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: P832706

Luminaire Tested: **TTN-D3-830-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:	P832706
	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-D3-830-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:	5925 lumens
Efficiency:	N/A
Efficacy:	100.1 lumens/watt
Luminous Opening:	Circular (Dia: 0.71' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	59.2
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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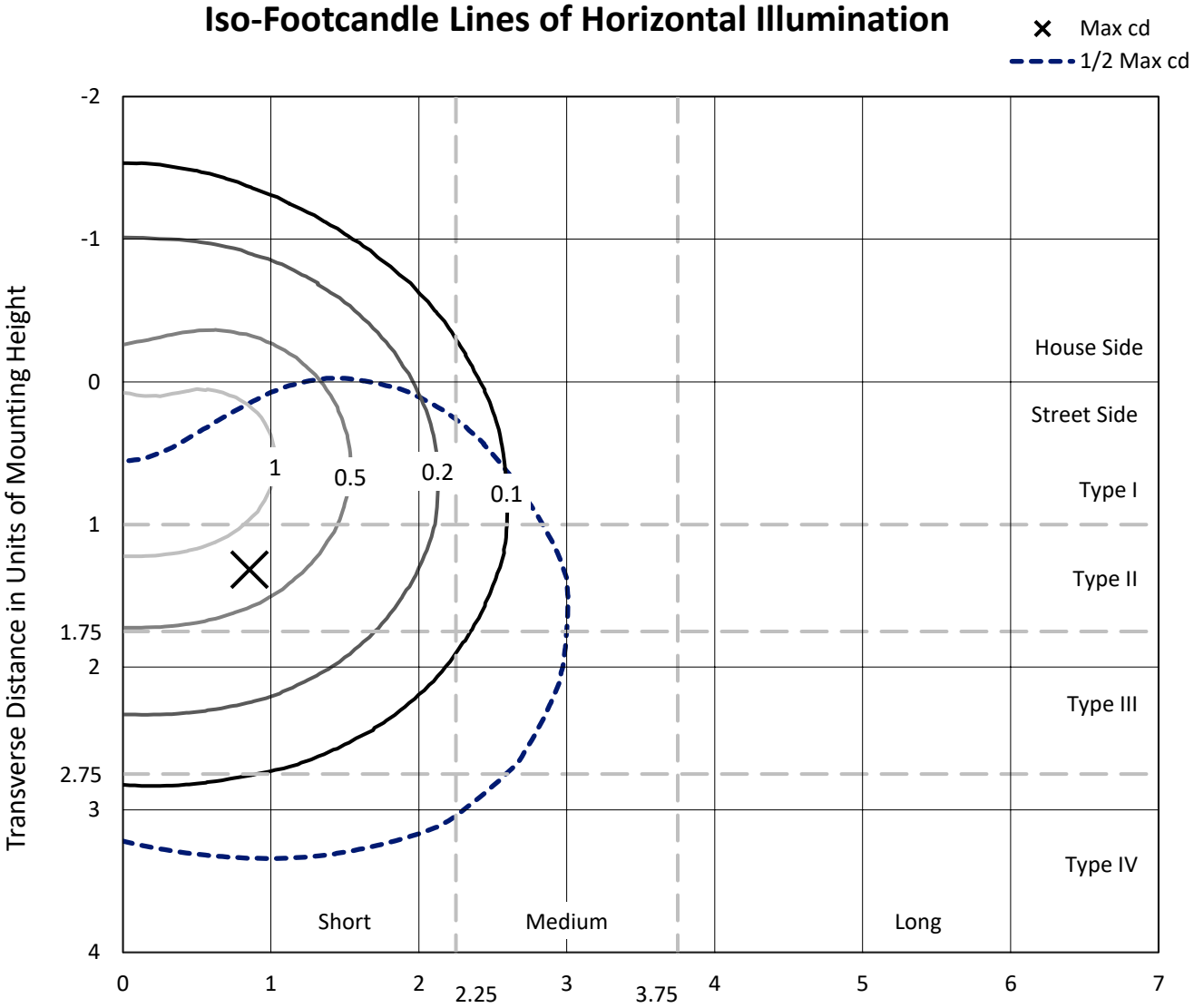
Scaled Data Report

REPORT NUMBER: P832706
CATALOG NUMBER: TTN-D3-830-U-DL-CG

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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REPORT NUMBER: P832706
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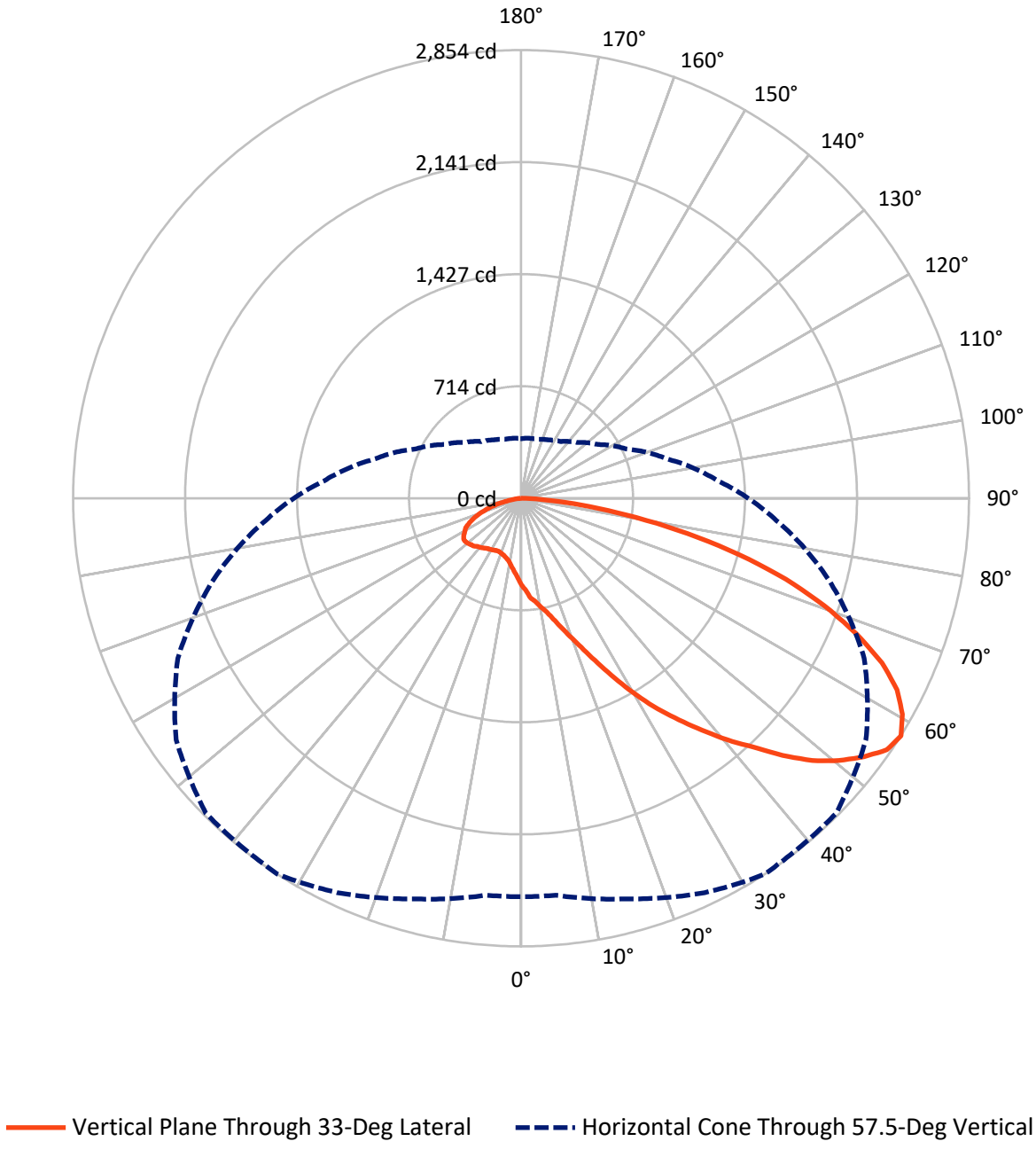
Luminous Intensity Polar Plot



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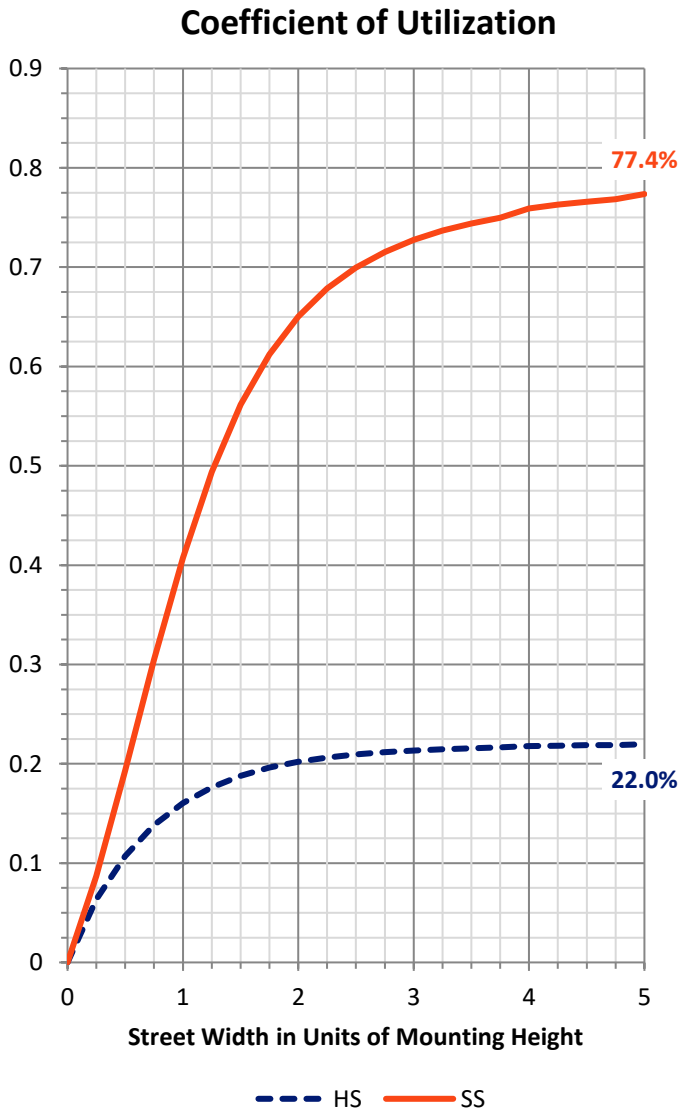
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1307.4	0.0	1307.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	4617.6	0.0	4617.6
	% Fixture	77.9	0.0	77.9
Total	Lumens	5925.0	0.0	5925.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	0.9
10°-20°	172.3	2.9
20°-30°	363.3	6.1
30°-40°	659.8	11.1
40°-50°	1042.6	17.6
50°-60°	1384.6	23.4
60°-70°	1332.7	22.5
70°-80°	782.3	13.2
80°-90°	134.3	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°	5925.0	100.0
0°-180°	5925.0	100.0



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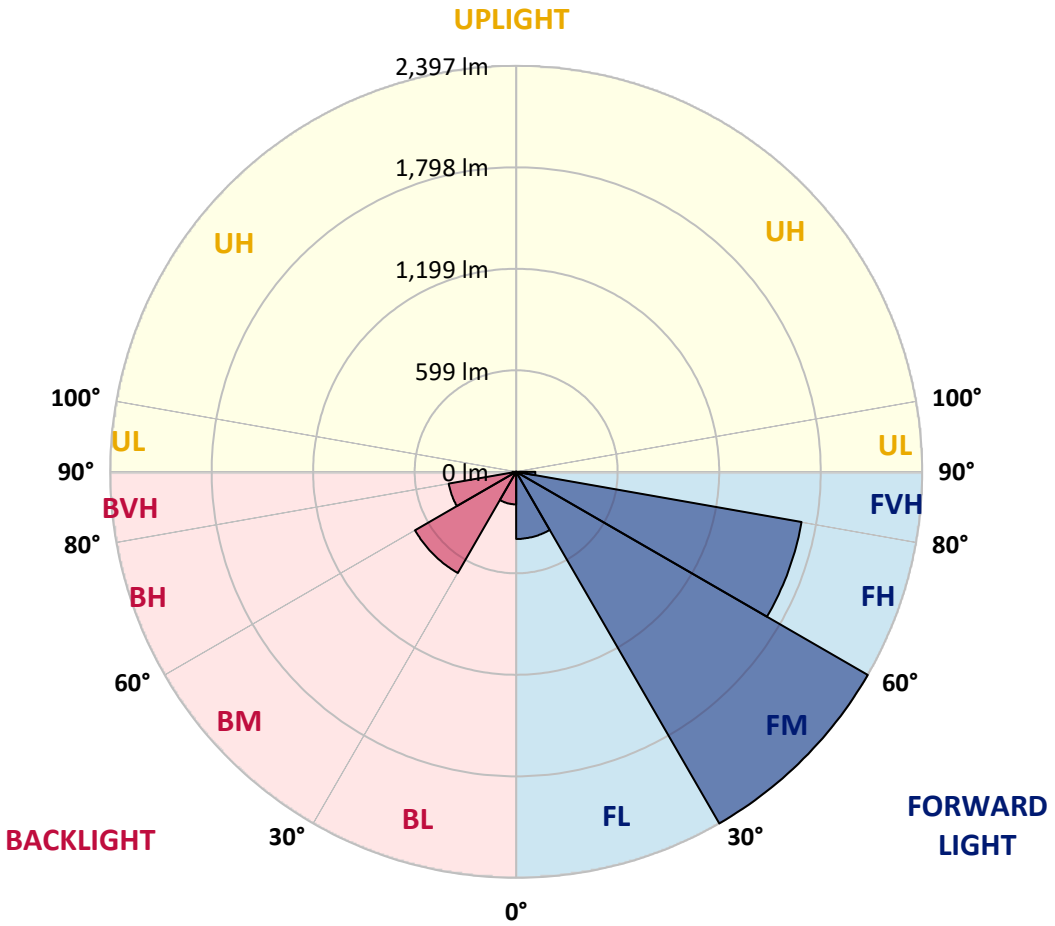
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	396.4	6.7			
FM	(30°-60°)	2397.1	40.5			
FH	(60°-80°)	1710.7	28.9			G1/1800
FVH	(80°-90°)	113.4	1.9			G2/225
BL	(0°-30°)	192.3	3.2	B1/500		
BM	(30°-60°)	689.9	11.6	B1/1000		
BH	(60°-80°)	404.3	6.8	B1/500		G1/500
BVH	(80°-90°)	20.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	555.3	555.3	555.3	555.3	*555.3*	555.3	555.3	555.3	555.3	555.3	555.3
2.5°	591.6	596.8	591.6	591.6	*586.5*	586.5	581.3	576.1	570.9	565.7	555.3
5°	659.1	659.1	653.9	643.5	*638.4*	633.2	622.8	607.2	596.8	581.3	565.7
7.5°	690.3	690.3	685.1	674.7	*664.3*	659.1	643.5	622.8	607.2	586.5	565.7
10°	731.8	737.0	726.6	716.2	*705.8*	700.6	679.9	653.9	628.0	602.0	570.9
12.5°	778.5	783.7	778.5	762.9	*747.3*	742.2	721.4	690.3	659.1	622.8	586.5
15°	840.8	851.1	835.6	825.2	*809.6*	804.4	778.5	742.2	705.8	659.1	612.4
17.5°	913.4	918.6	908.2	892.7	*882.3*	877.1	851.1	809.6	757.7	705.8	648.7
20°	996.5	1001.6	996.5	975.7	*965.3*	960.1	934.2	887.5	825.2	768.1	695.4
22.5°	1095.1	1105.4	1089.9	1074.3	*1063.9*	1063.9	1032.8	980.9	908.2	835.6	752.5
25°	1209.2	1224.8	1204.0	1193.7	*1183.3*	1178.1	1152.2	1089.9	1006.8	918.6	814.8
27.5°	1349.4	1359.7	1344.2	1339.0	*1318.2*	1318.2	1276.7	1204.0	1115.8	1012.0	892.7
30°	1473.9	1484.3	1473.9	1473.9	*1458.4*	1453.2	1411.6	1339.0	1230.0	1105.4	960.1
32.5°	1593.3	1603.7	1598.5	1603.7	*1598.5*	1593.3	1541.4	1463.5	1354.6	1193.7	1027.6
35°	1712.7	1728.2	1723.0	1738.6	*1733.4*	1728.2	1686.7	1593.3	1463.5	1302.7	1100.3
37.5°	1837.2	1852.8	1852.8	1868.4	*1873.5*	1873.5	1826.8	1728.2	1582.9	1401.3	1183.3
40°	1972.2	1987.7	1987.7	2013.7	*2024.0*	2024.0	1972.2	1873.5	1712.7	1510.3	1271.5
42.5°	2101.9	2117.5	2122.7	2148.6	*2164.2*	2169.4	2127.8	2013.7	1826.8	1619.2	1354.6
45°	2226.5	2242.0	2257.6	2309.5	*2335.4*	2330.3	2299.1	2179.7	1972.2	1733.4	1442.8
47.5°	2345.8	2366.6	2392.5	2460.0	*2496.3*	2491.1	2470.4	2335.4	2107.1	1842.4	1520.6
50°	2439.2	2454.8	2506.7	2579.4	*2626.1*	2631.3	2600.1	2470.4	2221.3	1925.4	1577.7
52.5°	2511.9	2532.7	2594.9	2698.7	*2735.1*	2750.6	2714.3	2584.6	2335.4	1998.1	1624.4
55°	2563.8	2563.8	2657.2	2776.6	*2828.5*	2838.9	2838.9	2678.0	2402.9	2044.8	1650.4
57.5°	*2537.8*	*2537.8*	*2641.6*	*2771.4*	*2854.4*	*2849.2*	*2838.9*	*2683.2*	*2413.3*	*2034.4*	*1634.8*
60°	2465.2	2480.8	2579.4	2709.1	*2792.1*	2787.0	2755.8	2615.7	2361.4	1992.9	1603.7
62.5°	2366.6	2392.5	2496.3	2594.9	*2688.4*	2703.9	2662.4	2537.8	2273.2	1930.6	1546.6
65°	2179.7	2216.1	2345.8	2454.8	*2527.5*	2558.6	2506.7	2392.5	2153.8	1811.3	1427.2
67.5°	1972.2	1998.1	2107.1	2262.8	*2304.3*	2335.4	2309.5	2190.1	1987.7	1619.2	1292.3
70°	1733.4	1774.9	1847.6	2003.3	*2050.0*	2081.1	2081.1	1961.8	1769.7	1422.0	1131.4
72.5°	1453.2	1499.9	1588.1	1702.3	*1764.6*	1785.3	1780.1	1681.5	1510.3	1204.0	954.9
75°	1147.0	1183.3	1287.1	1370.1	*1437.6*	1453.2	1448.0	1364.9	1209.2	970.5	757.7
77.5°	845.9	882.3	960.1	1022.4	*1084.7*	1074.3	1074.3	1012.0	913.4	721.4	576.1
80°	555.3	586.5	653.9	674.7	*742.2*	737.0	737.0	690.3	622.8	482.7	384.1
82.5°	306.2	332.2	378.9	399.6	*441.1*	430.8	435.9	404.8	363.3	269.9	218.0
85°	109.0	129.7	155.7	171.3	*192.0*	192.0	192.0	166.1	155.7	103.8	88.2
87.5°	5.2	10.4	20.8	20.8	*31.1*	31.1	31.1	20.8	20.8	5.2	5.2
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: P832706
CATALOG NUMBER: TTN-D3-830-U-DL-CG

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3	555.3
2.5°	550.1	544.9	539.7	529.4	524.2	519.0	513.8	508.6	508.6	508.6	508.6
5°	555.3	550.1	534.6	519.0	503.4	487.8	477.5	472.3	467.1	461.9	461.9
7.5°	555.3	544.9	524.2	503.4	487.8	467.1	451.5	435.9	425.6	420.4	420.4
10°	560.5	544.9	519.0	498.2	472.3	446.3	425.6	404.8	394.4	384.1	384.1
12.5°	570.9	555.3	519.0	493.0	461.9	430.8	404.8	384.1	368.5	358.1	358.1
15°	591.6	570.9	529.4	493.0	456.7	420.4	394.4	368.5	352.9	342.5	342.5
17.5°	622.8	596.8	544.9	493.0	451.5	415.2	384.1	358.1	337.3	327.0	327.0
20°	659.1	628.0	565.7	503.4	451.5	410.0	378.9	347.7	327.0	316.6	316.6
22.5°	711.0	664.3	591.6	519.0	461.9	415.2	373.7	342.5	321.8	311.4	311.4
25°	768.1	716.2	622.8	539.7	472.3	415.2	373.7	342.5	321.8	311.4	306.2
27.5°	830.4	773.3	659.1	560.5	482.7	425.6	378.9	342.5	321.8	311.4	311.4
30°	887.5	820.0	695.4	586.5	498.2	430.8	384.1	347.7	321.8	311.4	311.4
32.5°	949.7	871.9	731.8	612.4	513.8	441.1	389.2	352.9	327.0	316.6	311.4
35°	1012.0	923.8	768.1	633.2	529.4	451.5	394.4	358.1	332.2	321.8	321.8
37.5°	1079.5	980.9	804.4	659.1	544.9	461.9	404.8	363.3	337.3	327.0	327.0
40°	1152.2	1038.0	840.8	679.9	560.5	472.3	415.2	373.7	347.7	337.3	337.3
42.5°	1224.8	1100.3	882.3	705.8	576.1	482.7	420.4	384.1	358.1	347.7	347.7
45°	1297.5	1152.2	918.6	731.8	591.6	498.2	435.9	394.4	368.5	358.1	358.1
47.5°	1364.9	1209.2	949.7	747.3	607.2	508.6	441.1	404.8	378.9	373.7	368.5
50°	1411.6	1245.6	970.5	762.9	612.4	513.8	451.5	410.0	389.2	378.9	378.9
52.5°	1448.0	1281.9	986.1	773.3	617.6	519.0	456.7	420.4	399.6	389.2	384.1
55°	1468.7	1287.1	986.1	762.9	612.4	519.0	456.7	420.4	399.6	389.2	389.2
57.5°	*1448.0*	*1261.1*	*965.3*	*742.2*	*596.8*	*503.4*	*441.1*	*410.0*	*389.2*	*384.1*	*378.9*
60°	1406.5	1219.6	923.8	711.0	570.9	477.5	420.4	394.4	378.9	373.7	368.5
62.5°	1349.4	1167.7	882.3	669.5	534.6	446.3	404.8	373.7	363.3	358.1	352.9
65°	1235.2	1069.1	814.8	617.6	487.8	410.0	368.5	347.7	337.3	327.0	321.8
67.5°	1110.6	960.1	721.4	555.3	430.8	368.5	332.2	311.4	295.8	295.8	290.6
70°	975.7	845.9	622.8	472.3	373.7	321.8	285.4	269.9	259.5	259.5	254.3
72.5°	814.8	711.0	519.0	384.1	306.2	264.7	238.7	223.2	218.0	218.0	212.8
75°	653.9	560.5	410.0	301.0	238.7	207.6	186.8	176.5	171.3	171.3	166.1
77.5°	482.7	410.0	295.8	218.0	171.3	150.5	134.9	129.7	124.6	124.6	119.4
80°	321.8	269.9	192.0	140.1	103.8	93.4	83.0	83.0	77.8	83.0	77.8
82.5°	176.5	145.3	103.8	72.7	51.9	46.7	41.5	41.5	46.7	46.7	41.5
85°	67.5	51.9	36.3	20.8	15.6	15.6	15.6	15.6	15.6	15.6	10.4
87.5°	5.2	5.2	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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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

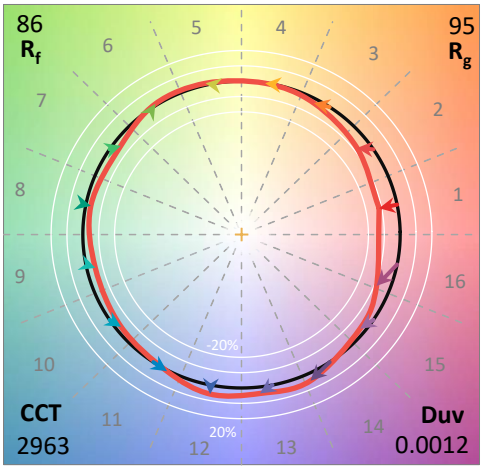
Test Information

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



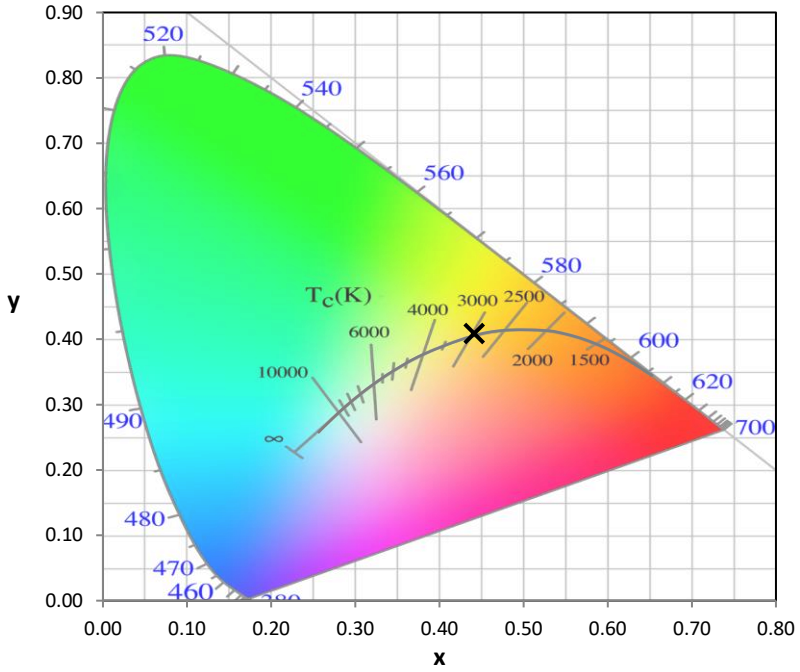
Test Conditions

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

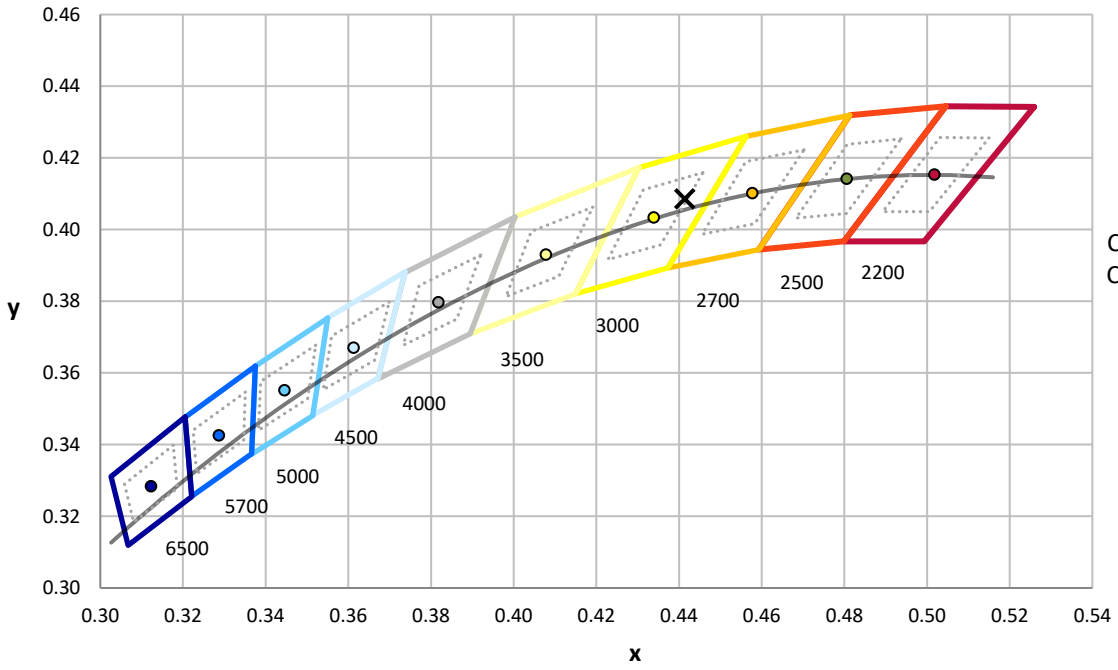
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

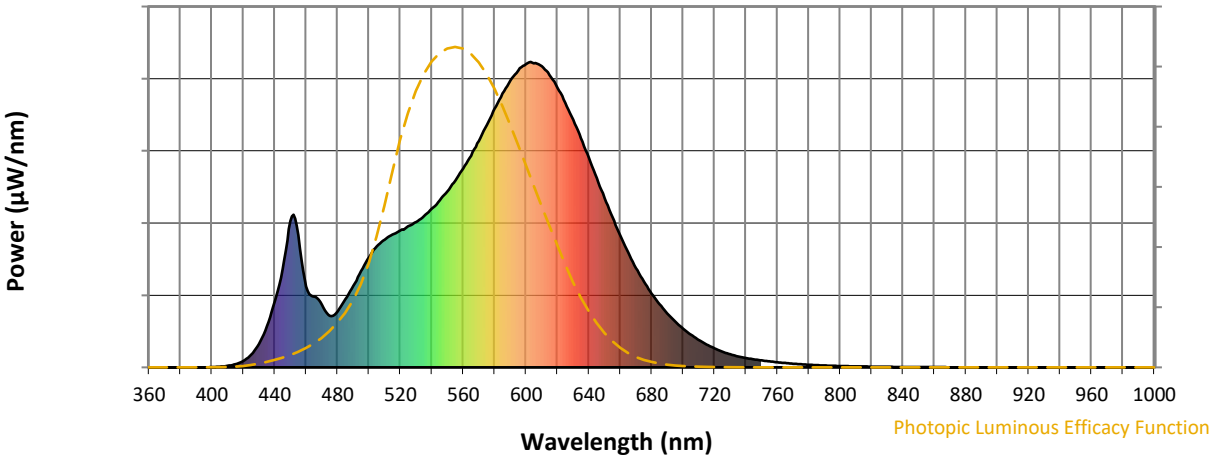


CCT = 2963K
CIE x = 0.4414
CIE y = 0.4086
Duv = 0.0012

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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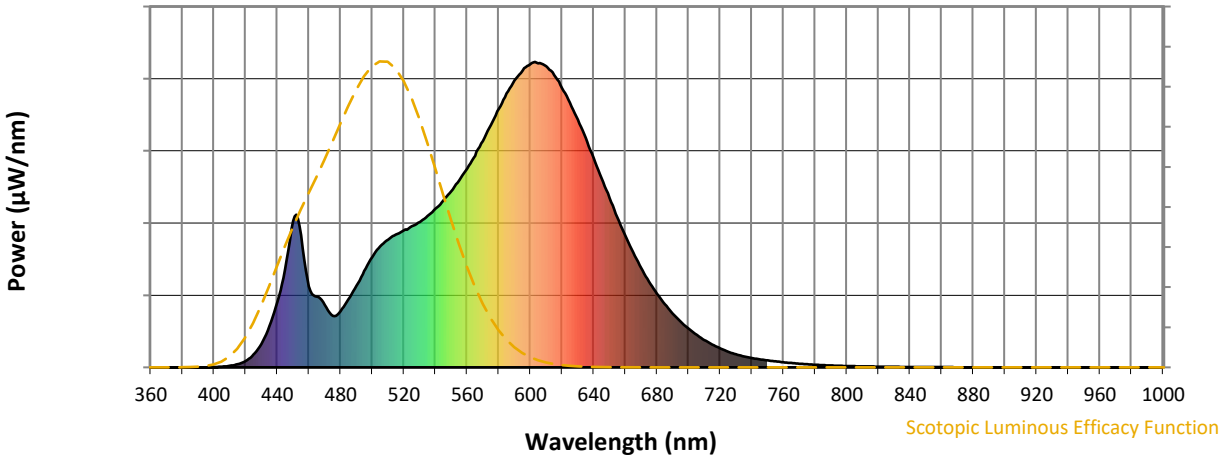
Scotopic Flux vs. Wavelength



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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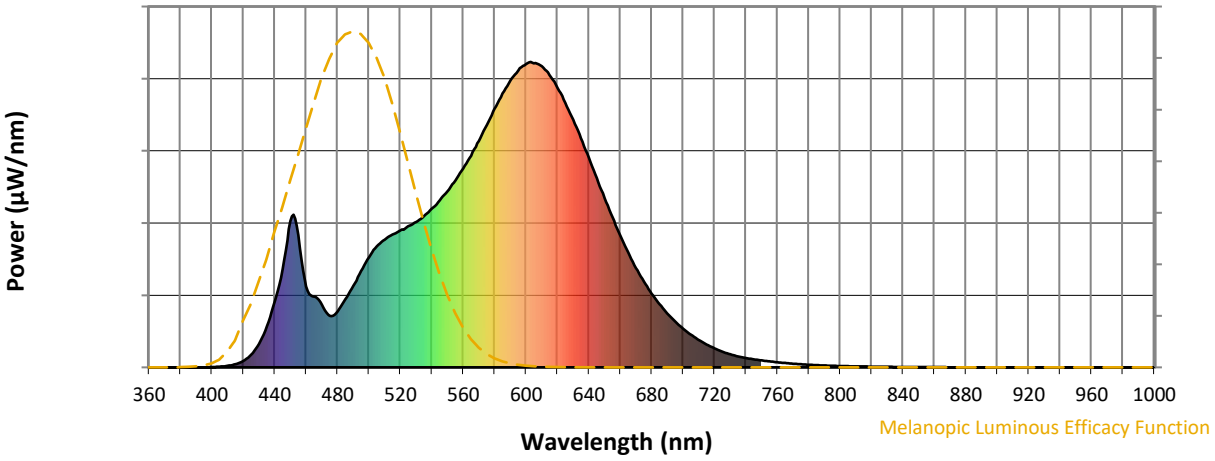
Melanopic Flux vs. Wavelength



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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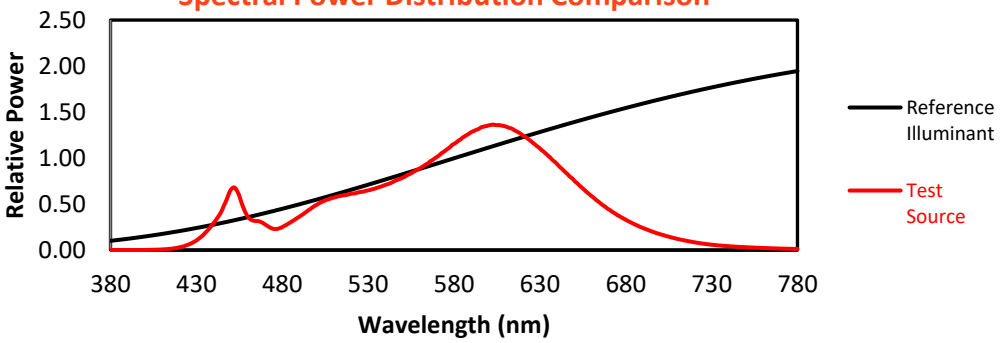
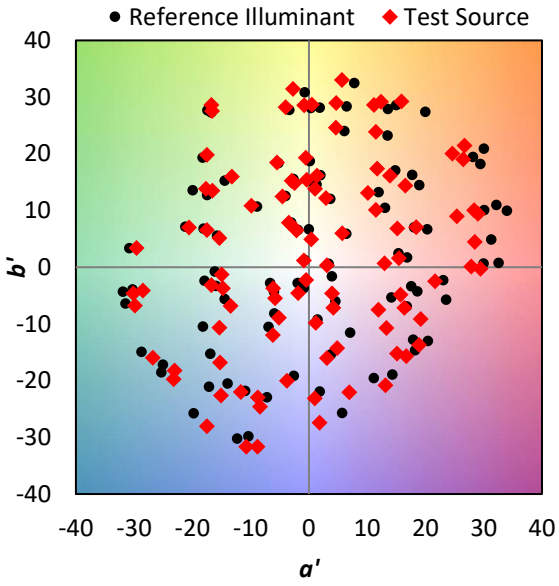
Summary

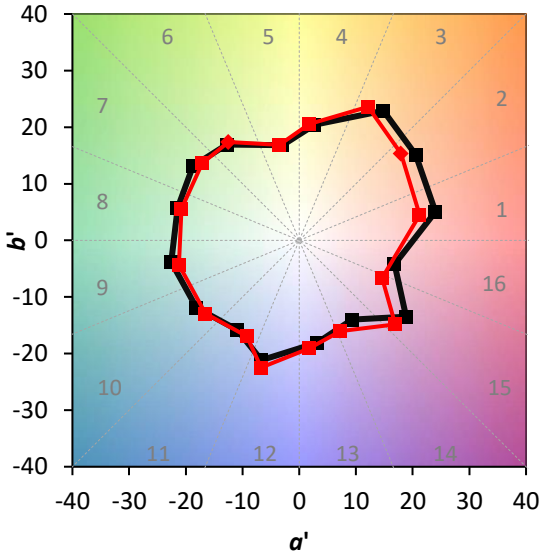
R_f = 86.1
R_g = 94.9
CIE R_a = 82.9
R_9 = 3.9

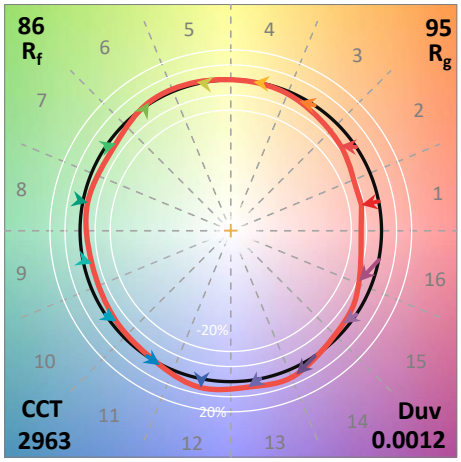
Spectral Power Distribution Comparison

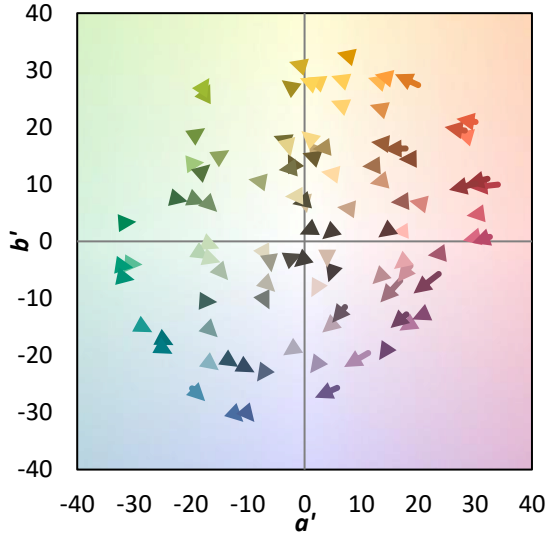


Color Vector Graphics









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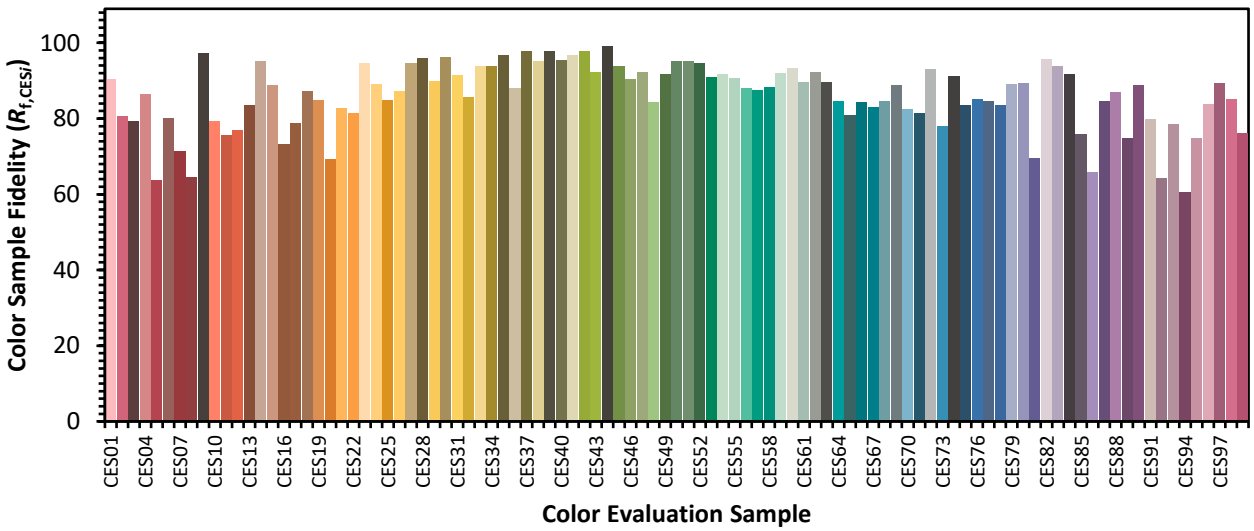
Individual Sample Fidelity Index ($R_{f,i}$)

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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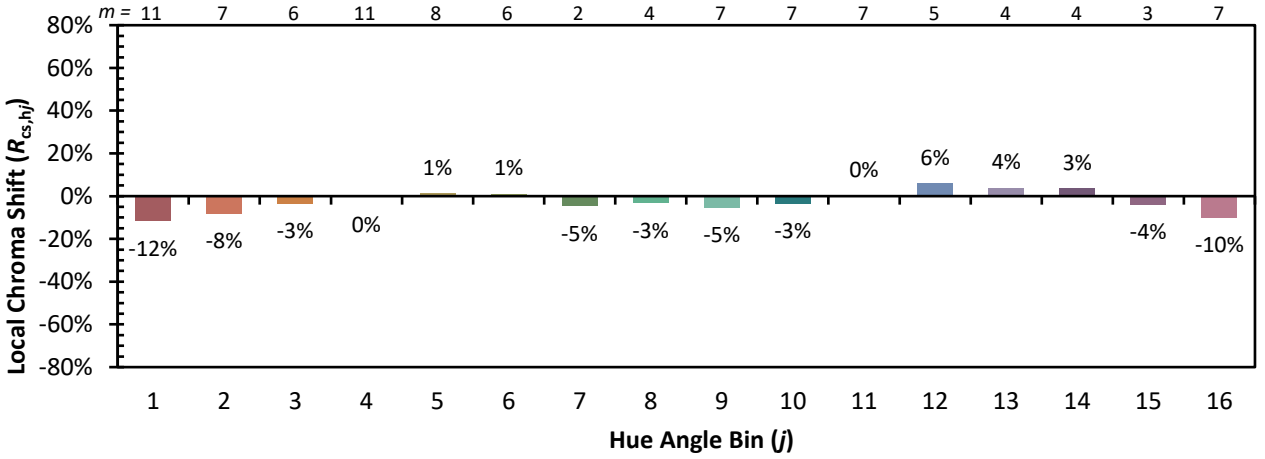
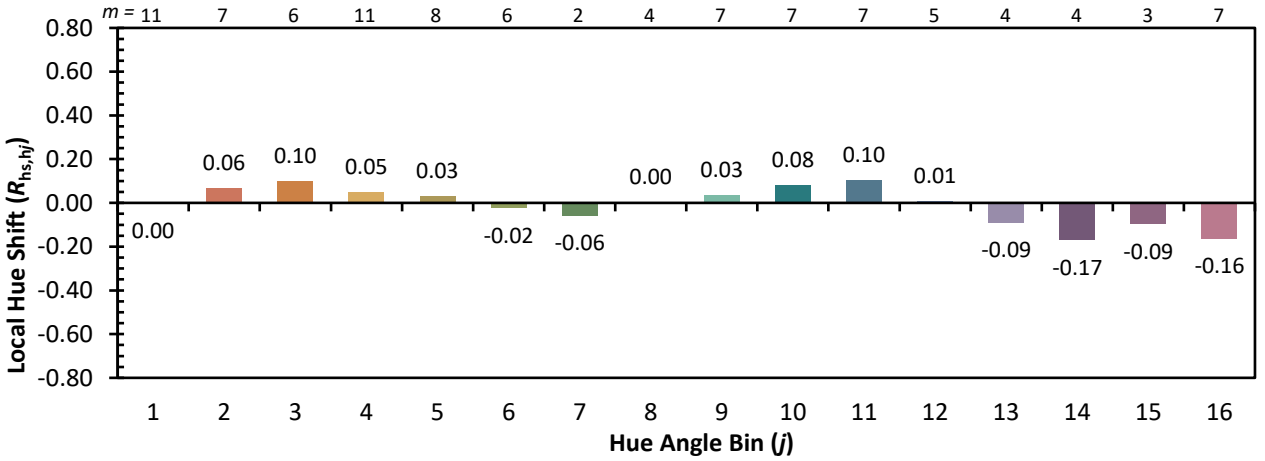
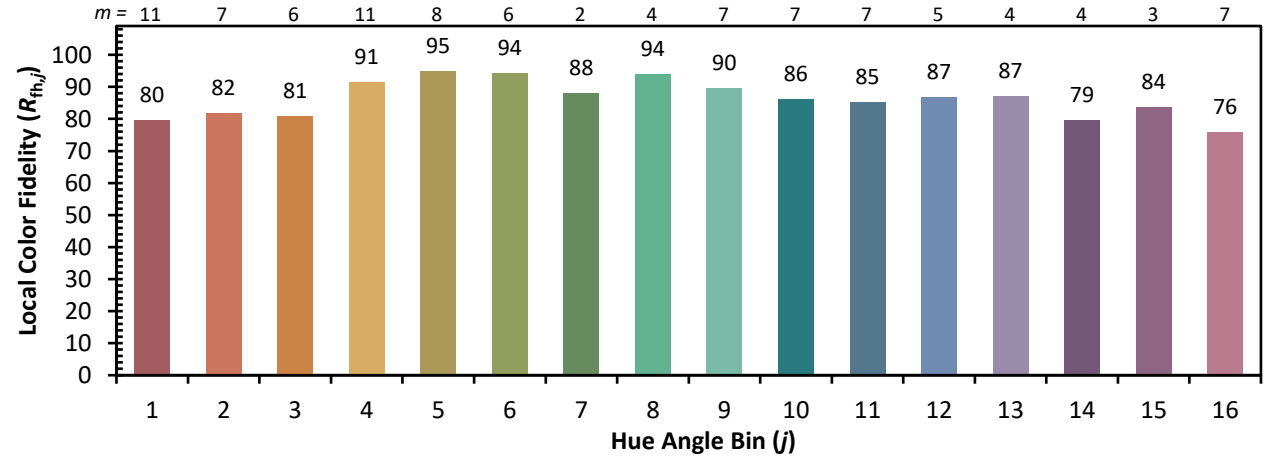
Color Rendition by Hue-Angle Bin







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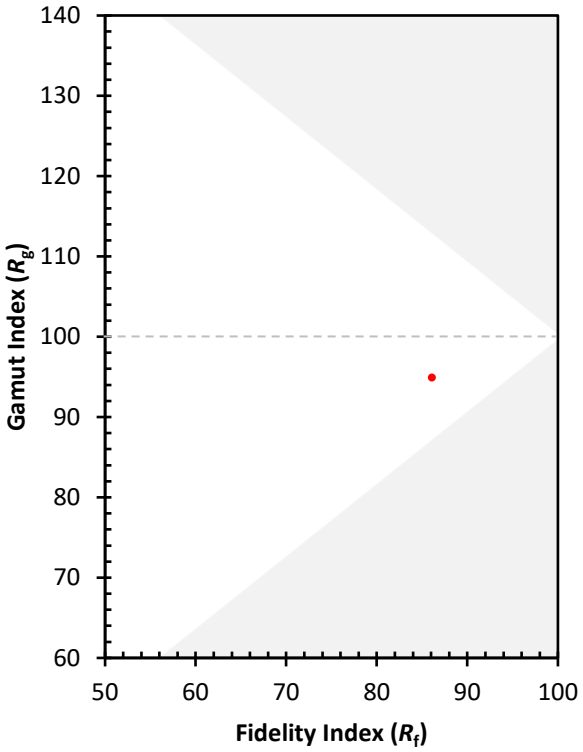
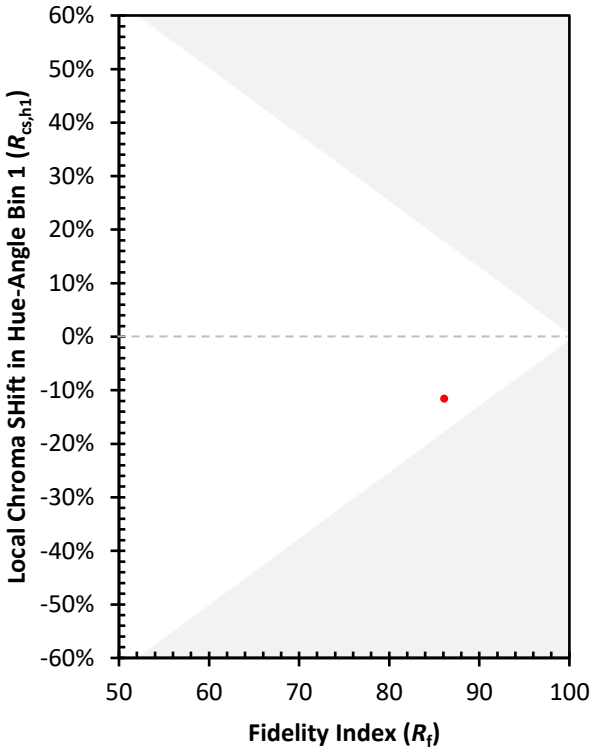
Measure Comparisons





(END OF REPORT)