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: P832586

Luminaire Tested: **TTN-D1-830-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:	P832586
	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-D1-830-U-DL-CG
Description:	TOPTIER NANO LED PARKING GARAGE LUMINAIRE
	3000K, 80 CRI LEDS AND DRIVE LANE DISTRIBUTION WITH CLEAR GLASS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2831 lumens
Efficiency:	N/A
Efficacy:	107.2 lumens/watt
Luminous Opening:	Circular (Dia: 0.71' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	26.4
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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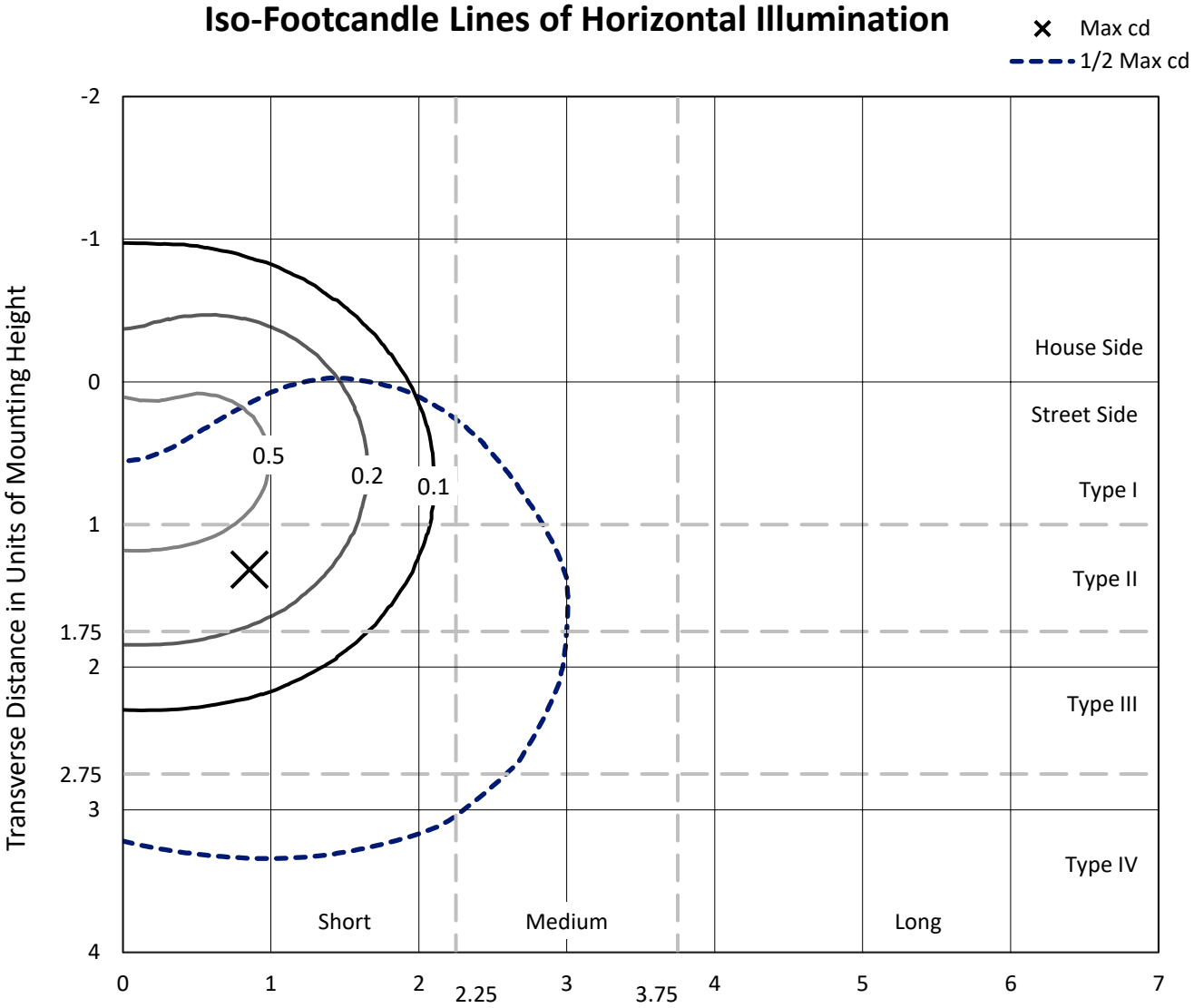
REPORT NUMBER: P832586
CATALOG NUMBER: TTN-D1-830-U-DL-CG

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
Type IV - Short - N/A

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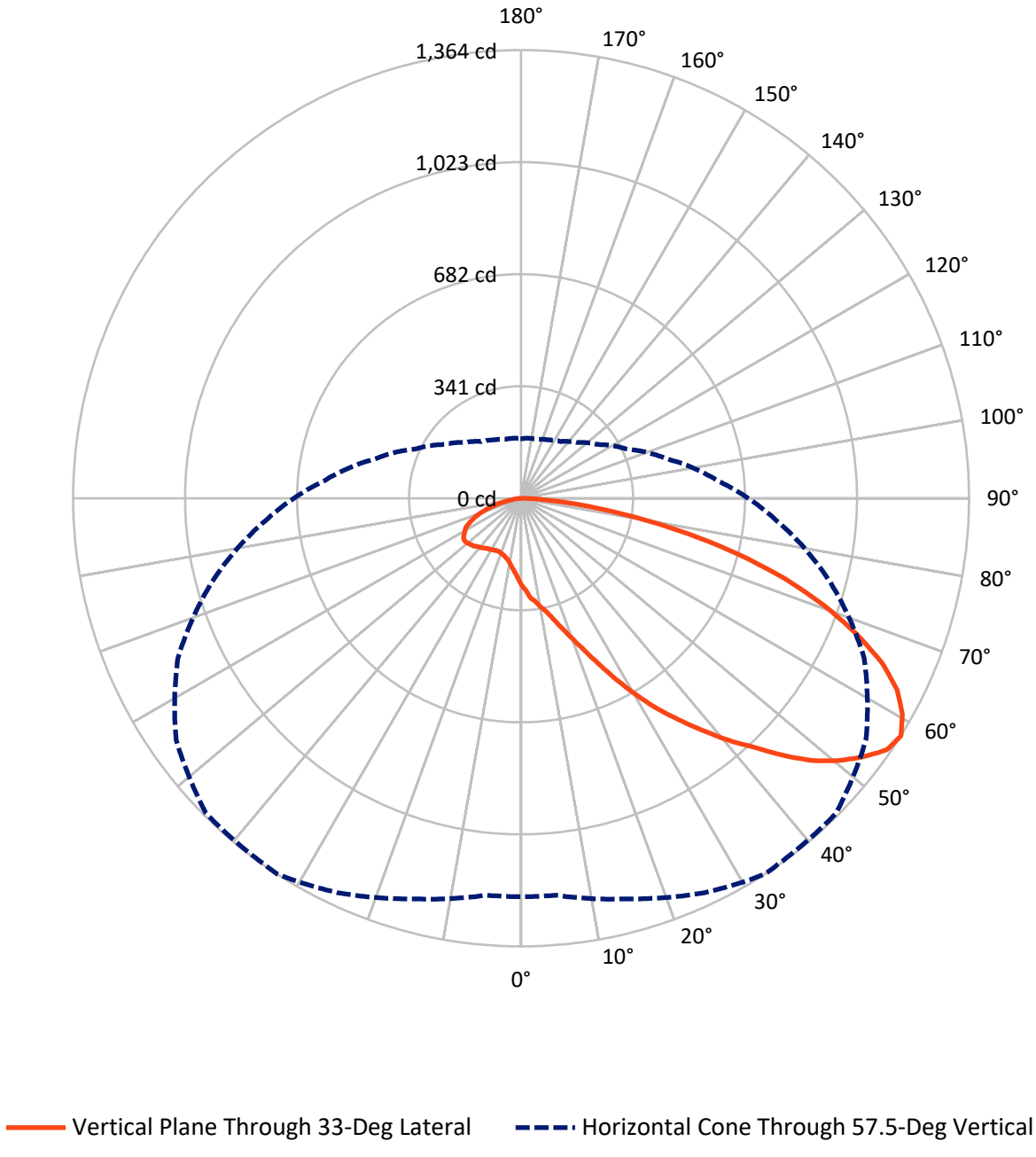
Luminous Intensity Polar Plot



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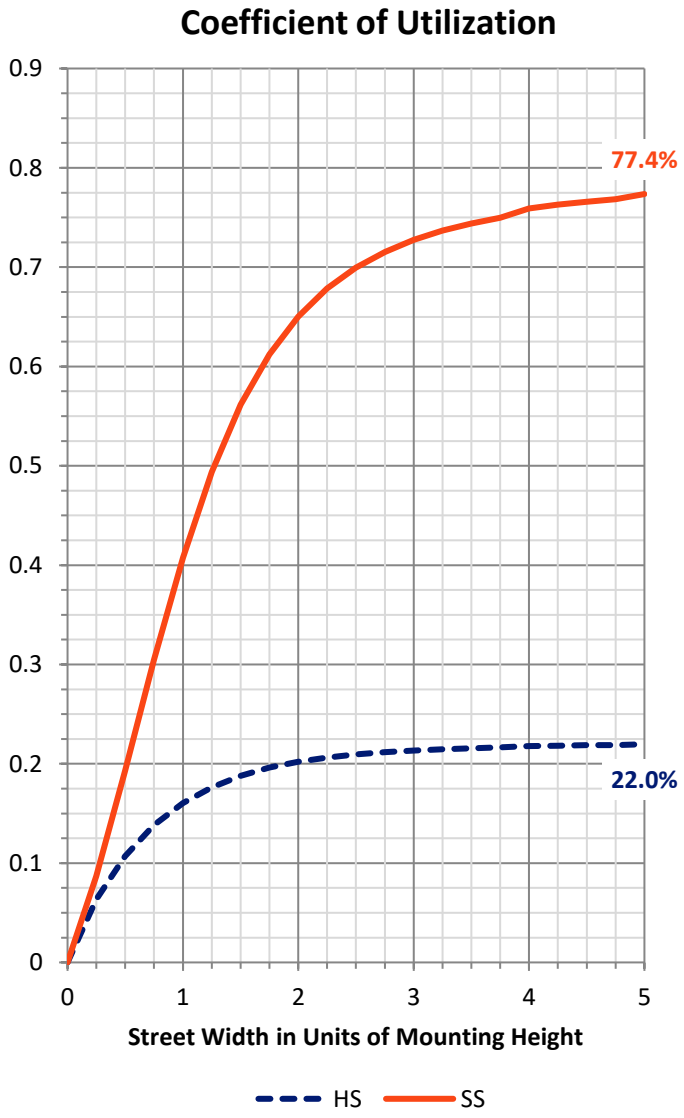
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	624.7	0.0	624.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	2206.3	0.0	2206.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	2831.0	0.0	2831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.4	0.9
10°-20°	82.3	2.9
20°-30°	173.6	6.1
30°-40°	315.3	11.1
40°-50°	498.2	17.6
50°-60°	661.6	23.4
60°-70°	636.8	22.5
70°-80°	373.8	13.2
80°-90°	64.2	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°	2831.0	100.0
0°-180°	2831.0	100.0



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REPORT NUMBER: P832586
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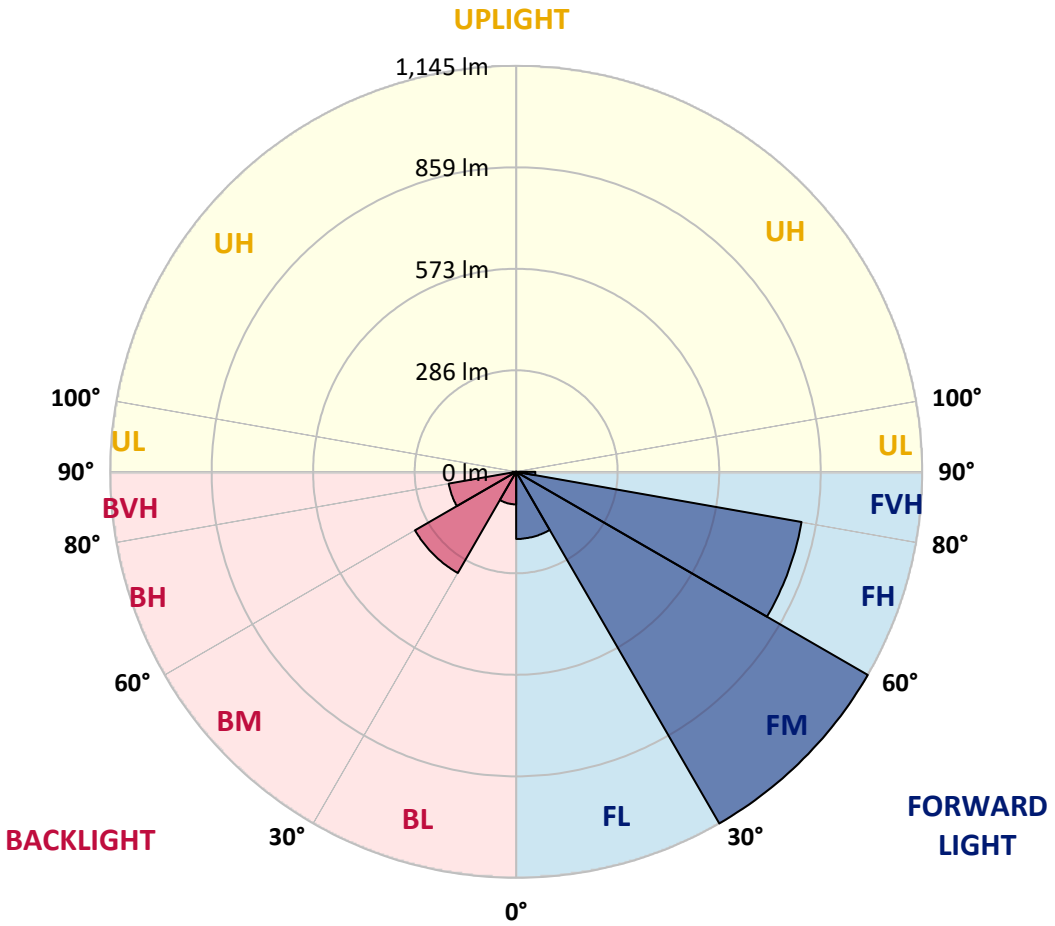
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	189.4	6.7			
FM	(30°-60°)	1145.3	40.5			
FH	(60°-80°)	817.4	28.9			G1/1800
FVH	(80°-90°)	54.2	1.9			G1/100
BL	(0°-30°)	91.9	3.2	B0/110		
BM	(30°-60°)	329.6	11.6	B1/1000		
BH	(60°-80°)	193.2	6.8	B1/500		G1/500
BVH	(80°-90°)	10.0	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type IV Short



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REPORT NUMBER: P832586
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	265.3	265.3	265.3	265.3	*265.3*	265.3	265.3	265.3	265.3	265.3	265.3
2.5°	282.7	285.2	282.7	282.7	*280.2*	280.2	277.7	275.3	272.8	270.3	265.3
5°	314.9	314.9	312.4	307.5	*305.0*	302.5	297.6	290.1	285.2	277.7	270.3
7.5°	329.8	329.8	327.3	322.4	*317.4*	314.9	307.5	297.6	290.1	280.2	270.3
10°	349.6	352.1	347.2	342.2	*337.2*	334.8	324.8	312.4	300.0	287.7	272.8
12.5°	372.0	374.4	372.0	364.5	*357.1*	354.6	344.7	329.8	314.9	297.6	280.2
15°	401.7	406.7	399.2	394.3	*386.8*	384.4	372.0	354.6	337.2	314.9	292.6
17.5°	436.4	438.9	434.0	426.5	*421.6*	419.1	406.7	386.8	362.0	337.2	310.0
20°	476.1	478.6	476.1	466.2	*461.2*	458.8	446.4	424.0	394.3	367.0	332.3
22.5°	523.2	528.2	520.7	513.3	*508.3*	508.3	493.5	468.7	434.0	399.2	359.6
25°	577.8	585.2	575.3	570.3	*565.4*	562.9	550.5	520.7	481.1	438.9	389.3
27.5°	644.7	649.7	642.3	639.8	*629.9*	629.9	610.0	575.3	533.1	483.6	426.5
30°	704.2	709.2	704.2	704.2	*696.8*	694.3	674.5	639.8	587.7	528.2	458.8
32.5°	761.3	766.2	763.8	766.2	*763.8*	761.3	736.5	699.3	647.2	570.3	491.0
35°	818.3	825.8	823.3	830.7	*828.2*	825.8	805.9	761.3	699.3	622.4	525.7
37.5°	877.8	885.3	885.3	892.7	*895.2*	895.2	872.9	825.8	756.3	669.5	565.4
40°	942.3	949.7	949.7	962.1	*967.1*	967.1	942.3	895.2	818.3	721.6	607.5
42.5°	1004.3	1011.7	1014.2	1026.6	*1034.1*	1036.5	1016.7	962.1	872.9	773.7	647.2
45°	1063.8	1071.3	1078.7	1103.5	*1115.9*	1113.4	1098.5	1041.5	942.3	828.2	689.4
47.5°	1120.8	1130.8	1143.2	1175.4	*1192.8*	1190.3	1180.4	1115.9	1006.8	880.3	726.6
50°	1165.5	1172.9	1197.7	1232.4	*1254.8*	1257.2	1242.4	1180.4	1061.3	920.0	753.8
52.5°	1200.2	1210.1	1239.9	1289.5	*1306.8*	1314.3	1296.9	1234.9	1115.9	954.7	776.2
55°	1225.0	1225.0	1269.6	1326.7	*1351.5*	1356.4	1356.4	1279.6	1148.1	977.0	788.6
57.5°	*1212.6*	*1212.6*	*1262.2*	*1324.2*	*1363.9*	*1361.4*	*1356.4*	*1282.0*	*1153.1*	*972.1*	*781.1*
60°	1177.9	1185.3	1232.4	1294.4	*1334.1*	1331.6	1316.7	1249.8	1128.3	952.2	766.2
62.5°	1130.8	1143.2	1192.8	1239.9	*1284.5*	1291.9	1272.1	1212.6	1086.1	922.5	739.0
65°	1041.5	1058.9	1120.8	1172.9	*1207.6*	1222.5	1197.7	1143.2	1029.1	865.4	681.9
67.5°	942.3	954.7	1006.8	1081.2	*1101.0*	1115.9	1103.5	1046.5	949.7	773.7	617.5
70°	828.2	848.1	882.8	957.2	*979.5*	994.4	994.4	937.3	845.6	679.5	540.6
72.5°	694.3	716.6	758.8	813.4	*843.1*	853.0	850.6	803.4	721.6	575.3	456.3
75°	548.0	565.4	615.0	654.7	*686.9*	694.3	691.9	652.2	577.8	463.7	362.0
77.5°	404.2	421.6	458.8	488.5	*518.3*	513.3	513.3	483.6	436.4	344.7	275.3
80°	265.3	280.2	312.4	322.4	*354.6*	352.1	352.1	329.8	297.6	230.6	183.5
82.5°	146.3	158.7	181.0	190.9	*210.8*	205.8	208.3	193.4	173.6	128.9	104.1
85°	52.1	62.0	74.4	81.8	*91.8*	91.8	91.8	79.4	74.4	49.6	42.2
87.5°	2.5	5.0	9.9	9.9	*14.9*	14.9	14.9	9.9	9.9	2.5	2.5
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: P832586
CATALOG NUMBER: TTN-D1-830-U-DL-CG

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	265.3	265.3	265.3	265.3	265.3	265.3	265.3	265.3	265.3	265.3	265.3
2.5°	262.9	260.4	257.9	252.9	250.5	248.0	245.5	243.0	243.0	243.0	243.0
5°	265.3	262.9	255.4	248.0	240.5	233.1	228.1	225.7	223.2	220.7	220.7
7.5°	265.3	260.4	250.5	240.5	233.1	223.2	215.7	208.3	203.3	200.9	200.9
10°	267.8	260.4	248.0	238.1	225.7	213.3	203.3	193.4	188.5	183.5	183.5
12.5°	272.8	265.3	248.0	235.6	220.7	205.8	193.4	183.5	176.1	171.1	171.1
15°	282.7	272.8	252.9	235.6	218.2	200.9	188.5	176.1	168.6	163.7	163.7
17.5°	297.6	285.2	260.4	235.6	215.7	198.4	183.5	171.1	161.2	156.2	156.2
20°	314.9	300.0	270.3	240.5	215.7	195.9	181.0	166.1	156.2	151.3	151.3
22.5°	339.7	317.4	282.7	248.0	220.7	198.4	178.5	163.7	153.7	148.8	148.8
25°	367.0	342.2	297.6	257.9	225.7	198.4	178.5	163.7	153.7	148.8	146.3
27.5°	396.8	369.5	314.9	267.8	230.6	203.3	181.0	163.7	153.7	148.8	148.8
30°	424.0	391.8	332.3	280.2	238.1	205.8	183.5	166.1	153.7	148.8	148.8
32.5°	453.8	416.6	349.6	292.6	245.5	210.8	186.0	168.6	156.2	151.3	148.8
35°	483.6	441.4	367.0	302.5	252.9	215.7	188.5	171.1	158.7	153.7	153.7
37.5°	515.8	468.7	384.4	314.9	260.4	220.7	193.4	173.6	161.2	156.2	156.2
40°	550.5	496.0	401.7	324.8	267.8	225.7	198.4	178.5	166.1	161.2	161.2
42.5°	585.2	525.7	421.6	337.2	275.3	230.6	200.9	183.5	171.1	166.1	166.1
45°	619.9	550.5	438.9	349.6	282.7	238.1	208.3	188.5	176.1	171.1	171.1
47.5°	652.2	577.8	453.8	357.1	290.1	243.0	210.8	193.4	181.0	178.5	176.1
50°	674.5	595.1	463.7	364.5	292.6	245.5	215.7	195.9	186.0	181.0	181.0
52.5°	691.9	612.5	471.2	369.5	295.1	248.0	218.2	200.9	190.9	186.0	183.5
55°	701.8	615.0	471.2	364.5	292.6	248.0	218.2	200.9	190.9	186.0	186.0
57.5°	*691.9*	*602.6*	*461.2*	*354.6*	*285.2*	*240.5*	*210.8*	*195.9*	*186.0*	*183.5*	*181.0*
60°	672.0	582.7	441.4	339.7	272.8	228.1	200.9	188.5	181.0	178.5	176.1
62.5°	644.7	557.9	421.6	319.9	255.4	213.3	193.4	178.5	173.6	171.1	168.6
65°	590.2	510.8	389.3	295.1	233.1	195.9	176.1	166.1	161.2	156.2	153.7
67.5°	530.7	458.8	344.7	265.3	205.8	176.1	158.7	148.8	141.3	141.3	138.9
70°	466.2	404.2	297.6	225.7	178.5	153.7	136.4	128.9	124.0	124.0	121.5
72.5°	389.3	339.7	248.0	183.5	146.3	126.5	114.1	106.6	104.1	104.1	101.7
75°	312.4	267.8	195.9	143.8	114.1	99.2	89.3	84.3	81.8	81.8	79.4
77.5°	230.6	195.9	141.3	104.1	81.8	71.9	64.5	62.0	59.5	59.5	57.0
80°	153.7	128.9	91.8	67.0	49.6	44.6	39.7	39.7	37.2	39.7	37.2
82.5°	84.3	69.4	49.6	34.7	24.8	22.3	19.8	19.8	22.3	22.3	19.8
85°	32.2	24.8	17.4	9.9	7.4	7.4	7.4	7.4	7.4	7.4	5.0
87.5°	2.5	2.5	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

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2411-284-4

Test Date: 11/22/2024

Luminaire Tested: TTN-D0-830-U-WQ

Data in this report applies to TT and TTN families of products

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

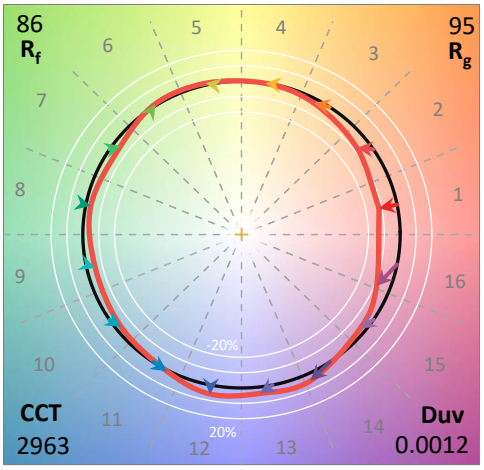
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2411-284-4
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	11/22/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**TTN-D0-830-U-WQ**
Description:	TOPTIER NANO LED PARKING GARAGE LUMINAIRE. 3000K, 80 CRI LEDS AND WIDE DISTRIBUTION

Spectral Parameters

CCT (K):	2963
CIE u':	0.2515
CIE v':	0.5238
Duv:	0.0012
CIE x:	0.4414
CIE y:	0.4086
CIE z:	0.1501
Peak Wavelength (nm):	603
Dominant Wavelength (nm):	582
Purity:	55.12798
Rf:	86.1
Rg:	94.9

CRI (Ra):	82.9
R1:	81.4
R2:	91.9
R3:	95.2
R4:	81.6
R5:	82.3
R6:	91.4
R7:	82.0
R8:	57.2
R9:	3.9
R10:	82.5
R11:	82.3
R12:	76.5
R13:	83.9
R14:	97.8
R15:	72.6



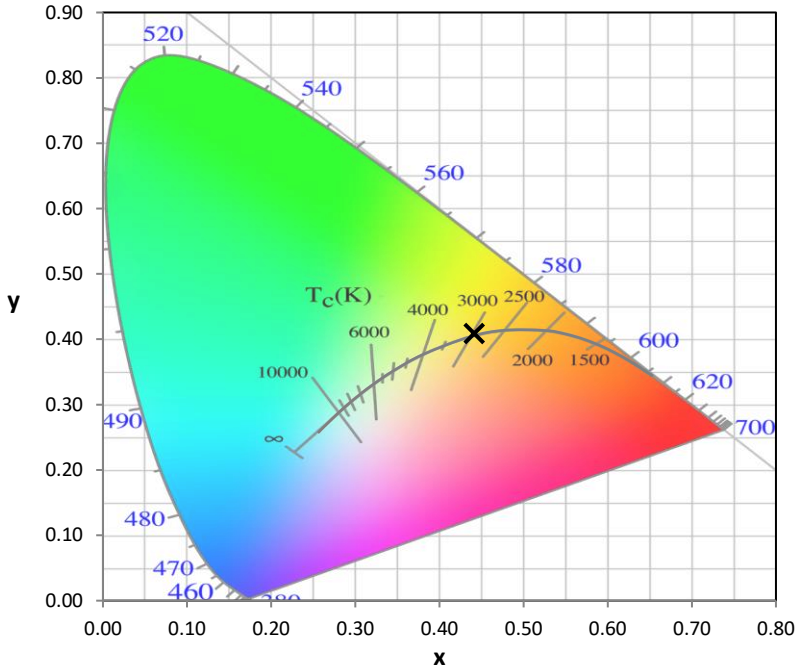
Test Conditions

Stabilization Time:	37M
Operation Time:	1H 37M
Sphere Temperature (°C):	25.0

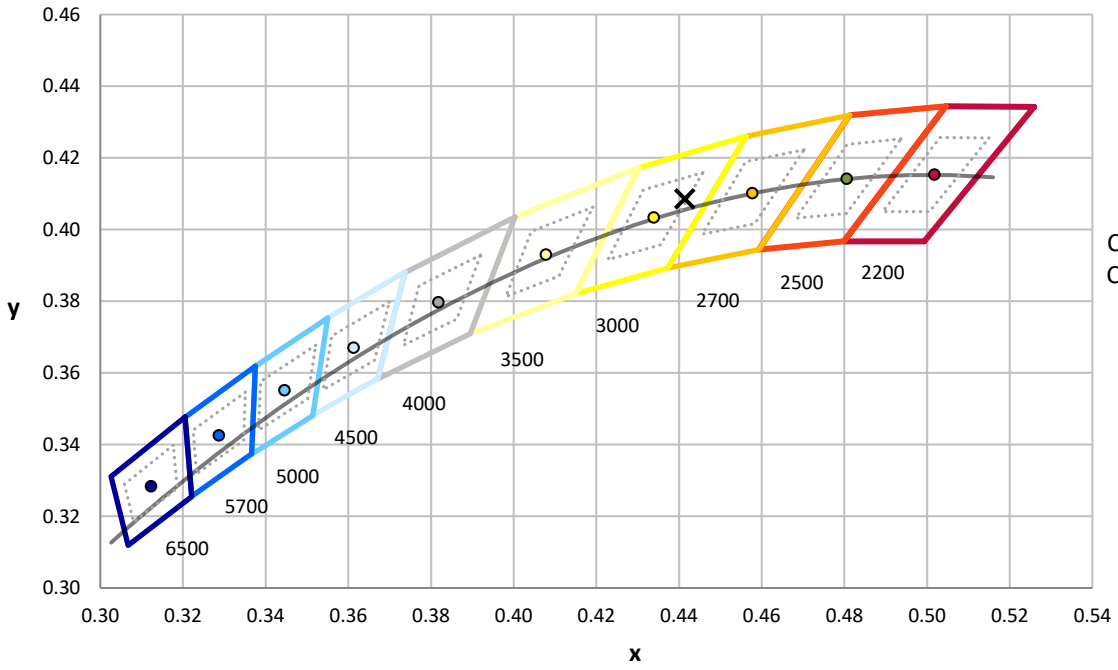
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2411-284-4

CIE 1931 Chromaticity Diagram



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

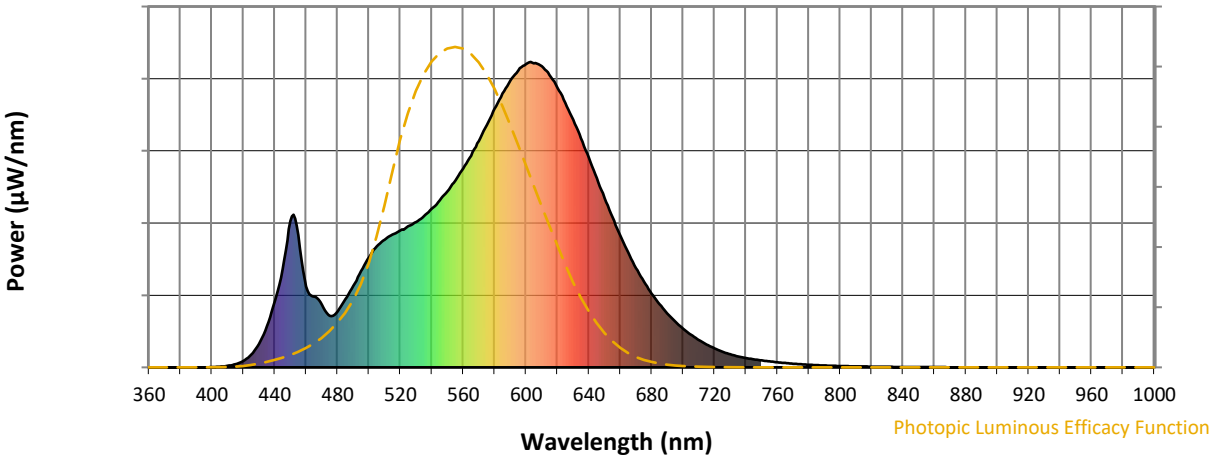


CCT = 2963K
CIE x = 0.4414
CIE y = 0.4086
Duv = 0.0012

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2411-284-4

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	267	NR	620	915	NR	750	23	NR	880	0	NR
365	0	NR	495	315	NR	625	866	NR	755	20	NR	885	0	NR
370	0	NR	500	360	NR	630	811	NR	760	17	NR	890	0	NR
375	0	NR	505	396	NR	635	750	NR	765	14	NR	895	0	NR
380	0	NR	510	418	NR	640	686	NR	770	12	NR	900	0	NR
385	0	NR	515	435	NR	645	619	NR	775	10	NR	905	0	NR
390	0	NR	520	448	NR	650	554	NR	780	9	NR	910	0	NR
395	0	NR	525	462	NR	655	491	NR	785	7	NR	915	0	NR
400	1	NR	530	476	NR	660	431	NR	790	6	NR	920	0	NR
405	2	NR	535	495	NR	665	376	NR	795	5	NR	925	0	NR
410	5	NR	540	520	NR	670	325	NR	800	4	NR	930	0	NR
415	10	NR	545	547	NR	675	280	NR	805	4	NR	935	0	NR
420	21	NR	550	576	NR	680	241	NR	810	3	NR	940	0	NR
425	42	NR	555	612	NR	685	207	NR	815	3	NR	945	0	NR
430	77	NR	560	651	NR	690	176	NR	820	2	NR	950	0	NR
435	135	NR	565	693	NR	695	149	NR	825	2	NR	955	0	NR
440	215	NR	570	741	NR	700	127	NR	830	2	NR	960	0	NR
445	321	NR	575	793	NR	705	107	NR	835	2	NR	965	0	NR
450	479	NR	580	847	NR	710	89	NR	840	1	NR	970	0	NR
455	432	NR	585	897	NR	715	75	NR	845	1	NR	975	0	NR
460	265	NR	590	940	NR	720	62	NR	850	1	NR	980	0	NR
465	231	NR	595	971	NR	725	51	NR	855	1	NR	985	0	NR
470	204	NR	600	993	NR	730	43	NR	860	1	NR	990	0	NR
475	168	NR	605	996	NR	735	36	NR	865	1	NR	995	0	NR
480	183	NR	610	986	NR	740	31	NR	870	1	NR	1000	0	NR
485	223	NR	615	957	NR	745	26	NR	875	0	NR			

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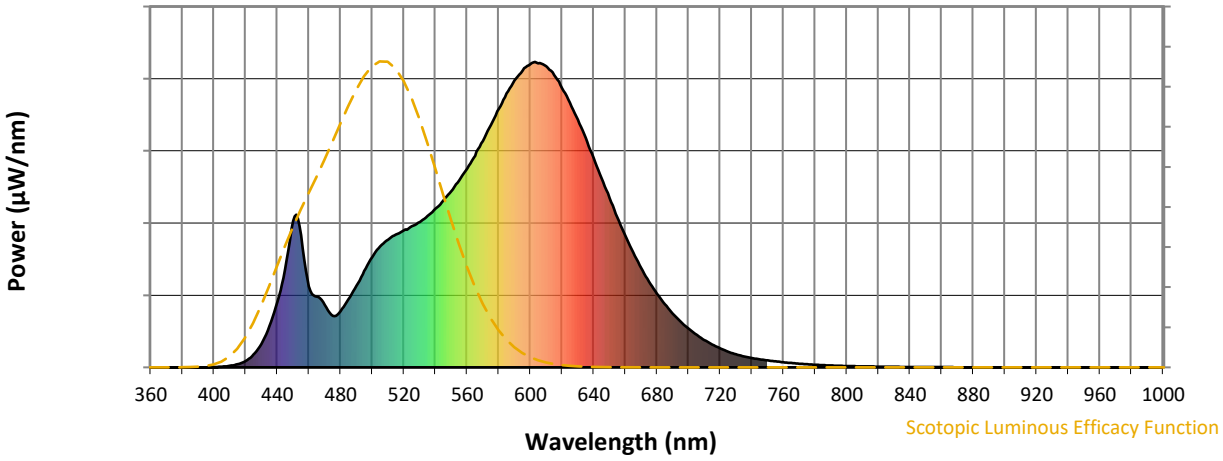
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.34**

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	267	NR	620	915	NR	750	23	NR	880	0	NR
365	0	NR	495	315	NR	625	866	NR	755	20	NR	885	0	NR
370	0	NR	500	360	NR	630	811	NR	760	17	NR	890	0	NR
375	0	NR	505	396	NR	635	750	NR	765	14	NR	895	0	NR
380	0	NR	510	418	NR	640	686	NR	770	12	NR	900	0	NR
385	0	NR	515	435	NR	645	619	NR	775	10	NR	905	0	NR
390	0	NR	520	448	NR	650	554	NR	780	9	NR	910	0	NR
395	0	NR	525	462	NR	655	491	NR	785	7	NR	915	0	NR
400	1	NR	530	476	NR	660	431	NR	790	6	NR	920	0	NR
405	2	NR	535	495	NR	665	376	NR	795	5	NR	925	0	NR
410	5	NR	540	520	NR	670	325	NR	800	4	NR	930	0	NR
415	10	NR	545	547	NR	675	280	NR	805	4	NR	935	0	NR
420	21	NR	550	576	NR	680	241	NR	810	3	NR	940	0	NR
425	42	NR	555	612	NR	685	207	NR	815	3	NR	945	0	NR
430	77	NR	560	651	NR	690	176	NR	820	2	NR	950	0	NR
435	135	NR	565	693	NR	695	149	NR	825	2	NR	955	0	NR
440	215	NR	570	741	NR	700	127	NR	830	2	NR	960	0	NR
445	321	NR	575	793	NR	705	107	NR	835	2	NR	965	0	NR
450	479	NR	580	847	NR	710	89	NR	840	1	NR	970	0	NR
455	432	NR	585	897	NR	715	75	NR	845	1	NR	975	0	NR
460	265	NR	590	940	NR	720	62	NR	850	1	NR	980	0	NR
465	231	NR	595	971	NR	725	51	NR	855	1	NR	985	0	NR
470	204	NR	600	993	NR	730	43	NR	860	1	NR	990	0	NR
475	168	NR	605	996	NR	735	36	NR	865	1	NR	995	0	NR
480	183	NR	610	986	NR	740	31	NR	870	1	NR	1000	0	NR
485	223	NR	615	957	NR	745	26	NR	875	0	NR			

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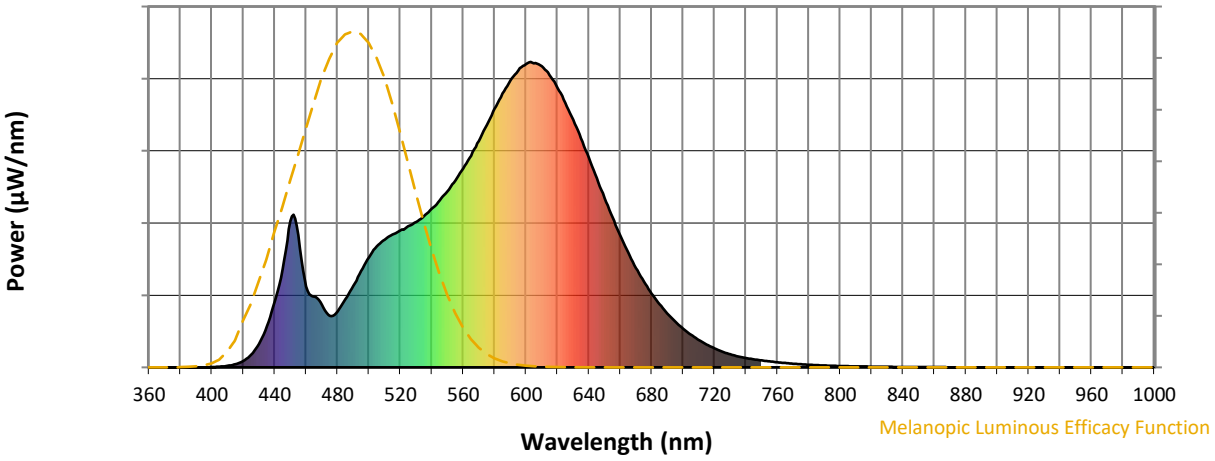
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.58**

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	267	NR	620	915	NR	750	23	NR	880	0	NR
365	0	NR	495	315	NR	625	866	NR	755	20	NR	885	0	NR
370	0	NR	500	360	NR	630	811	NR	760	17	NR	890	0	NR
375	0	NR	505	396	NR	635	750	NR	765	14	NR	895	0	NR
380	0	NR	510	418	NR	640	686	NR	770	12	NR	900	0	NR
385	0	NR	515	435	NR	645	619	NR	775	10	NR	905	0	NR
390	0	NR	520	448	NR	650	554	NR	780	9	NR	910	0	NR
395	0	NR	525	462	NR	655	491	NR	785	7	NR	915	0	NR
400	1	NR	530	476	NR	660	431	NR	790	6	NR	920	0	NR
405	2	NR	535	495	NR	665	376	NR	795	5	NR	925	0	NR
410	5	NR	540	520	NR	670	325	NR	800	4	NR	930	0	NR
415	10	NR	545	547	NR	675	280	NR	805	4	NR	935	0	NR
420	21	NR	550	576	NR	680	241	NR	810	3	NR	940	0	NR
425	42	NR	555	612	NR	685	207	NR	815	3	NR	945	0	NR
430	77	NR	560	651	NR	690	176	NR	820	2	NR	950	0	NR
435	135	NR	565	693	NR	695	149	NR	825	2	NR	955	0	NR
440	215	NR	570	741	NR	700	127	NR	830	2	NR	960	0	NR
445	321	NR	575	793	NR	705	107	NR	835	2	NR	965	0	NR
450	479	NR	580	847	NR	710	89	NR	840	1	NR	970	0	NR
455	432	NR	585	897	NR	715	75	NR	845	1	NR	975	0	NR
460	265	NR	590	940	NR	720	62	NR	850	1	NR	980	0	NR
465	231	NR	595	971	NR	725	51	NR	855	1	NR	985	0	NR
470	204	NR	600	993	NR	730	43	NR	860	1	NR	990	0	NR
475	168	NR	605	996	NR	735	36	NR	865	1	NR	995	0	NR
480	183	NR	610	986	NR	740	31	NR	870	1	NR	1000	0	NR
485	223	NR	615	957	NR	745	26	NR	875	0	NR			

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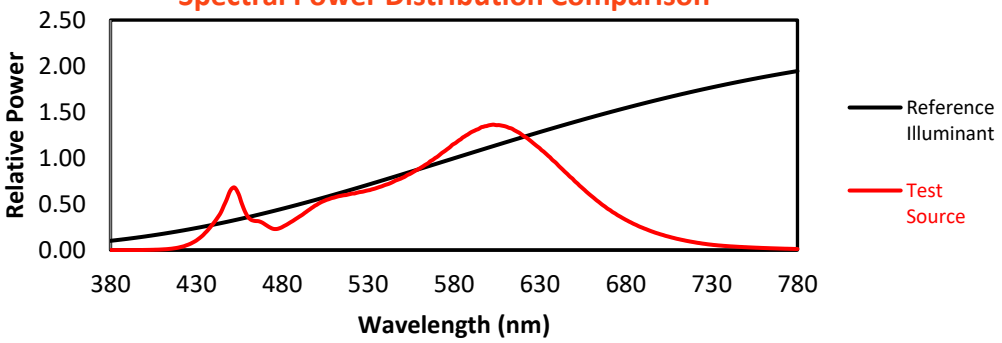
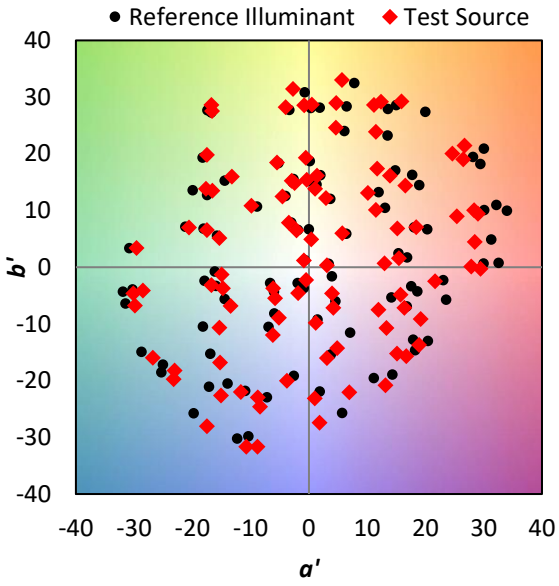
Summary

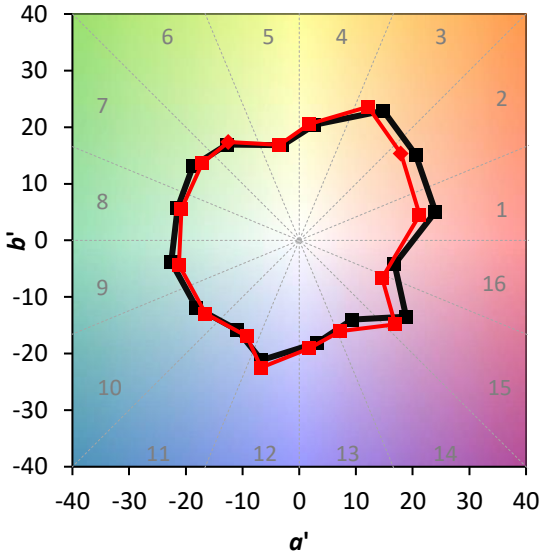
R_f = 86.1
R_g = 94.9
CIE R_a = 82.9
R_9 = 3.9

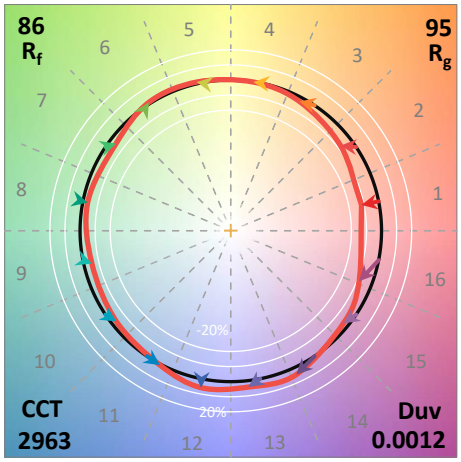
Spectral Power Distribution Comparison

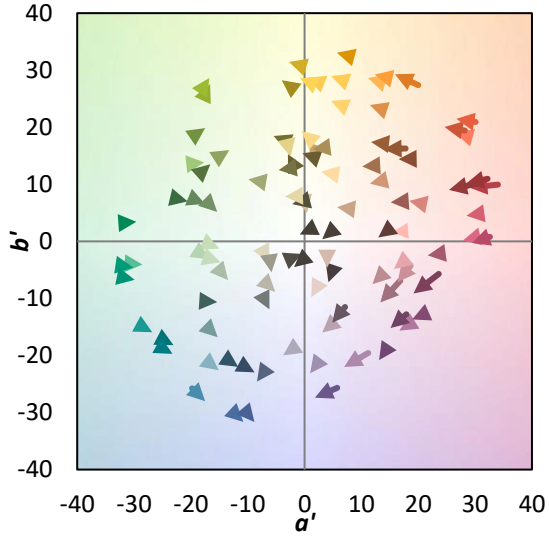


Color Vector Graphics









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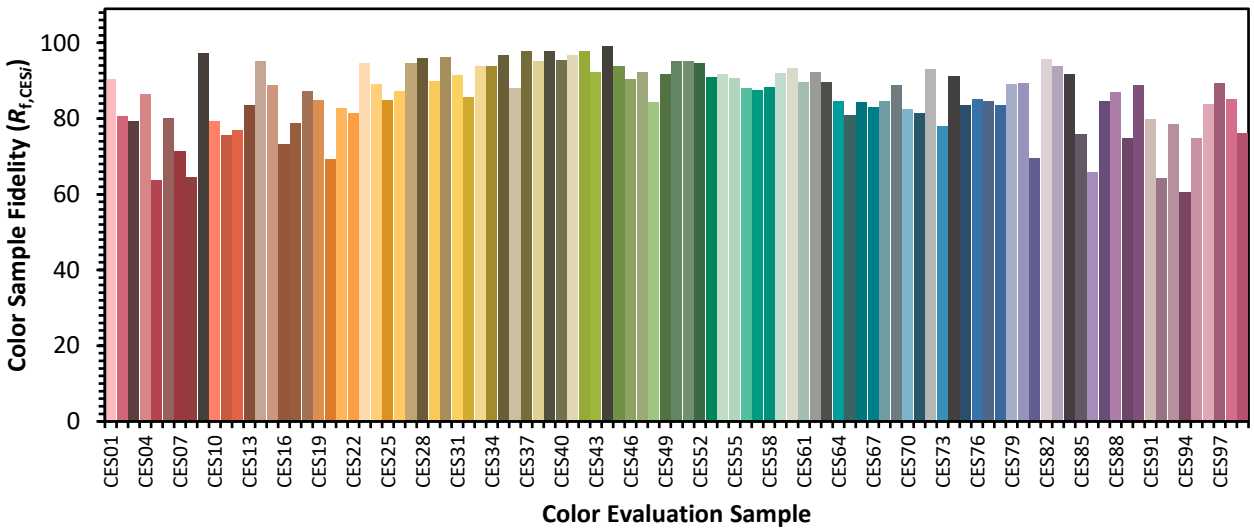
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 87	CES51 = 95	CES76 = 85
CES02 = 63	CES27 = 95	CES52 = 95	CES77 = 85
CES03 = 31	CES28 = 96	CES53 = 91	CES78 = 83
CES04 = 70	CES29 = 90	CES54 = 92	CES79 = 89
CES05 = 50	CES30 = 96	CES55 = 91	CES80 = 89
CES06 = 51	CES31 = 92	CES56 = 88	CES81 = 70
CES07 = 42	CES32 = 86	CES57 = 87	CES82 = 96
CES08 = 41	CES33 = 94	CES58 = 88	CES83 = 94
CES09 = 29	CES34 = 94	CES59 = 92	CES84 = 92
CES10 = 76	CES35 = 97	CES60 = 93	CES85 = 76
CES11 = 59	CES36 = 88	CES61 = 90	CES86 = 66
CES12 = 65	CES37 = 98	CES62 = 92	CES87 = 85
CES13 = 44	CES38 = 95	CES63 = 90	CES88 = 87
CES14 = 74	CES39 = 98	CES64 = 85	CES89 = 75
CES15 = 72	CES40 = 96	CES65 = 81	CES90 = 89
CES16 = 48	CES41 = 97	CES66 = 84	CES91 = 80
CES17 = 50	CES42 = 98	CES67 = 83	CES92 = 64
CES18 = 57	CES43 = 92	CES68 = 85	CES93 = 79
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 61
CES20 = 67	CES45 = 94	CES70 = 83	CES95 = 75
CES21 = 87	CES46 = 91	CES71 = 81	CES96 = 84
CES22 = 79	CES47 = 92	CES72 = 93	CES97 = 89
CES23 = 92	CES48 = 84	CES73 = 78	CES98 = 85
CES24 = 91	CES49 = 92	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 95	CES75 = 84	



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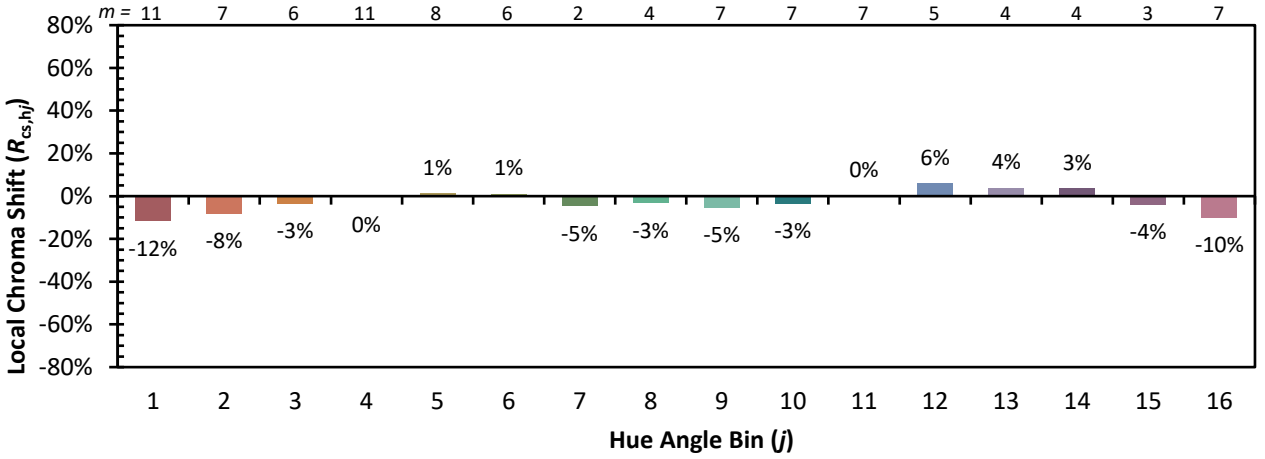
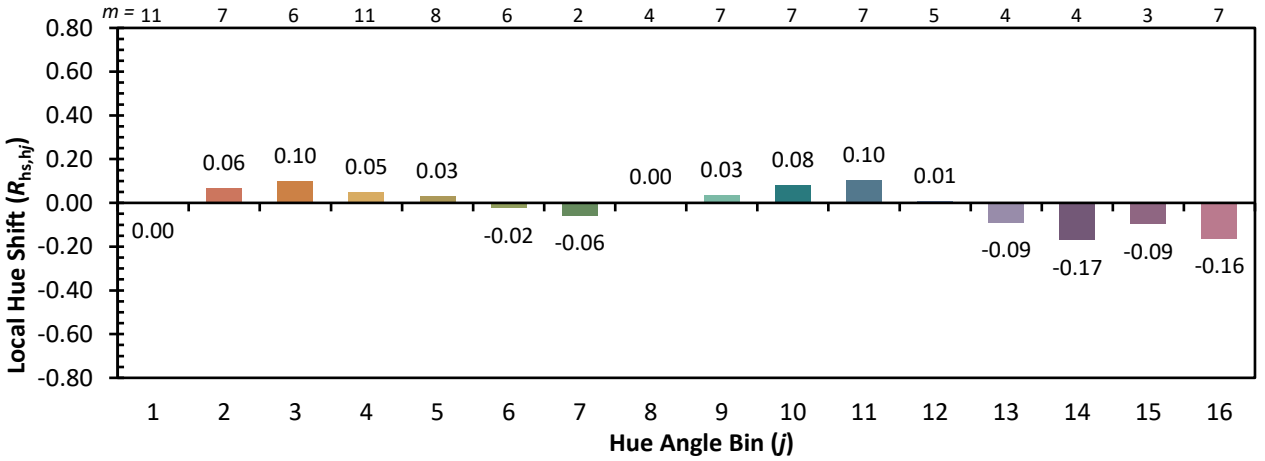
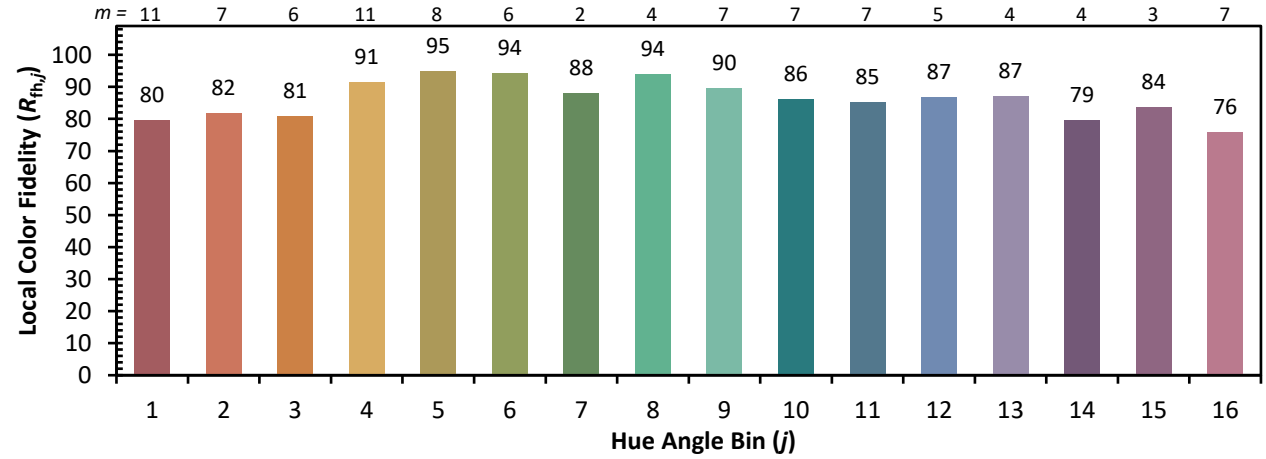
Color Rendition by Hue-Angle Bin







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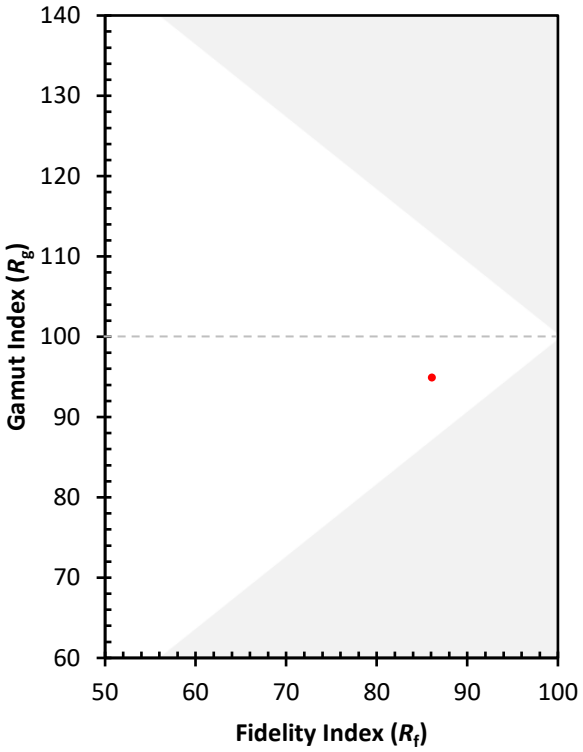
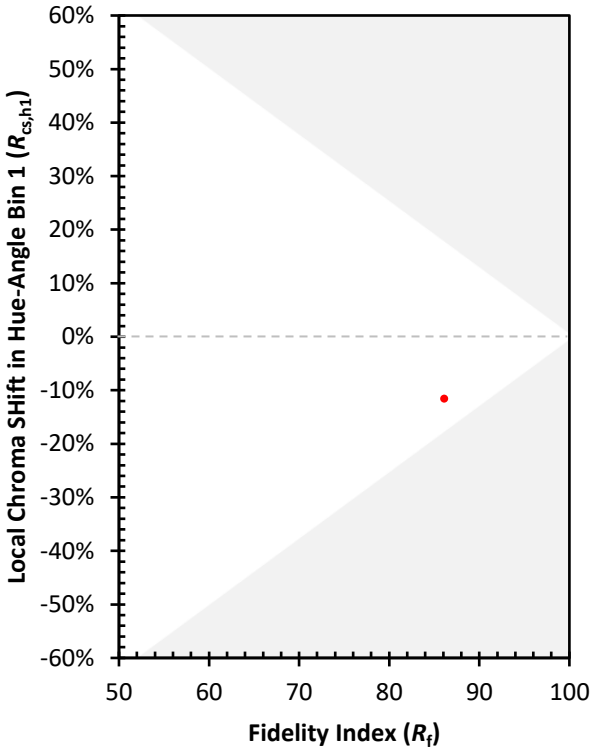
Measure Comparisons





(END OF REPORT)