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: P823467

Luminaire Tested: **TTN-D3-830-U-DL**

Issue Date: 4/16/2024

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:	P823467
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-11)
Test Lab:	INNOVATION CENTER
Issue Date:	4/16/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TTN-D3-830-U-DL
Description:	TOPTIER NANO LED PARKING GARAGE LUMINAIRE
	3000K, 80 CRI LEDS AND DRIVE LANE DISTRIBUTION
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5977 lumens
Efficiency:	N/A
Efficacy:	101.0 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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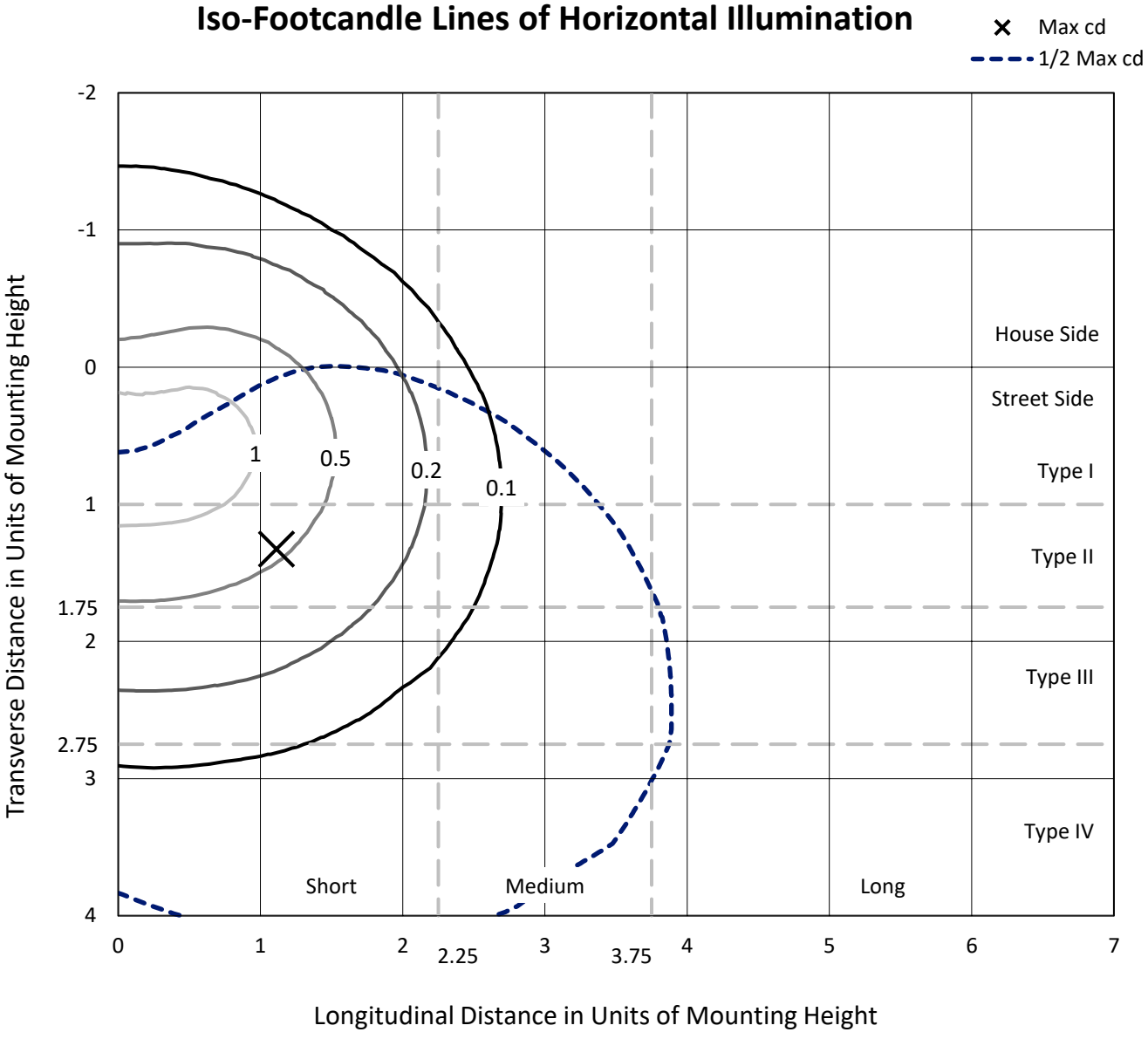
Scaled Data Report

REPORT NUMBER: P823467
CATALOG NUMBER: TTN-D3-830-U-DL

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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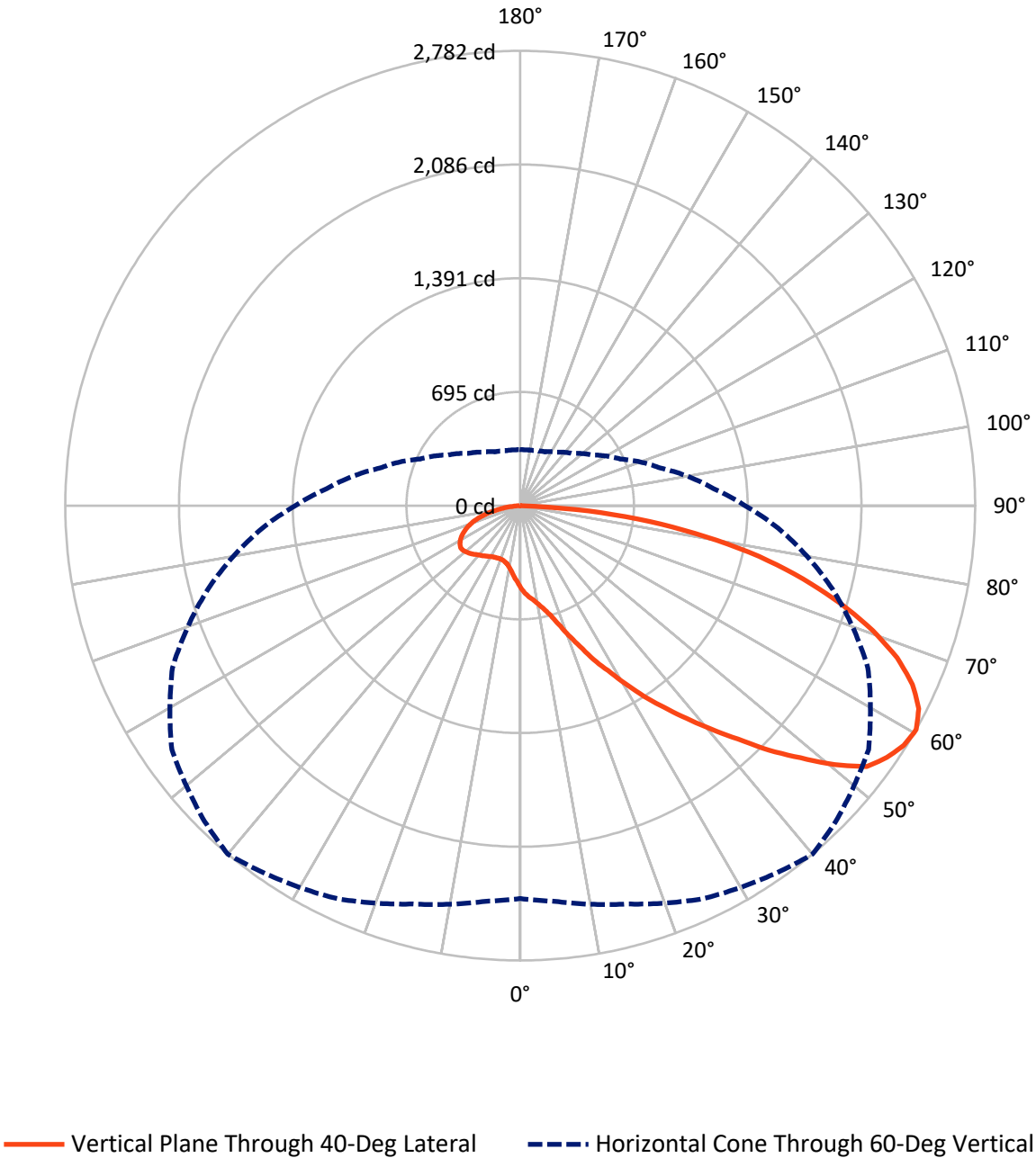
Luminous Intensity Polar Plot



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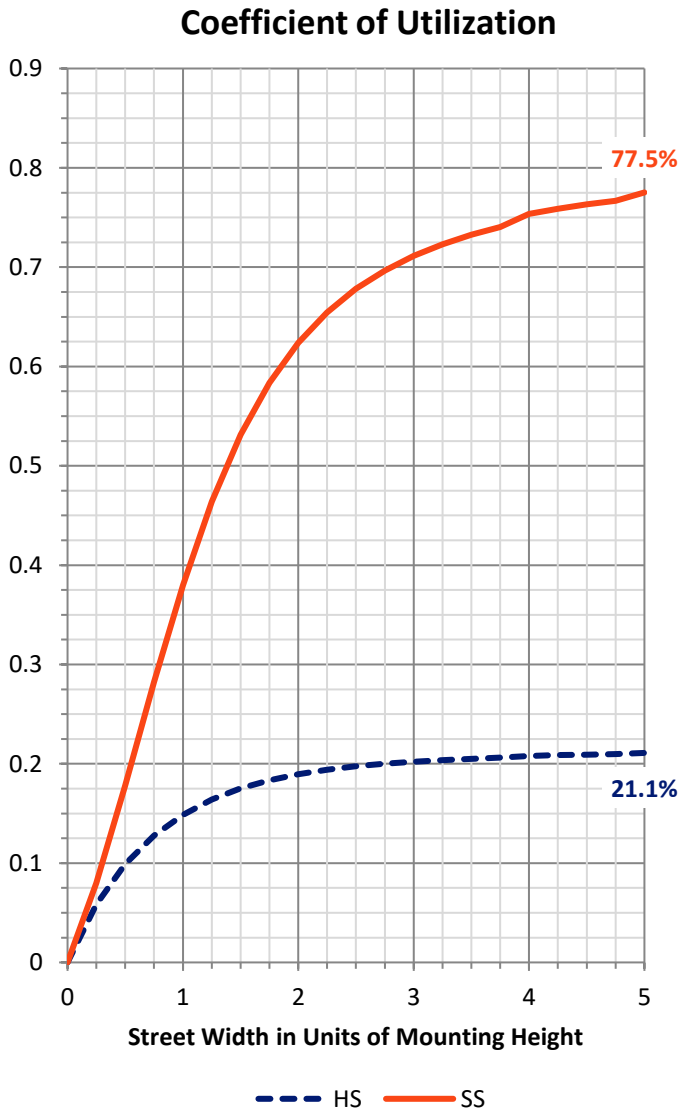
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1272.8	0.0	1272.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4704.2	0.0	4704.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	5977.0	0.0	5977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	0.8
10°-20°	151.5	2.5
20°-30°	320.1	5.4
30°-40°	585.0	9.8
40°-50°	950.5	15.9
50°-60°	1321.2	22.1
60°-70°	1369.6	22.9
70°-80°	981.4	16.4
80°-90°	250.2	4.2
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°	5977.0	100.0
0°-180°	5977.0	100.0



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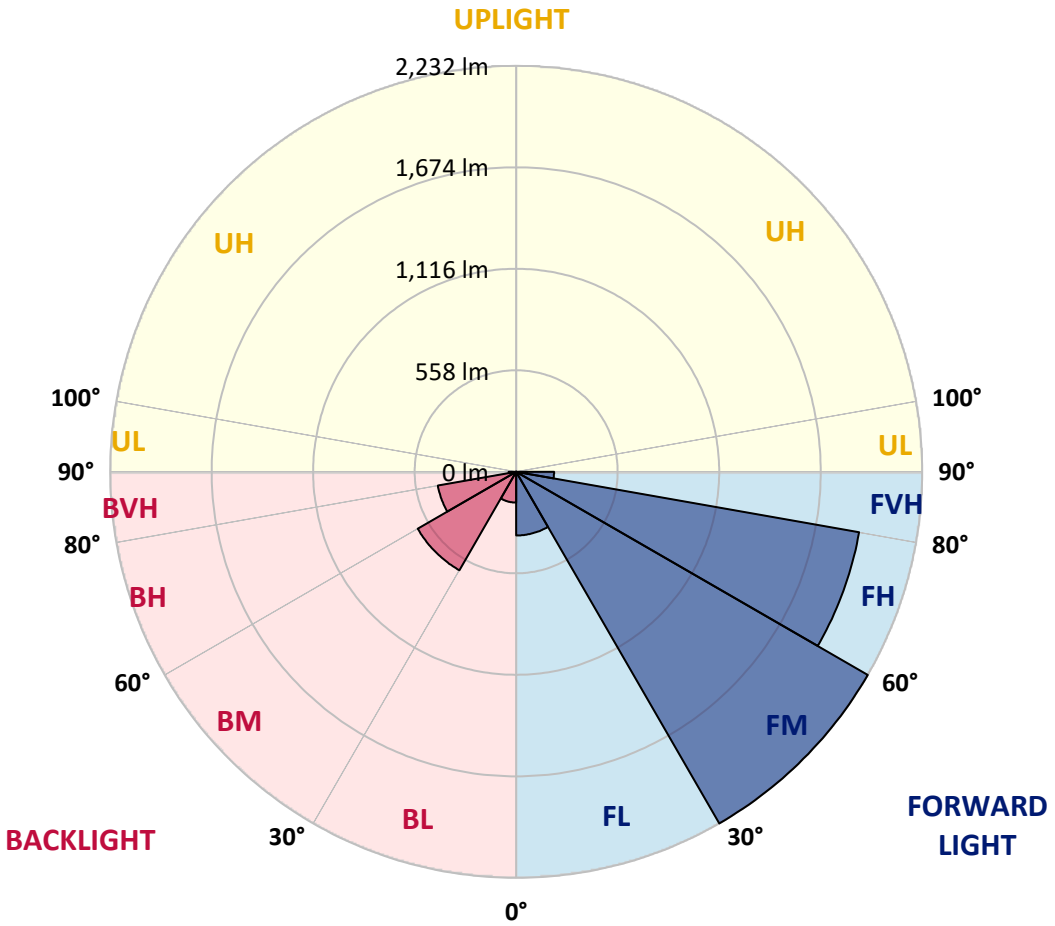
CATALOG NUMBER: TTN-D3-830-U-DL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	349.8	5.9			
FM	(30°-60°)	2231.8	37.3			
FH	(60°-80°)	1914.2	32.0			G2/5000
FVH	(80°-90°)	208.5	3.5			G2/225
BL	(0°-30°)	169.3	2.8	B1/500		
BM	(30°-60°)	624.9	10.5	B1/1000		
BH	(60°-80°)	436.9	7.3	B1/500		G1/500
BVH	(80°-90°)	41.8	0.7			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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Scaled Data Report

REPORT NUMBER: P823467
CATALOG NUMBER: TTN-D3-830-U-DL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	503.4	503.4	503.4	503.4	503.4	*503.4*	503.4	503.4	503.4	503.4	503.4
2.5°	539.7	539.7	539.7	539.7	534.5	*534.5*	529.3	524.2	519.0	513.8	503.4
5°	586.4	586.4	581.2	576.1	565.7	*560.5*	555.3	544.9	534.5	524.2	508.6
7.5°	607.2	607.2	607.2	602.0	586.4	*581.2*	570.9	555.3	539.7	524.2	503.4
10°	643.5	643.5	638.3	633.1	617.6	*612.4*	602.0	581.2	555.3	529.3	503.4
12.5°	690.2	685.0	679.8	674.7	659.1	*648.7*	633.1	612.4	581.2	550.1	519.0
15°	747.3	736.9	736.9	726.5	711.0	*695.4*	685.0	653.9	622.8	581.2	539.7
17.5°	809.6	804.4	799.2	788.8	773.3	*762.9*	747.3	711.0	669.5	617.6	570.9
20°	887.4	877.0	882.2	866.7	851.1	*845.9*	820.0	778.4	726.5	669.5	612.4
22.5°	980.8	970.5	970.5	954.9	944.5	*934.1*	908.2	861.5	794.0	731.7	659.1
25°	1084.6	1074.3	1074.3	1063.9	1053.5	*1043.1*	1012.0	960.1	882.2	804.4	721.4
27.5°	1198.8	1188.4	1188.4	1183.2	1157.3	*1141.7*	1115.8	1058.7	980.8	882.2	783.6
30°	1318.2	1307.8	1318.2	1307.8	1292.2	*1261.1*	1229.9	1167.7	1079.4	970.5	851.1
32.5°	1411.6	1411.6	1416.8	1427.2	1416.8	*1390.8*	1354.5	1302.6	1183.2	1048.3	913.4
35°	1520.6	1520.6	1530.9	1546.5	1541.3	*1515.4*	1479.0	1422.0	1297.4	1136.5	980.8
37.5°	1639.9	1639.9	1650.3	1676.3	1665.9	*1650.3*	1624.4	1551.7	1411.6	1224.8	1053.5
40°	1769.7	1764.5	1774.9	1811.2	1816.4	*1795.6*	1764.5	1691.8	1530.9	1338.9	1131.3
42.5°	1899.4	1894.2	1915.0	1951.3	1956.5	*1951.3*	1920.2	1837.1	1655.5	1453.1	1209.2
45°	2029.1	2029.1	2060.3	2117.4	2143.3	*2132.9*	2107.0	2003.2	1811.2	1572.5	1313.0
47.5°	2164.1	2164.1	2205.6	2278.3	2309.4	*2304.2*	2293.8	2169.3	1961.7	1697.0	1401.2
50°	2267.9	2267.9	2335.3	2418.4	2470.3	*2491.0*	2439.1	2325.0	2091.4	1806.0	1473.9
52.5°	2371.7	2371.7	2439.1	2568.9	2620.8	*2651.9*	2584.4	2465.1	2236.7	1904.6	1541.3
55°	2423.6	2433.9	2527.4	2651.9	2734.9	*2719.4*	2745.3	2584.4	2330.1	1977.3	1582.8
57.5°	2428.8	2444.3	2548.1	2677.9	2771.3	*2766.1*	2771.3	2626.0	2366.5	1992.8	1588.0
60°	*2402.8*	*2428.8*	*2522.2*	*2651.9*	*2740.1*	*2781.6*	*2729.8*	*2600.0*	*2345.7*	*1977.3*	*1582.8*
62.5°	2340.5	2392.4	2491.0	2589.6	2719.4	*2734.9*	2693.4	2584.4	2288.6	1961.7	1556.9
65°	2200.4	2257.5	2397.6	2511.8	2615.6	*2636.3*	2589.6	2496.2	2231.5	1889.0	1473.9
67.5°	2060.3	2096.6	2216.0	2392.4	2465.1	*2485.8*	2470.3	2361.3	2132.9	1743.7	1375.3
70°	1899.4	1946.1	2039.5	2221.2	2293.8	*2288.6*	2335.3	2210.8	1982.4	1619.2	1271.5
72.5°	1681.4	1748.9	1842.3	1992.8	2081.0	*2049.9*	2122.6	2018.8	1785.2	1463.5	1131.3
75°	1427.2	1484.2	1603.6	1723.0	1821.6	*1785.2*	1842.3	1769.7	1556.9	1276.7	970.5
77.5°	1141.7	1209.2	1318.2	1427.2	1494.6	*1494.6*	1520.6	1458.3	1292.2	1048.3	794.0
80°	845.9	908.2	1006.8	1084.6	1146.9	*1152.1*	1178.0	1146.9	996.4	814.8	607.2
82.5°	560.5	591.6	679.8	742.1	804.4	*799.2*	840.7	820.0	695.4	560.5	404.8
85°	238.7	259.5	332.1	384.0	441.1	*420.4*	477.4	472.3	373.7	269.9	181.6
87.5°	10.4	15.6	15.6	10.4	15.6	*5.2*	15.6	20.8	15.6	10.4	10.4
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: P823467
CATALOG NUMBER: TTN-D3-830-U-DL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	503.4	503.4	503.4	503.4	503.4	503.4	503.4	503.4	503.4	503.4	503.4
2.5°	503.4	498.2	487.8	482.6	477.4	467.1	467.1	461.9	461.9	461.9	456.7
5°	503.4	493.0	482.6	467.1	456.7	446.3	435.9	425.6	420.4	420.4	415.2
7.5°	493.0	482.6	467.1	451.5	435.9	415.2	404.8	384.0	378.8	373.7	373.7
10°	493.0	482.6	456.7	435.9	415.2	394.4	378.8	358.1	342.5	337.3	337.3
12.5°	498.2	482.6	456.7	430.7	404.8	378.8	358.1	337.3	321.8	311.4	311.4
15°	519.0	498.2	467.1	430.7	399.6	368.5	347.7	321.8	306.2	295.8	295.8
17.5°	544.9	524.2	477.4	435.9	399.6	363.3	337.3	311.4	295.8	285.4	280.2
20°	581.2	550.1	498.2	441.1	399.6	363.3	332.1	306.2	285.4	275.1	275.1
22.5°	622.8	586.4	519.0	451.5	404.8	363.3	332.1	301.0	280.2	269.9	269.9
25°	674.7	627.9	550.1	472.3	415.2	368.5	332.1	301.0	280.2	269.9	269.9
27.5°	731.7	679.8	581.2	493.0	425.6	373.7	332.1	301.0	280.2	269.9	269.9
30°	783.6	726.5	612.4	513.8	441.1	378.8	337.3	306.2	285.4	275.1	269.9
32.5°	840.7	768.1	643.5	534.5	451.5	389.2	342.5	311.4	285.4	275.1	275.1
35°	897.8	820.0	674.7	560.5	467.1	399.6	347.7	316.6	290.6	280.2	280.2
37.5°	960.1	877.0	711.0	581.2	482.6	410.0	358.1	321.8	295.8	285.4	285.4
40°	1032.7	934.1	747.3	607.2	498.2	420.4	363.3	332.1	306.2	295.8	295.8
42.5°	1100.2	986.0	783.6	627.9	513.8	430.7	373.7	337.3	316.6	306.2	306.2
45°	1167.7	1048.3	820.0	653.9	529.3	446.3	384.0	352.9	326.9	316.6	316.6
47.5°	1245.5	1105.4	861.5	674.7	544.9	456.7	394.4	363.3	337.3	332.1	326.9
50°	1307.8	1146.9	887.4	695.4	555.3	467.1	404.8	368.5	347.7	337.3	337.3
52.5°	1364.9	1188.4	908.2	705.8	560.5	472.3	415.2	378.8	358.1	347.7	347.7
55°	1396.0	1204.0	923.8	705.8	565.7	477.4	415.2	378.8	358.1	352.9	347.7
57.5°	1396.0	1204.0	913.4	695.4	555.3	467.1	410.0	373.7	358.1	347.7	347.7
60°	*1375.3*	*1188.4*	*887.4*	*674.7*	*539.7*	*451.5*	*399.6*	*363.3*	*347.7*	*342.5*	*342.5*
62.5°	1344.1	1162.5	866.7	648.7	519.0	430.7	384.0	347.7	337.3	337.3	332.1
65°	1261.1	1084.6	820.0	612.4	487.8	404.8	363.3	332.1	321.8	316.6	311.4
67.5°	1172.9	1012.0	747.3	570.9	446.3	378.8	337.3	311.4	295.8	295.8	290.6
70°	1084.6	934.1	679.8	513.8	399.6	347.7	306.2	280.2	269.9	269.9	269.9
72.5°	965.3	835.5	602.0	451.5	352.9	306.2	275.1	249.1	243.9	243.9	238.7
75°	825.2	711.0	508.6	384.0	295.8	259.5	233.5	207.6	207.6	207.6	207.6
77.5°	674.7	576.1	404.8	306.2	233.5	207.6	192.0	171.3	171.3	171.3	171.3
80°	508.6	425.6	295.8	223.2	171.3	150.5	140.1	129.7	134.9	134.9	129.7
82.5°	332.1	280.2	186.8	140.1	109.0	98.6	98.6	88.2	93.4	93.4	93.4
85°	145.3	124.6	77.8	62.3	51.9	51.9	51.9	46.7	51.9	51.9	51.9
87.5°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	0.0	5.2	10.4	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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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

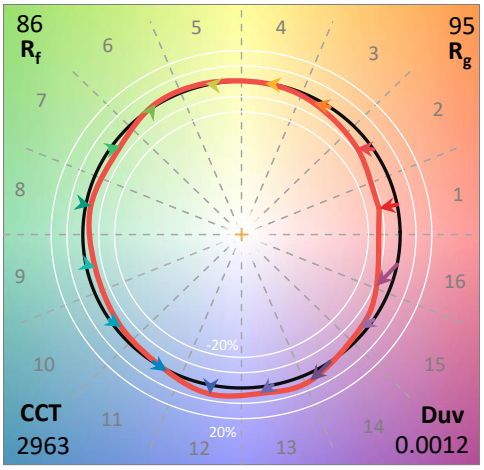
Test Information

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

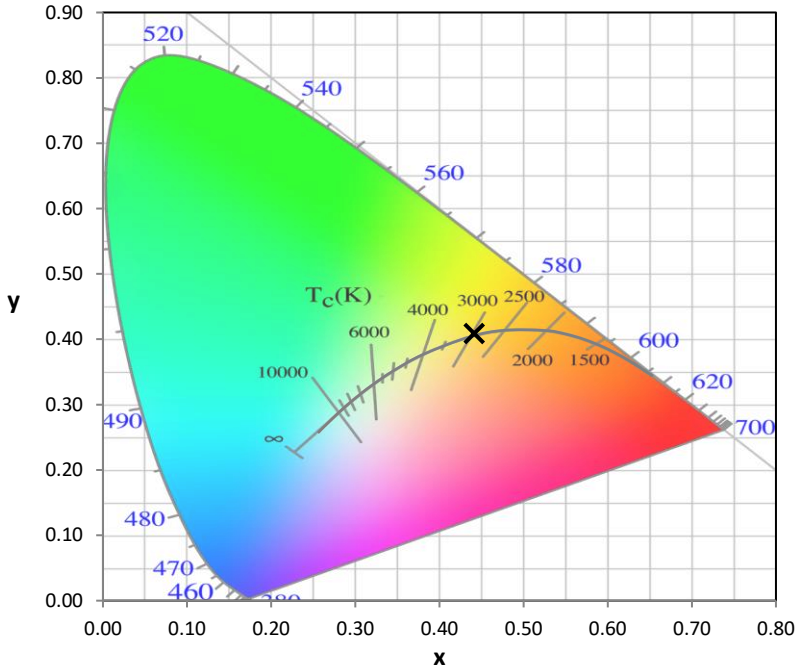
Stabilization Time:	37M
Operation Time:	1H 37M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2411-284-4

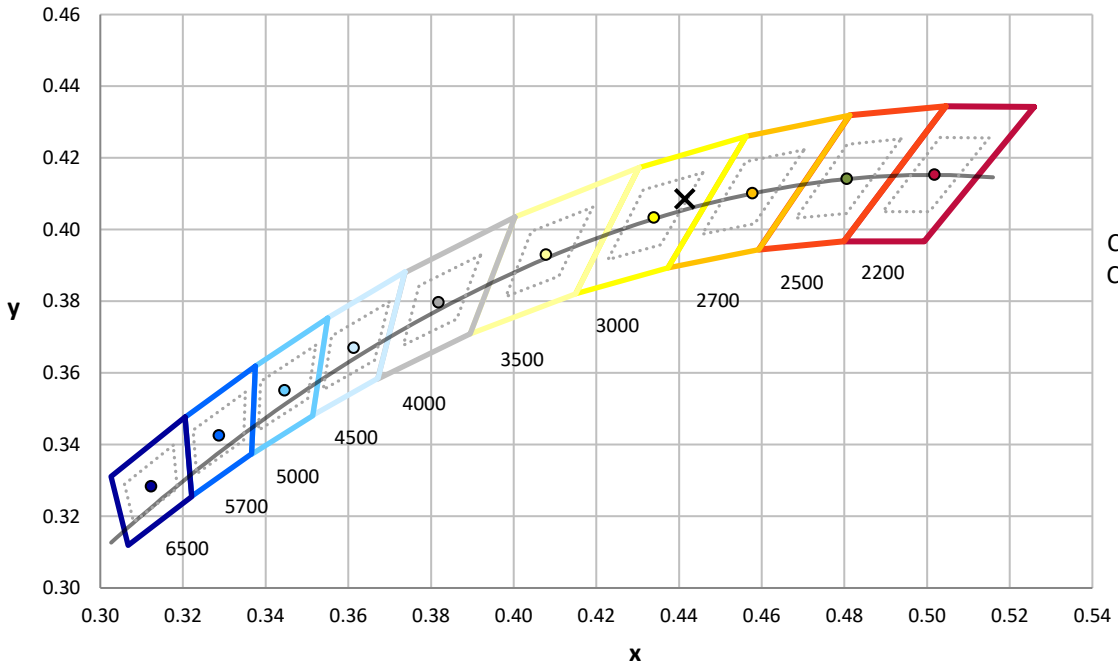
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

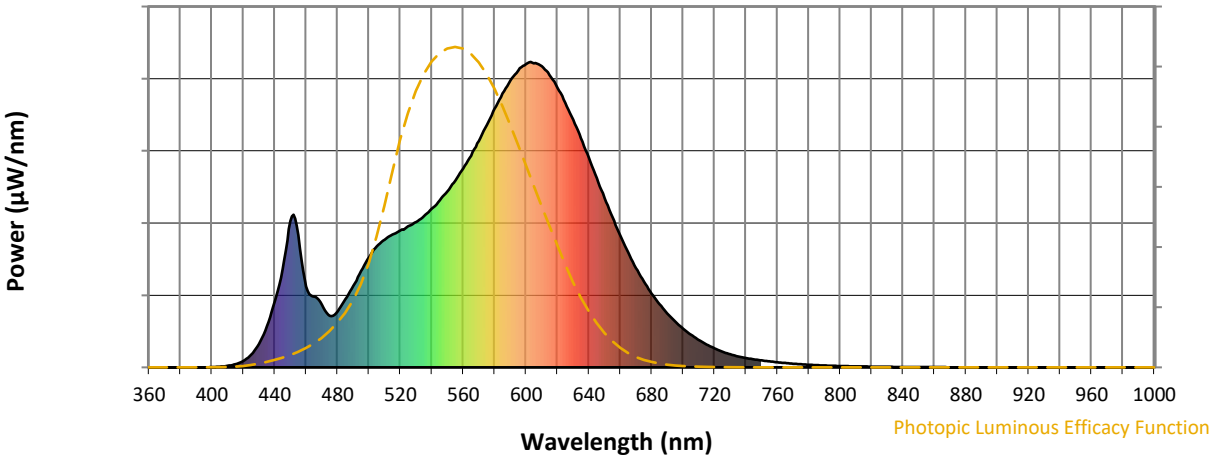


CCT = 2963K
CIE x = 0.4414
CIE y = 0.4086
Duv = 0.0012

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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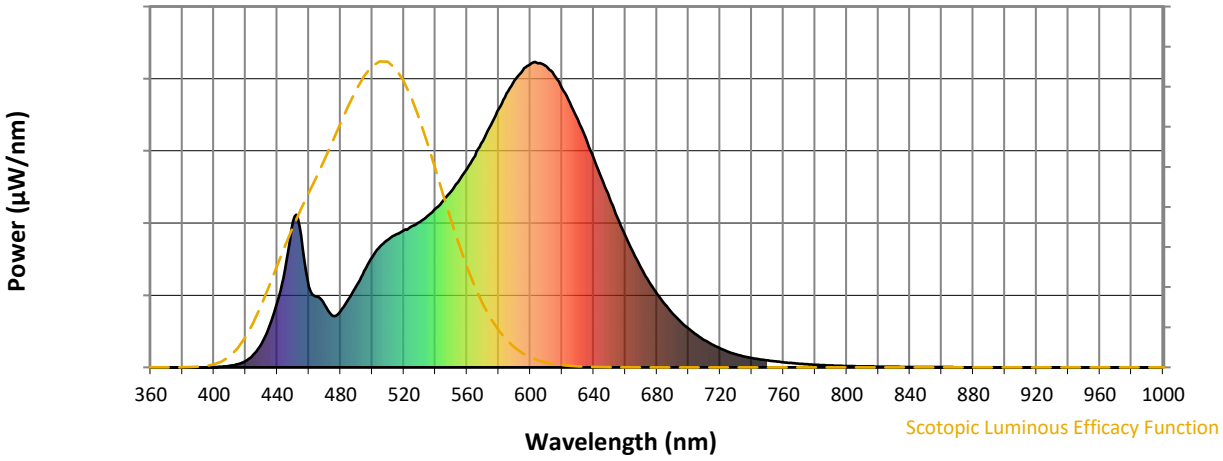
Scotopic Flux vs. Wavelength



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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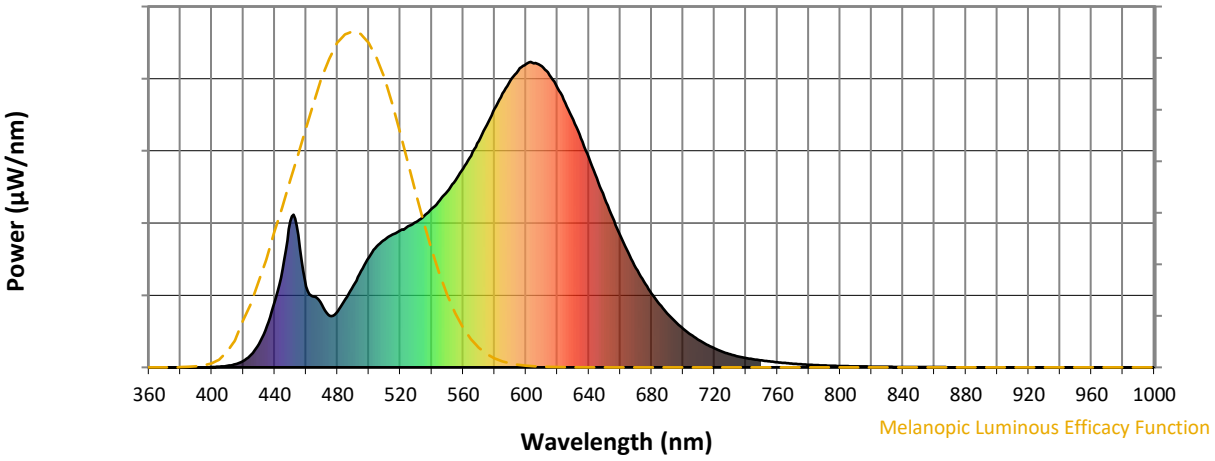
Melanopic Flux vs. Wavelength



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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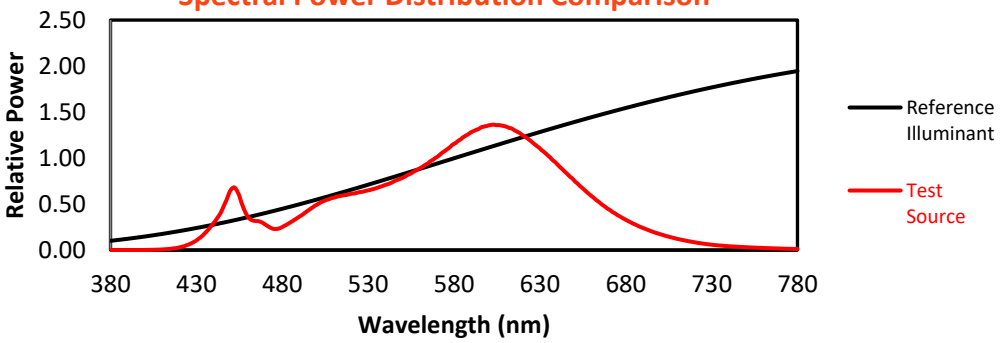
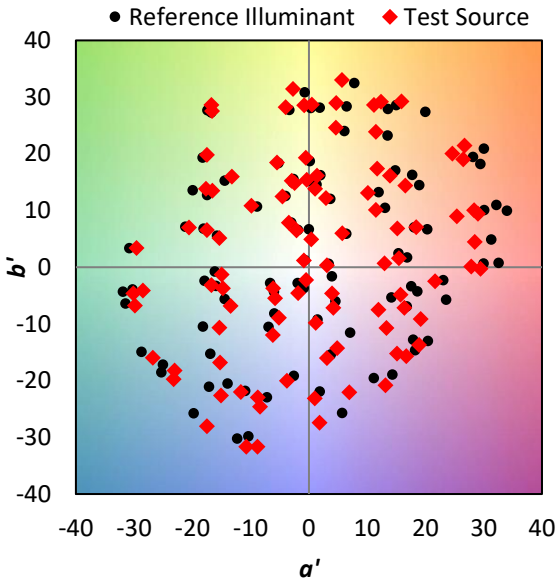
Summary

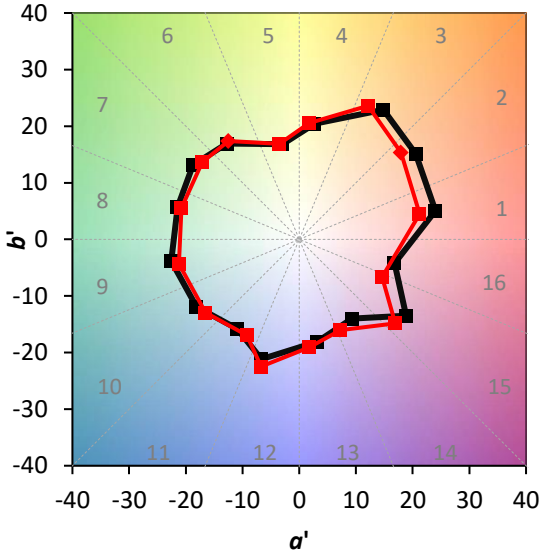
R_f = 86.1
R_g = 94.9
CIE R_a = 82.9
R_9 = 3.9

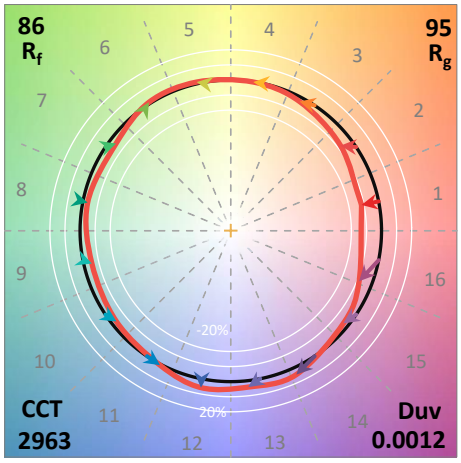
Spectral Power Distribution Comparison

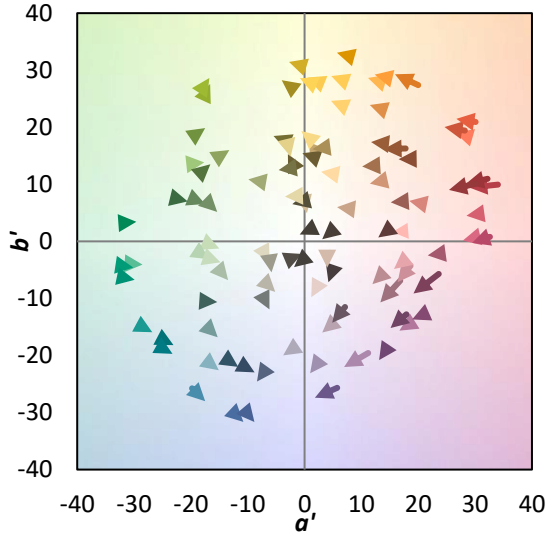


Color Vector Graphics









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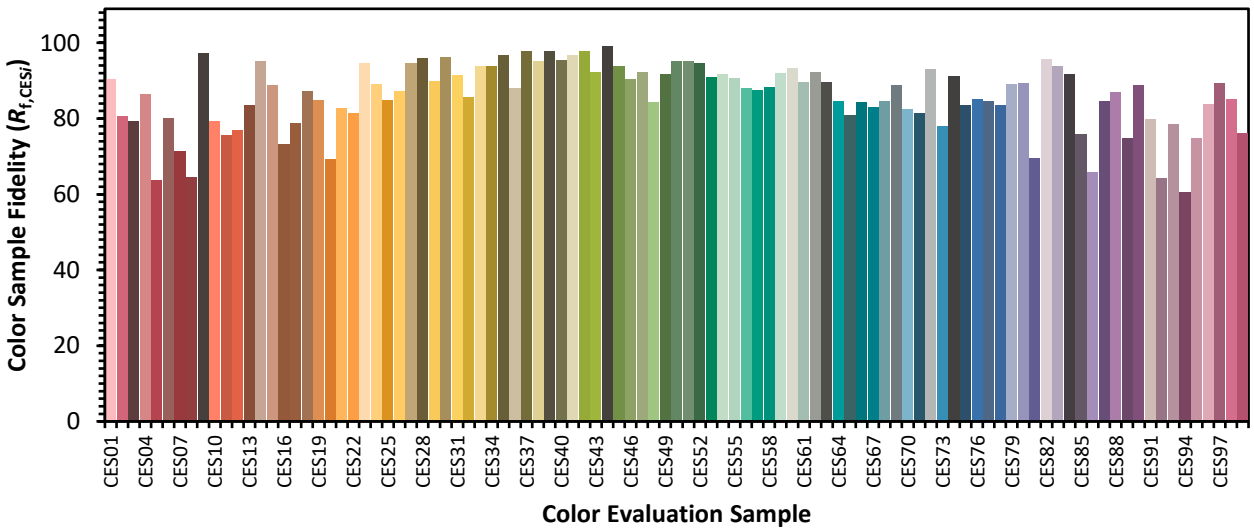
Individual Sample Fidelity Index ($R_{f,i}$)

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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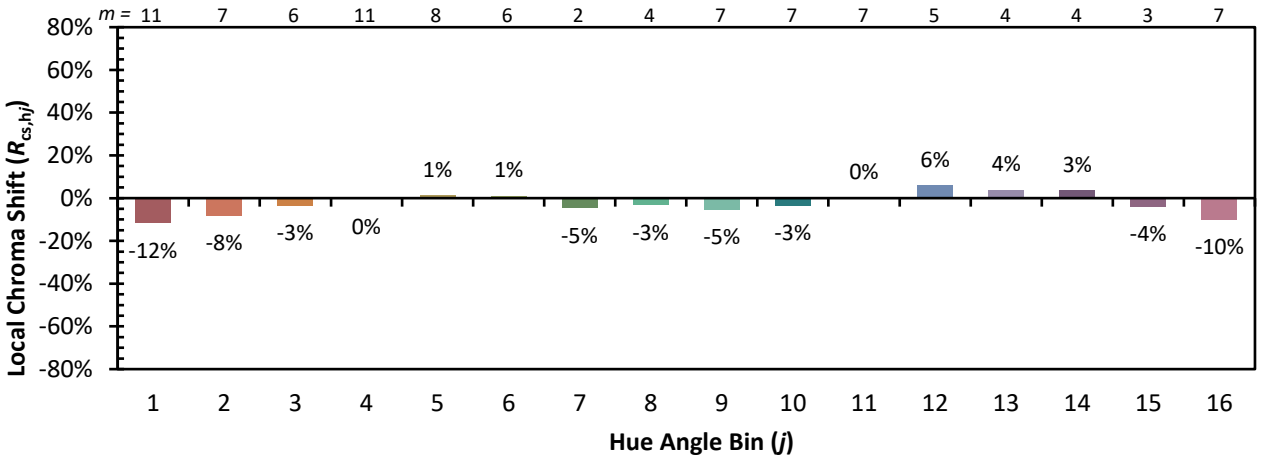
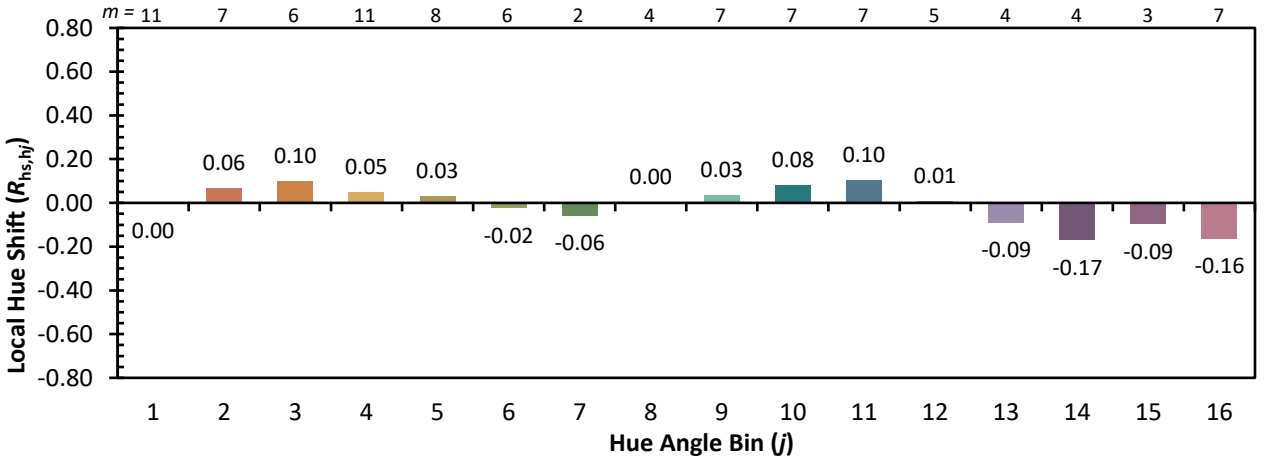
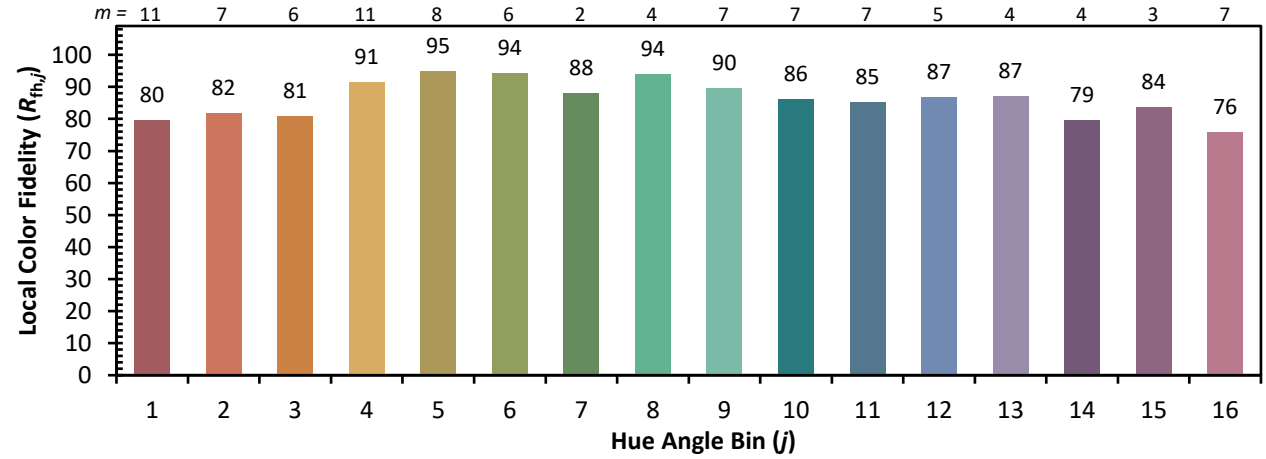
Color Rendition by Hue-Angle Bin







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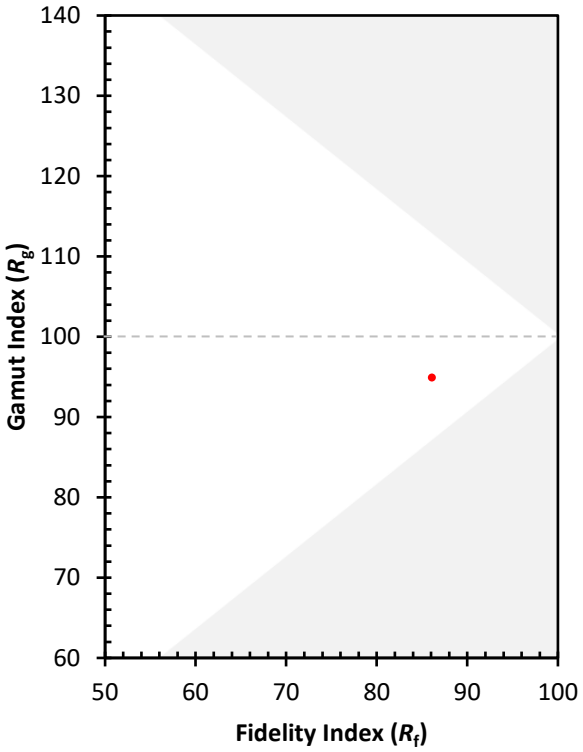
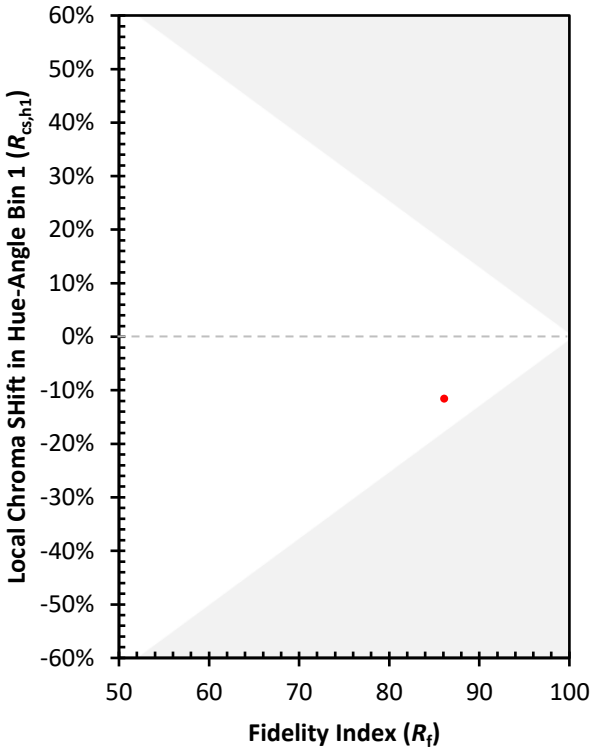
Measure Comparisons





(END OF REPORT)