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: P833961

Luminaire Tested: **TTN-D3-750-U-RW-UPL3**

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:	P833961
	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-D3-750-U-RW-UPL3
Description:	TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
	5000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7673.6 lumens
Efficiency:	N/A
Efficacy:	115.9 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification:	Type II - Short
BUG Rating:	B3 - U4 - G3

Input Watts (W):	66.2
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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REPORT NUMBER: P833961
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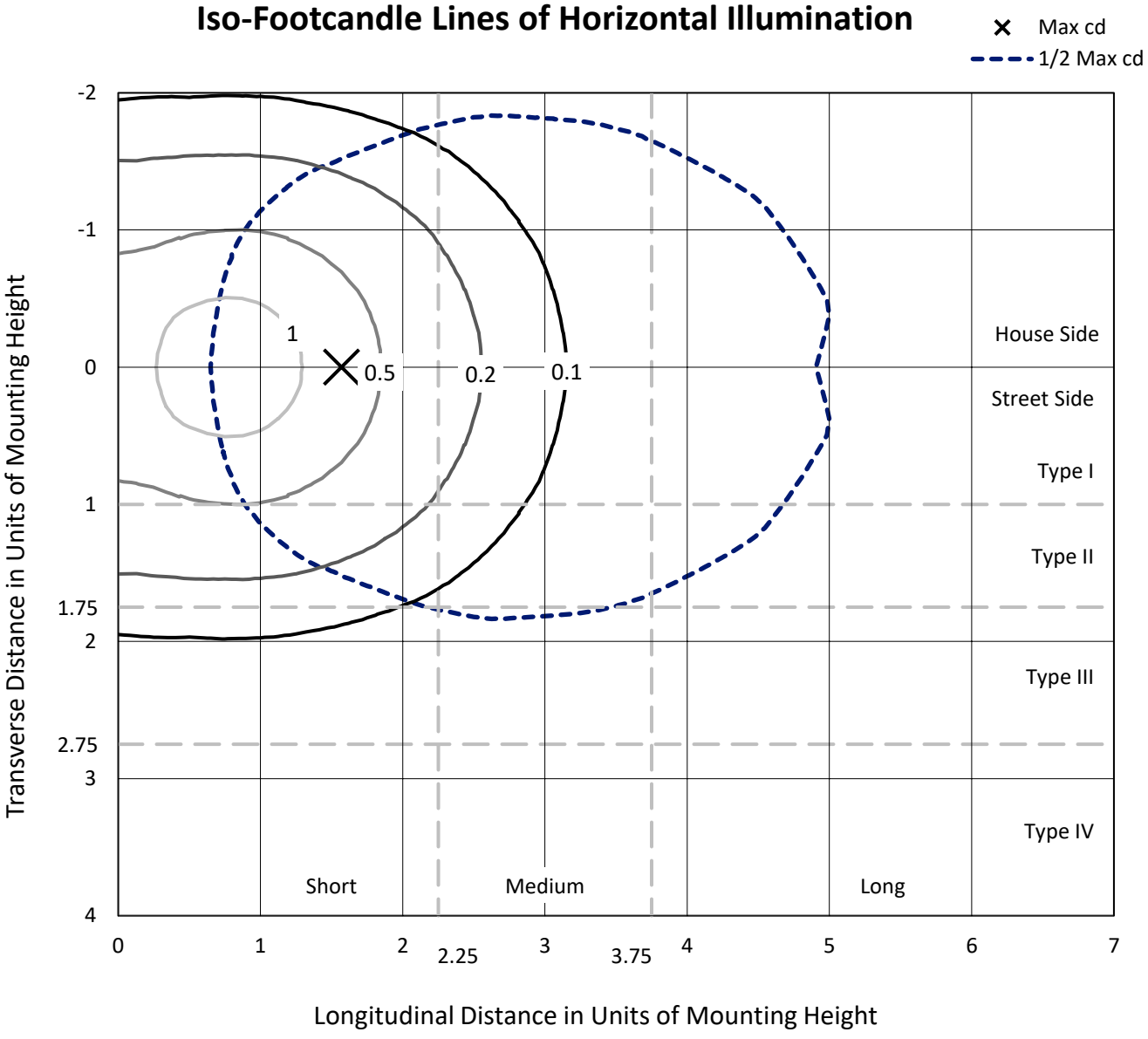
Iso-Footcandle Lines of Horizontal Illumination



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

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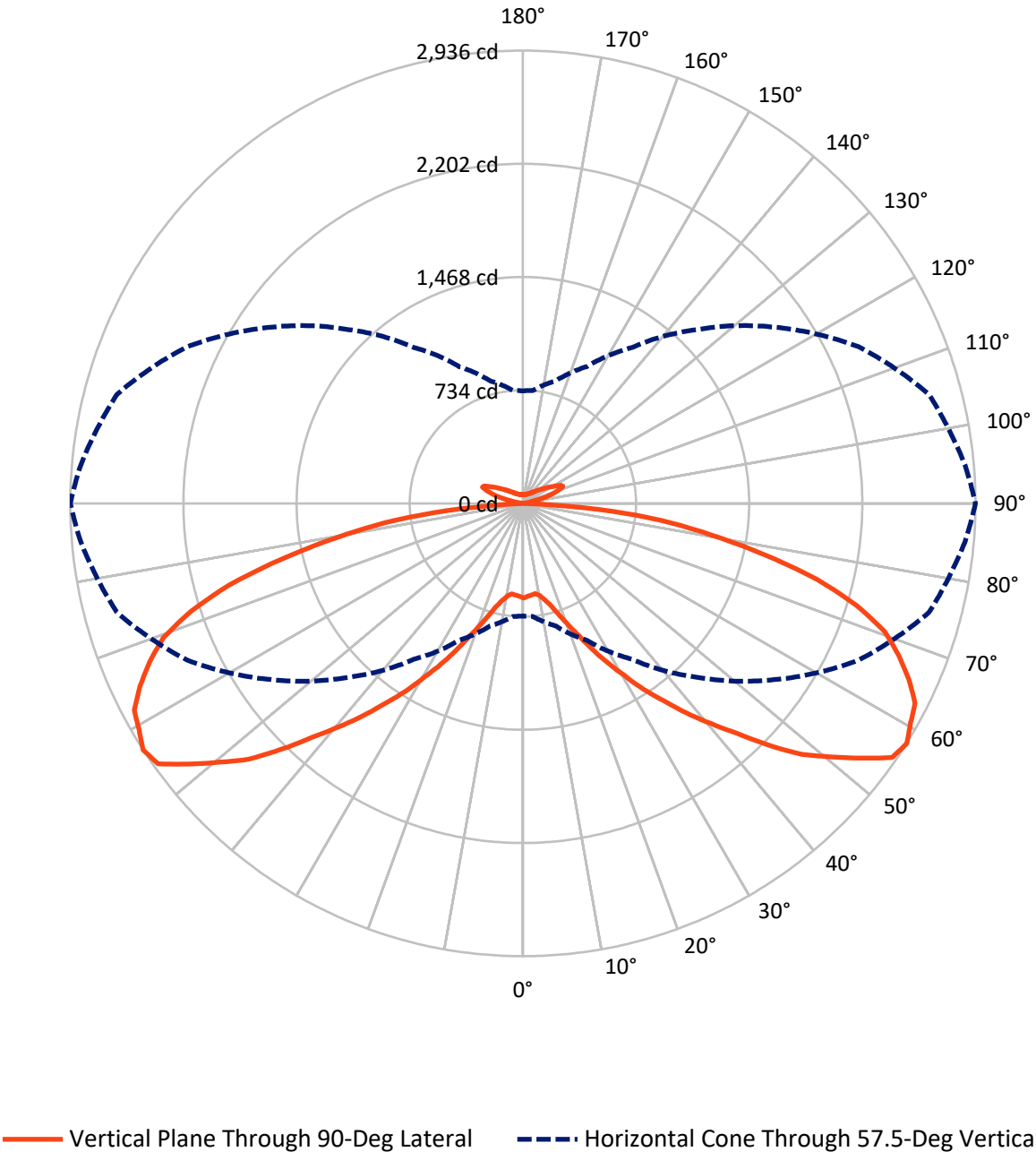
Luminous Intensity Polar Plot



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REPORT NUMBER: P833961
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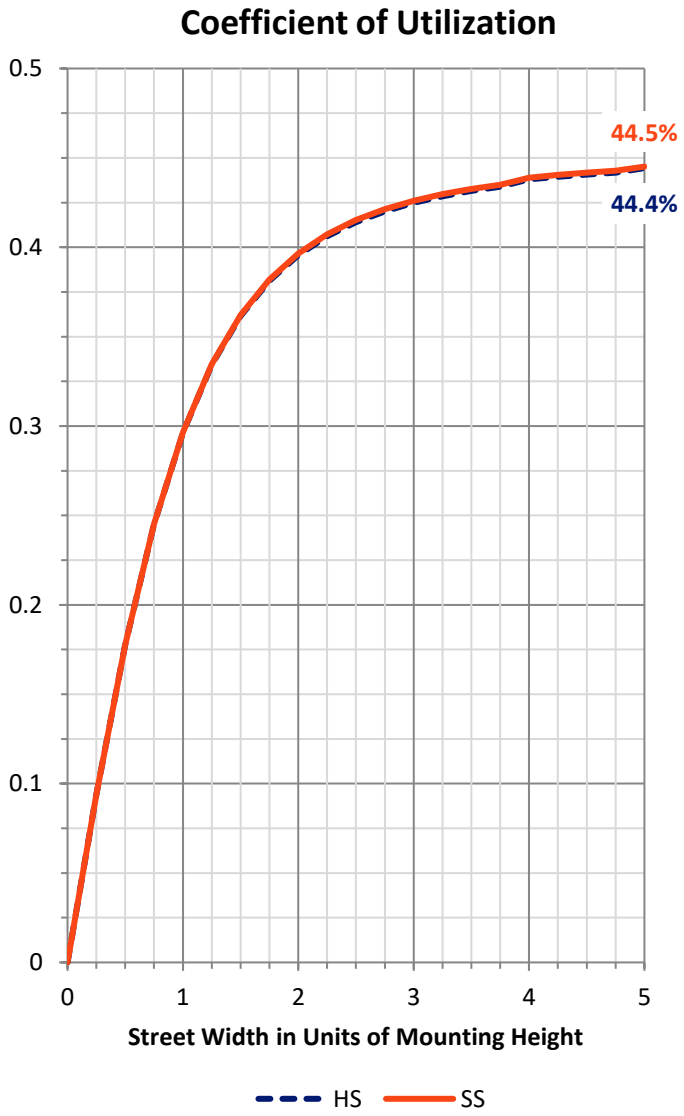
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3431.1	405.8	3836.8
	% Fixture	44.7	5.3	50.0
Street Side	Lumens	3431.1	405.8	3836.8
	% Fixture	44.7	5.3	50.0
Total	Lumens	6862.1	811.5	7673.6
	% Fixture	89.4	10.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	0.7
10°-20°	184.0	2.4
20°-30°	383.9	5.0
30°-40°	688.5	9.0
40°-50°	1100.1	14.3
50°-60°	1506.1	19.6
60°-70°	1553.5	20.2
70°-80°	1104.8	14.4
80°-90°	283.9	3.7
90°-100°	18.1	0.2
100°-110°	184.1	2.4
110°-120°	269.1	3.5
120°-130°	156.2	2.0
130°-140°	82.7	1.1
140°-150°	49.1	0.6
150°-160°	30.3	0.4
160°-170°	16.5	0.2
170°-180°	5.4	0.1
0°-90°	6862.1	89.4
0°-180°	7673.6	100.0



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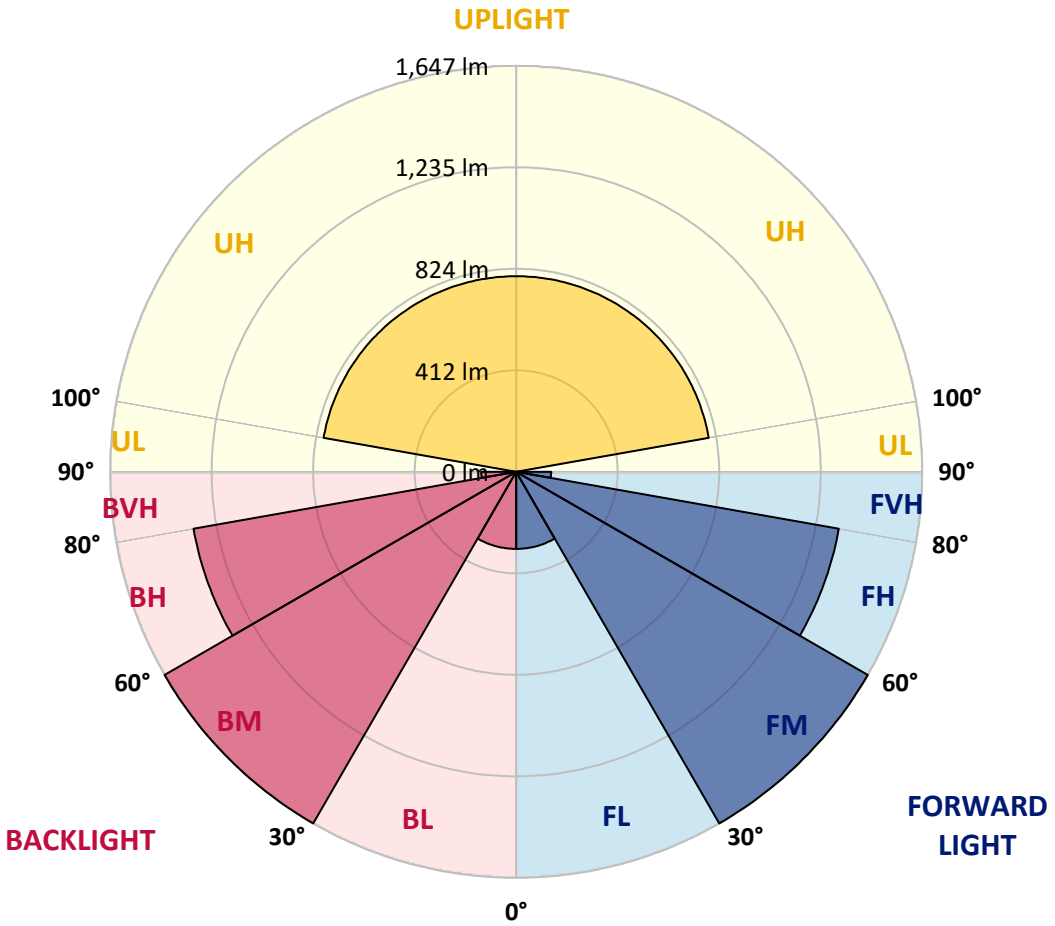
REPORT NUMBER: P833961
CATALOG NUMBER: TTN-D3-750-U-RW-UPL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	312.7	4.1			
FM	(30°-60°)	1647.3	21.5			
FH	(60°-80°)	1329.1	17.3			G1/1800
FVH	(80°-90°)	141.9	1.8			G2/225
BL	(0°-30°)	312.7	4.1	B1/500		
BM	(30°-60°)	1647.3	21.5	B2/2500		
BH	(60°-80°)	1329.1	17.3	B3/2500		G3/2500
BVH	(80°-90°)	141.9	1.8			G2/225
UL	(90°-100°)	18.1	0.2		U2/50	
UH	(100°-180°)	793.4	10.3		U4/1000	

BUG Rating: B3-U4-G3
Type II Short



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Scaled Data Report

REPORT NUMBER: P833961
CATALOG NUMBER: TTN-D3-750-U-RW-UPL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	613.7	613.7	613.7	613.7	613.7	613.7	613.7	613.7	613.7	613.7	*613.7*
2.5°	613.7	613.7	608.0	608.0	608.0	602.2	602.2	602.2	602.2	596.4	*602.2*
5°	613.7	613.7	613.7	613.7	608.0	602.2	602.2	602.2	596.4	596.4	*596.4*
7.5°	608.0	608.0	608.0	608.0	602.2	596.4	596.4	596.4	590.6	590.6	*590.6*
10°	602.2	608.0	602.2	602.2	596.4	596.4	602.2	602.2	608.0	608.0	*608.0*
12.5°	596.4	596.4	596.4	602.2	602.2	608.0	619.5	631.1	636.9	642.7	*642.7*
15°	596.4	596.4	602.2	608.0	619.5	631.1	648.5	665.9	677.4	689.0	*689.0*
17.5°	596.4	596.4	602.2	619.5	636.9	660.1	689.0	712.2	735.3	752.7	*758.5*
20°	596.4	596.4	608.0	631.1	665.9	700.6	741.1	775.9	810.6	839.6	*839.6*
22.5°	602.2	608.0	619.5	648.5	700.6	752.7	804.8	856.9	897.5	932.2	*932.2*
25°	613.7	613.7	631.1	677.4	741.1	810.6	885.9	949.6	1001.7	1048.0	*1048.0*
27.5°	619.5	625.3	648.5	706.4	787.4	874.3	978.5	1053.8	1123.3	1163.8	*1169.6*
30°	631.1	636.9	671.6	729.5	828.0	938.0	1059.6	1163.8	1239.1	1279.6	*1291.2*
32.5°	636.9	642.7	689.0	758.5	868.5	995.9	1134.8	1268.0	1372.2	1418.6	*1435.9*
35°	654.3	660.1	706.4	787.4	914.8	1059.6	1221.7	1378.0	1499.6	1557.5	*1569.1*
37.5°	671.6	677.4	723.8	816.4	961.1	1129.1	1314.3	1493.8	1632.8	1702.3	*1725.4*
40°	683.2	689.0	741.1	851.1	1013.3	1204.3	1418.6	1615.4	1771.7	1858.6	*1876.0*
42.5°	700.6	706.4	764.3	880.1	1059.6	1279.6	1528.6	1748.6	1916.5	2014.9	*2038.1*
45°	718.0	723.8	787.4	914.8	1111.7	1360.7	1638.6	1904.9	2096.0	2211.8	*2235.0*
47.5°	735.3	741.1	810.6	949.6	1163.8	1441.7	1754.4	2043.9	2275.5	2385.5	*2431.8*
50°	741.1	752.7	822.2	972.7	1198.5	1511.2	1852.8	2182.8	2426.0	2570.8	*2582.4*
52.5°	746.9	758.5	833.8	990.1	1227.5	1563.3	1933.9	2298.6	2582.4	2756.1	*2744.5*
55°	752.7	752.7	833.8	990.1	1239.1	1598.0	1991.8	2373.9	2686.6	2825.5	*2906.6*
57.5°	*729.5*	*735.3*	*822.2*	*978.5*	*1233.3*	*1592.3*	*1991.8*	*2402.9*	*2727.1*	*2877.6*	*2935.5*
60°	700.6	712.2	793.2	949.6	1210.1	1574.9	1980.2	2391.3	2744.5	2906.6	*2889.2*
62.5°	660.1	683.2	752.7	909.0	1175.4	1534.4	1962.8	2362.3	2703.9	2871.9	*2854.5*
65°	613.7	636.9	700.6	868.5	1100.1	1435.9	1870.2	2304.4	2593.9	2785.0	*2750.3*
67.5°	567.4	584.8	648.5	799.0	1013.3	1331.7	1748.6	2177.1	2437.6	2646.0	*2628.7*
70°	515.3	521.1	584.8	718.0	926.4	1227.5	1632.8	1997.6	2298.6	2455.0	*2489.7*
72.5°	451.6	451.6	515.3	631.1	822.2	1088.5	1476.5	1794.9	2078.6	2211.8	*2263.9*
75°	370.6	376.4	428.5	532.7	689.0	932.2	1256.4	1580.7	1818.1	1957.0	*1974.4*
77.5°	289.5	295.3	335.8	422.7	555.8	752.7	1036.4	1291.2	1517.0	1638.6	*1603.8*
80°	208.4	214.2	243.2	306.9	411.1	561.6	799.0	1024.8	1187.0	1285.4	*1239.1*
82.5°	127.4	133.2	150.5	191.1	260.6	364.8	544.3	712.2	839.6	920.6	*903.2*
85°	63.7	63.7	75.3	86.9	110.0	162.1	260.6	359.0	457.4	515.3	*497.9*
87.5°	11.6	17.4	17.4	17.4	17.4	11.6	17.4	17.4	17.4	29.0	*11.6*
90°	6.9	6.9	8.3	8.3	8.3	8.3	8.3	8.3	8.3	6.9	*6.9*
92.5°	6.9	6.9	6.9	9.7	11.1	9.7	11.1	8.3	8.3	6.9	*6.9*
95°	8.3	8.3	9.7	12.5	15.3	16.7	16.7	9.7	9.7	8.3	*8.3*
97.5°	11.1	12.5	12.5	15.3	25.0	45.8	27.8	13.9	13.9	12.5	*11.1*
100°	18.0	19.4	19.4	34.7	73.6	98.6	70.8	36.1	26.4	19.4	*19.4*
102.5°	58.3	61.1	75.0	112.5	166.6	151.3	127.7	120.8	83.3	66.6	*63.9*
105°	148.6	147.2	158.3	187.4	233.3	229.1	211.0	191.6	165.2	152.7	*152.7*
107.5°	195.8	195.8	205.5	230.5	265.2	309.6	313.8	248.5	218.0	204.1	*202.7*
110°	220.8	220.8	229.1	249.9	295.7	358.2	355.4	306.8	269.4	251.3	*248.5*

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Scaled Data Report

REPORT NUMBER: P833961
CATALOG NUMBER: TTN-D3-750-U-RW-UPL3

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	226.3	227.7	238.8	270.7	320.7	348.5	336.0	316.6	299.9	286.0	*283.2*
115°	234.6	234.6	247.1	277.7	305.5	316.6	302.7	287.4	276.3	270.7	*273.5*
117.5°	231.9	236.0	238.8	255.5	273.5	281.8	274.9	254.1	245.8	243.0	*238.8*
120°	215.2	215.2	218.0	226.3	236.0	240.2	237.4	223.5	216.6	215.2	*212.4*
122.5°	191.6	193.0	191.6	195.8	202.7	206.9	204.1	193.0	190.2	190.2	*187.4*
125°	168.0	168.0	166.6	169.4	173.6	172.2	173.6	168.0	166.6	166.6	*165.2*
127.5°	151.3	149.9	147.2	148.6	149.9	149.9	151.3	145.8	147.2	148.6	*147.2*
130°	134.7	134.7	131.9	131.9	131.9	129.1	131.9	129.1	130.5	131.9	*133.3*
132.5°	119.4	119.4	115.2	113.9	113.9	113.9	115.2	113.9	116.6	119.4	*119.4*
135°	106.9	106.9	102.7	104.1	104.1	102.7	104.1	102.7	105.5	106.9	*106.9*
137.5°	97.2	97.2	94.4	94.4	94.4	93.0	94.4	94.4	95.8	98.6	*100.0*
140°	88.9	88.9	87.5	87.5	86.1	87.5	87.5	87.5	88.9	90.2	*90.2*
142.5°	84.7	83.3	81.9	80.5	81.9	81.9	81.9	80.5	81.9	84.7	*84.7*
145°	77.8	77.8	76.4	76.4	76.4	77.8	76.4	76.4	77.8	77.8	*79.1*
147.5°	73.6	73.6	72.2	73.6	73.6	73.6	73.6	72.2	73.6	73.6	*75.0*
150°	72.2	70.8	69.4	70.8	70.8	69.4	69.4	69.4	69.4	70.8	*70.8*
152.5°	68.0	68.0	66.6	68.0	66.6	66.6	66.6	66.6	66.6	68.0	*69.4*
155°	65.3	65.3	63.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	*65.3*
157.5°	62.5	63.9	62.5	62.5	62.5	62.5	62.5	62.5	62.5	63.9	*63.9*
160°	61.1	61.1	61.1	61.1	59.7	59.7	59.7	61.1	61.1	61.1	*62.5*
162.5°	59.7	59.7	59.7	59.7	58.3	58.3	58.3	58.3	59.7	59.7	*61.1*
165°	59.7	58.3	58.3	58.3	56.9	56.9	56.9	56.9	58.3	59.7	*58.3*
167.5°	56.9	56.9	56.9	56.9	56.9	55.5	55.5	56.9	56.9	56.9	*58.3*
170°	56.9	56.9	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	*56.9*
172.5°	56.9	56.9	56.9	56.9	55.5	55.5	55.5	55.5	55.5	56.9	*56.9*
175°	56.9	56.9	56.9	56.9	55.5	55.5	55.5	56.9	56.9	56.9	*55.5*
177.5°	56.9	56.9	56.9	56.9	55.5	56.9	56.9	56.9	56.9	56.9	*56.9*
180°	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	*56.9*

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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: SP1-2411-284-3

Test Date: 11/21/2024

Luminaire Tested: TTN-D0-750-U-WQ

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

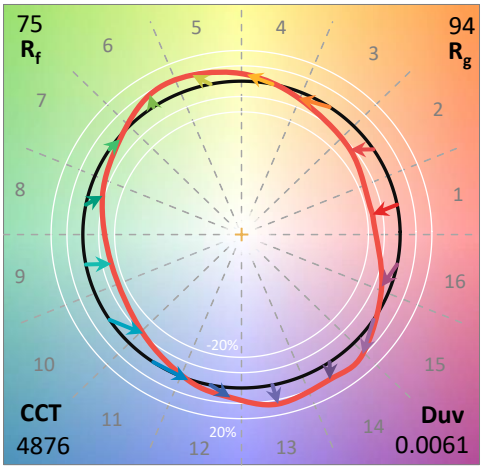
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2411-284-3
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	11/21/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**TTN-D0-750-U-WQ**
Description:	TOPTIER NANO LED PARKING GARAGE LUMINAIRE. 5000K, 70 CRI LEDS AND WIDE DISTRIBUTION

Spectral Parameters

CCT (K):	4876
CIE u':	0.2086
CIE v':	0.4932
Duv:	0.0061
CIE x:	0.3502
CIE y:	0.3680
CIE z:	0.2818
Peak Wavelength (nm):	451
Dominant Wavelength (nm):	569
Purity:	15.51324
Rf:	74.6
Rg:	94.4

CRI (Ra):	72.6
R1:	69.5
R2:	77.0
R3:	82.2
R4:	72.6
R5:	69.3
R6:	67.6
R7:	83.7
R8:	58.6
R9:	-24.6
R10:	44.8
R11:	68.2
R12:	36.1
R13:	70.5
R14:	89.9
R15:	63.1



Test Conditions

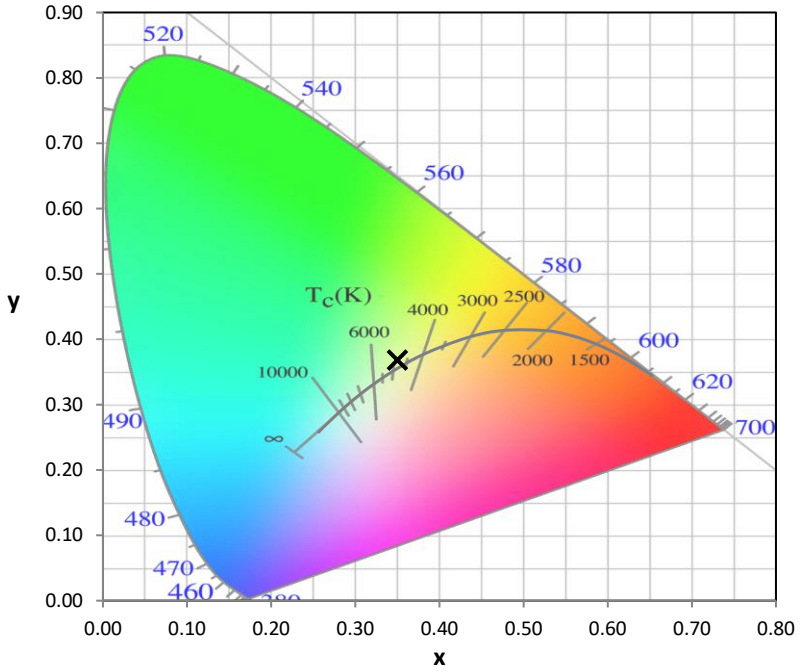
Stabilization Time:	51M
Operation Time:	1H 51M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2411-284-3

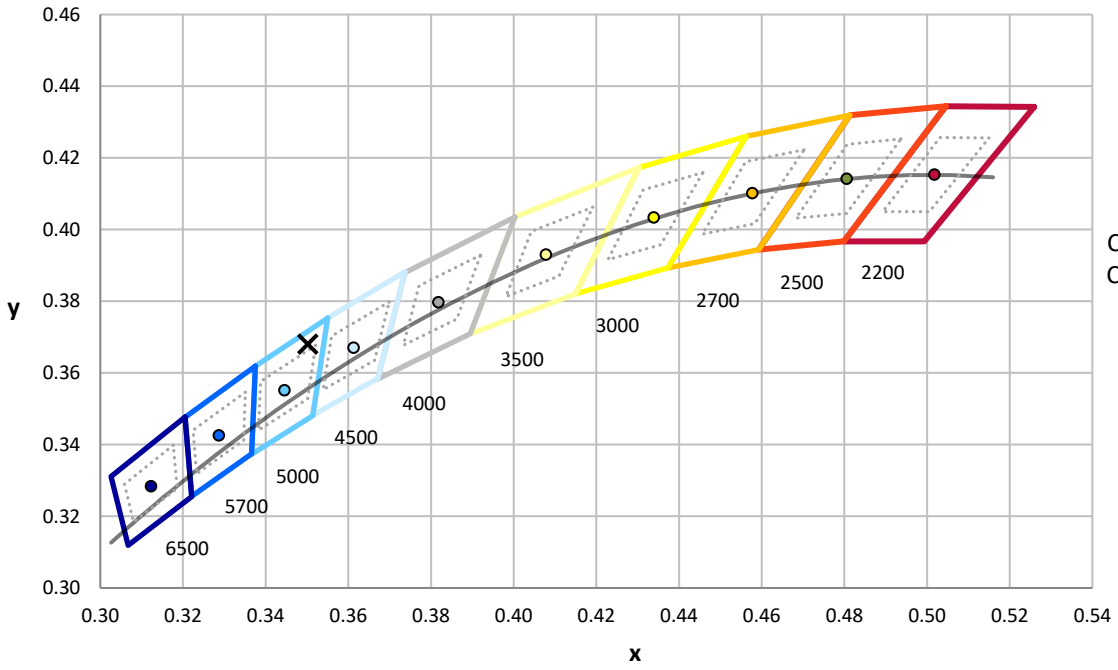
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2411-284-3

CIE 1931 Chromaticity Diagram



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

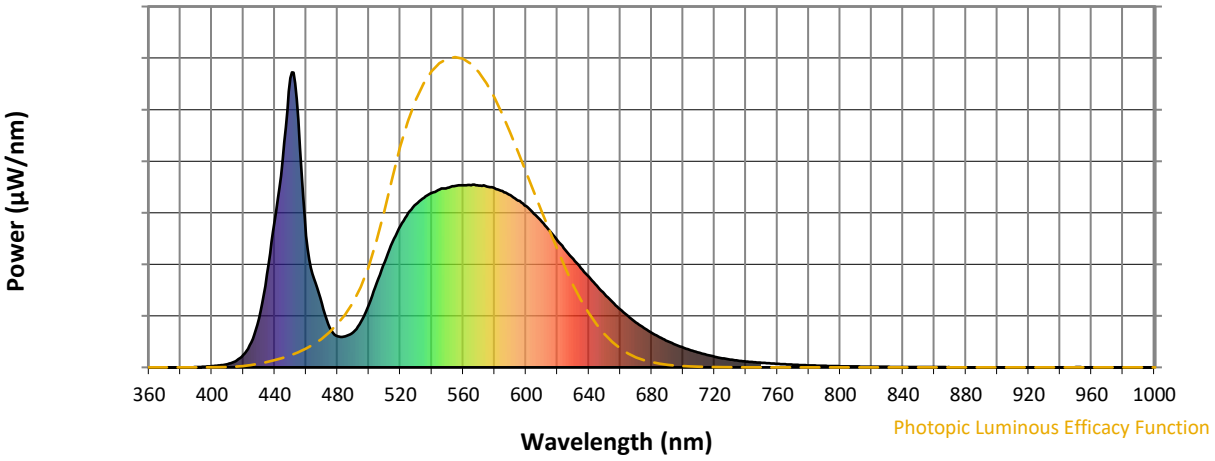


CCT = 4876K
CIE x = 0.3502
CIE y = 0.3680
Duv = 0.0061

Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2411-284-3

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	430	NR	750	16	NR	880	0	NR
365	0	NR	495	156	NR	625	398	NR	755	14	NR	885	0	NR
370	0	NR	500	214	NR	630	368	NR	760	12	NR	890	0	NR
375	0	NR	505	286	NR	635	336	NR	765	11	NR	895	0	NR
380	0	NR	510	357	NR	640	306	NR	770	9	NR	900	0	NR
385	0	NR	515	425	NR	645	276	NR	775	8	NR	905	0	NR
390	1	NR	520	480	NR	650	248	NR	780	7	NR	910	0	NR
395	2	NR	525	523	NR	655	221	NR	785	6	NR	915	0	NR
400	4	NR	530	554	NR	660	196	NR	790	5	NR	920	0	NR
405	7	NR	535	575	NR	665	173	NR	795	4	NR	925	0	NR
410	11	NR	540	592	NR	670	152	NR	800	4	NR	930	0	NR
415	21	NR	545	603	NR	675	133	NR	805	3	NR	935	0	NR
420	42	NR	550	609	NR	680	117	NR	810	3	NR	940	0	NR
425	85	NR	555	615	NR	685	102	NR	815	3	NR	945	0	NR
430	165	NR	560	617	NR	690	89	NR	820	2	NR	950	1	NR
435	316	NR	565	617	NR	695	77	NR	825	2	NR	955	0	NR
440	497	NR	570	616	NR	700	67	NR	830	2	NR	960	0	NR
445	702	NR	575	613	NR	705	58	NR	835	2	NR	965	0	NR
450	981	NR	580	607	NR	710	50	NR	840	1	NR	970	0	NR
455	840	NR	585	598	NR	715	43	NR	845	1	NR	975	0	NR
460	446	NR	590	583	NR	720	36	NR	850	1	NR	980	0	NR
465	300	NR	595	566	NR	725	31	NR	855	1	NR	985	0	NR
470	215	NR	600	546	NR	730	26	NR	860	1	NR	990	0	NR
475	135	NR	605	521	NR	735	23	NR	865	1	NR	995	0	NR
480	105	NR	610	494	NR	740	20	NR	870	1	NR	1000	0	NR
485	106	NR	615	463	NR	745	18	NR	875	0	NR			

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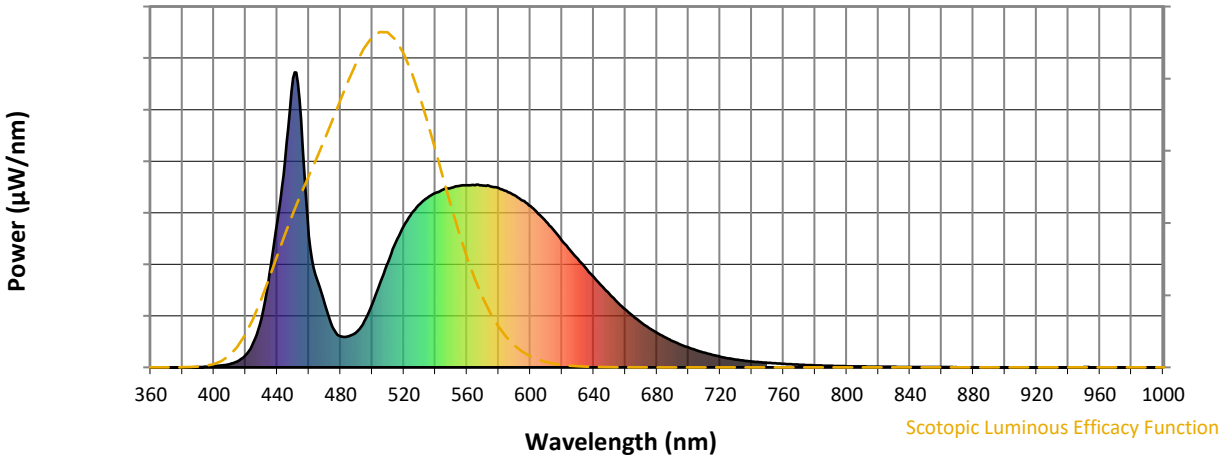
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.74**

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	430	NR	750	16	NR	880	0	NR
365	0	NR	495	156	NR	625	398	NR	755	14	NR	885	0	NR
370	0	NR	500	214	NR	630	368	NR	760	12	NR	890	0	NR
375	0	NR	505	286	NR	635	336	NR	765	11	NR	895	0	NR
380	0	NR	510	357	NR	640	306	NR	770	9	NR	900	0	NR
385	0	NR	515	425	NR	645	276	NR	775	8	NR	905	0	NR
390	1	NR	520	480	NR	650	248	NR	780	7	NR	910	0	NR
395	2	NR	525	523	NR	655	221	NR	785	6	NR	915	0	NR
400	4	NR	530	554	NR	660	196	NR	790	5	NR	920	0	NR
405	7	NR	535	575	NR	665	173	NR	795	4	NR	925	0	NR
410	11	NR	540	592	NR	670	152	NR	800	4	NR	930	0	NR
415	21	NR	545	603	NR	675	133	NR	805	3	NR	935	0	NR
420	42	NR	550	609	NR	680	117	NR	810	3	NR	940	0	NR
425	85	NR	555	615	NR	685	102	NR	815	3	NR	945	0	NR
430	165	NR	560	617	NR	690	89	NR	820	2	NR	950	1	NR
435	316	NR	565	617	NR	695	77	NR	825	2	NR	955	0	NR
440	497	NR	570	616	NR	700	67	NR	830	2	NR	960	0	NR
445	702	NR	575	613	NR	705	58	NR	835	2	NR	965	0	NR
450	981	NR	580	607	NR	710	50	NR	840	1	NR	970	0	NR
455	840	NR	585	598	NR	715	43	NR	845	1	NR	975	0	NR
460	446	NR	590	583	NR	720	36	NR	850	1	NR	980	0	NR
465	300	NR	595	566	NR	725	31	NR	855	1	NR	985	0	NR
470	215	NR	600	546	NR	730	26	NR	860	1	NR	990	0	NR
475	135	NR	605	521	NR	735	23	NR	865	1	NR	995	0	NR
480	105	NR	610	494	NR	740	20	NR	870	1	NR	1000	0	NR
485	106	NR	615	463	NR	745	18	NR	875	0	NR			

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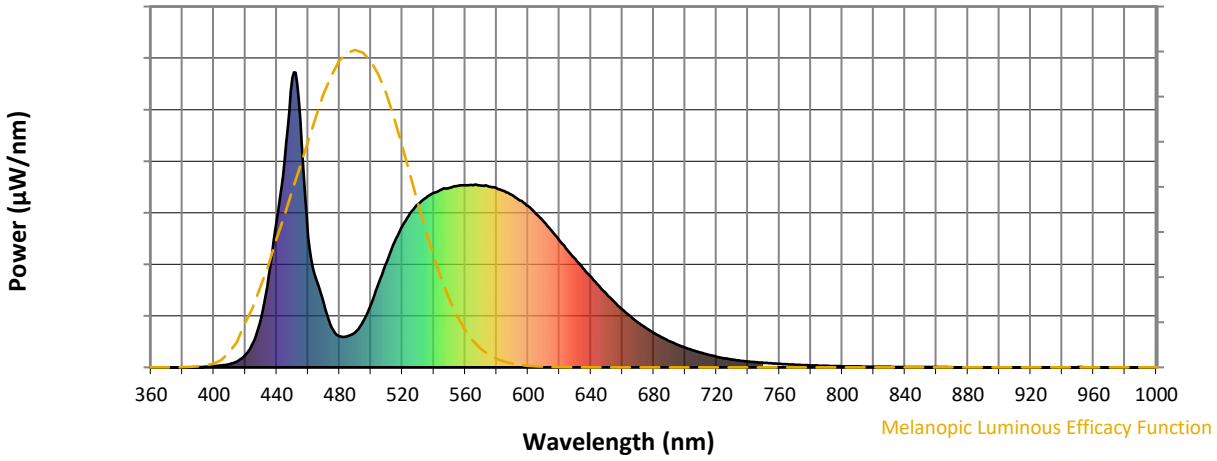
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.51**

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	430	NR	750	16	NR	880	0	NR
365	0	NR	495	156	NR	625	398	NR	755	14	NR	885	0	NR
370	0	NR	500	214	NR	630	368	NR	760	12	NR	890	0	NR
375	0	NR	505	286	NR	635	336	NR	765	11	NR	895	0	NR
380	0	NR	510	357	NR	640	306	NR	770	9	NR	900	0	NR
385	0	NR	515	425	NR	645	276	NR	775	8	NR	905	0	NR
390	1	NR	520	480	NR	650	248	NR	780	7	NR	910	0	NR
395	2	NR	525	523	NR	655	221	NR	785	6	NR	915	0	NR
400	4	NR	530	554	NR	660	196	NR	790	5	NR	920	0	NR
405	7	NR	535	575	NR	665	173	NR	795	4	NR	925	0	NR
410	11	NR	540	592	NR	670	152	NR	800	4	NR	930	0	NR
415	21	NR	545	603	NR	675	133	NR	805	3	NR	935	0	NR
420	42	NR	550	609	NR	680	117	NR	810	3	NR	940	0	NR
425	85	NR	555	615	NR	685	102	NR	815	3	NR	945	0	NR
430	165	NR	560	617	NR	690	89	NR	820	2	NR	950	1	NR
435	316	NR	565	617	NR	695	77	NR	825	2	NR	955	0	NR
440	497	NR	570	616	NR	700	67	NR	830	2	NR	960	0	NR
445	702	NR	575	613	NR	705	58	NR	835	2	NR	965	0	NR
450	981	NR	580	607	NR	710	50	NR	840	1	NR	970	0	NR
455	840	NR	585	598	NR	715	43	NR	845	1	NR	975	0	NR
460	446	NR	590	583	NR	720	36	NR	850	1	NR	980	0	NR
465	300	NR	595	566	NR	725	31	NR	855	1	NR	985	0	NR
470	215	NR	600	546	NR	730	26	NR	860	1	NR	990	0	NR
475	135	NR	605	521	NR	735	23	NR	865	1	NR	995	0	NR
480	105	NR	610	494	NR	740	20	NR	870	1	NR	1000	0	NR
485	106	NR	615	463	NR	745	18	NR	875	0	NR			

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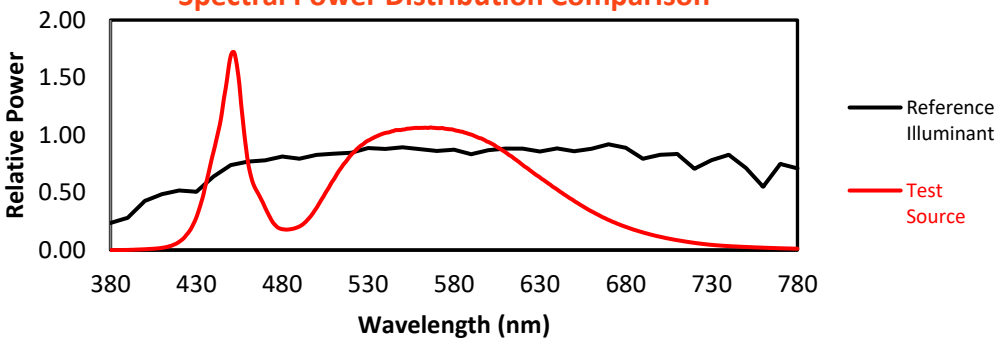
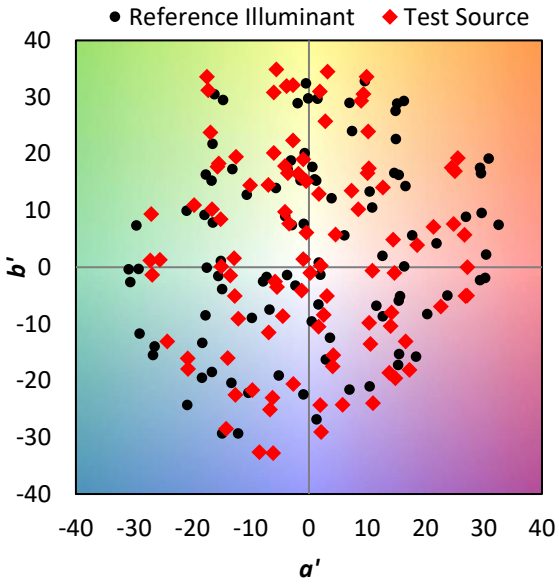
Summary

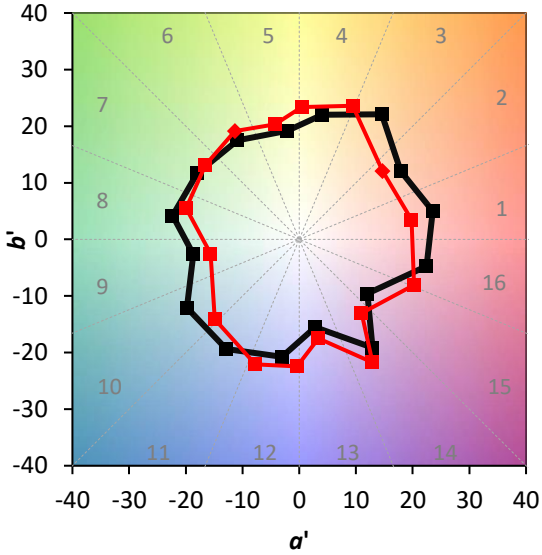
R_f = 74.6
R_g = 94.4
CIE R_a = 72.6
R_9 = -24.6

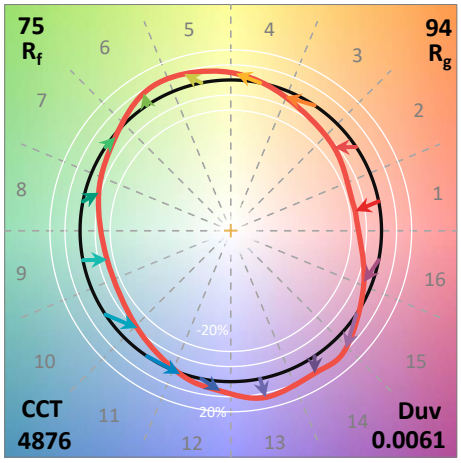
Spectral Power Distribution Comparison

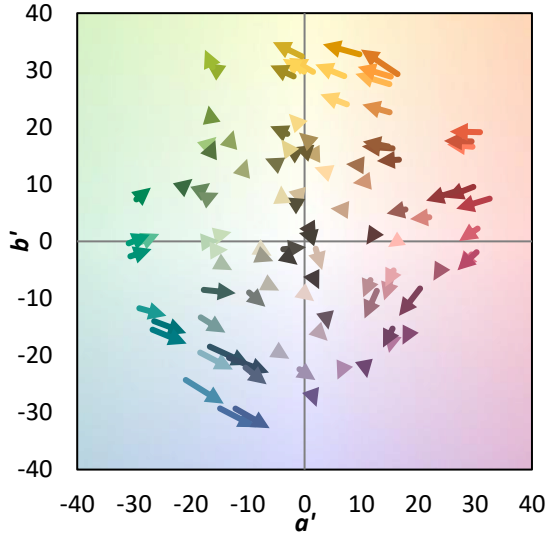


Color Vector Graphics









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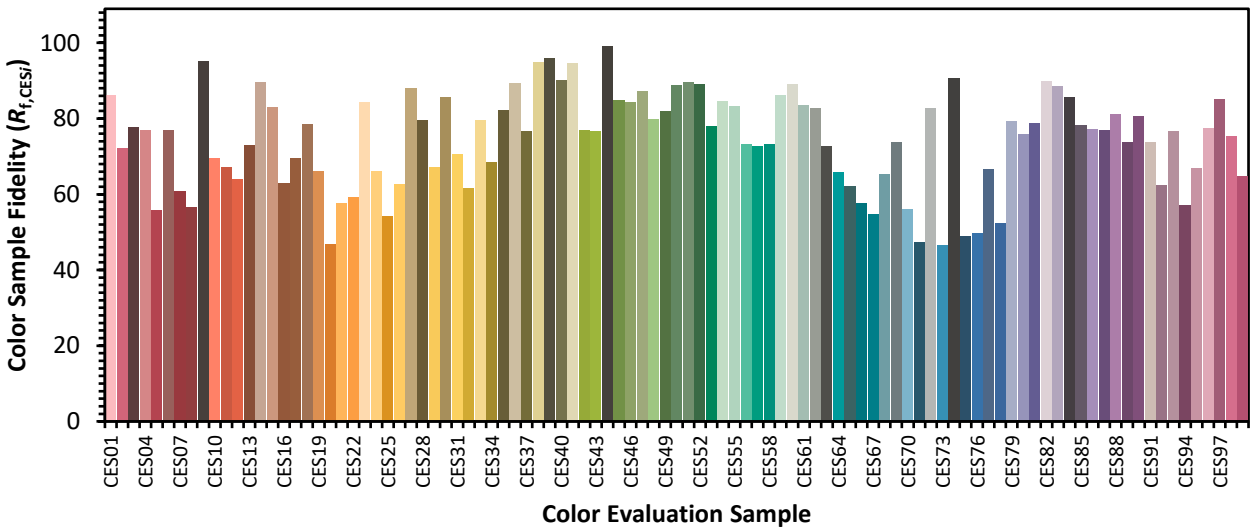
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 63	CES51 = 90	CES76 = 50
CES02 = 59	CES27 = 88	CES52 = 89	CES77 = 67
CES03 = 30	CES28 = 80	CES53 = 78	CES78 = 52
CES04 = 69	CES29 = 67	CES54 = 85	CES79 = 79
CES05 = 46	CES30 = 86	CES55 = 83	CES80 = 76
CES06 = 50	CES31 = 70	CES56 = 73	CES81 = 79
CES07 = 39	CES32 = 62	CES57 = 73	CES82 = 90
CES08 = 38	CES33 = 80	CES58 = 73	CES83 = 89
CES09 = 29	CES34 = 69	CES59 = 86	CES84 = 86
CES10 = 72	CES35 = 82	CES60 = 89	CES85 = 78
CES11 = 55	CES36 = 89	CES61 = 83	CES86 = 77
CES12 = 61	CES37 = 77	CES62 = 83	CES87 = 77
CES13 = 41	CES38 = 95	CES63 = 73	CES88 = 81
CES14 = 74	CES39 = 96	CES64 = 66	CES89 = 74
CES15 = 70	CES40 = 90	CES65 = 62	CES90 = 81
CES16 = 46	CES41 = 95	CES66 = 58	CES91 = 74
CES17 = 49	CES42 = 77	CES67 = 55	CES92 = 62
CES18 = 55	CES43 = 77	CES68 = 65	CES93 = 77
CES19 = 71	CES44 = 99	CES69 = 74	CES94 = 57
CES20 = 64	CES45 = 85	CES70 = 56	CES95 = 67
CES21 = 85	CES46 = 84	CES71 = 47	CES96 = 77
CES22 = 77	CES47 = 87	CES72 = 83	CES97 = 85
CES23 = 91	CES48 = 80	CES73 = 46	CES98 = 75
CES24 = 90	CES49 = 82	CES74 = 91	CES99 = 65
CES25 = 71	CES50 = 89	CES75 = 49	



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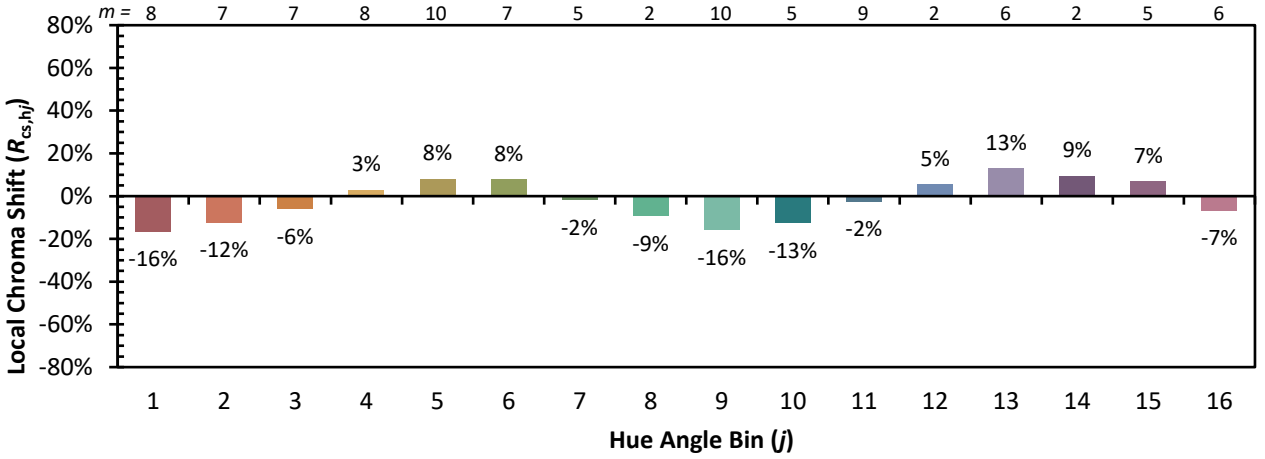
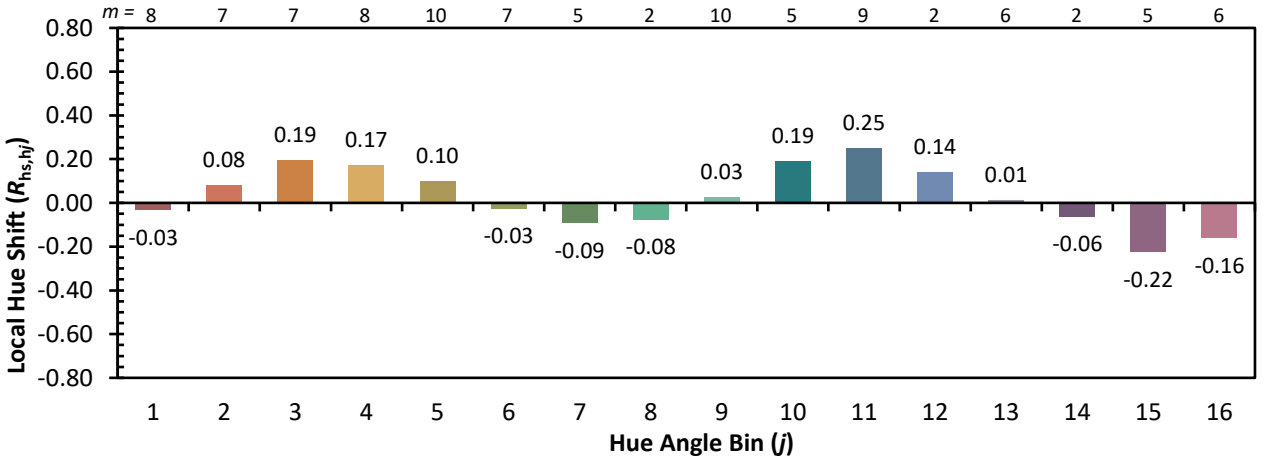
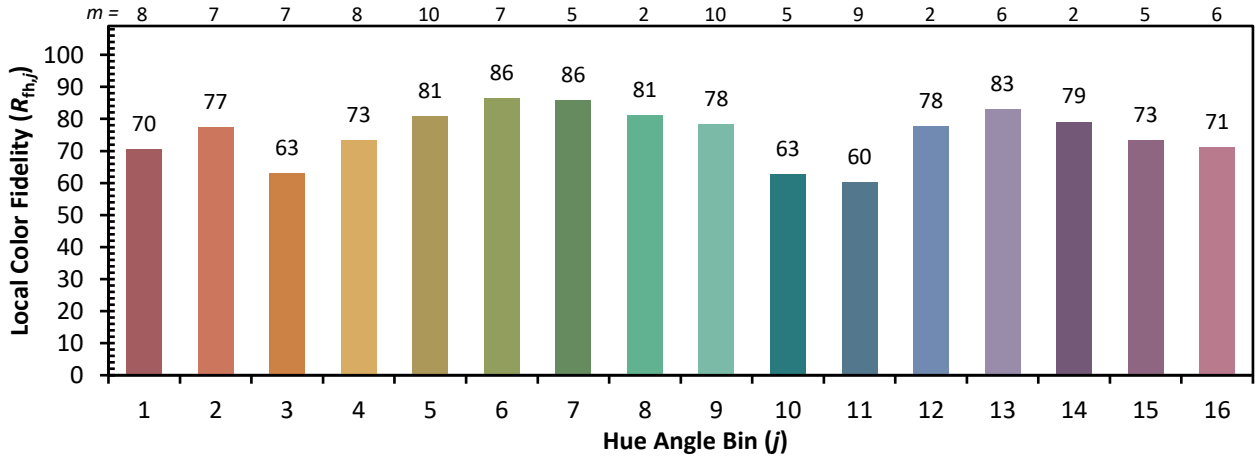
Color Rendition by Hue-Angle Bin







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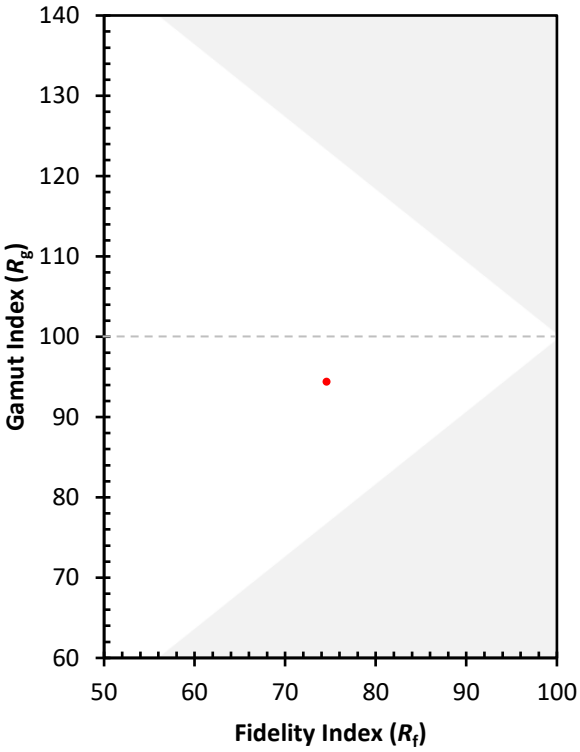
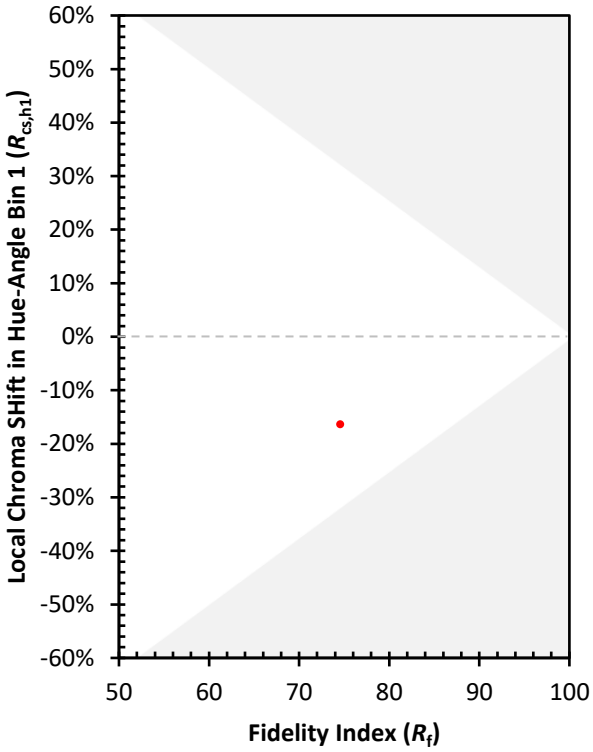
Measure Comparisons





(END OF REPORT)