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: P833177

Luminaire Tested: **TTN-D1-735-U-RW-CG-UPL2**

Issue Date: 5/15/2024

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:	P833177
	REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G3-2308-121-4) AND
Test Lab:	INNOVATION CENTER
Issue Date:	5/15/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TTN-D1-735-U-RW-CG-UPL2
Description:	TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
	3500K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH CLEAR GLASS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3456.8 lumens
Efficiency:	N/A
Efficacy:	111.9 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification:	Type II - Short
BUG Rating:	B2 - U4 - G2

Input Watts (W):	30.9
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: P833177
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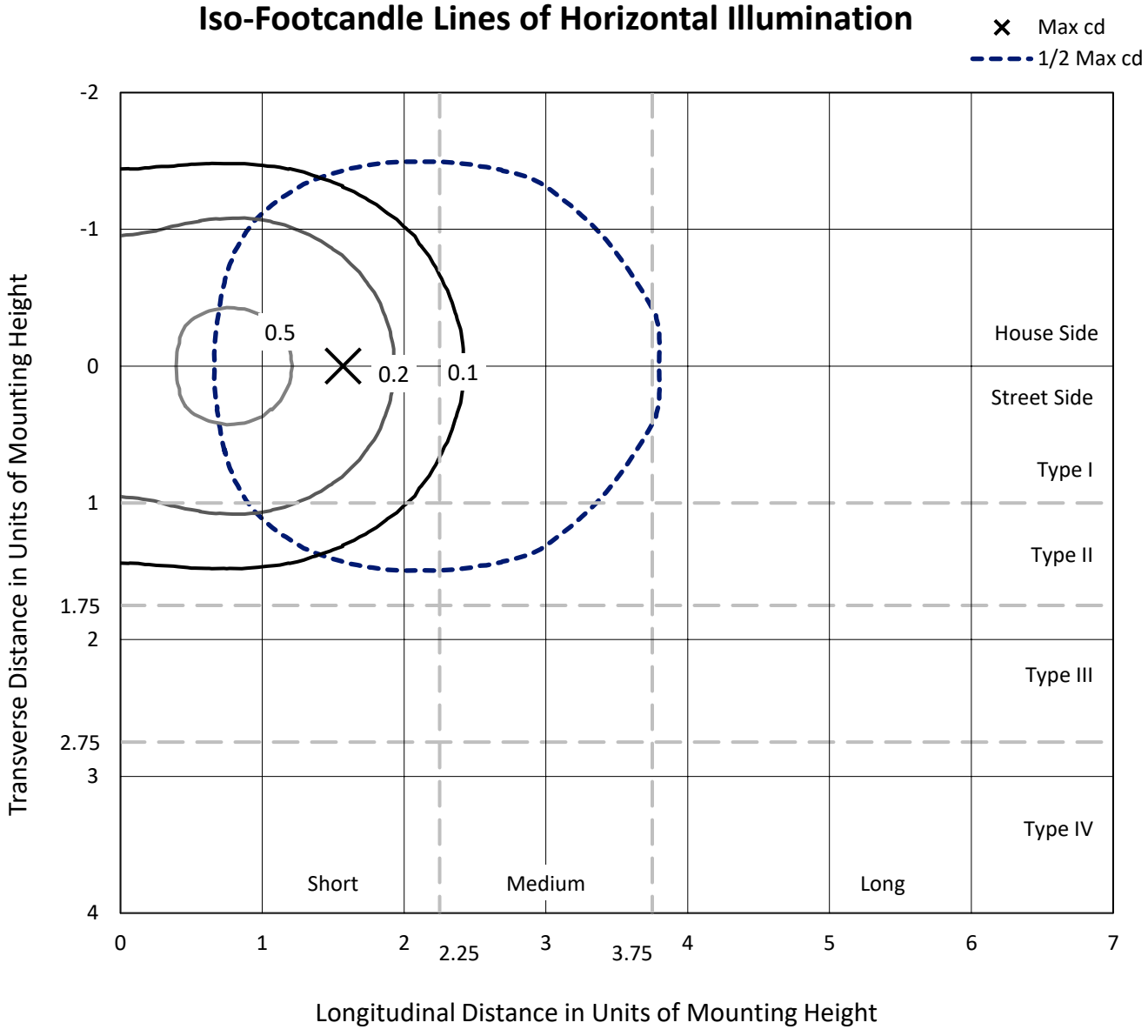
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
Type II - Short - N/A

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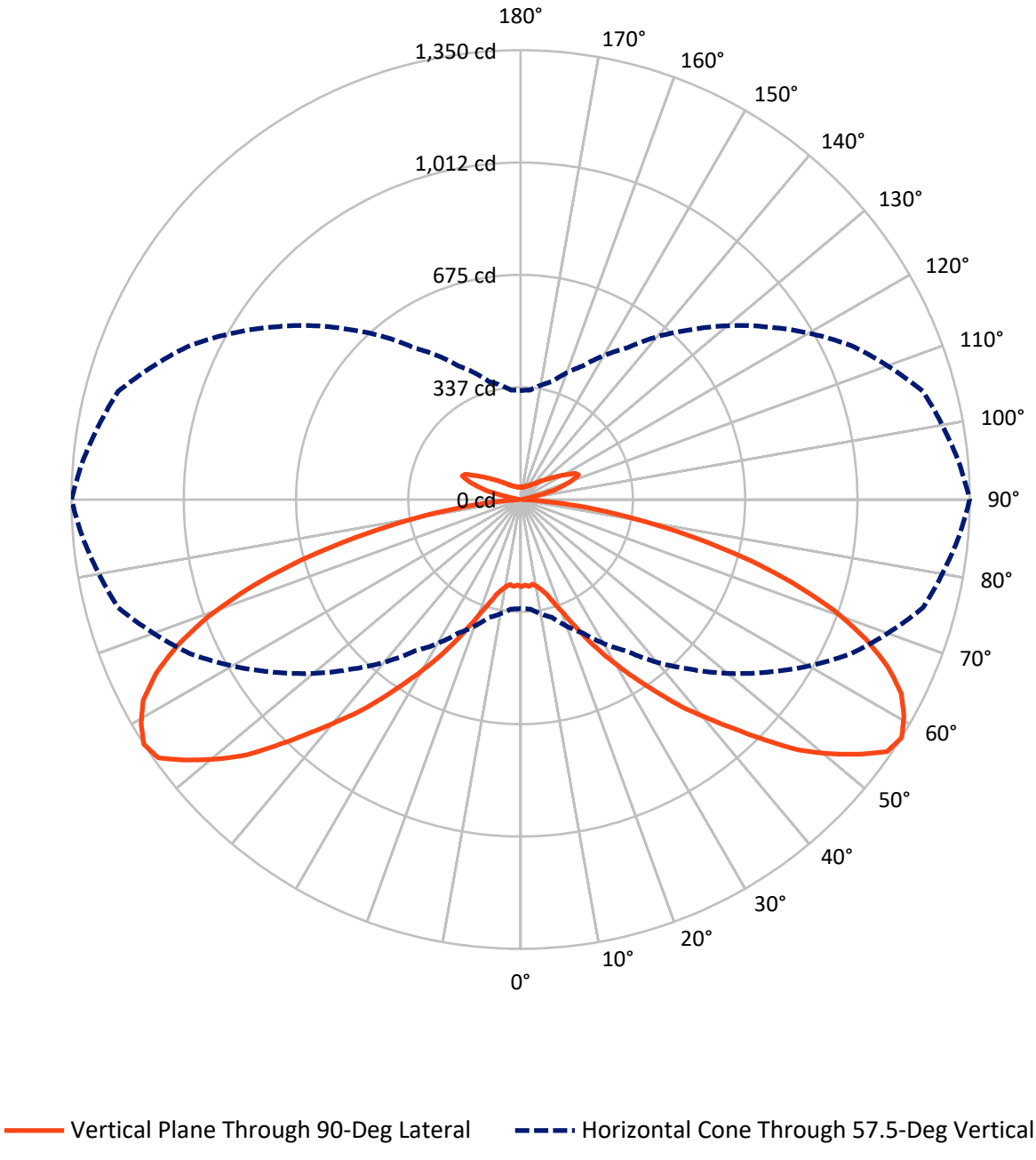
Luminous Intensity Polar Plot



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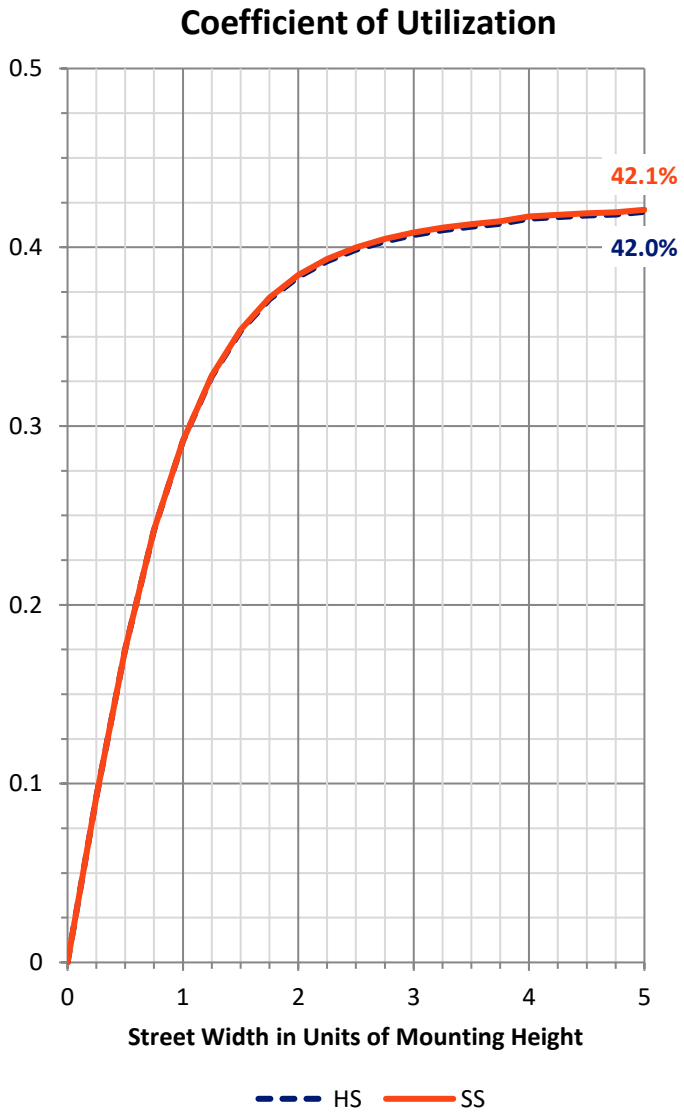
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1456.9	271.5	1728.4
	% Fixture	42.1	7.9	50.0
Street Side	Lumens	1456.9	271.5	1728.4
	% Fixture	42.1	7.9	50.0
Total	Lumens	2913.7	543.0	3456.8
	% Fixture	84.3	15.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.0	0.7
10°-20°	80.5	2.3
20°-30°	171.3	5.0
30°-40°	315.7	9.1
40°-50°	508.4	14.7
50°-60°	688.1	19.9
60°-70°	669.0	19.4
70°-80°	389.2	11.3
80°-90°	66.5	1.9
90°-100°	12.1	0.4
100°-110°	123.2	3.6
110°-120°	180.1	5.2
120°-130°	104.5	3.0
130°-140°	55.4	1.6
140°-150°	32.9	1.0
150°-160°	20.2	0.6
160°-170°	11.0	0.3
170°-180°	3.6	0.1
0°-90°	2913.7	84.3
0°-180°	3456.8	100.0



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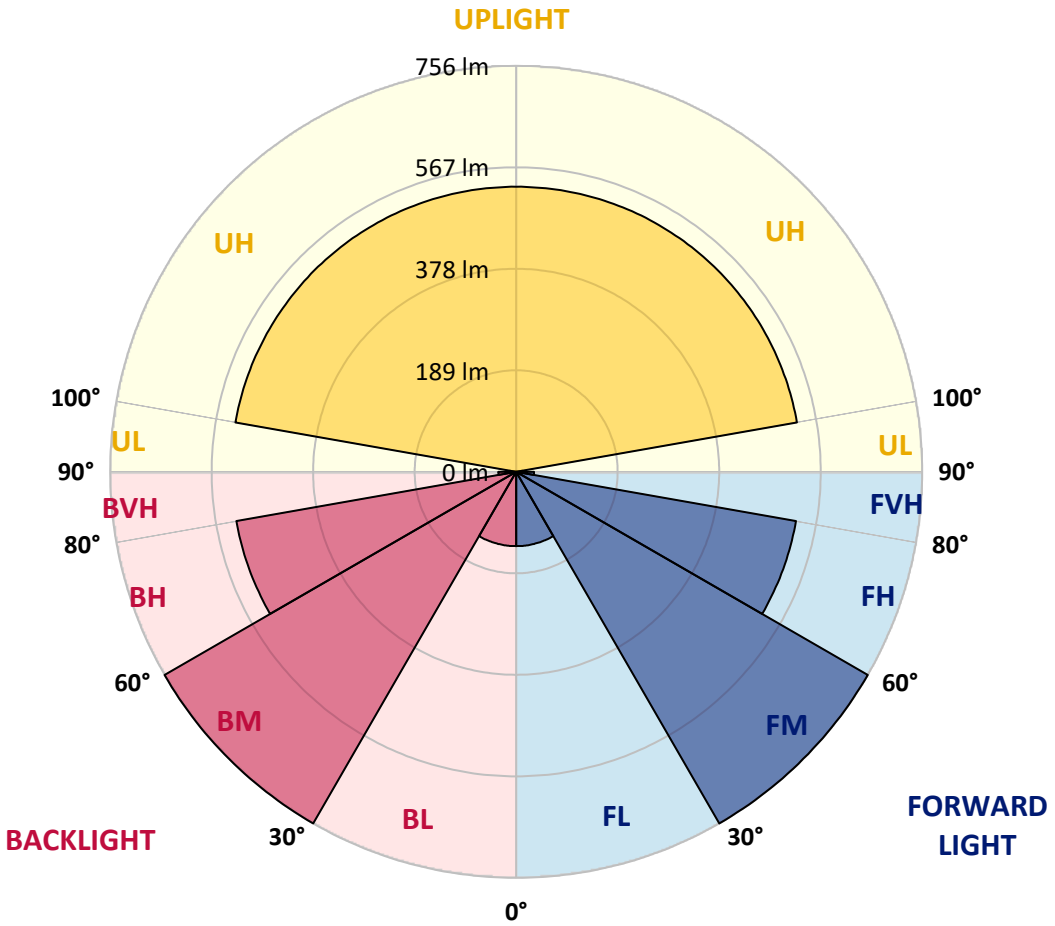
REPORT NUMBER: P833177
CATALOG NUMBER: TTN-D1-735-U-RW-CG-UPL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	138.4	4.0			
FM	(30°-60°)	756.1	21.9			
FH	(60°-80°)	529.1	15.3			G0/660
FVH	(80°-90°)	33.3	1.0			G1/100
BL	(0°-30°)	138.4	4.0	B1/500		
BM	(30°-60°)	756.1	21.9	B1/1000		
BH	(60°-80°)	529.1	15.3	B2/1000		G2/1000
BVH	(80°-90°)	33.3	1.0			G1/100
UL	(90°-100°)	12.1	0.4		U2/50	
UH	(100°-180°)	530.9	15.4		U4/1000	

BUG Rating: B2-U4-G2
Type II Short



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REPORT NUMBER: P833177
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	262.1	262.1	262.1	262.1	262.1	262.1	262.1	262.1	262.1	262.1	262.1
2.5°	262.1	262.1	262.1	262.1	259.5	259.5	259.5	256.9	256.9	256.9	256.9
5°	262.1	262.1	262.1	264.7	264.7	264.7	262.1	262.1	262.1	262.1	262.1
7.5°	262.1	264.7	264.7	262.1	262.1	259.5	259.5	259.5	256.9	256.9	256.9
10°	262.1	262.1	262.1	262.1	259.5	259.5	262.1	262.1	264.7	264.7	264.7
12.5°	259.5	259.5	262.1	262.1	262.1	264.7	270.0	272.6	275.2	277.8	277.8
15°	262.1	262.1	264.7	267.3	270.0	275.2	283.1	290.9	296.2	298.8	296.2
17.5°	262.1	264.7	267.3	272.6	280.4	288.3	301.4	311.9	322.4	325.0	327.6
20°	267.3	267.3	270.0	280.4	293.5	306.7	325.0	343.3	356.4	361.7	361.7
22.5°	270.0	272.6	275.2	288.3	309.3	330.2	356.4	377.4	395.8	406.2	408.9
25°	277.8	277.8	283.1	301.4	327.6	359.1	393.1	424.6	448.2	461.3	463.9
27.5°	283.1	285.7	293.5	317.1	351.2	390.5	437.7	474.4	503.2	518.9	521.6
30°	288.3	290.9	306.7	332.9	374.8	422.0	477.0	524.2	560.9	579.2	581.9
32.5°	296.2	298.8	317.1	346.0	395.8	453.4	516.3	574.0	626.4	642.1	644.8
35°	304.0	306.7	327.6	361.7	419.4	484.9	558.3	626.4	689.3	710.3	715.5
37.5°	311.9	314.5	335.5	377.4	442.9	518.9	605.4	686.7	754.8	783.7	791.5
40°	319.8	322.4	346.0	393.1	466.5	555.6	655.2	744.4	823.0	857.1	862.3
42.5°	325.0	327.6	353.8	406.2	490.1	589.7	707.7	807.3	891.1	935.7	940.9
45°	332.9	335.5	364.3	424.6	511.1	629.0	757.5	878.0	975.0	1024.8	1030.0
47.5°	338.1	340.7	372.2	435.1	534.7	665.7	809.9	940.9	1056.2	1108.7	1124.4
50°	340.7	343.3	377.4	445.6	550.4	691.9	851.8	1003.8	1127.0	1192.5	1200.4
52.5°	340.7	346.0	380.0	453.4	560.9	715.5	885.9	1056.2	1195.2	1268.5	1271.2
55°	338.1	340.7	377.4	450.8	566.1	726.0	909.5	1087.7	1242.3	1313.1	1336.7
57.5°	327.6	330.2	366.9	442.9	555.6	720.8	904.2	1095.6	1252.8	1321.0	1349.8
60°	311.9	317.1	351.2	424.6	539.9	702.4	888.5	1079.8	1237.1	1321.0	1323.6
62.5°	293.5	296.2	330.2	401.0	516.3	673.6	859.7	1048.4	1200.4	1286.9	1284.3
65°	267.3	270.0	298.8	372.2	474.4	618.5	802.0	998.6	1129.6	1221.4	1213.5
67.5°	238.5	241.1	267.3	332.9	424.6	558.3	723.4	914.7	1030.0	1124.4	1119.1
70°	207.1	207.1	230.6	285.7	372.2	490.1	636.9	804.6	920.0	998.6	1001.2
72.5°	170.4	170.4	191.3	238.5	311.9	411.5	537.3	686.7	781.0	849.2	854.4
75°	133.7	131.0	149.4	188.7	246.4	327.6	424.6	553.0	626.4	691.9	689.3
77.5°	94.4	94.4	104.8	136.3	178.2	243.7	314.5	416.7	466.5	521.6	511.1
80°	60.3	60.3	65.5	89.1	117.9	162.5	207.1	283.1	317.1	359.1	346.0
82.5°	31.5	28.8	34.1	47.2	62.9	89.1	115.3	165.1	180.8	212.3	201.8
85°	10.5	10.5	10.5	15.7	23.6	34.1	44.6	70.8	73.4	94.4	86.5
87.5°	2.6	0.0	0.0	2.6	2.6	2.6	2.6	7.9	7.9	15.7	10.5
90°	4.6	4.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.6	4.6
92.5°	4.6	4.6	4.6	6.5	7.4	6.5	7.4	5.6	5.6	4.6	4.6
95°	5.6	5.6	6.5	8.4	10.2	11.1	11.1	6.5	6.5	5.6	5.6
97.5°	7.4	8.4	8.4	10.2	16.7	30.7	18.6	9.3	9.3	8.4	7.4
100°	12.1	13.0	13.0	23.2	49.2	66.0	47.4	24.2	17.7	13.0	13.0
102.5°	39.0	40.9	50.2	75.3	111.5	101.3	85.5	80.8	55.7	44.6	42.7
105°	99.4	98.5	105.9	125.4	156.1	153.3	141.2	128.2	110.6	102.2	102.2
107.5°	131.0	131.0	137.5	154.2	177.4	207.2	210.0	166.3	145.9	136.6	135.6
110°	147.7	147.7	153.3	167.2	197.9	239.7	237.8	205.3	180.2	168.2	166.3

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CATALOG NUMBER: TTN-D1-735-U-RW-CG-UPL2

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	151.4	152.4	159.8	181.2	214.6	233.2	224.8	211.8	200.7	191.4	*189.5*
115°	157.0	157.0	165.4	185.8	204.4	211.8	202.5	192.3	184.9	181.2	*183.0*
117.5°	155.1	157.9	159.8	170.9	183.0	188.6	183.9	170.0	164.4	162.6	*159.8*
120°	144.0	144.0	145.9	151.4	157.9	160.7	158.9	149.6	144.9	144.0	*142.1*
122.5°	128.2	129.1	128.2	131.0	135.6	138.4	136.6	129.1	127.3	127.3	*125.4*
125°	112.4	112.4	111.5	113.3	116.1	115.2	116.1	112.4	111.5	111.5	*110.6*
127.5°	101.3	100.3	98.5	99.4	100.3	100.3	101.3	97.5	98.5	99.4	*98.5*
130°	90.1	90.1	88.3	88.3	88.3	86.4	88.3	86.4	87.3	88.3	*89.2*
132.5°	79.9	79.9	77.1	76.2	76.2	76.2	77.1	76.2	78.0	79.9	*79.9*
135°	71.5	71.5	68.7	69.7	69.7	68.7	69.7	68.7	70.6	71.5	*71.5*
137.5°	65.0	65.0	63.2	63.2	63.2	62.2	63.2	63.2	64.1	66.0	*66.9*
140°	59.5	59.5	58.5	58.5	57.6	58.5	58.5	58.5	59.5	60.4	*60.4*
142.5°	56.7	55.7	54.8	53.9	54.8	54.8	54.8	53.9	54.8	56.7	*56.7*
145°	52.0	52.0	51.1	51.1	51.1	52.0	51.1	51.1	52.0	52.0	*53.0*
147.5°	49.2	49.2	48.3	49.2	49.2	49.2	49.2	48.3	49.2	49.2	*50.2*
150°	48.3	47.4	46.5	47.4	47.4	46.5	46.5	46.5	46.5	47.4	*47.4*
152.5°	45.5	45.5	44.6	45.5	44.6	44.6	44.6	44.6	44.6	45.5	*46.5*
155°	43.7	43.7	42.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	*43.7*
157.5°	41.8	42.7	41.8	41.8	41.8	41.8	41.8	41.8	41.8	42.7	*42.7*
160°	40.9	40.9	40.9	40.9	39.9	39.9	39.9	40.9	40.9	40.9	*41.8*
162.5°	39.9	39.9	39.9	39.9	39.0	39.0	39.0	39.0	39.9	39.9	*40.9*
165°	39.9	39.0	39.0	39.0	38.1	38.1	38.1	38.1	39.0	39.9	*39.0*
167.5°	38.1	38.1	38.1	38.1	38.1	37.2	37.2	38.1	38.1	38.1	*39.0*
170°	38.1	38.1	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	*38.1*
172.5°	38.1	38.1	38.1	38.1	37.2	37.2	37.2	37.2	37.2	38.1	*38.1*
175°	38.1	38.1	38.1	38.1	37.2	37.2	37.2	38.1	38.1	38.1	*37.2*
177.5°	38.1	38.1	38.1	38.1	37.2	38.1	38.1	38.1	38.1	38.1	*38.1*
180°	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	*38.1*

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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

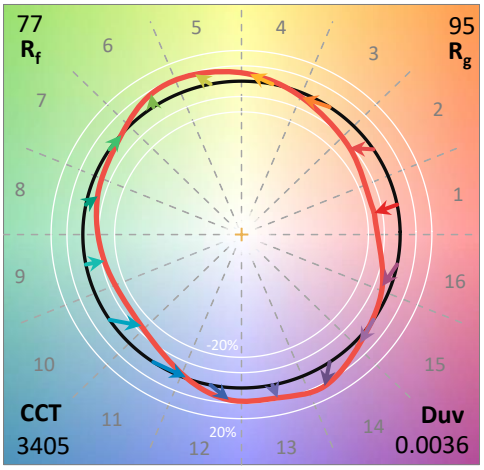
Test Information

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
CIE u':	0.2365
CIE v':	0.5180
Duv:	0.0036
CIE x:	0.4148
CIE y:	0.4038
CIE z:	0.1814
Peak Wavelength (nm):	596
Dominant Wavelength (nm):	579
Purity:	45.70672
Rf:	76.6
Rg:	95.4

CRI (Ra):	73.9
R1:	71.3
R2:	80.3
R3:	87.8
R4:	73.2
R5:	69.8
R6:	71.8
R7:	82.8
R8:	54.1
R9:	-18.0
R10:	53.1
R11:	68.6
R12:	42.6
R13:	72.5
R14:	92.7
R15:	64.3



Test Conditions

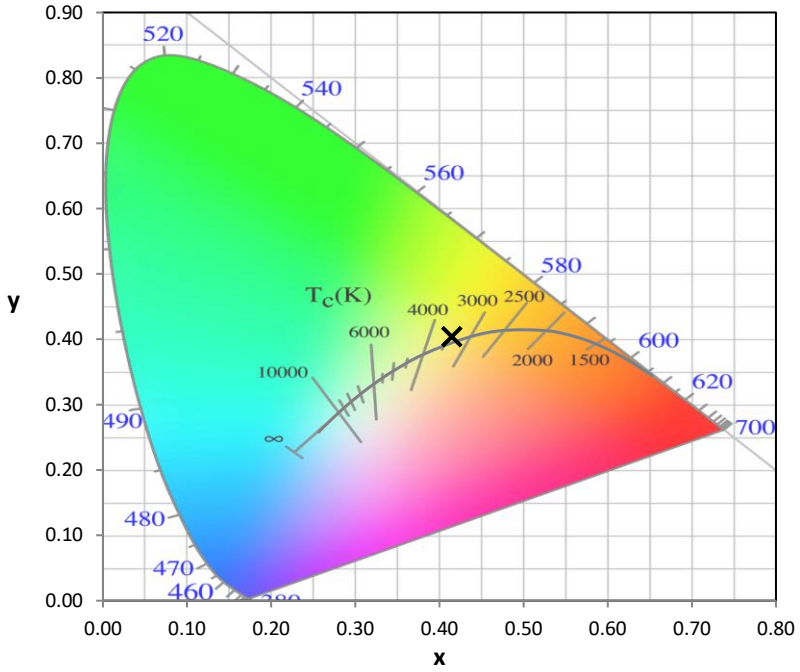
Stabilization Time:	38M
Operation Time:	1H 38M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2411-284-1

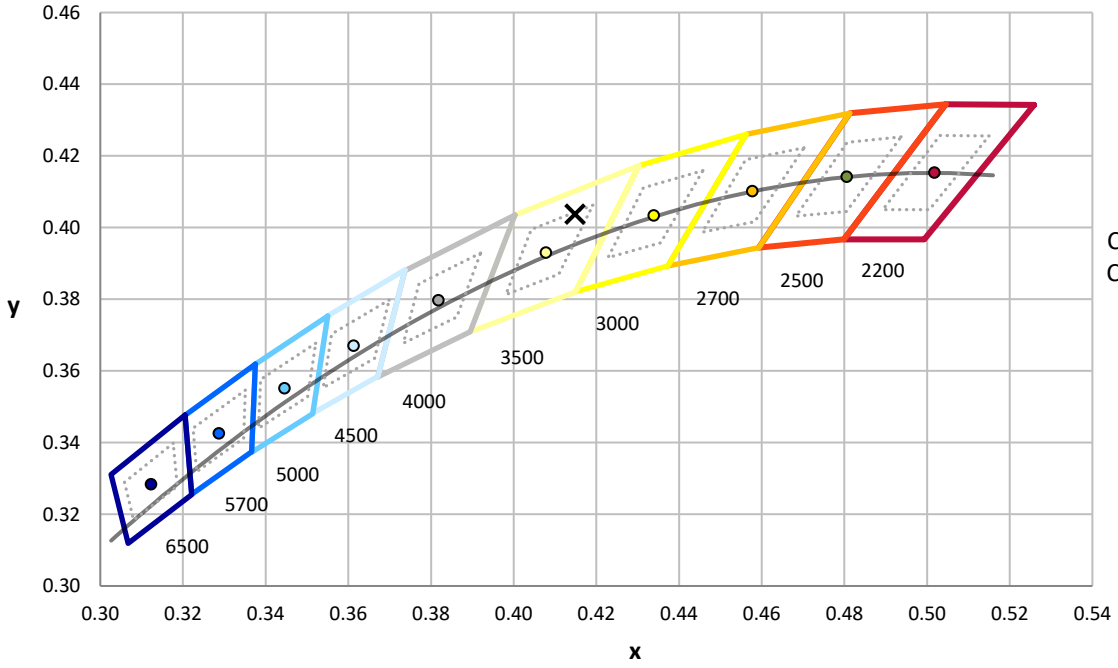
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2411-284-1

CIE 1931 Chromaticity Diagram



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

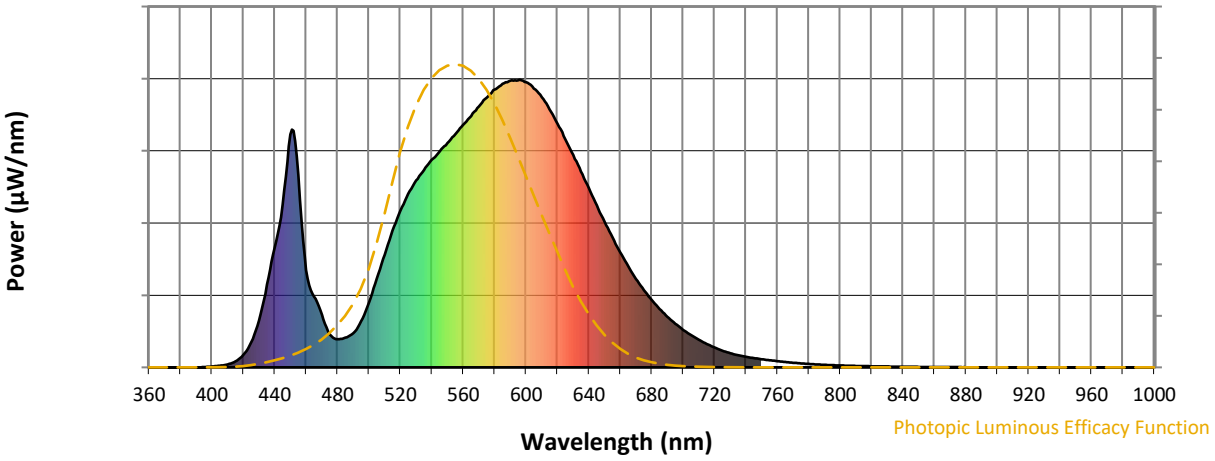


CCT = 3405K
CIE x = 0.4148
CIE y = 0.4038
Duv = 0.0036

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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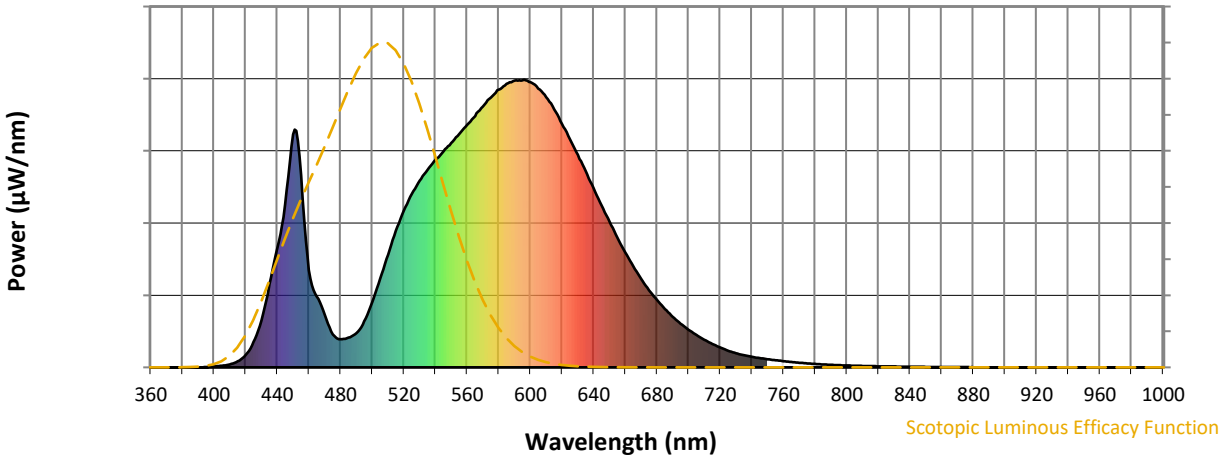
Scotopic Flux vs. Wavelength



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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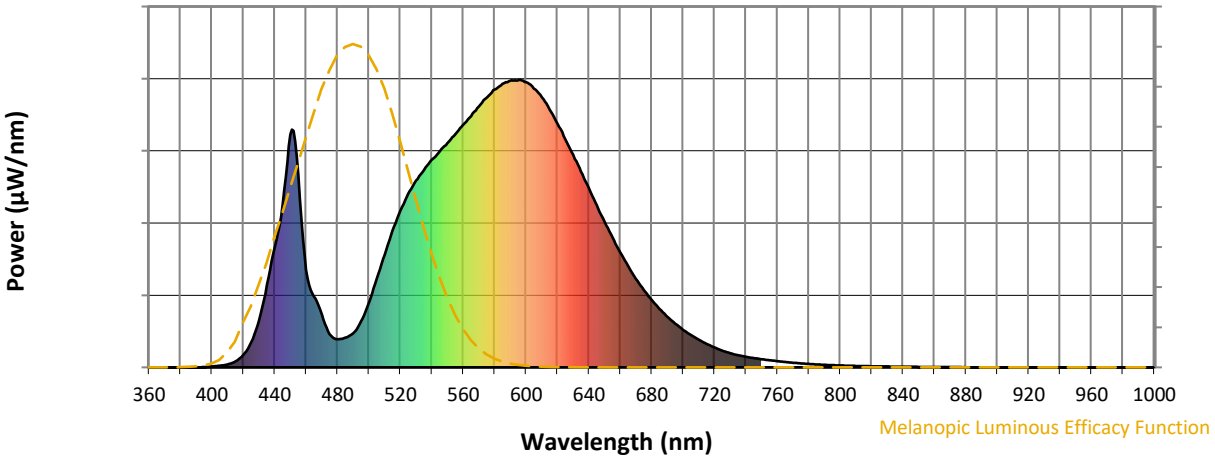
Melanopic Flux vs. Wavelength



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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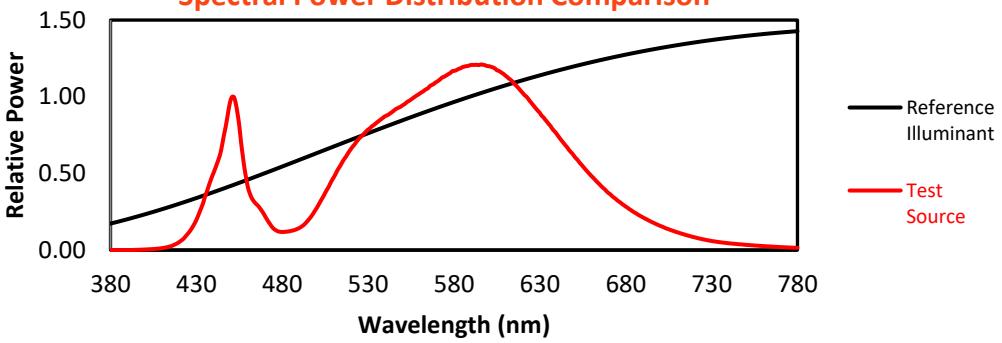
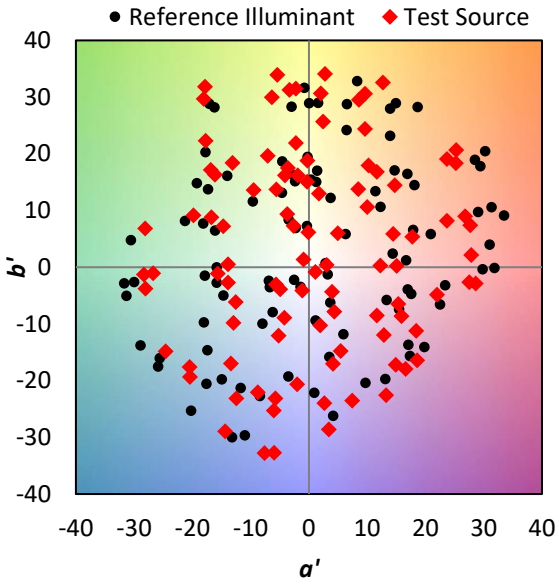
Summary

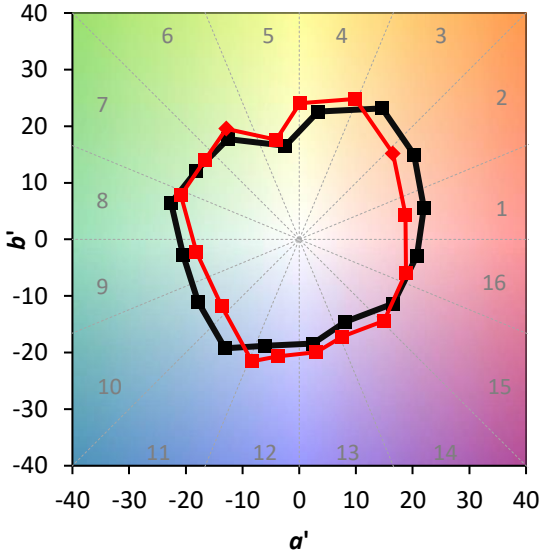
R_f = 76.6
R_g = 95.4
CIE R_a = 73.9
R_9 = -18.0

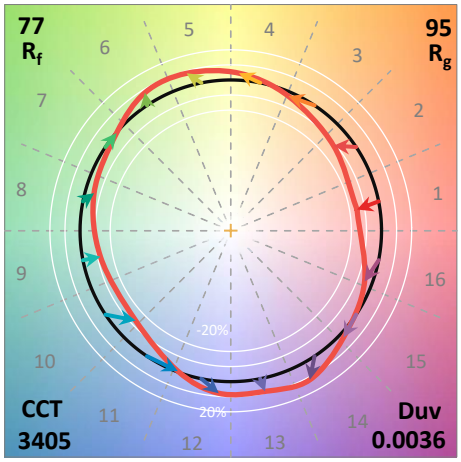
Spectral Power Distribution Comparison

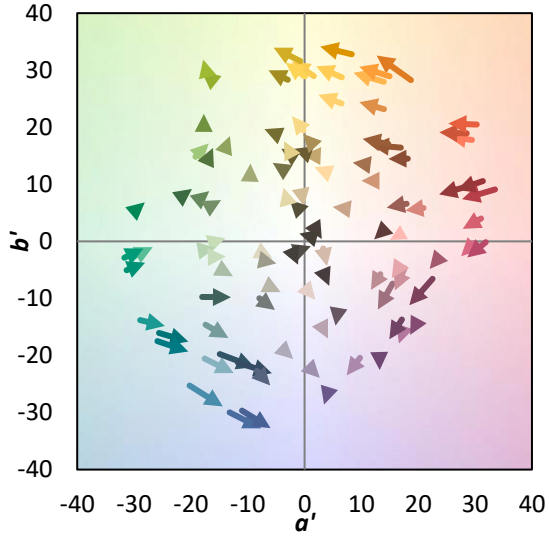


Color Vector Graphics









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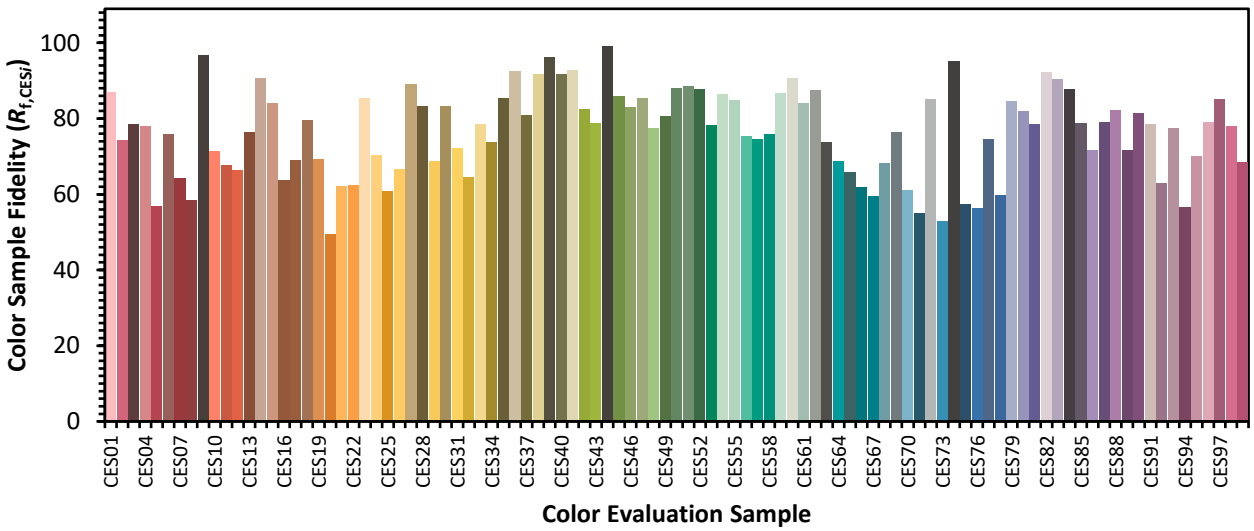
Individual Sample Fidelity Index ($R_{f,i}$)

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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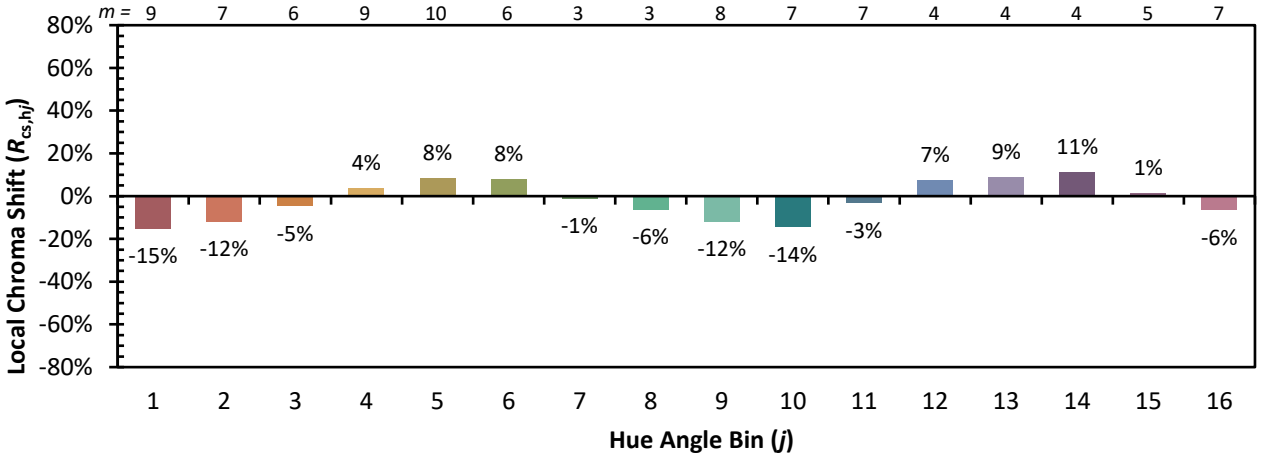
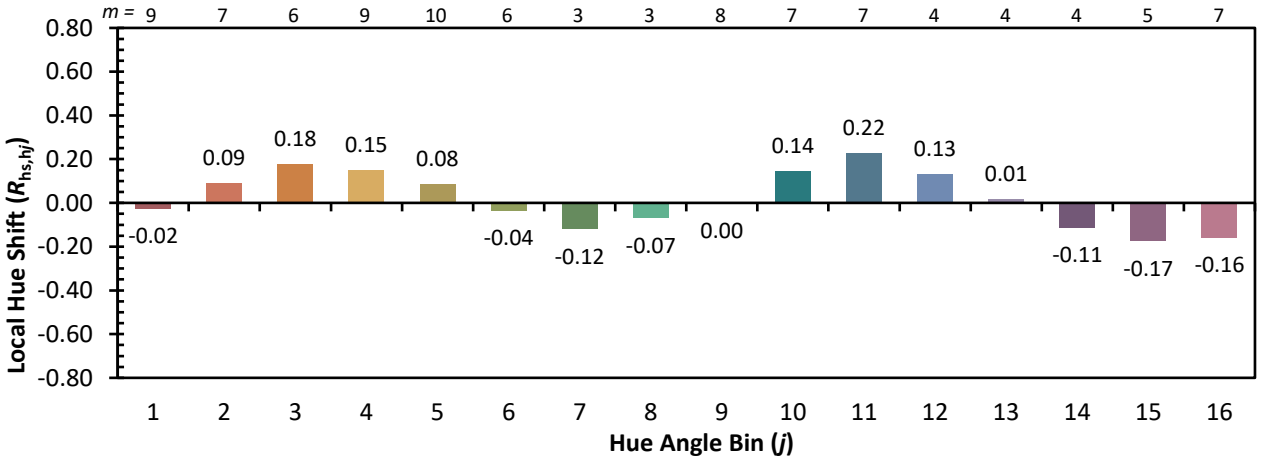
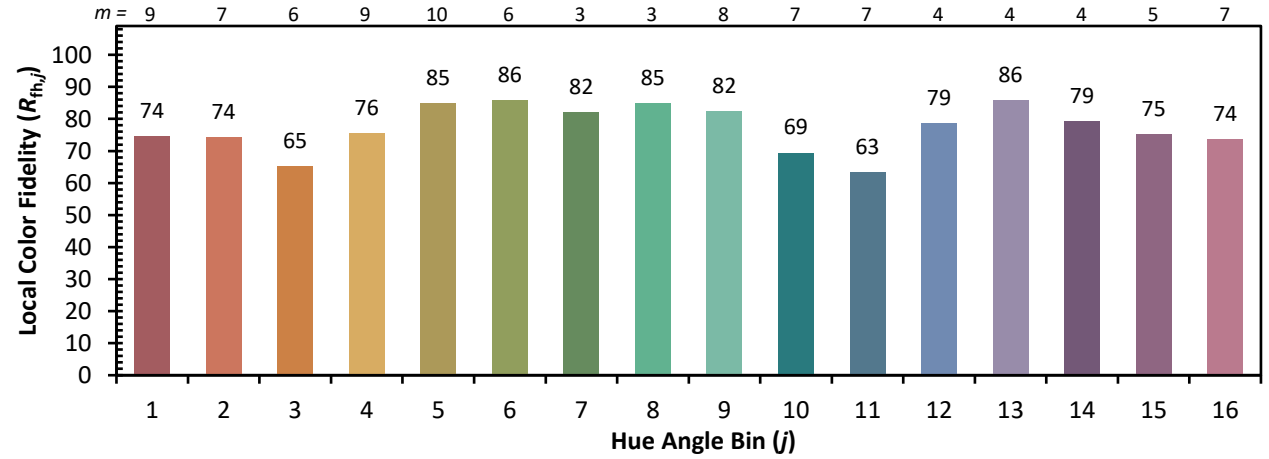
Color Rendition by Hue-Angle Bin







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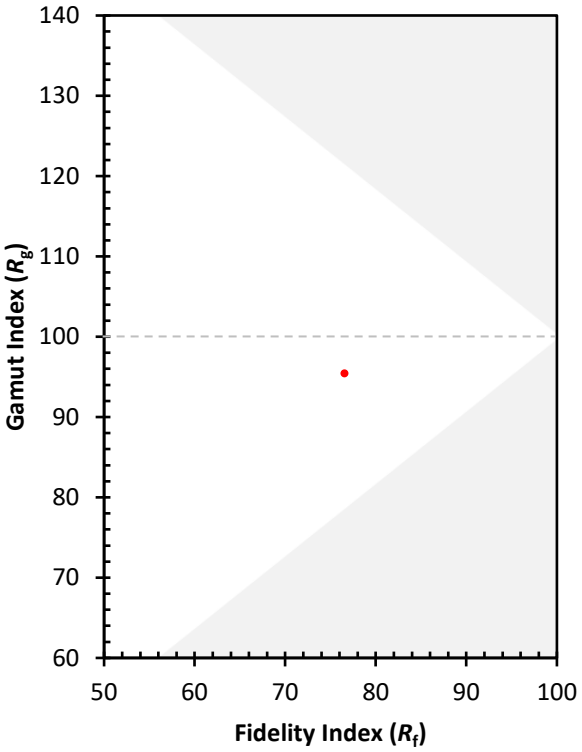
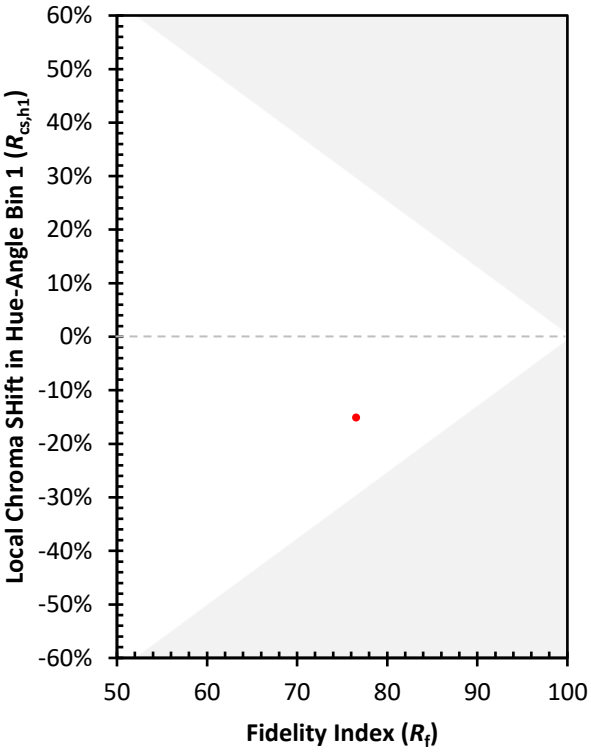
Measure Comparisons





(END OF REPORT)