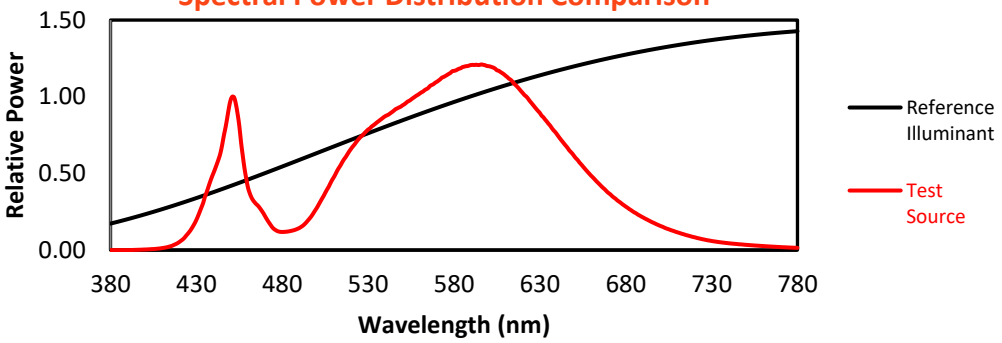
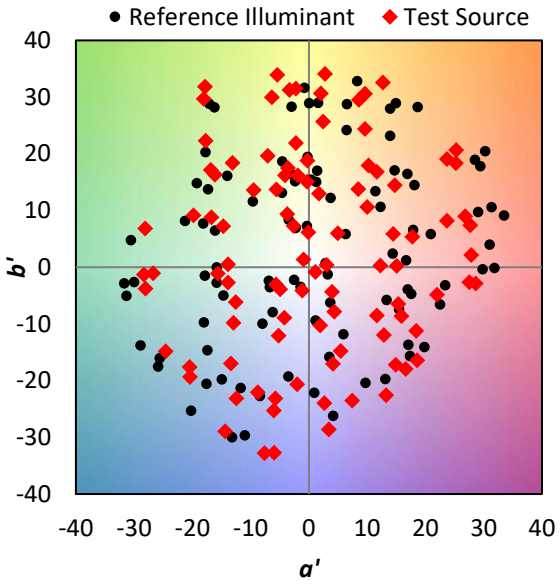
Summary

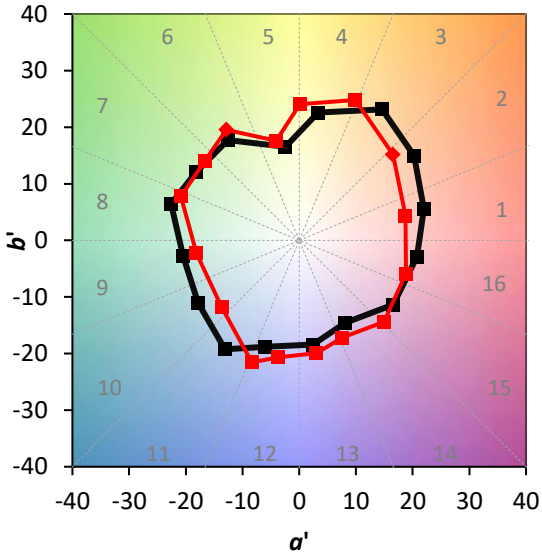
R_f = 76.6
R_g = 95.4
CIE R_a = 73.9
R_9 = -18.0

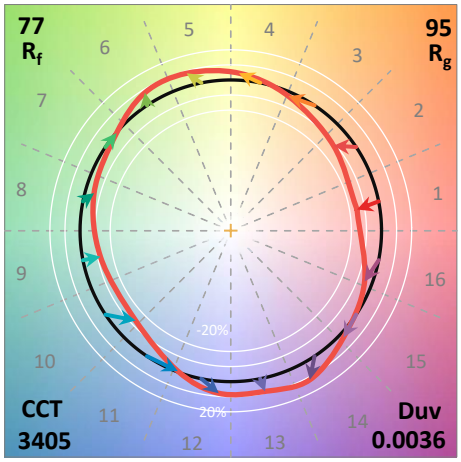
Spectral Power Distribution Comparison

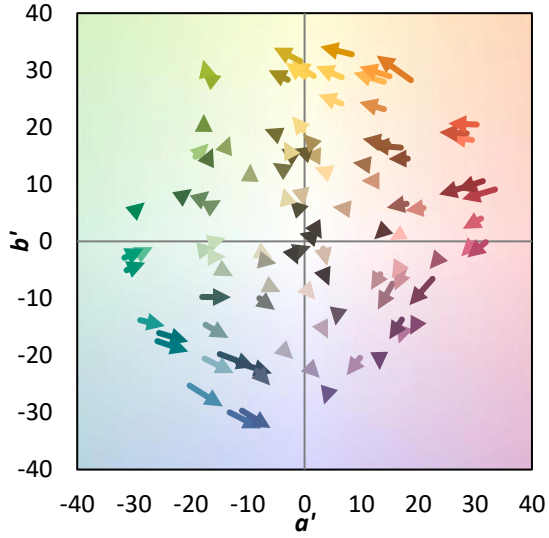


Color Vector Graphics









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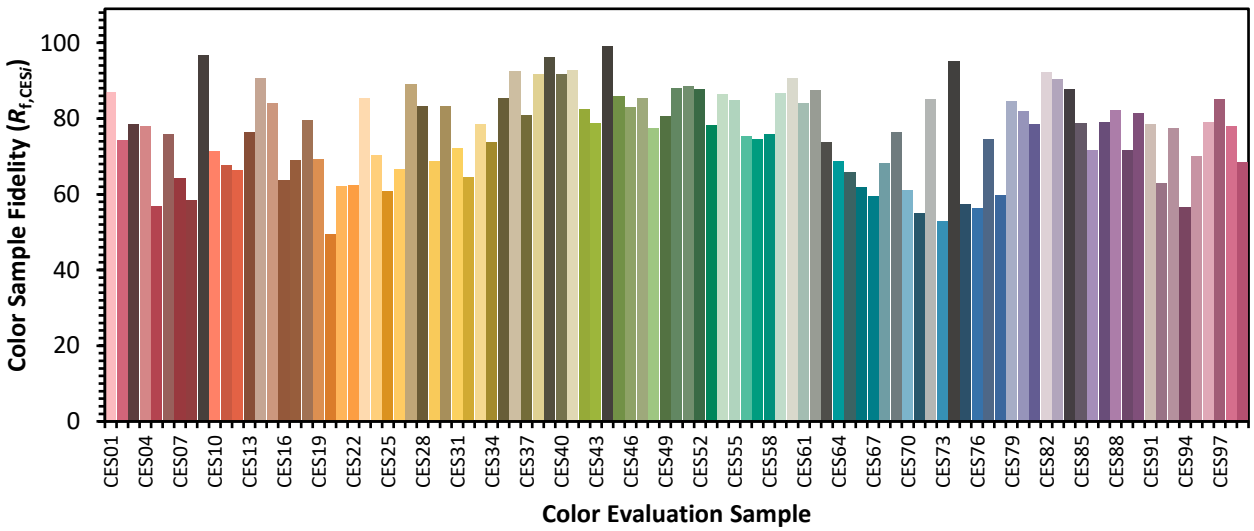
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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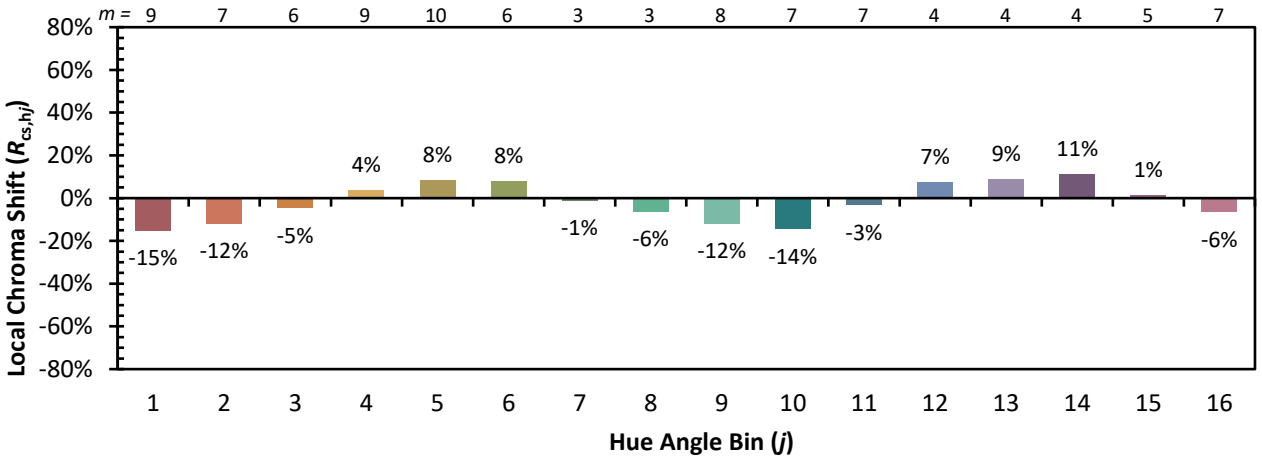
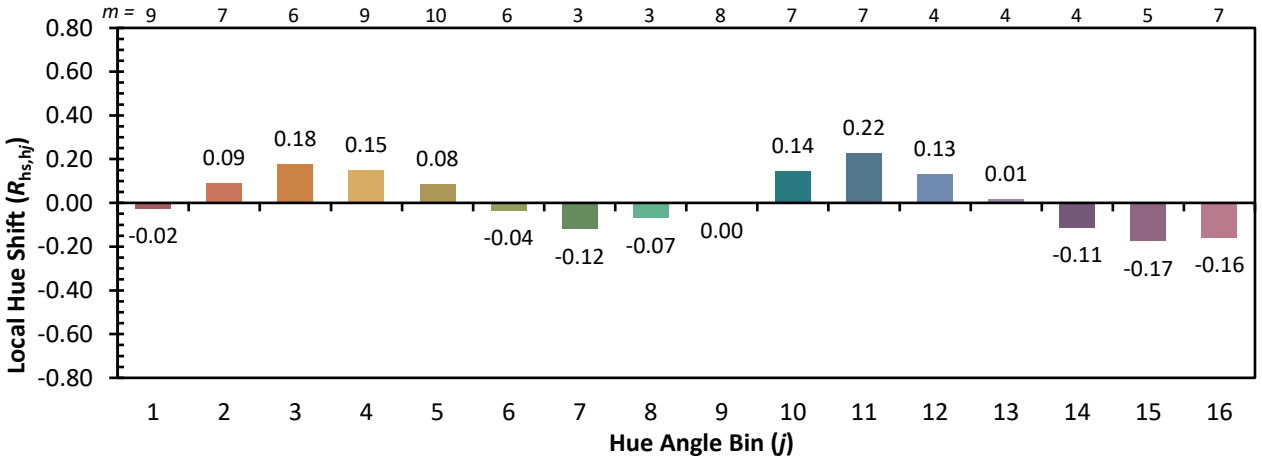
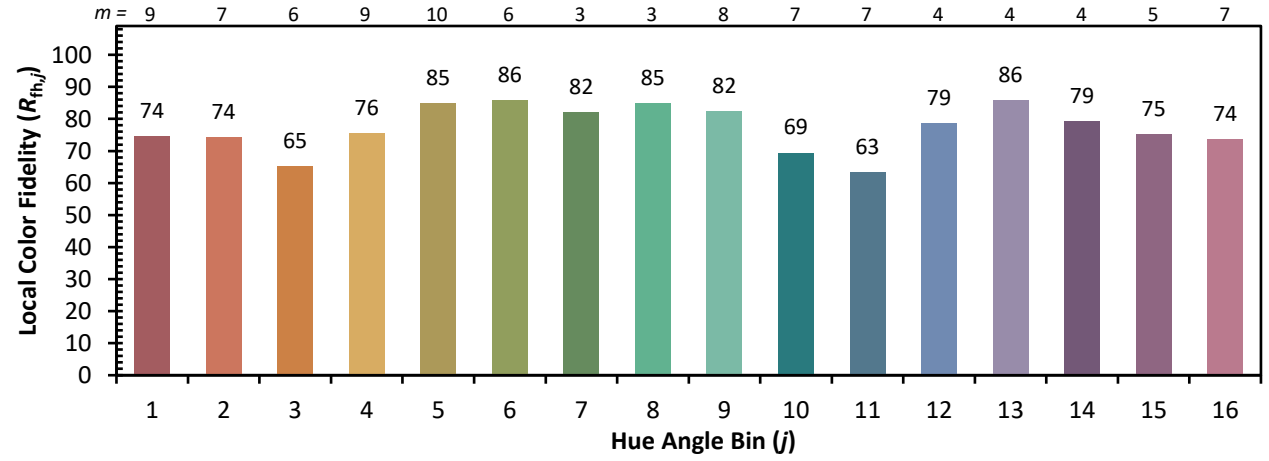
Color Rendition by Hue-Angle Bin







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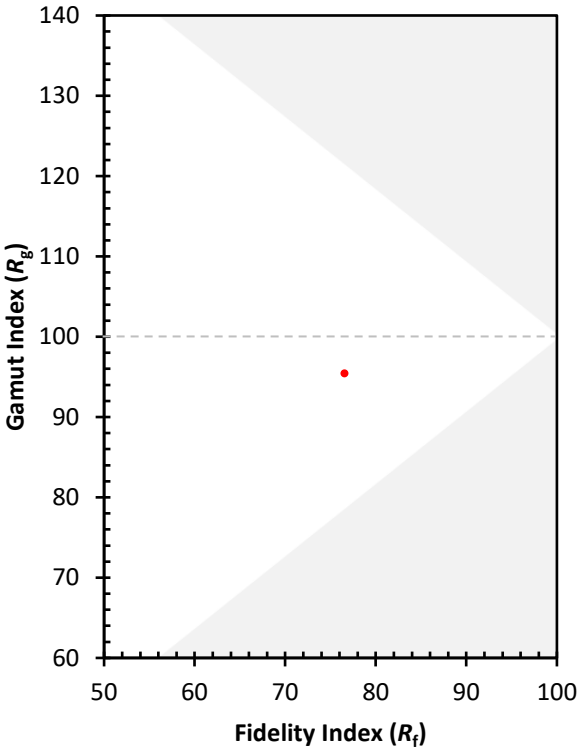
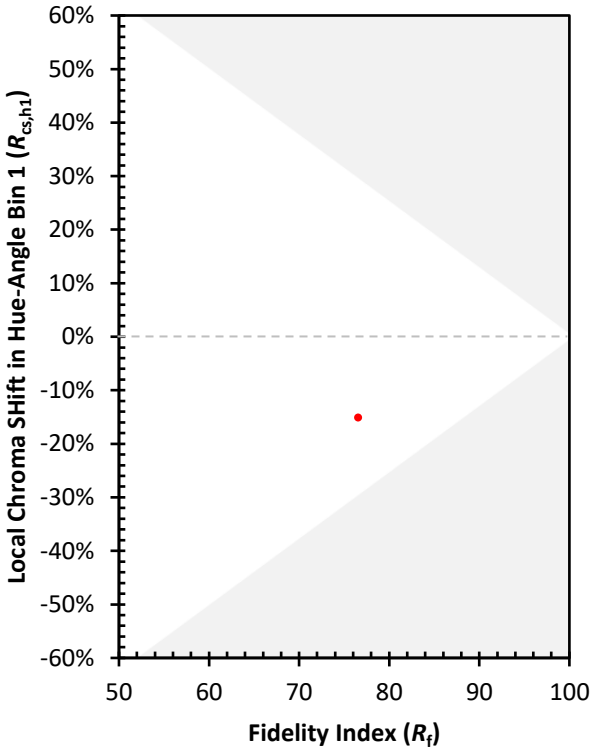
Measure Comparisons





(END OF REPORT)