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: P833893

Luminaire Tested: **TTN-D3-735-U-MQ-UPL1**

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:	P833893
	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-D3-735-U-MQ-UPL1
Description:	TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
	3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7293.9 lumens
Efficiency:	N/A
Efficacy:	118.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification:	Type V - Short
BUG Rating:	B3 - U3 - G2

Input Watts (W):	61.8
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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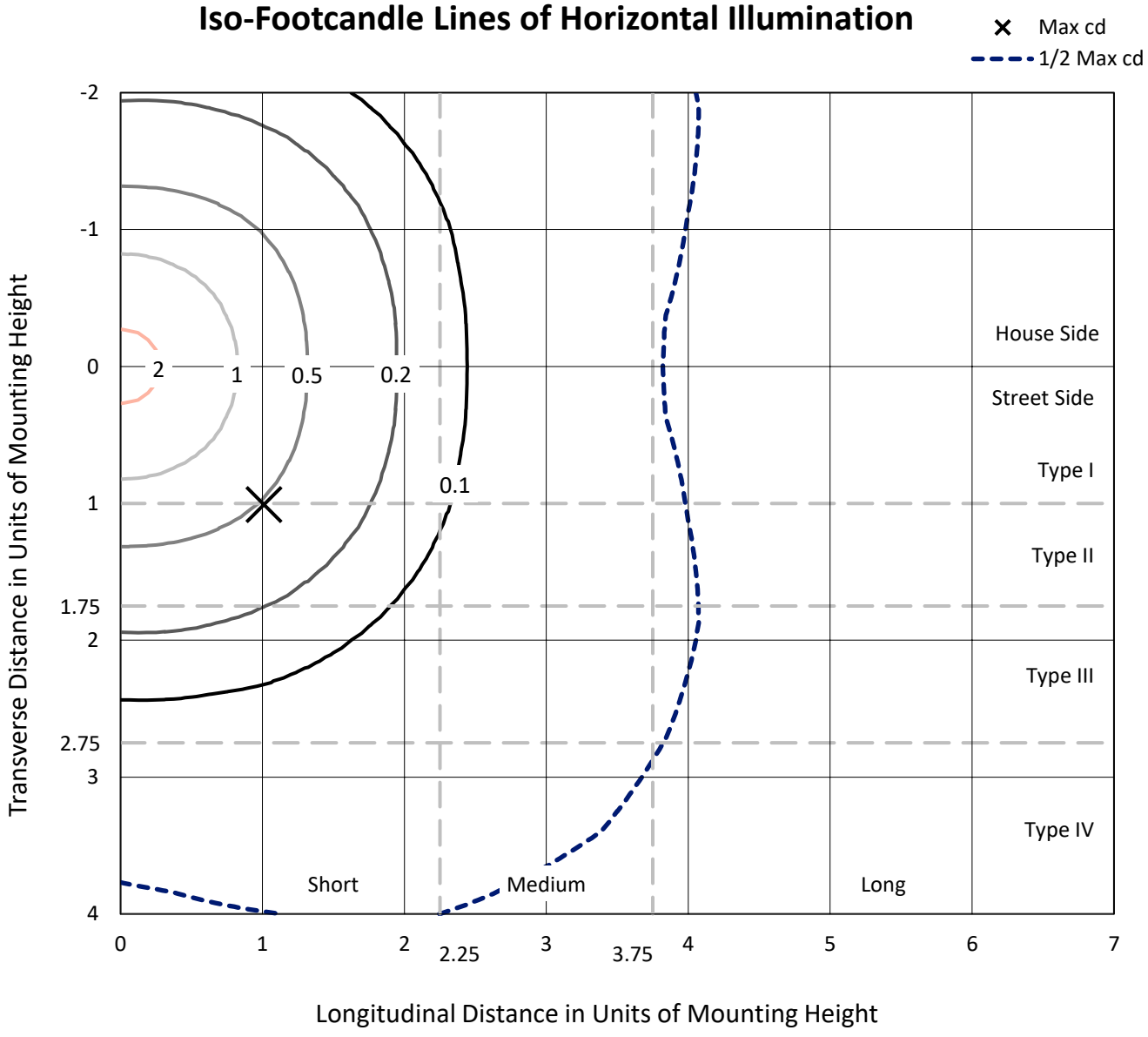
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type V - Short - N/A

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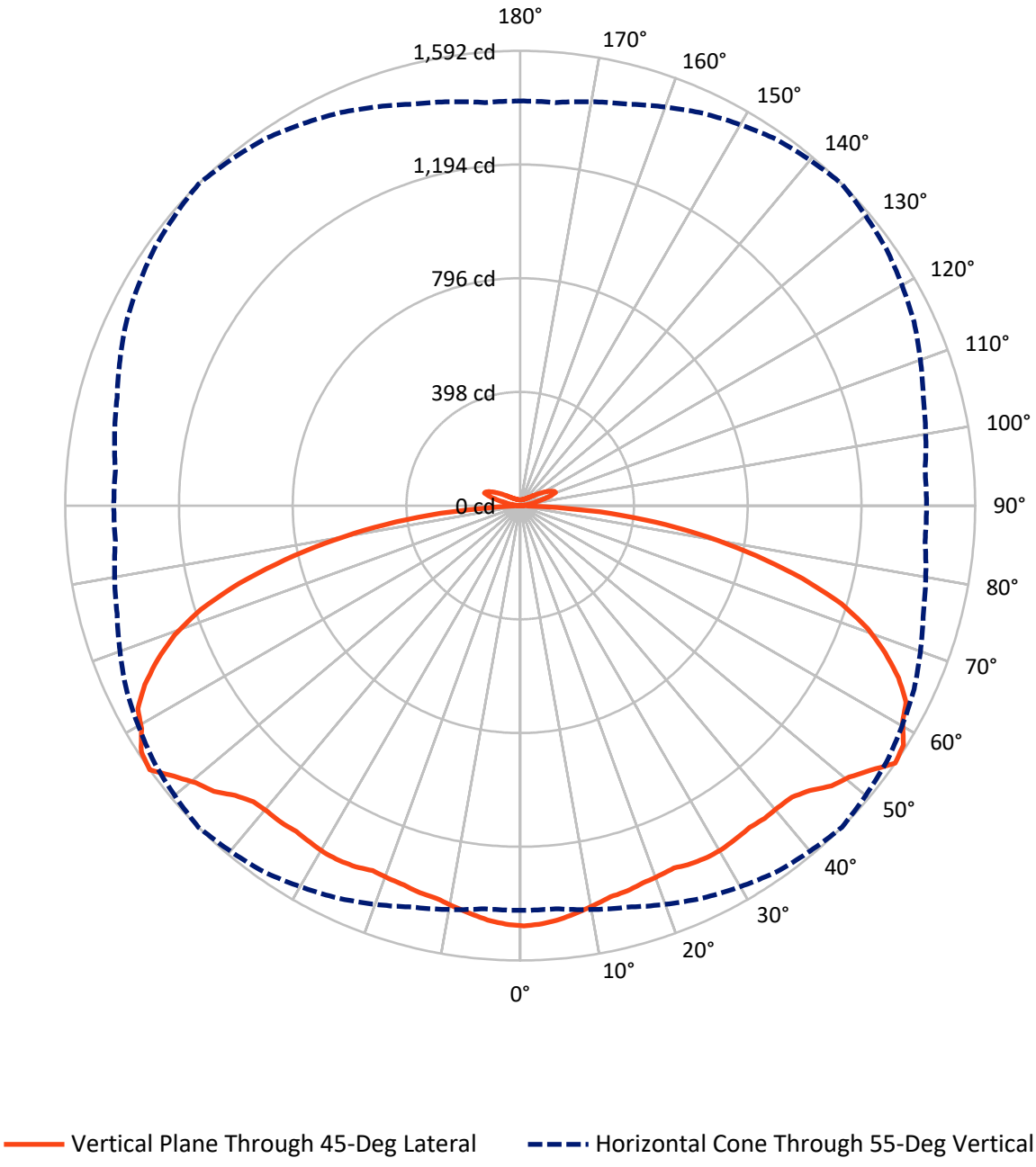
Luminous Intensity Polar Plot



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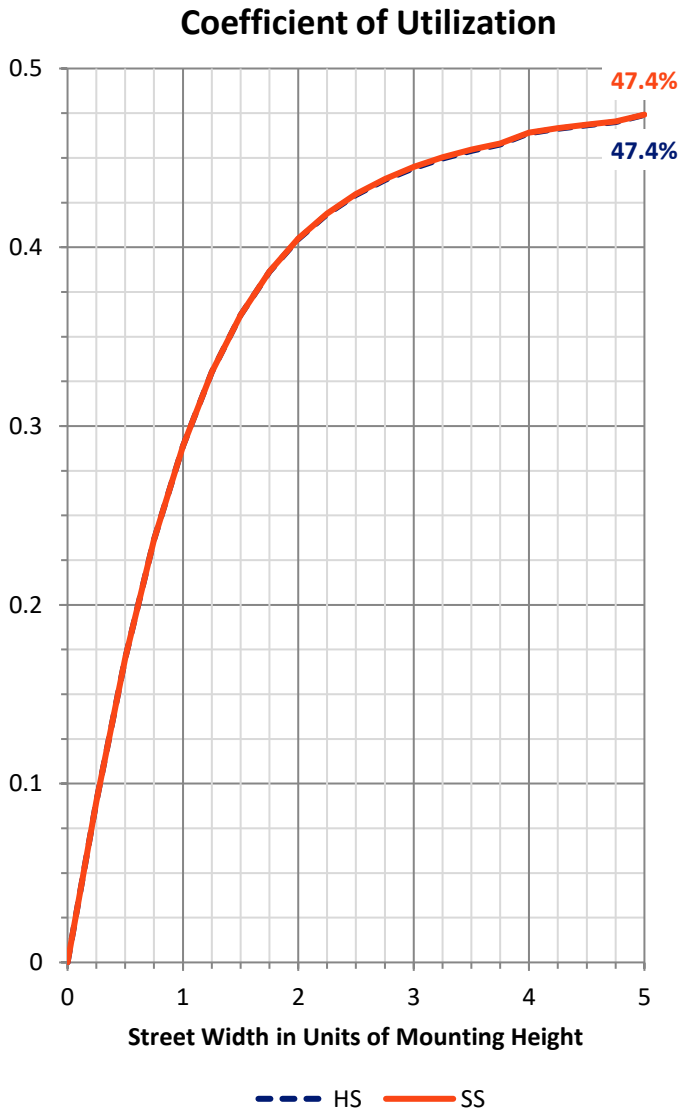
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3496.7	150.2	3646.9
	% Fixture	47.9	2.1	50.0
Street Side	Lumens	3496.7	150.2	3646.9
	% Fixture	47.9	2.1	50.0
Total	Lumens	6993.4	300.5	7293.9
	% Fixture	95.9	4.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	1.9
10°-20°	395.3	5.4
20°-30°	638.9	8.8
30°-40°	864.6	11.9
40°-50°	1083.0	14.8
50°-60°	1327.1	18.2
60°-70°	1330.4	18.2
70°-80°	960.0	13.2
80°-90°	256.4	3.5
90°-100°	6.7	0.1
100°-110°	68.2	0.9
110°-120°	99.6	1.4
120°-130°	57.8	0.8
130°-140°	30.6	0.4
140°-150°	18.2	0.2
150°-160°	11.2	0.2
160°-170°	6.1	0.1
170°-180°	2.0	0.0
0°-90°	6993.4	95.9
0°-180°	7293.9	100.0



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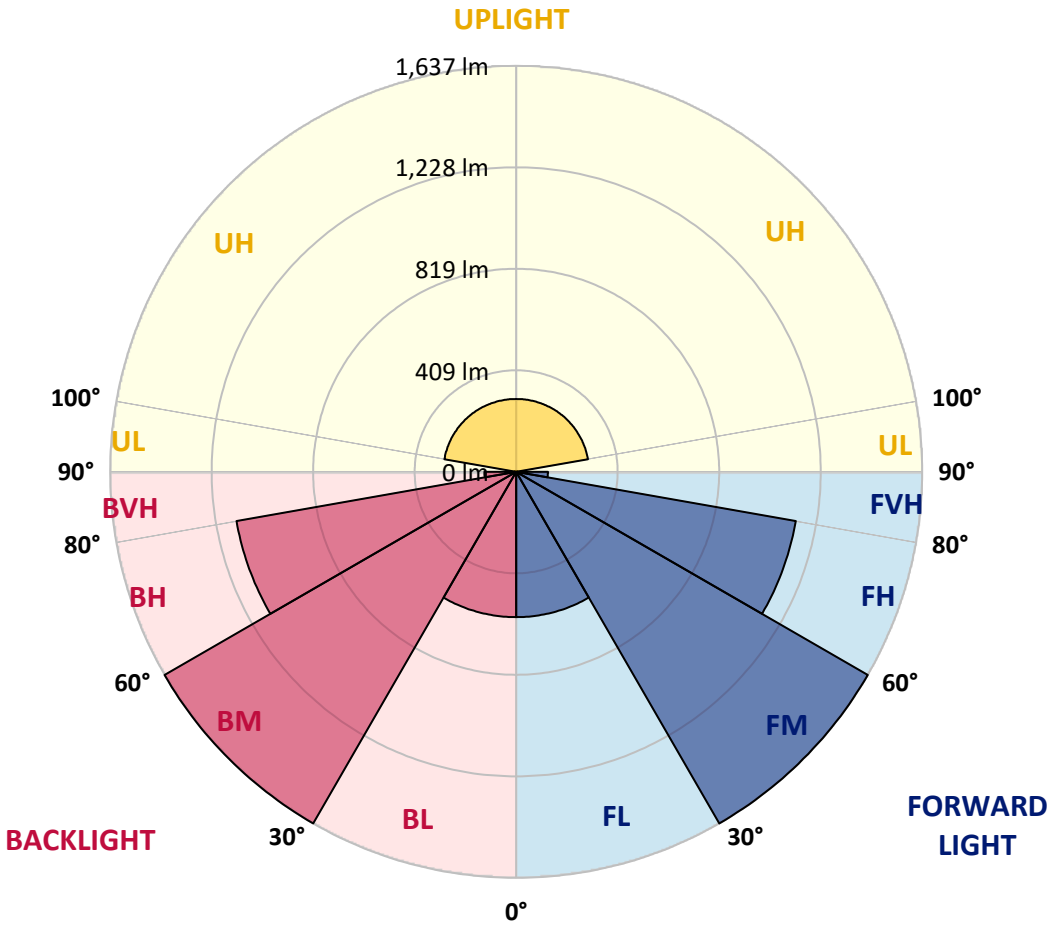
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	586.0	8.0			
FM	(30°-60°)	1637.3	22.4			
FH	(60°-80°)	1145.2	15.7			G1/1800
FVH	(80°-90°)	128.2	1.8			G2/225
BL	(0°-30°)	586.0	8.0	B2/1000		
BM	(30°-60°)	1637.3	22.4	B2/2500		
BH	(60°-80°)	1145.2	15.7	B3/2500		G1/1800
BVH	(80°-90°)	128.2	1.8			G2/225
UL	(90°-100°)	6.7	0.1		U1/10	
UH	(100°-180°)	293.8	4.0		U3/500	

BUG Rating: B3-U3-G2
Type V Short



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REPORT NUMBER: P833893
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3
2.5°	1465.8	1465.8	1465.8	1460.3	1465.8	1465.8	1465.8	1465.8	1465.8	1465.8	1465.8
5°	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8
7.5°	1438.3	1438.3	1438.3	1438.3	1438.3	1438.3	1438.3	1438.3	1438.3	1438.3	1438.3
10°	1416.4	1416.4	1416.4	1416.4	1421.9	1421.9	1421.9	1421.9	1416.4	1416.4	1416.4
12.5°	1399.9	1399.9	1399.9	1405.4	1405.4	1405.4	1405.4	1405.4	1405.4	1405.4	1399.9
15°	1394.4	1394.4	1394.4	1394.4	1399.9	1399.9	1399.9	1399.9	1394.4	1394.4	1394.4
17.5°	1383.4	1383.4	1383.4	1388.9	1388.9	1388.9	1388.9	1388.9	1383.4	1383.4	1383.4
20°	1372.5	1372.5	1377.9	1377.9	1383.4	1383.4	1383.4	1377.9	1377.9	1372.5	1377.9
22.5°	1372.5	1372.5	1372.5	1377.9	1377.9	1377.9	1377.9	1372.5	1372.5	1372.5	1372.5
25°	1372.5	1372.5	1377.9	1383.4	1383.4	1388.9	1383.4	1377.9	1372.5	1372.5	1372.5
27.5°	1377.9	1377.9	1383.4	1388.9	1388.9	1394.4	1388.9	1383.4	1377.9	1377.9	1377.9
30°	1377.9	1377.9	1383.4	1388.9	1388.9	1394.4	1388.9	1383.4	1377.9	1377.9	1377.9
32.5°	1367.0	1372.5	1377.9	1383.4	1388.9	1388.9	1388.9	1383.4	1377.9	1372.5	1372.5
35°	1361.5	1367.0	1372.5	1377.9	1383.4	1383.4	1383.4	1377.9	1372.5	1367.0	1367.0
37.5°	1356.0	1356.0	1367.0	1372.5	1377.9	1388.9	1383.4	1372.5	1367.0	1361.5	1361.5
40°	1350.5	1356.0	1361.5	1372.5	1377.9	1388.9	1383.4	1372.5	1361.5	1356.0	1356.0
42.5°	1350.5	1350.5	1361.5	1372.5	1383.4	1394.4	1388.9	1377.9	1361.5	1356.0	1350.5
45°	1356.0	1361.5	1377.9	1399.9	1410.9	1421.9	1416.4	1399.9	1372.5	1361.5	1356.0
47.5°	1377.9	1383.4	1399.9	1421.9	1449.3	1465.8	1449.3	1421.9	1399.9	1383.4	1377.9
50°	1388.9	1394.4	1421.9	1449.3	1487.7	1493.2	1487.7	1449.3	1421.9	1394.4	1394.4
52.5°	1410.9	1410.9	1443.8	1493.2	1526.2	1537.2	1526.2	1498.7	1443.8	1416.4	1410.9
55°	1416.4	1416.4	1454.8	1515.2	1564.6	1592.0	1564.6	1520.7	1460.3	1421.9	1421.9
57.5°	1383.4	1394.4	1443.8	1504.2	1564.6	1581.1	1564.6	1509.7	1449.3	1399.9	1394.4
60°	1345.0	1361.5	1405.4	1476.8	1520.7	1537.2	1526.2	1476.8	1410.9	1361.5	1356.0
62.5°	1306.6	1328.5	1377.9	1432.8	1498.7	1515.2	1498.7	1432.8	1377.9	1328.5	1306.6
65°	1224.2	1246.2	1317.6	1383.4	1443.8	1454.8	1449.3	1383.4	1317.6	1246.2	1235.2
67.5°	1141.9	1158.4	1207.8	1312.1	1361.5	1377.9	1367.0	1306.6	1213.3	1158.4	1152.9
70°	1054.0	1070.5	1114.4	1213.3	1262.7	1290.1	1268.1	1213.3	1114.4	1070.5	1065.0
72.5°	938.8	960.7	1010.1	1098.0	1147.4	1174.8	1152.9	1098.0	1010.1	955.2	944.3
75°	801.5	818.0	878.4	949.7	999.1	1021.1	1004.6	955.2	878.4	818.0	812.5
77.5°	653.3	669.8	724.7	796.0	823.5	845.4	829.0	790.5	724.7	669.8	664.3
80°	494.1	510.6	560.0	614.9	642.3	664.3	647.8	609.4	560.0	510.6	505.1
82.5°	323.9	340.4	384.3	428.2	455.7	477.6	461.1	422.7	389.8	340.4	334.9
85°	137.2	153.7	192.1	236.1	258.0	280.0	263.5	230.6	192.1	159.2	153.7
87.5°	11.0	16.5	16.5	22.0	16.5	27.4	16.5	16.5	16.5	16.5	16.5
90°	2.6	2.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.6	2.6
92.5°	2.6	2.6	2.6	3.6	4.1	3.6	4.1	3.1	3.1	2.6	2.6
95°	3.1	3.1	3.6	4.6	5.7	6.2	6.2	3.6	3.6	3.1	3.1
97.5°	4.1	4.6	4.6	5.7	9.3	17.0	10.3	5.1	5.1	4.6	4.1
100°	6.7	7.2	7.2	12.9	27.2	36.5	26.2	13.4	9.8	7.2	7.2
102.5°	21.6	22.6	27.8	41.6	61.7	56.0	47.3	44.7	30.8	24.7	23.6
105°	55.0	54.5	58.6	69.4	86.4	84.8	78.1	70.9	61.2	56.5	56.5
107.5°	72.5	72.5	76.1	85.3	98.2	114.6	116.2	92.0	80.7	75.6	75.0
110°	81.7	81.7	84.8	92.5	109.5	132.6	131.6	113.6	99.7	93.0	92.0

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Scaled Data Report

REPORT NUMBER: P833893
CATALOG NUMBER: TTN-D3-735-U-MQ-UPL1

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	83.8	84.3	88.4	100.2	118.7	*129.0*	124.4	117.2	111.0	105.9	104.9
115°	86.9	86.9	91.5	102.8	113.1	*117.2*	112.1	106.4	102.3	100.2	101.3
117.5°	85.8	87.4	88.4	94.6	101.3	*104.4*	101.8	94.1	91.0	90.0	88.4
120°	79.7	79.7	80.7	83.8	87.4	*88.9*	87.9	82.8	80.2	79.7	78.6
122.5°	70.9	71.5	70.9	72.5	75.0	*76.6*	75.6	71.5	70.4	70.4	69.4
125°	62.2	62.2	61.7	62.7	64.3	*63.7*	64.3	62.2	61.7	61.7	61.2
127.5°	56.0	55.5	54.5	55.0	55.5	*55.5*	56.0	54.0	54.5	55.0	54.5
130°	49.9	49.9	48.8	48.8	48.8	*47.8*	48.8	47.8	48.3	48.8	49.3
132.5°	44.2	44.2	42.7	42.2	42.2	*42.2*	42.7	42.2	43.2	44.2	44.2
135°	39.6	39.6	38.0	38.6	38.6	*38.0*	38.6	38.0	39.1	39.6	39.6
137.5°	36.0	36.0	35.0	35.0	35.0	*34.4*	35.0	35.0	35.5	36.5	37.0
140°	32.9	32.9	32.4	32.4	31.9	*32.4*	32.4	32.4	32.9	33.4	33.4
142.5°	31.4	30.8	30.3	29.8	30.3	*30.3*	30.3	29.8	30.3	31.4	31.4
145°	28.8	28.8	28.3	28.3	28.3	*28.8*	28.3	28.3	28.8	28.8	29.3
147.5°	27.2	27.2	26.7	27.2	27.2	*27.2*	27.2	26.7	27.2	27.2	27.8
150°	26.7	26.2	25.7	26.2	26.2	*25.7*	25.7	25.7	25.7	26.2	26.2
152.5°	25.2	25.2	24.7	25.2	24.7	*24.7*	24.7	24.7	24.7	25.2	25.7
155°	24.2	24.2	23.6	24.2	24.2	*24.2*	24.2	24.2	24.2	24.2	24.2
157.5°	23.1	23.6	23.1	23.1	23.1	*23.1*	23.1	23.1	23.1	23.6	23.6
160°	22.6	22.6	22.6	22.6	22.1	*22.1*	22.1	22.6	22.6	22.6	23.1
162.5°	22.1	22.1	22.1	22.1	21.6	*21.6*	21.6	21.6	22.1	22.1	22.6
165°	22.1	21.6	21.6	21.6	21.1	*21.1*	21.1	21.1	21.6	22.1	21.6
167.5°	21.1	21.1	21.1	21.1	21.1	*20.6*	20.6	21.1	21.1	21.1	21.6
170°	21.1	21.1	20.6	20.6	20.6	*20.6*	20.6	20.6	20.6	20.6	21.1
172.5°	21.1	21.1	21.1	21.1	20.6	*20.6*	20.6	20.6	20.6	21.1	21.1
175°	21.1	21.1	21.1	21.1	20.6	*20.6*	20.6	21.1	21.1	21.1	20.6
177.5°	21.1	21.1	21.1	21.1	20.6	*21.1*	21.1	21.1	21.1	21.1	21.1
180°	21.1	21.1	21.1	21.1	21.1	*21.1*	21.1	21.1	21.1	21.1	21.1

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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

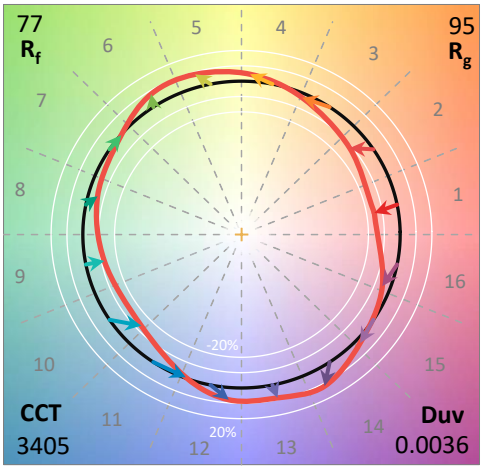
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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	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				



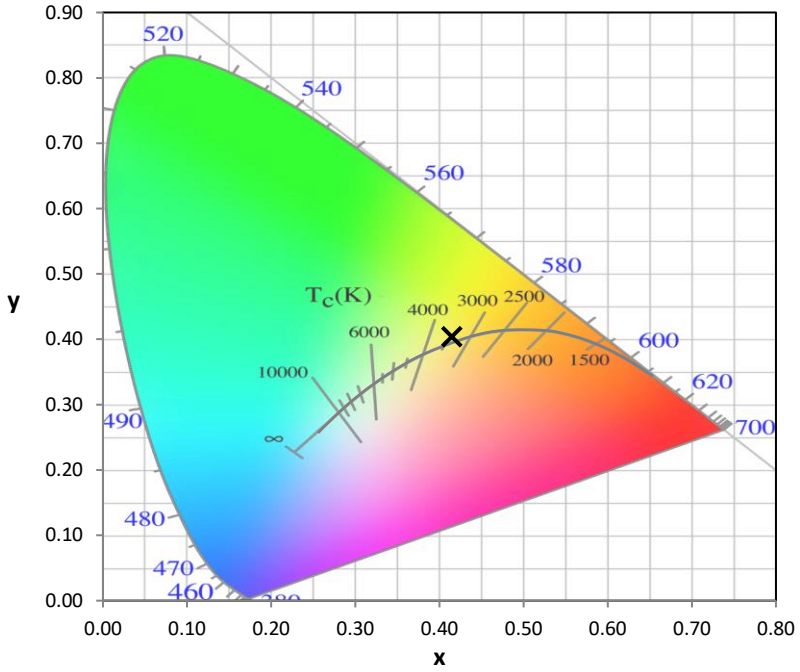
Test Conditions

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

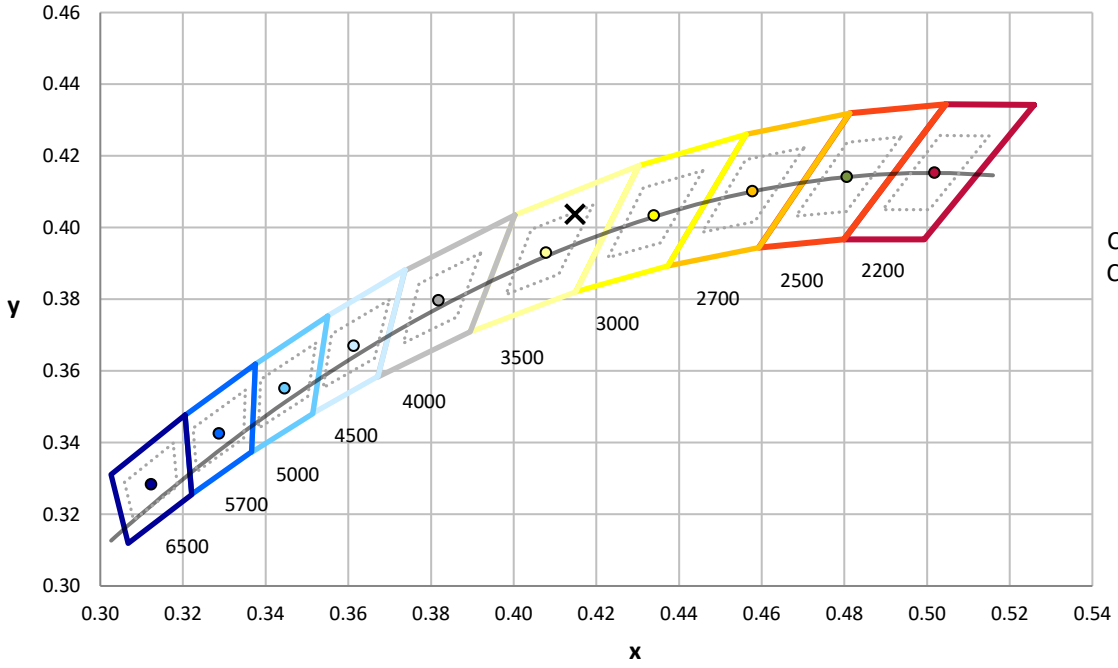
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

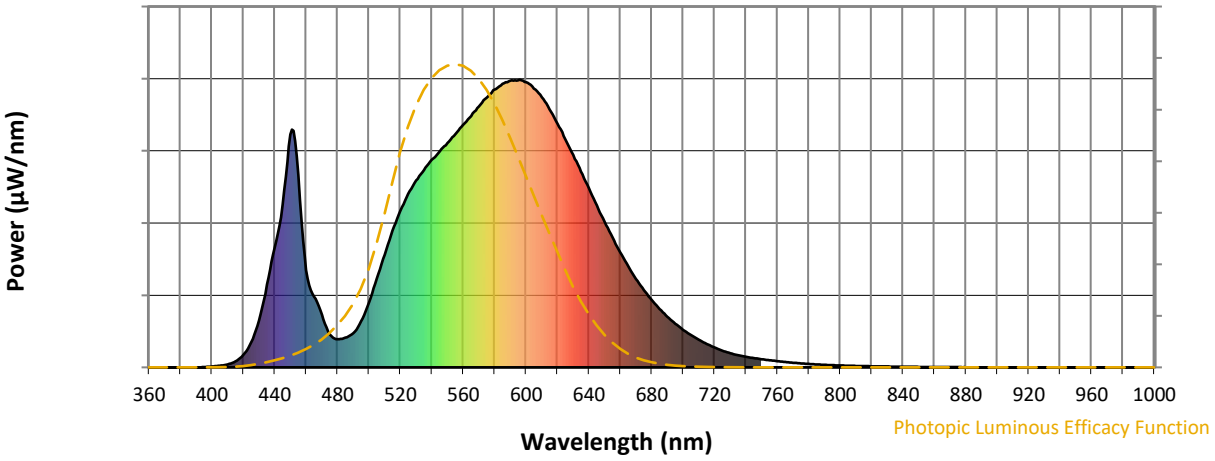


CCT = 3405K
CIE x = 0.4148
CIE y = 0.4038
Duv = 0.0036

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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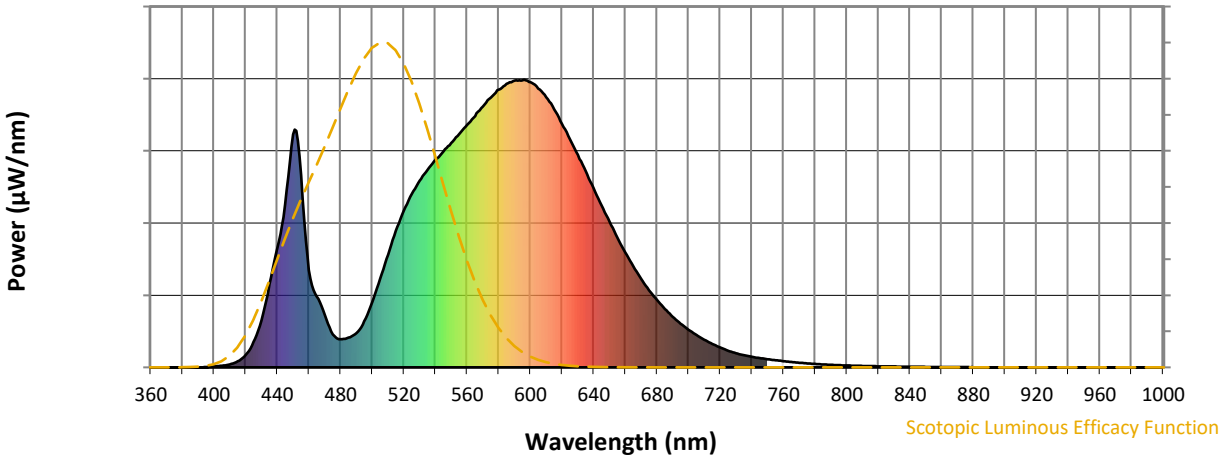
Scotopic Flux vs. Wavelength



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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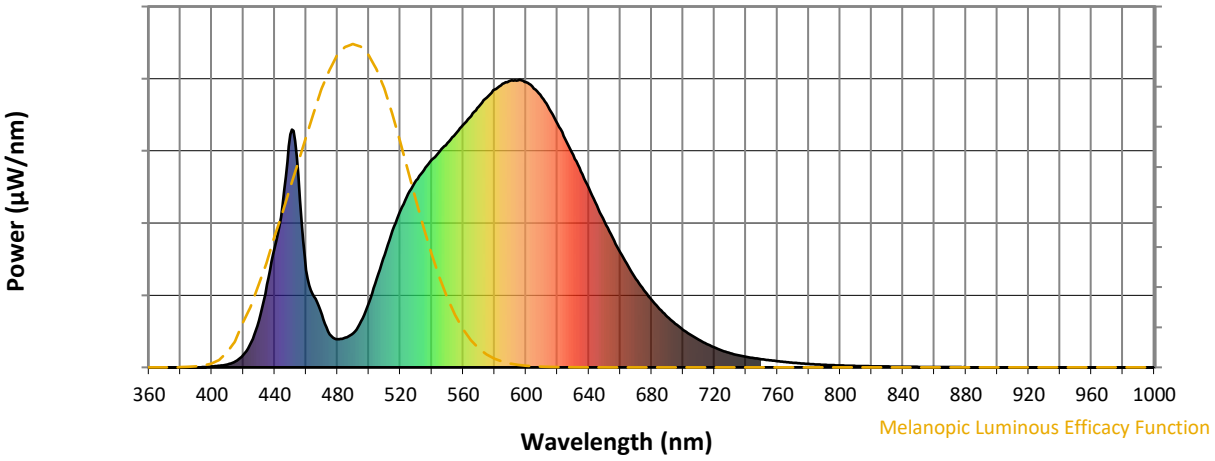
Melanopic Flux vs. Wavelength



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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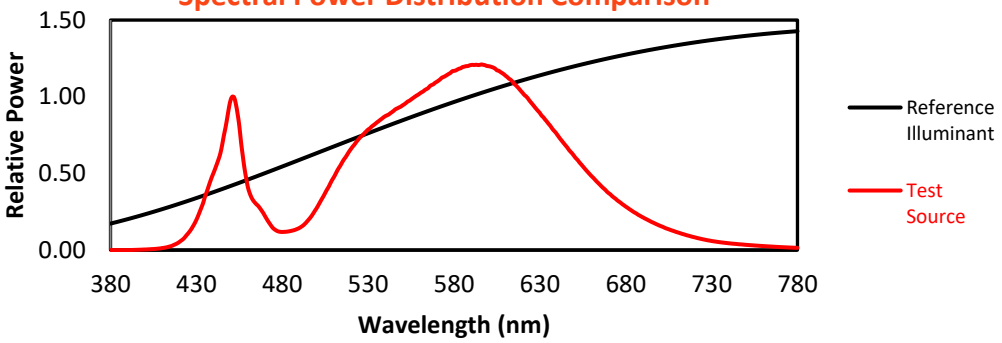
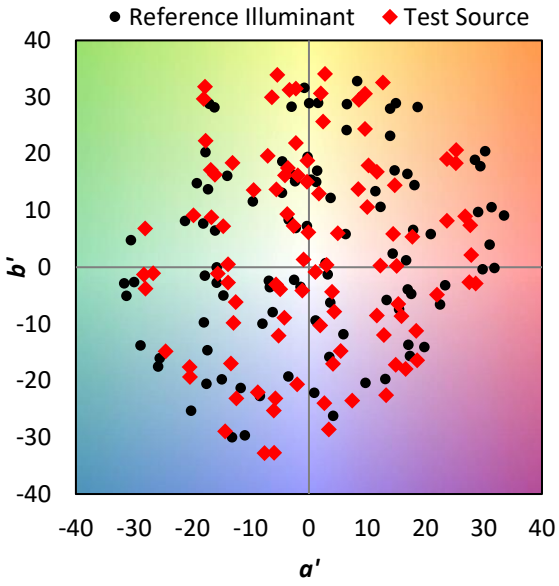
Summary

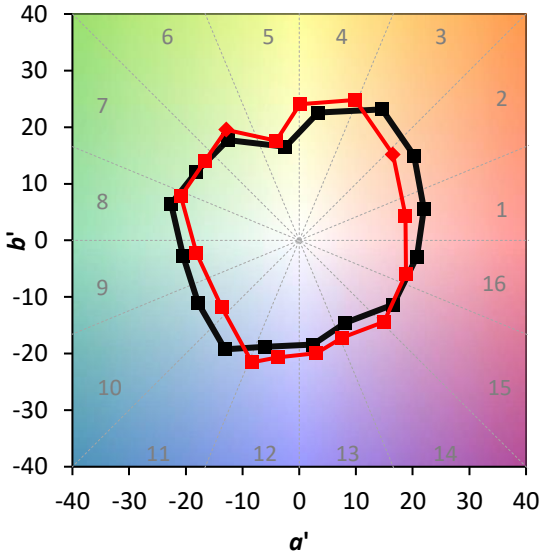
R_f = 76.6
R_g = 95.4
CIE R_a = 73.9
R_9 = -18.0

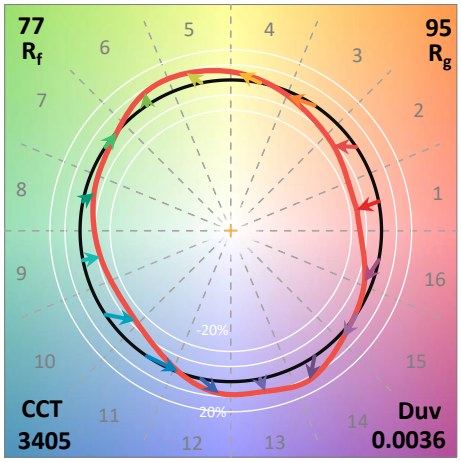
Spectral Power Distribution Comparison

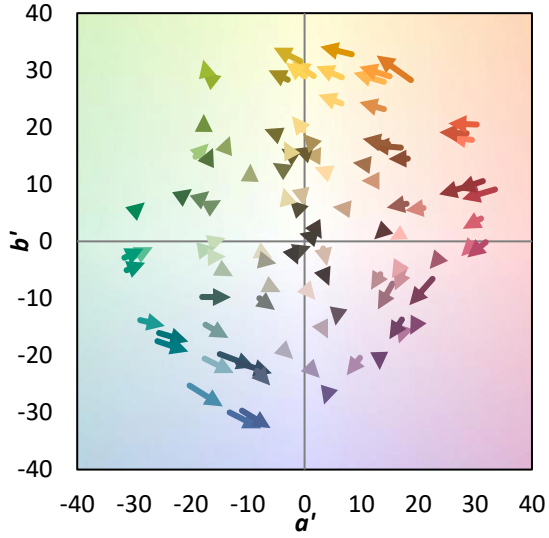


Color Vector Graphics









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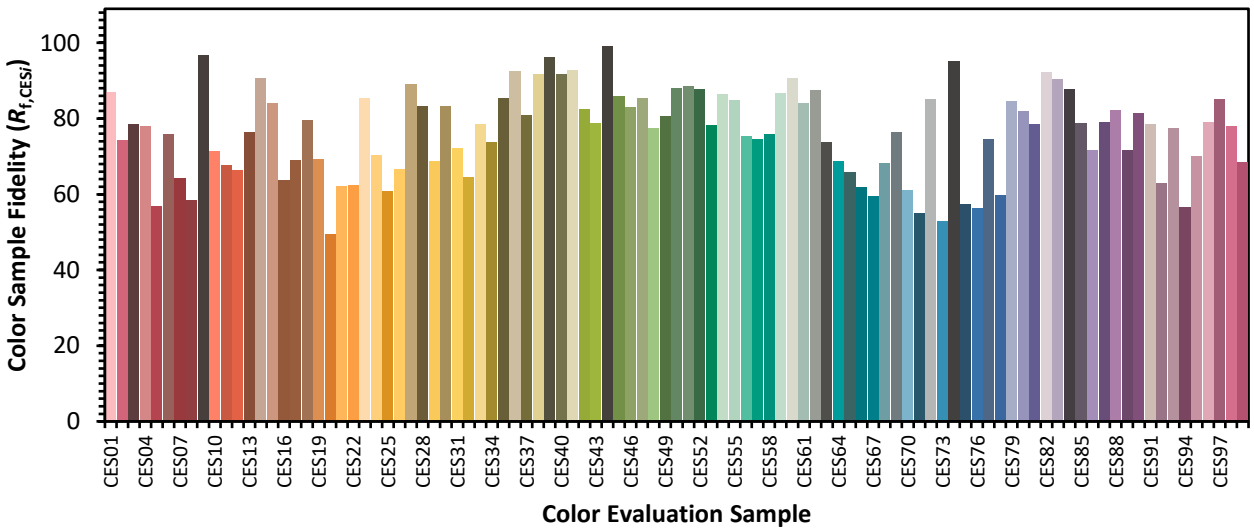
Individual Sample Fidelity Index ($R_{f,i}$)

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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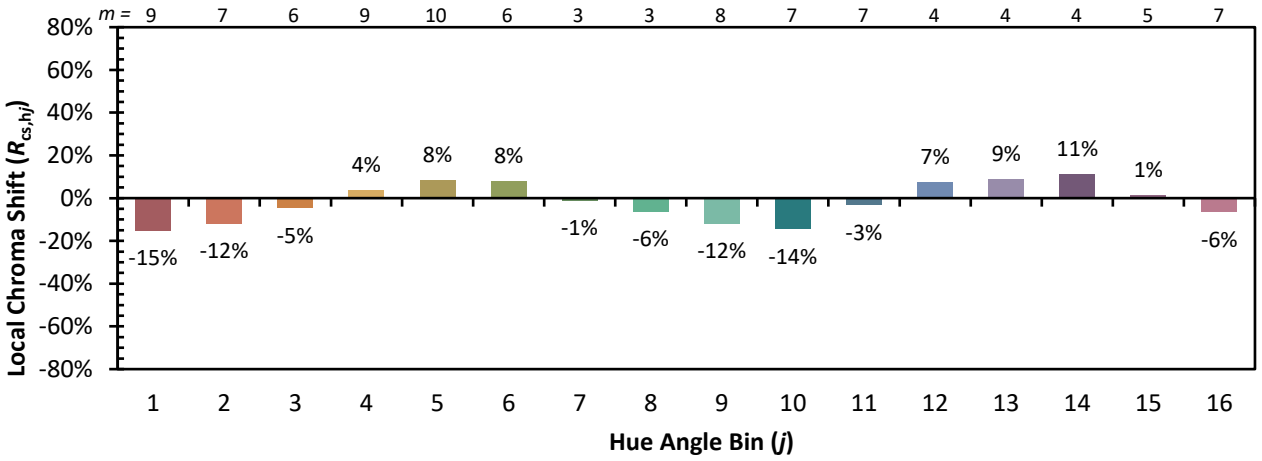
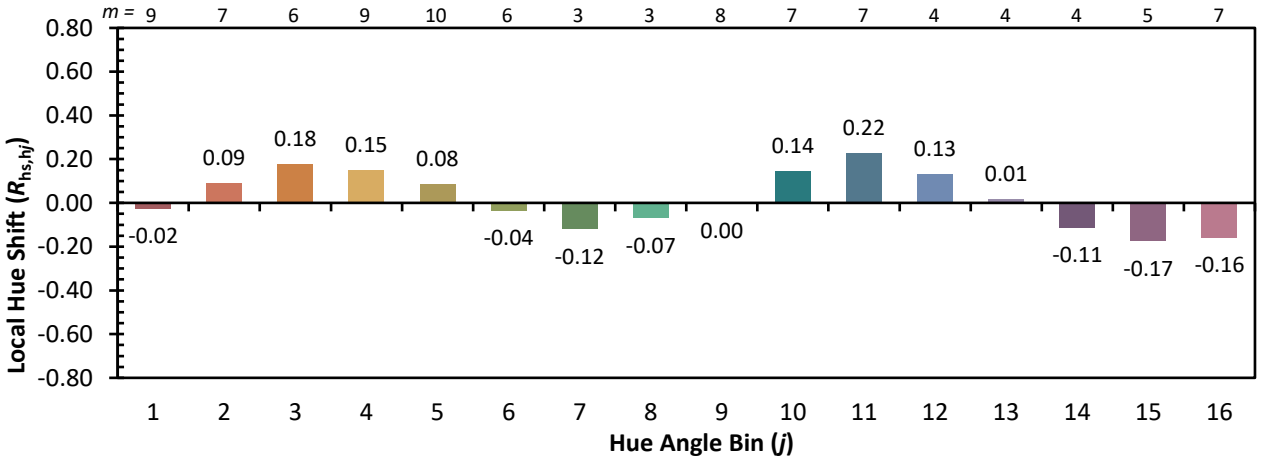
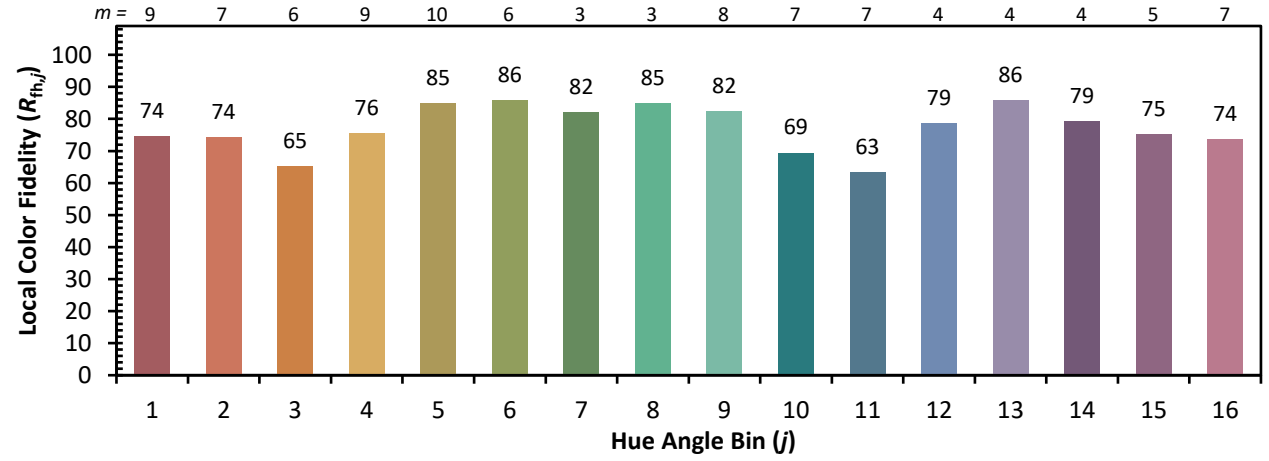
Color Rendition by Hue-Angle Bin







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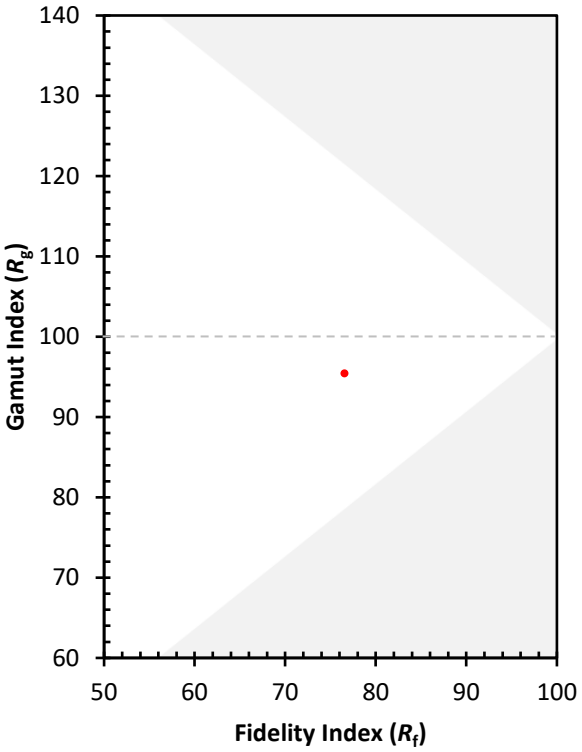
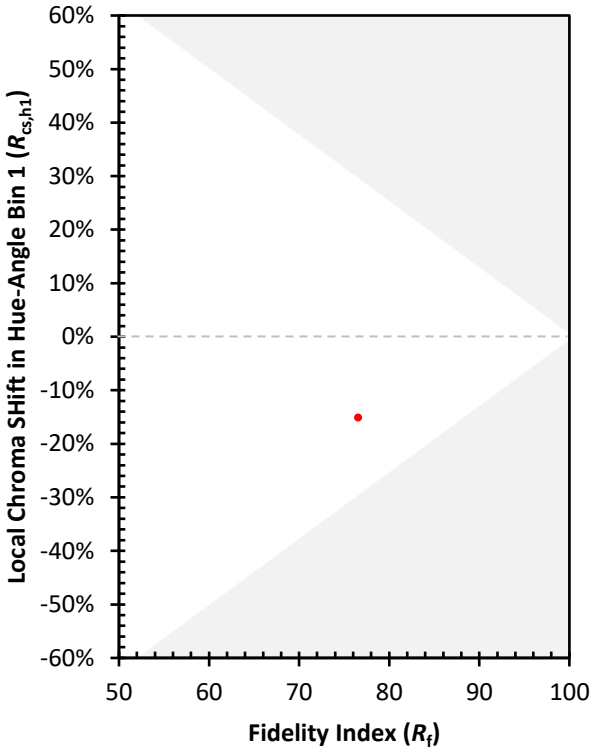
Measure Comparisons





(END OF REPORT)