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: P832626

Luminaire Tested: **TTN-D2-740-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:	P832626
	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-D2-740-U-DL-CG
Description:	TOPTIER NANO LED PARKING GARAGE LUMINAIRE
	4000K, 70 CRI LEDS AND DRIVE LANE DISTRIBUTION WITH CLEAR GLASS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4968 lumens
Efficiency:	N/A
Efficacy:	116.9 lumens/watt
Luminous Opening:	Circular (Dia: 0.71' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	42.5
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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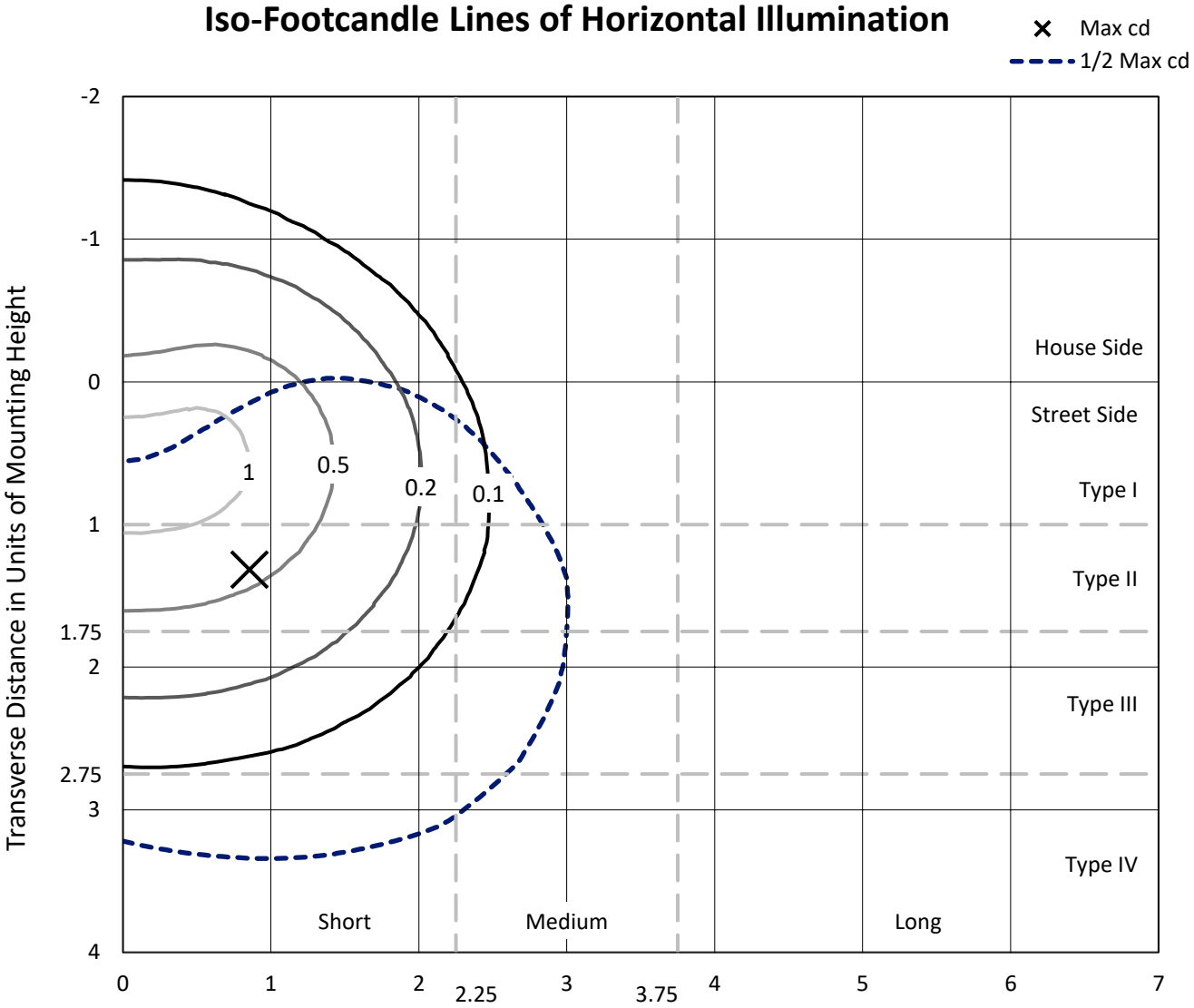
REPORT NUMBER: P832626
CATALOG NUMBER: TTN-D2-740-U-DL-CG

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type IV - Short - N/A

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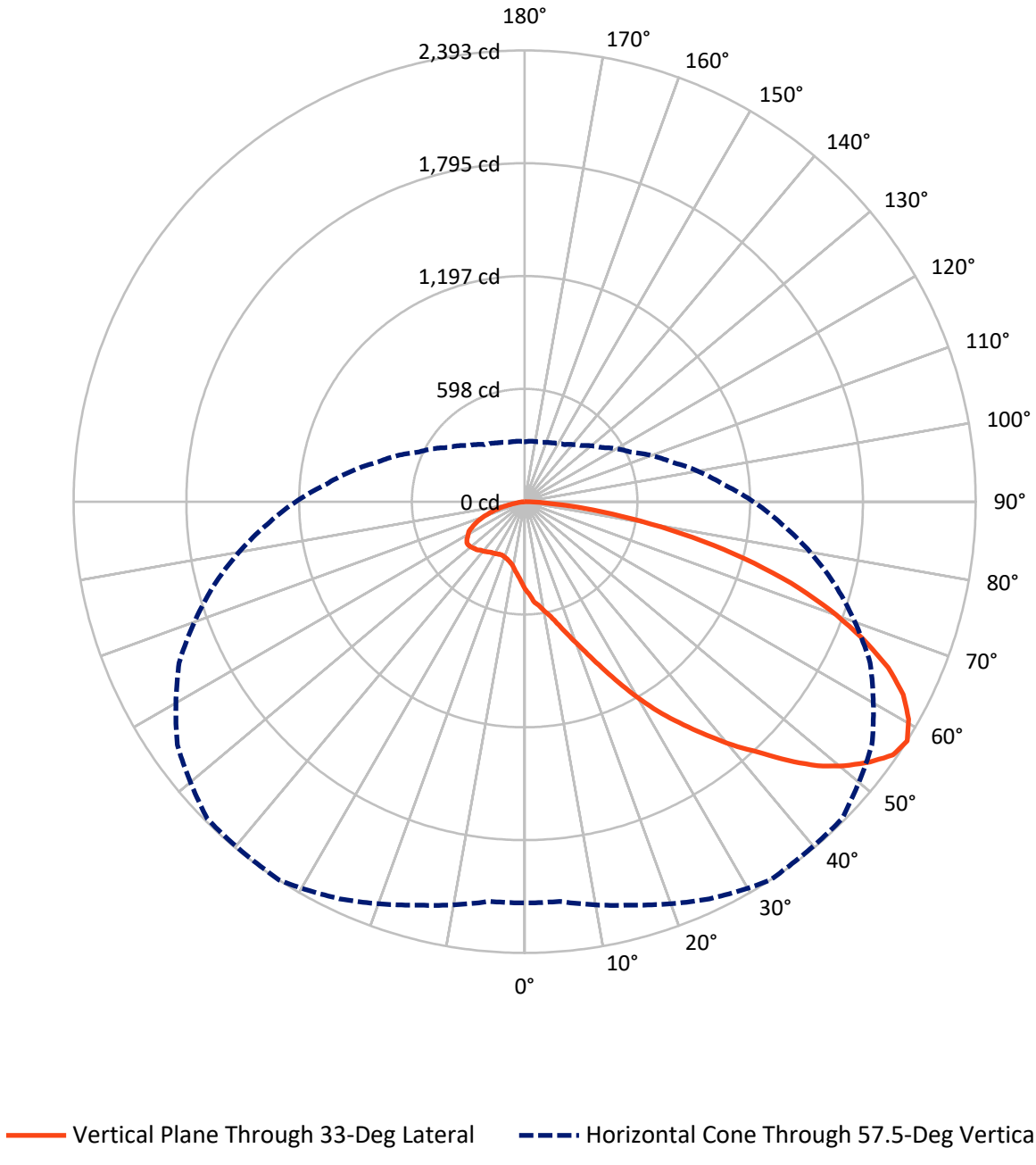
Luminous Intensity Polar Plot



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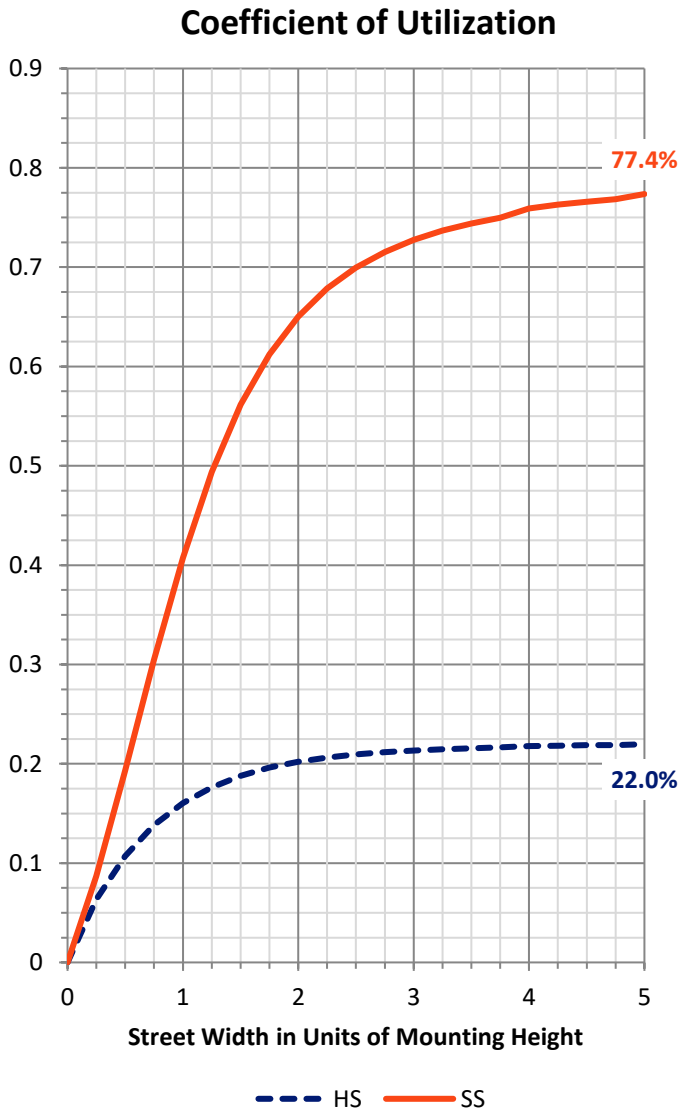
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1096.3	0.0	1096.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	3871.8	0.0	3871.8
	% Fixture	77.9	0.0	77.9
Total	Lumens	4968.0	0.0	4968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	0.9
10°-20°	144.5	2.9
20°-30°	304.6	6.1
30°-40°	553.2	11.1
40°-50°	874.2	17.6
50°-60°	1161.0	23.4
60°-70°	1117.4	22.5
70°-80°	655.9	13.2
80°-90°	112.6	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°	4968.0	100.0
0°-180°	4968.0	100.0



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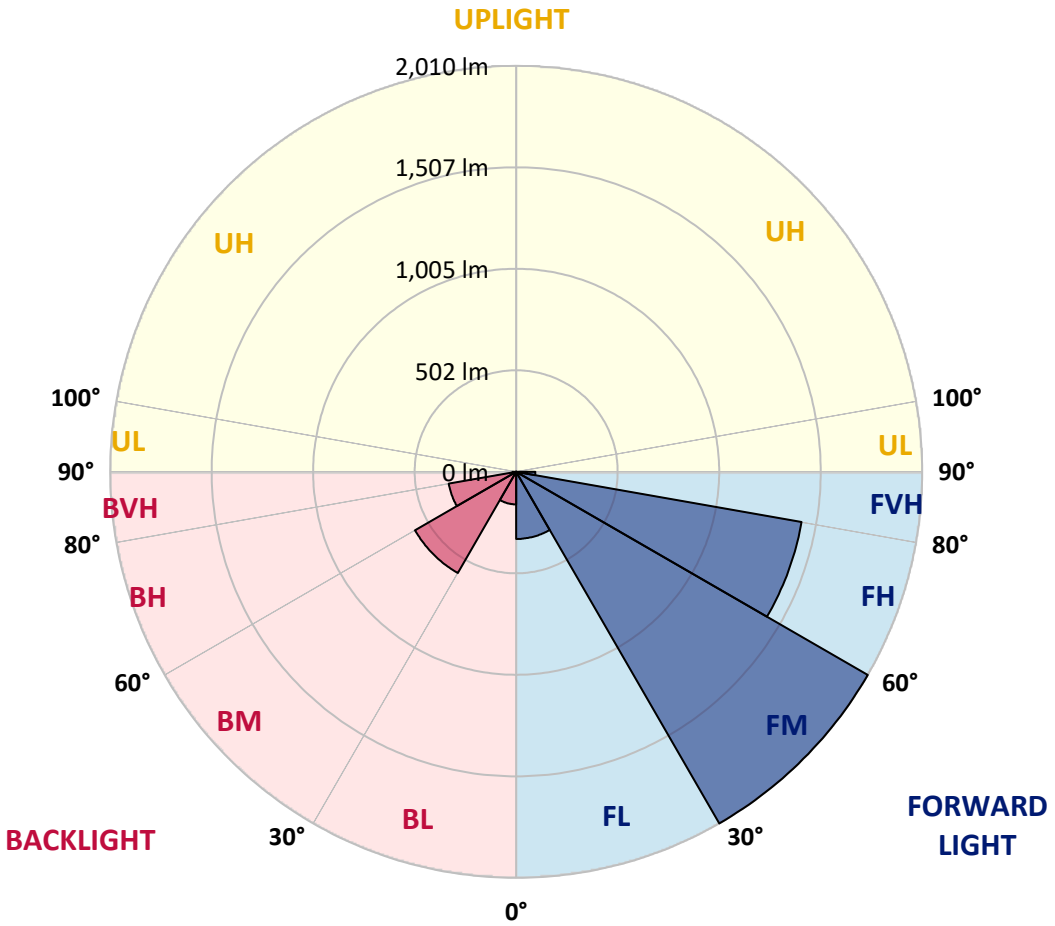
CATALOG NUMBER: TTN-D2-740-U-DL-CG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	332.4	6.7			
FM	(30°-60°)	2009.9	40.5			
FH	(60°-80°)	1434.4	28.9			G1/1800
FVH	(80°-90°)	95.1	1.9			G1/100
BL	(0°-30°)	161.3	3.2	B1/500		
BM	(30°-60°)	578.5	11.6	B1/1000		
BH	(60°-80°)	339.0	6.8	B1/500		G1/500
BVH	(80°-90°)	17.5	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-G1
Type IV Short



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Scaled Data Report

REPORT NUMBER: P832626
CATALOG NUMBER: TTN-D2-740-U-DL-CG

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	465.6	465.6	465.6	465.6	*465.6*	465.6	465.6	465.6	465.6	465.6	465.6
2.5°	496.1	500.4	496.1	496.1	*491.7*	491.7	487.4	483.0	478.7	474.3	465.6
5°	552.7	552.7	548.3	539.6	*535.2*	530.9	522.2	509.1	500.4	487.4	474.3
7.5°	578.8	578.8	574.4	565.7	*557.0*	552.7	539.6	522.2	509.1	491.7	474.3
10°	613.6	617.9	609.2	600.5	*591.8*	587.5	570.1	548.3	526.5	504.8	478.7
12.5°	652.7	657.1	652.7	639.7	*626.6*	622.3	604.9	578.8	552.7	522.2	491.7
15°	705.0	713.7	700.6	691.9	*678.9*	674.5	652.7	622.3	591.8	552.7	513.5
17.5°	765.9	770.2	761.5	748.5	*739.8*	735.4	713.7	678.9	635.3	591.8	544.0
20°	835.5	839.9	835.5	818.1	*809.4*	805.0	783.3	744.1	691.9	644.0	583.1
22.5°	918.2	926.9	913.8	900.8	*892.1*	892.1	866.0	822.5	761.5	700.6	631.0
25°	1013.9	1027.0	1009.6	1000.9	*992.2*	987.8	966.1	913.8	844.2	770.2	683.2
27.5°	1131.4	1140.1	1127.1	1122.7	*1105.3*	1105.3	1070.5	1009.6	935.6	848.6	748.5
30°	1235.9	1244.6	1235.9	1235.9	*1222.8*	1218.4	1183.6	1122.7	1031.3	926.9	805.0
32.5°	1335.9	1344.6	1340.3	1344.6	*1340.3*	1335.9	1292.4	1227.2	1135.8	1000.9	861.6
35°	1436.0	1449.1	1444.7	1457.8	*1453.4*	1449.1	1414.3	1335.9	1227.2	1092.3	922.5
37.5°	1540.5	1553.5	1553.5	1566.6	*1570.9*	1570.9	1531.8	1449.1	1327.2	1174.9	992.2
40°	1653.6	1666.7	1666.7	1688.4	*1697.1*	1697.1	1653.6	1570.9	1436.0	1266.3	1066.1
42.5°	1762.4	1775.5	1779.8	1801.6	*1814.6*	1819.0	1784.2	1688.4	1531.8	1357.7	1135.8
45°	1866.8	1879.9	1892.9	1936.5	*1958.2*	1953.9	1927.8	1827.7	1653.6	1453.4	1209.7
47.5°	1966.9	1984.3	2006.1	2062.7	*2093.1*	2088.8	2071.4	1958.2	1766.8	1544.8	1275.0
50°	2045.3	2058.3	2101.8	2162.7	*2201.9*	2206.3	2180.2	2071.4	1862.5	1614.4	1322.9
52.5°	2106.2	2123.6	2175.8	2262.8	*2293.3*	2306.4	2275.9	2167.1	1958.2	1675.4	1362.1
55°	2149.7	2149.7	2228.0	2328.1	*2371.6*	2380.3	2380.3	2245.4	2014.8	1714.5	1383.8
57.5°	*2127.9*	*2127.9*	*2215.0*	*2323.8*	*2393.4*	*2389.0*	*2380.3*	*2249.8*	*2023.5*	*1705.8*	*1370.8*
60°	2067.0	2080.1	2162.7	2271.5	*2341.2*	2336.8	2310.7	2193.2	1980.0	1671.0	1344.6
62.5°	1984.3	2006.1	2093.1	2175.8	*2254.1*	2267.2	2232.4	2127.9	1906.0	1618.8	1296.8
65°	1827.7	1858.1	1966.9	2058.3	*2119.2*	2145.3	2101.8	2006.1	1805.9	1518.7	1196.7
67.5°	1653.6	1675.4	1766.8	1897.3	*1932.1*	1958.2	1936.5	1836.4	1666.7	1357.7	1083.6
70°	1453.4	1488.2	1549.2	1679.7	*1718.9*	1745.0	1745.0	1644.9	1483.9	1192.3	948.7
72.5°	1218.4	1257.6	1331.6	1427.3	*1479.5*	1497.0	1492.6	1409.9	1266.3	1009.6	800.7
75°	961.7	992.2	1079.2	1148.8	*1205.4*	1218.4	1214.1	1144.5	1013.9	813.8	635.3
77.5°	709.3	739.8	805.0	857.3	*909.5*	900.8	900.8	848.6	765.9	604.9	483.0
80°	465.6	491.7	548.3	565.7	*622.3*	617.9	617.9	578.8	522.2	404.7	322.0
82.5°	256.7	278.5	317.7	335.1	*369.9*	361.2	365.5	339.4	304.6	226.3	182.8
85°	91.4	108.8	130.5	143.6	*161.0*	161.0	161.0	139.3	130.5	87.0	74.0
87.5°	4.4	8.7	17.4	17.4	*26.1*	26.1	26.1	17.4	17.4	4.4	4.4
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: P832626
CATALOG NUMBER: TTN-D2-740-U-DL-CG

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	465.6	465.6	465.6	465.6	465.6	465.6	465.6	465.6	465.6	465.6	465.6
2.5°	461.3	456.9	452.6	443.9	439.5	435.2	430.8	426.5	426.5	426.5	426.5
5°	465.6	461.3	448.2	435.2	422.1	409.1	400.3	396.0	391.6	387.3	387.3
7.5°	465.6	456.9	439.5	422.1	409.1	391.6	378.6	365.5	356.8	352.5	352.5
10°	470.0	456.9	435.2	417.8	396.0	374.2	356.8	339.4	330.7	322.0	322.0
12.5°	478.7	465.6	435.2	413.4	387.3	361.2	339.4	322.0	309.0	300.3	300.3
15°	496.1	478.7	443.9	413.4	382.9	352.5	330.7	309.0	295.9	287.2	287.2
17.5°	522.2	500.4	456.9	413.4	378.6	348.1	322.0	300.3	282.9	274.2	274.2
20°	552.7	526.5	474.3	422.1	378.6	343.8	317.7	291.6	274.2	265.4	265.4
22.5°	596.2	557.0	496.1	435.2	387.3	348.1	313.3	287.2	269.8	261.1	261.1
25°	644.0	600.5	522.2	452.6	396.0	348.1	313.3	287.2	269.8	261.1	256.7
27.5°	696.3	648.4	552.7	470.0	404.7	356.8	317.7	287.2	269.8	261.1	261.1
30°	744.1	687.6	583.1	491.7	417.8	361.2	322.0	291.6	269.8	261.1	261.1
32.5°	796.3	731.1	613.6	513.5	430.8	369.9	326.4	295.9	274.2	265.4	261.1
35°	848.6	774.6	644.0	530.9	443.9	378.6	330.7	300.3	278.5	269.8	269.8
37.5°	905.1	822.5	674.5	552.7	456.9	387.3	339.4	304.6	282.9	274.2	274.2
40°	966.1	870.3	705.0	570.1	470.0	396.0	348.1	313.3	291.6	282.9	282.9
42.5°	1027.0	922.5	739.8	591.8	483.0	404.7	352.5	322.0	300.3	291.6	291.6
45°	1087.9	966.1	770.2	613.6	496.1	417.8	365.5	330.7	309.0	300.3	300.3
47.5°	1144.5	1013.9	796.3	626.6	509.1	426.5	369.9	339.4	317.7	313.3	309.0
50°	1183.6	1044.4	813.8	639.7	513.5	430.8	378.6	343.8	326.4	317.7	317.7
52.5°	1214.1	1074.8	826.8	648.4	517.8	435.2	382.9	352.5	335.1	326.4	322.0
55°	1231.5	1079.2	826.8	639.7	513.5	435.2	382.9	352.5	335.1	326.4	326.4
57.5°	*1214.1*	*1057.4*	*809.4*	*622.3*	*500.4*	*422.1*	*369.9*	*343.8*	*326.4*	*322.0*	*317.7*
60°	1179.3	1022.6	774.6	596.2	478.7	400.3	352.5	330.7	317.7	313.3	309.0
62.5°	1131.4	979.1	739.8	561.4	448.2	374.2	339.4	313.3	304.6	300.3	295.9
65°	1035.7	896.4	683.2	517.8	409.1	343.8	309.0	291.6	282.9	274.2	269.8
67.5°	931.2	805.0	604.9	465.6	361.2	309.0	278.5	261.1	248.0	248.0	243.7
70°	818.1	709.3	522.2	396.0	313.3	269.8	239.3	226.3	217.6	217.6	213.2
72.5°	683.2	596.2	435.2	322.0	256.7	221.9	200.2	187.1	182.8	182.8	178.4
75°	548.3	470.0	343.8	252.4	200.2	174.1	156.7	148.0	143.6	143.6	139.3
77.5°	404.7	343.8	248.0	182.8	143.6	126.2	113.1	108.8	104.4	104.4	100.1
80°	269.8	226.3	161.0	117.5	87.0	78.3	69.6	69.6	65.3	69.6	65.3
82.5°	148.0	121.8	87.0	60.9	43.5	39.2	34.8	34.8	39.2	39.2	34.8
85°	56.6	43.5	30.5	17.4	13.1	13.1	13.1	13.1	13.1	13.1	8.7
87.5°	4.4	4.4	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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LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2411-284-2

Test Date: 11/20/2024

Luminaire Tested: TTN-D0-740-U-WQ

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

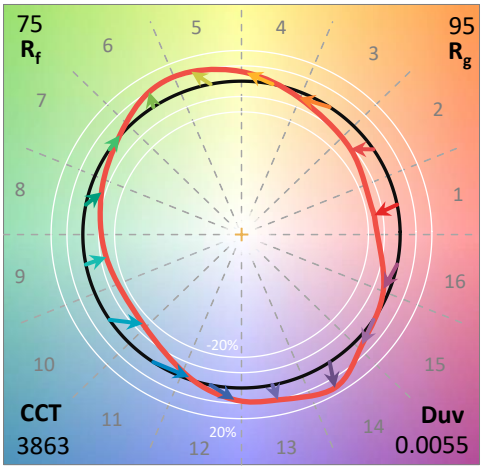
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2411-284-2
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	11/20/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**TTN-D0-740-U-WQ**
Description:	TOPTIER NANO LED PARKING GARAGE LUMINAIRE. 4000K, 70 CRI LEDS AND WIDE DISTRIBUTION

Spectral Parameters

CCT (K):	3863
CIE u':	0.2247
CIE v':	0.5111
Duv:	0.0055
CIE x:	0.3911
CIE y:	0.3954
CIE z:	0.2136
Peak Wavelength (nm):	448
Dominant Wavelength (nm):	577
Purity:	36.03443
Rf:	74.7
Rg:	95.4

CRI (Ra):	71.9
R1:	69.4
R2:	76.9
R3:	83.3
R4:	72.7
R5:	68.4
R6:	67.5
R7:	82.0
R8:	55.3
R9:	-23.5
R10:	45.4
R11:	68.7
R12:	38.7
R13:	70.0
R14:	90.3
R15:	62.1



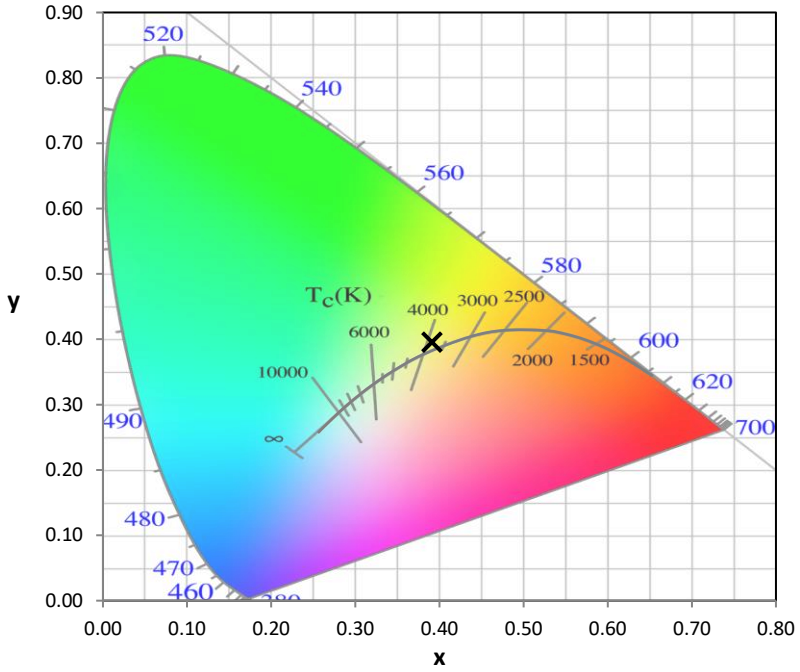
Test Conditions

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

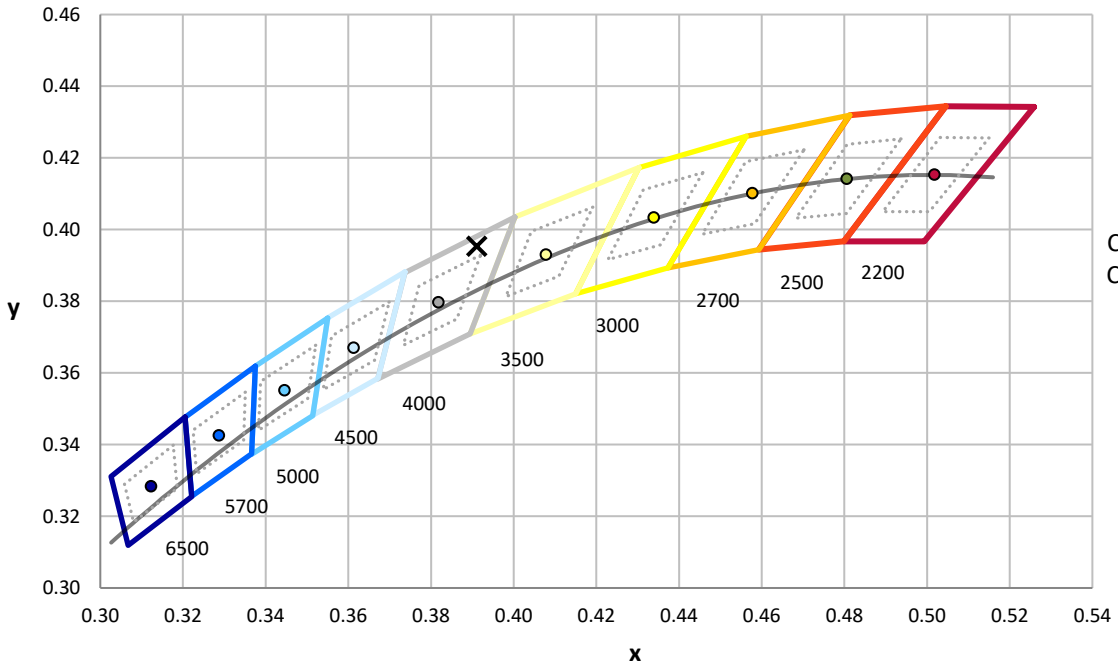
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2411-284-2

CIE 1931 Chromaticity Diagram



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

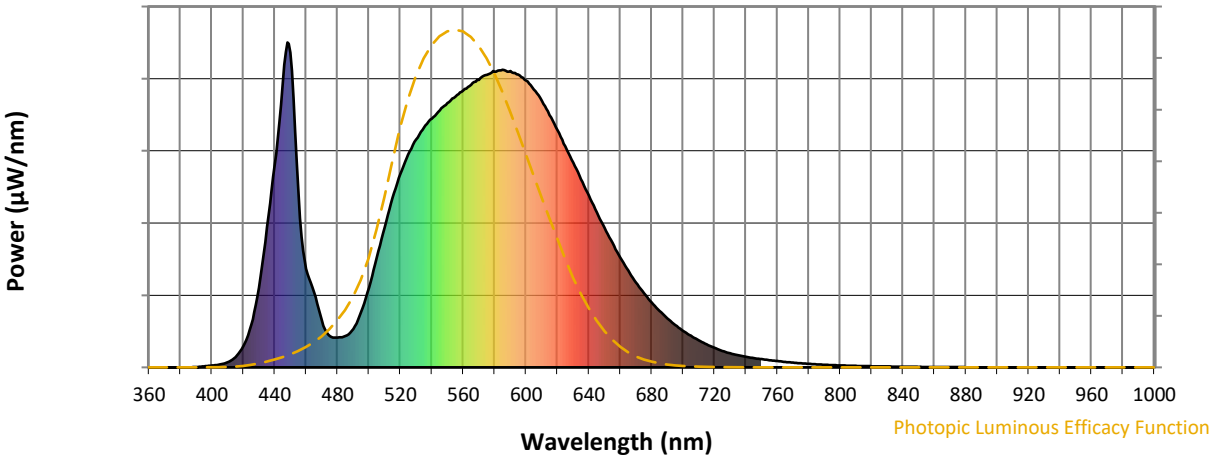


CCT = 3863K
CIE x = 0.3911
CIE y = 0.3954
Duv = 0.0055

Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2411-284-2

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	118	NR	620	730	NR	750	25	NR	880	1	NR
365	0	NR	495	170	NR	625	680	NR	755	22	NR	885	0	NR
370	0	NR	500	245	NR	630	630	NR	760	19	NR	890	0	NR
375	0	NR	505	338	NR	635	579	NR	765	17	NR	895	0	NR
380	0	NR	510	431	NR	640	529	NR	770	14	NR	900	0	NR
385	0	NR	515	521	NR	645	477	NR	775	13	NR	905	0	NR
390	1	NR	520	596	NR	650	429	NR	780	11	NR	910	0	NR
395	3	NR	525	655	NR	655	383	NR	785	9	NR	915	0	NR
400	6	NR	530	701	NR	660	338	NR	790	8	NR	920	0	NR
405	9	NR	535	739	NR	665	298	NR	795	7	NR	925	0	NR
410	16	NR	540	766	NR	670	261	NR	800	6	NR	930	0	NR
415	32	NR	545	791	NR	675	228	NR	805	5	NR	935	0	NR
420	65	NR	550	813	NR	680	200	NR	810	5	NR	940	0	NR
425	131	NR	555	833	NR	685	173	NR	815	4	NR	945	0	NR
430	245	NR	560	852	NR	690	151	NR	820	3	NR	950	0	NR
435	432	NR	565	870	NR	695	130	NR	825	3	NR	955	0	NR
440	622	NR	570	885	NR	700	112	NR	830	3	NR	960	0	NR
445	870	NR	575	900	NR	705	97	NR	835	2	NR	965	0	NR
450	969	NR	580	911	NR	710	83	NR	840	2	NR	970	0	NR
455	544	NR	585	916	NR	715	71	NR	845	2	NR	975	0	NR
460	304	NR	590	912	NR	720	60	NR	850	1	NR	980	0	NR
465	231	NR	595	901	NR	725	51	NR	855	1	NR	985	0	NR
470	142	NR	600	882	NR	730	43	NR	860	1	NR	990	0	NR
475	96	NR	605	855	NR	735	37	NR	865	1	NR	995	0	NR
480	92	NR	610	820	NR	740	32	NR	870	1	NR	1000	0	NR
485	96	NR	615	776	NR	745	29	NR	875	1	NR			

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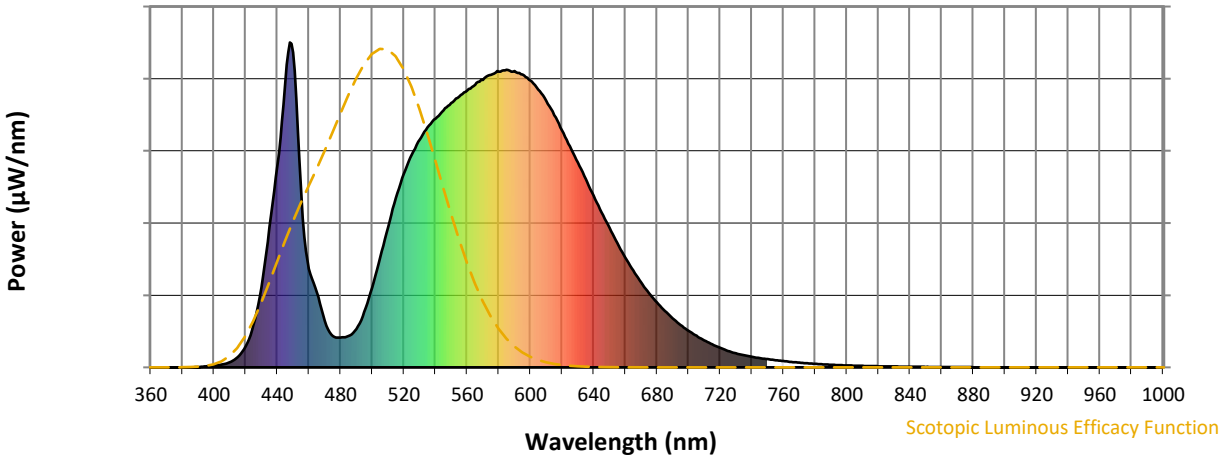
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.45**

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	118	NR	620	730	NR	750	25	NR	880	1	NR
365	0	NR	495	170	NR	625	680	NR	755	22	NR	885	0	NR
370	0	NR	500	245	NR	630	630	NR	760	19	NR	890	0	NR
375	0	NR	505	338	NR	635	579	NR	765	17	NR	895	0	NR
380	0	NR	510	431	NR	640	529	NR	770	14	NR	900	0	NR
385	0	NR	515	521	NR	645	477	NR	775	13	NR	905	0	NR
390	1	NR	520	596	NR	650	429	NR	780	11	NR	910	0	NR
395	3	NR	525	655	NR	655	383	NR	785	9	NR	915	0	NR
400	6	NR	530	701	NR	660	338	NR	790	8	NR	920	0	NR
405	9	NR	535	739	NR	665	298	NR	795	7	NR	925	0	NR
410	16	NR	540	766	NR	670	261	NR	800	6	NR	930	0	NR
415	32	NR	545	791	NR	675	228	NR	805	5	NR	935	0	NR
420	65	NR	550	813	NR	680	200	NR	810	5	NR	940	0	NR
425	131	NR	555	833	NR	685	173	NR	815	4	NR	945	0	NR
430	245	NR	560	852	NR	690	151	NR	820	3	NR	950	0	NR
435	432	NR	565	870	NR	695	130	NR	825	3	NR	955	0	NR
440	622	NR	570	885	NR	700	112	NR	830	3	NR	960	0	NR
445	870	NR	575	900	NR	705	97	NR	835	2	NR	965	0	NR
450	969	NR	580	911	NR	710	83	NR	840	2	NR	970	0	NR
455	544	NR	585	916	NR	715	71	NR	845	2	NR	975	0	NR
460	304	NR	590	912	NR	720	60	NR	850	1	NR	980	0	NR
465	231	NR	595	901	NR	725	51	NR	855	1	NR	985	0	NR
470	142	NR	600	882	NR	730	43	NR	860	1	NR	990	0	NR
475	96	NR	605	855	NR	735	37	NR	865	1	NR	995	0	NR
480	92	NR	610	820	NR	740	32	NR	870	1	NR	1000	0	NR
485	96	NR	615	776	NR	745	29	NR	875	1	NR			

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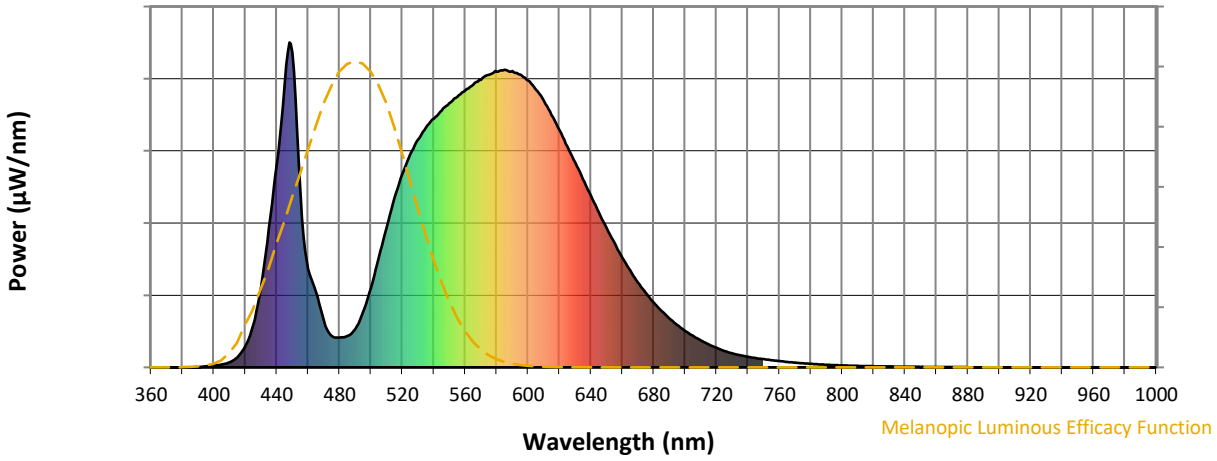
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.72**

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	118	NR	620	730	NR	750	25	NR	880	1	NR
365	0	NR	495	170	NR	625	680	NR	755	22	NR	885	0	NR
370	0	NR	500	245	NR	630	630	NR	760	19	NR	890	0	NR
375	0	NR	505	338	NR	635	579	NR	765	17	NR	895	0	NR
380	0	NR	510	431	NR	640	529	NR	770	14	NR	900	0	NR
385	0	NR	515	521	NR	645	477	NR	775	13	NR	905	0	NR
390	1	NR	520	596	NR	650	429	NR	780	11	NR	910	0	NR
395	3	NR	525	655	NR	655	383	NR	785	9	NR	915	0	NR
400	6	NR	530	701	NR	660	338	NR	790	8	NR	920	0	NR
405	9	NR	535	739	NR	665	298	NR	795	7	NR	925	0	NR
410	16	NR	540	766	NR	670	261	NR	800	6	NR	930	0	NR
415	32	NR	545	791	NR	675	228	NR	805	5	NR	935	0	NR
420	65	NR	550	813	NR	680	200	NR	810	5	NR	940	0	NR
425	131	NR	555	833	NR	685	173	NR	815	4	NR	945	0	NR
430	245	NR	560	852	NR	690	151	NR	820	3	NR	950	0	NR
435	432	NR	565	870	NR	695	130	NR	825	3	NR	955	0	NR
440	622	NR	570	885	NR	700	112	NR	830	3	NR	960	0	NR
445	870	NR	575	900	NR	705	97	NR	835	2	NR	965	0	NR
450	969	NR	580	911	NR	710	83	NR	840	2	NR	970	0	NR
455	544	NR	585	916	NR	715	71	NR	845	2	NR	975	0	NR
460	304	NR	590	912	NR	720	60	NR	850	1	NR	980	0	NR
465	231	NR	595	901	NR	725	51	NR	855	1	NR	985	0	NR
470	142	NR	600	882	NR	730	43	NR	860	1	NR	990	0	NR
475	96	NR	605	855	NR	735	37	NR	865	1	NR	995	0	NR
480	92	NR	610	820	NR	740	32	NR	870	1	NR	1000	0	NR
485	96	NR	615	776	NR	745	29	NR	875	1	NR			

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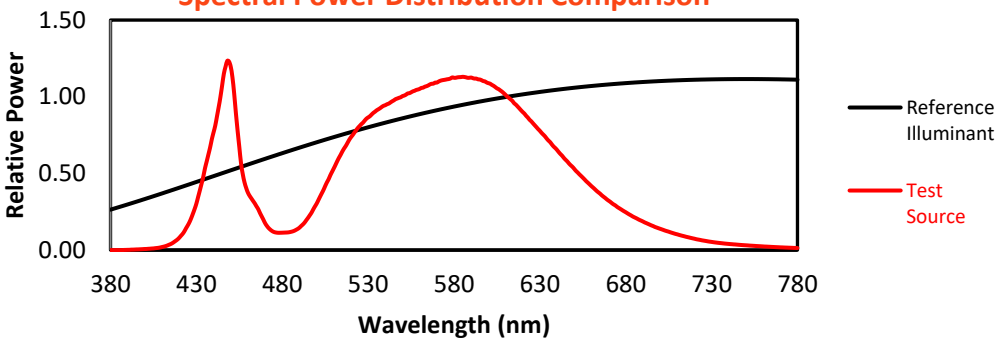
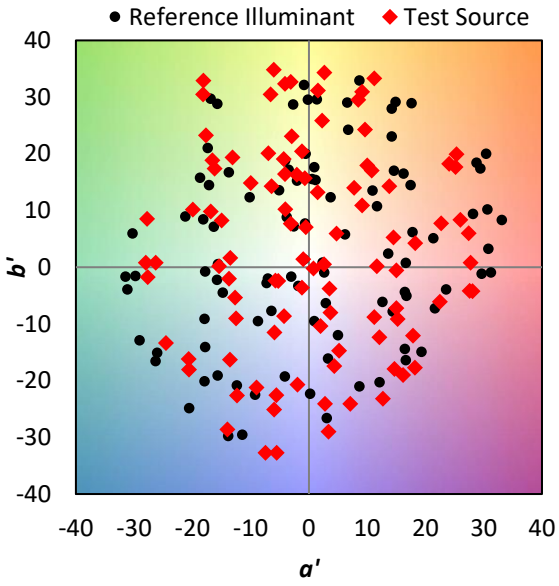
Summary

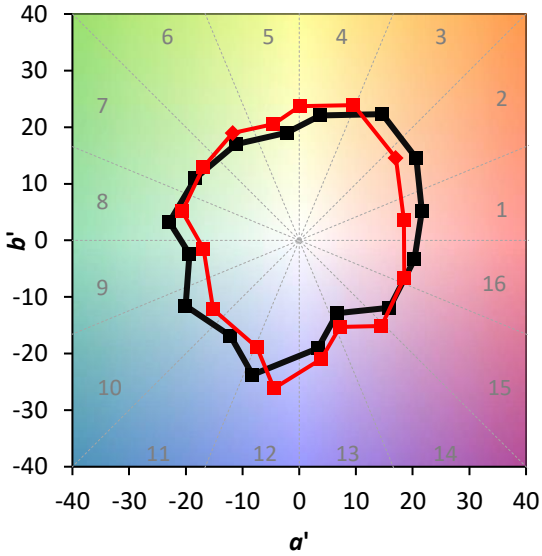
R_f = 74.7
R_g = 95.4
CIE R_a = 71.9
R_9 = -23.5

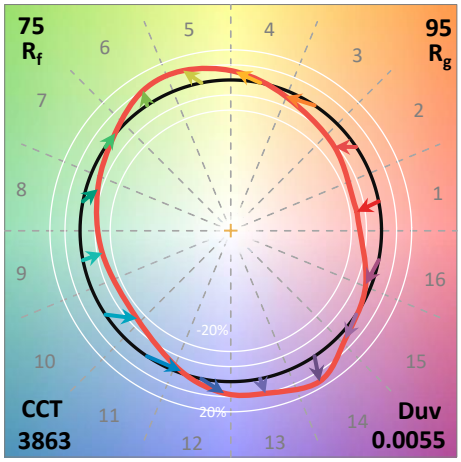
Spectral Power Distribution Comparison

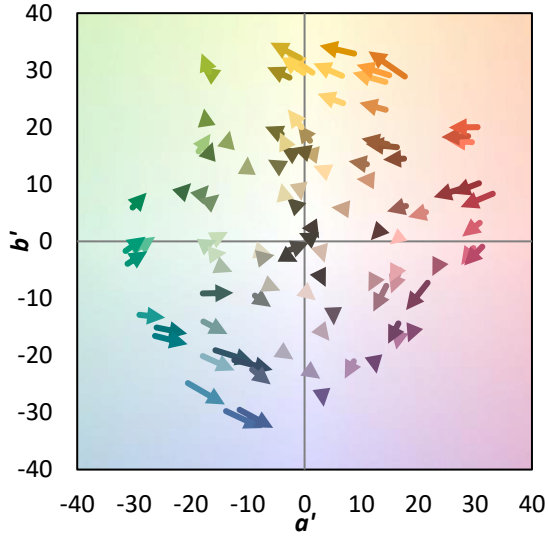


Color Vector Graphics









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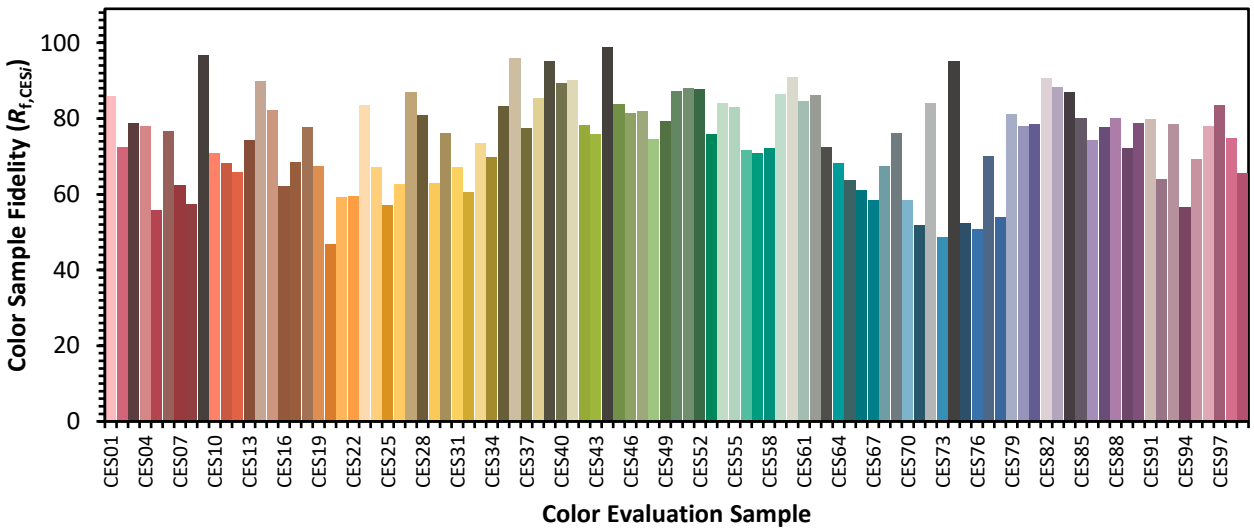
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 63	CES51 = 88	CES76 = 51
CES02 = 61	CES27 = 87	CES52 = 88	CES77 = 70
CES03 = 30	CES28 = 81	CES53 = 76	CES78 = 54
CES04 = 70	CES29 = 63	CES54 = 84	CES79 = 81
CES05 = 47	CES30 = 76	CES55 = 83	CES80 = 78
CES06 = 50	CES31 = 67	CES56 = 72	CES81 = 79
CES07 = 40	CES32 = 61	CES57 = 71	CES82 = 91
CES08 = 39	CES33 = 73	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 70	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 83	CES60 = 91	CES85 = 80
CES11 = 57	CES36 = 96	CES61 = 85	CES86 = 74
CES12 = 63	CES37 = 77	CES62 = 86	CES87 = 78
CES13 = 42	CES38 = 85	CES63 = 72	CES88 = 80
CES14 = 74	CES39 = 95	CES64 = 68	CES89 = 72
CES15 = 71	CES40 = 89	CES65 = 64	CES90 = 79
CES16 = 46	CES41 = 90	CES66 = 61	CES91 = 80
CES17 = 49	CES42 = 78	CES67 = 58	CES92 = 64
CES18 = 56	CES43 = 76	CES68 = 67	CES93 = 78
CES19 = 71	CES44 = 99	CES69 = 76	CES94 = 57
CES20 = 65	CES45 = 84	CES70 = 58	CES95 = 69
CES21 = 86	CES46 = 81	CES71 = 52	CES96 = 78
CES22 = 78	CES47 = 82	CES72 = 84	CES97 = 84
CES23 = 92	CES48 = 75	CES73 = 49	CES98 = 75
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 66
CES25 = 72	CES50 = 87	CES75 = 52	



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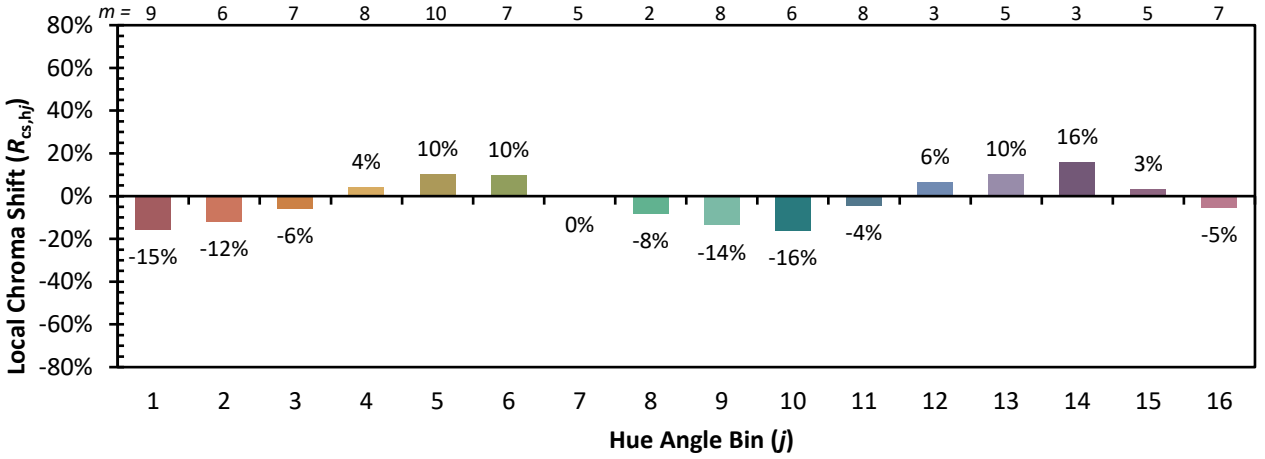
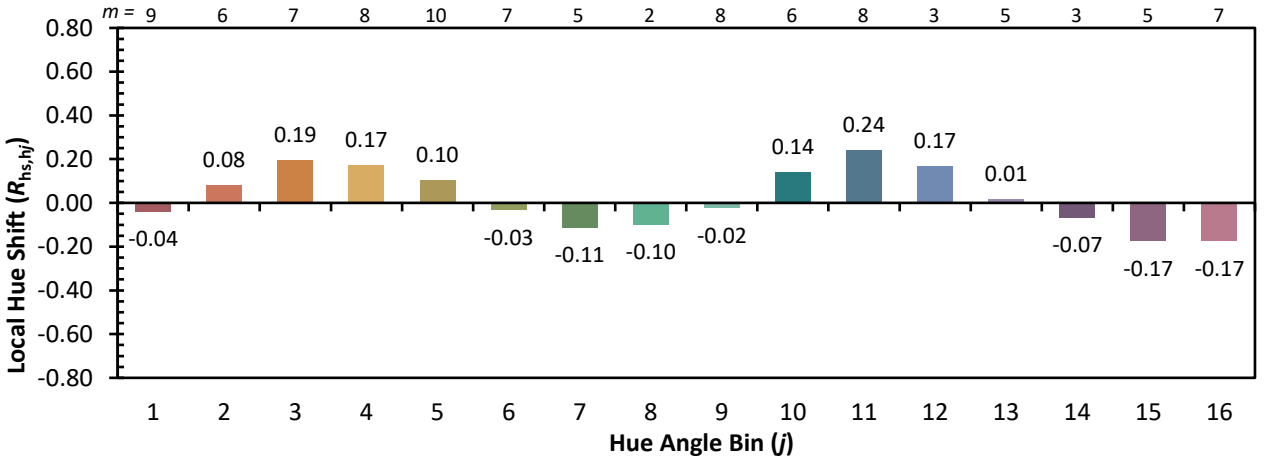
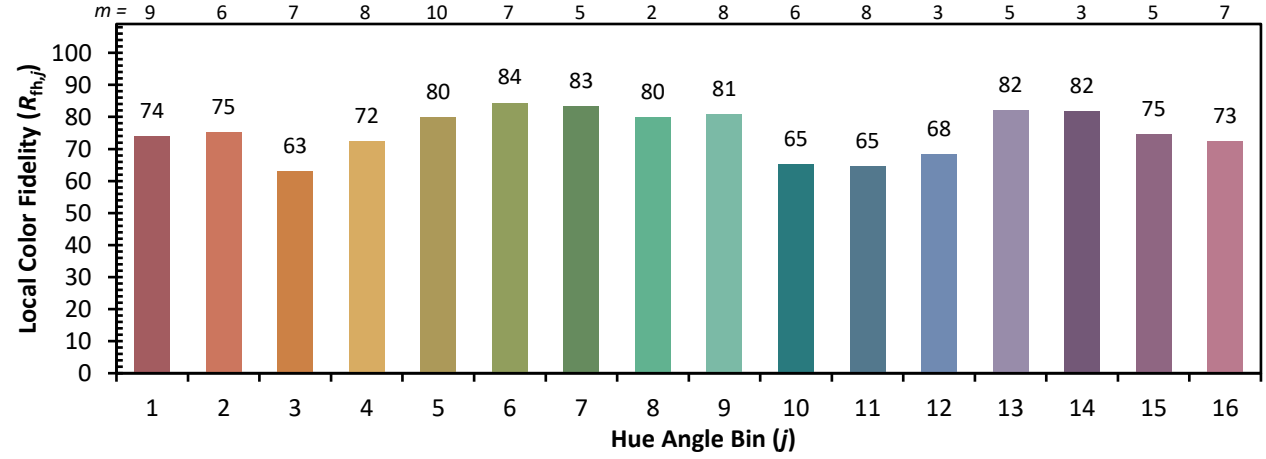
Color Rendition by Hue-Angle Bin







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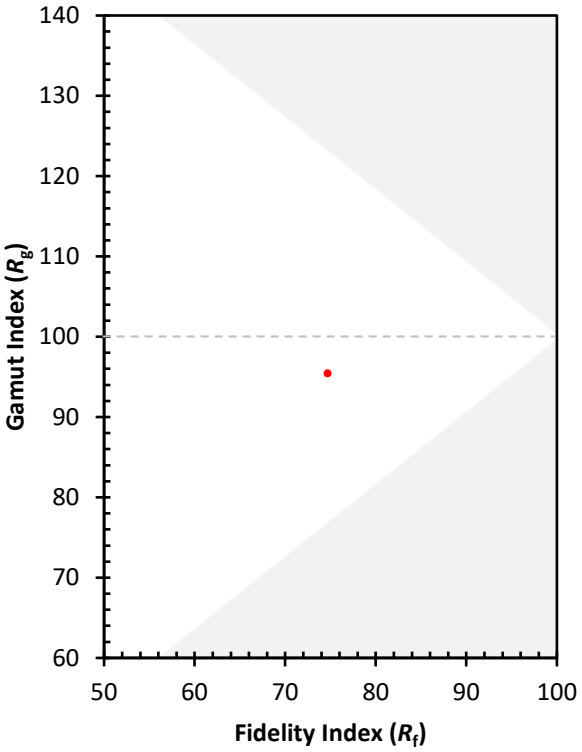
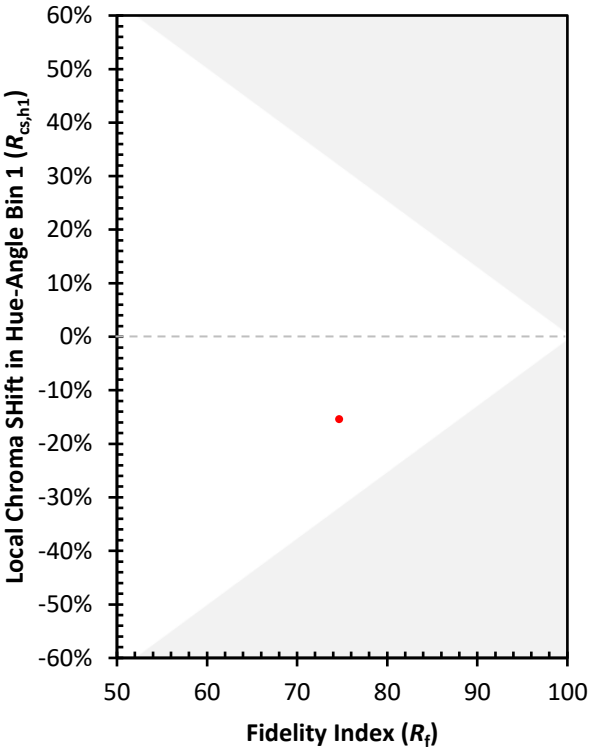
Measure Comparisons





(END OF REPORT)