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: P832506

Luminaire Tested: **TTN-D0-740-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:	P832506
	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-D0-740-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:	1141.9 lumens
Efficiency:	N/A
Efficacy:	106.7 lumens/watt
Luminous Opening:	Circular (Dia: 0.71' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B0 - U0 - G1

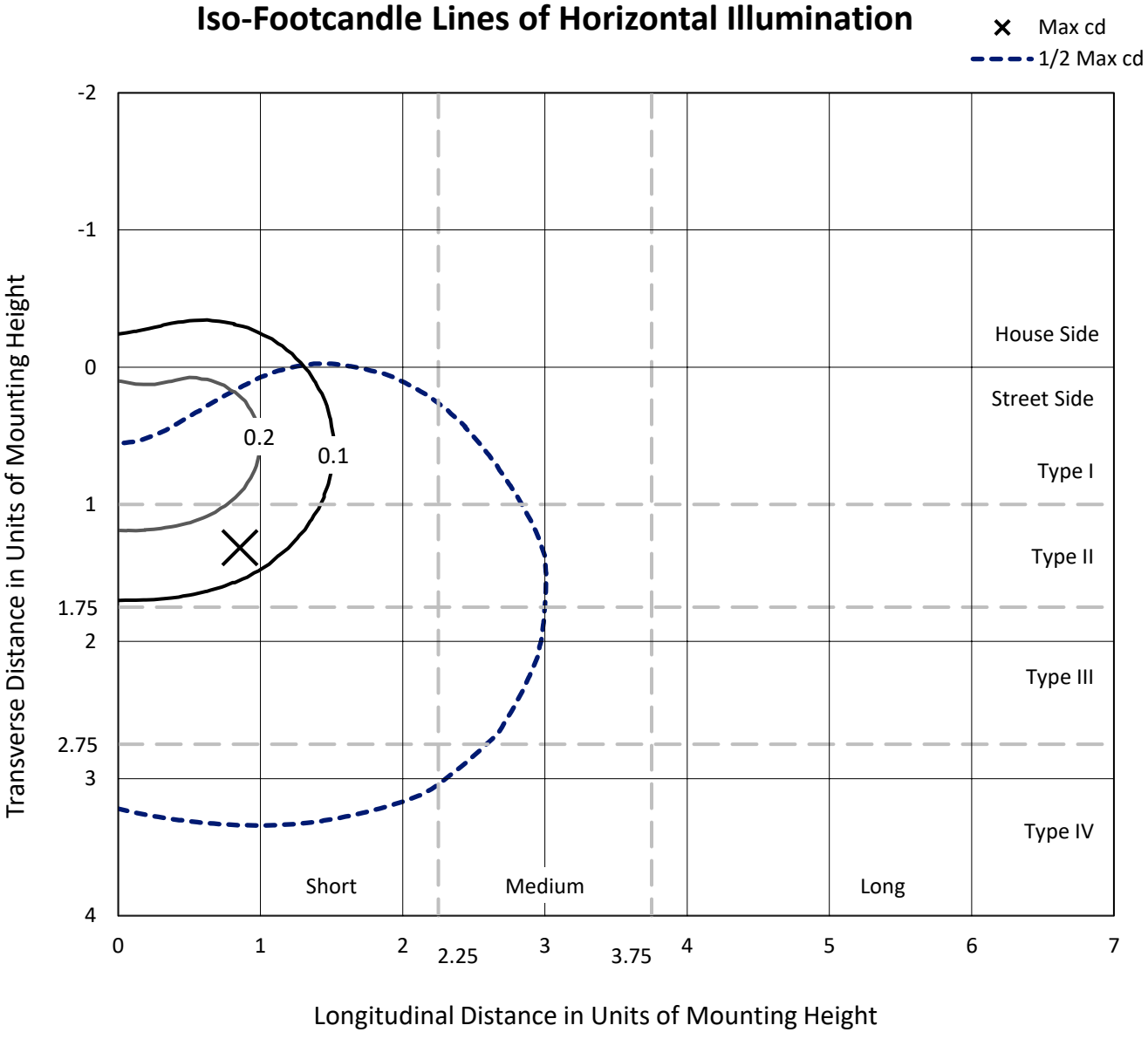
Input Watts (W):	10.7
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P832506
CATALOG NUMBER: TTN-D0-740-U-DL-CG

Iso-Footcandle Lines of Horizontal Illumination



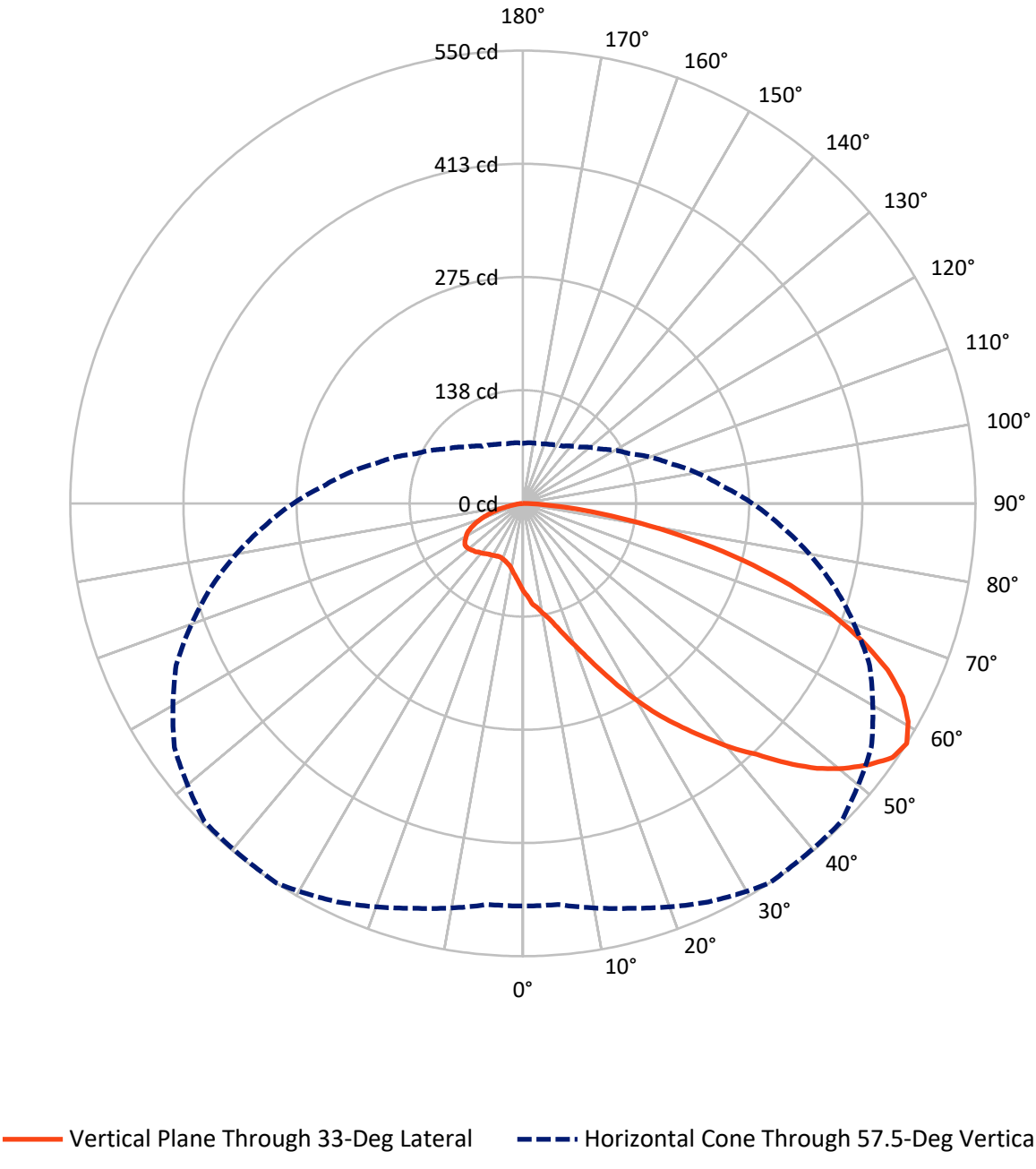
Based on 25 foot mounting height. Maximum calculated value = 0.3 fc
Type IV - Short - N/A

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P832506
CATALOG NUMBER: TTN-D0-740-U-DL-CG

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

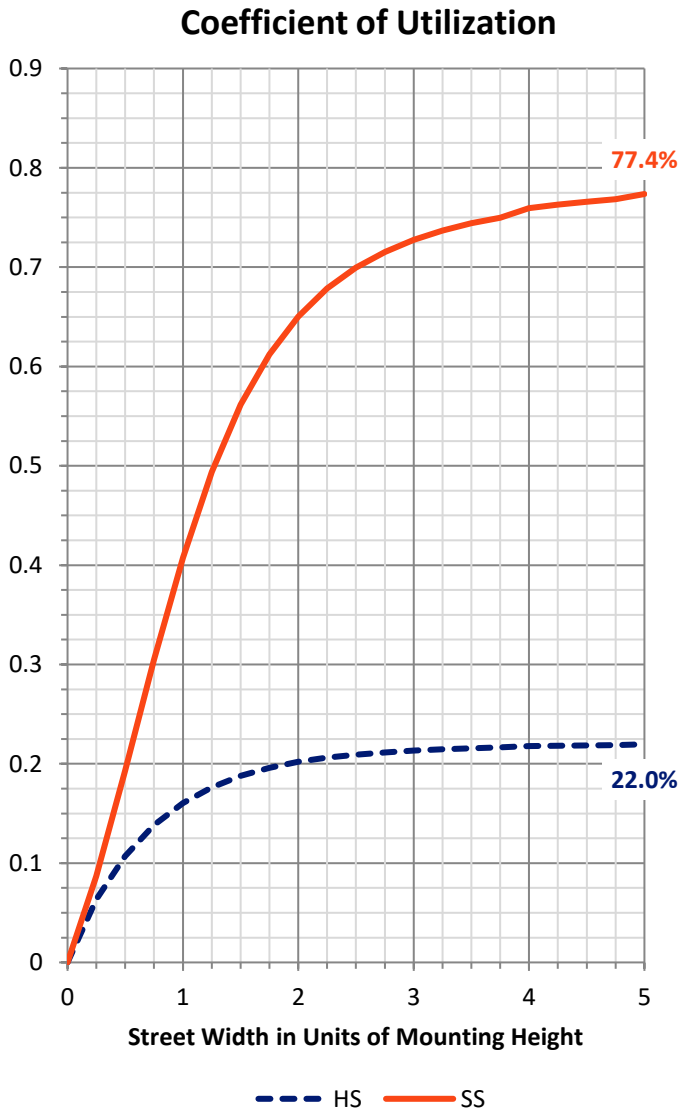
REPORT NUMBER: P832506
CATALOG NUMBER: TTN-D0-740-U-DL-CG

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	251.9	0.0	251.9
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	890.0	0.0	890.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	1141.9	0.0	1141.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.2	0.9
10°-20°	33.2	2.9
20°-30°	70.0	6.1
30°-40°	127.2	11.1
40°-50°	200.9	17.6
50°-60°	266.9	23.4
60°-70°	256.9	22.5
70°-80°	150.8	13.2
80°-90°	25.9	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°	1141.9	100.0
0°-180°	1141.9	100.0



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

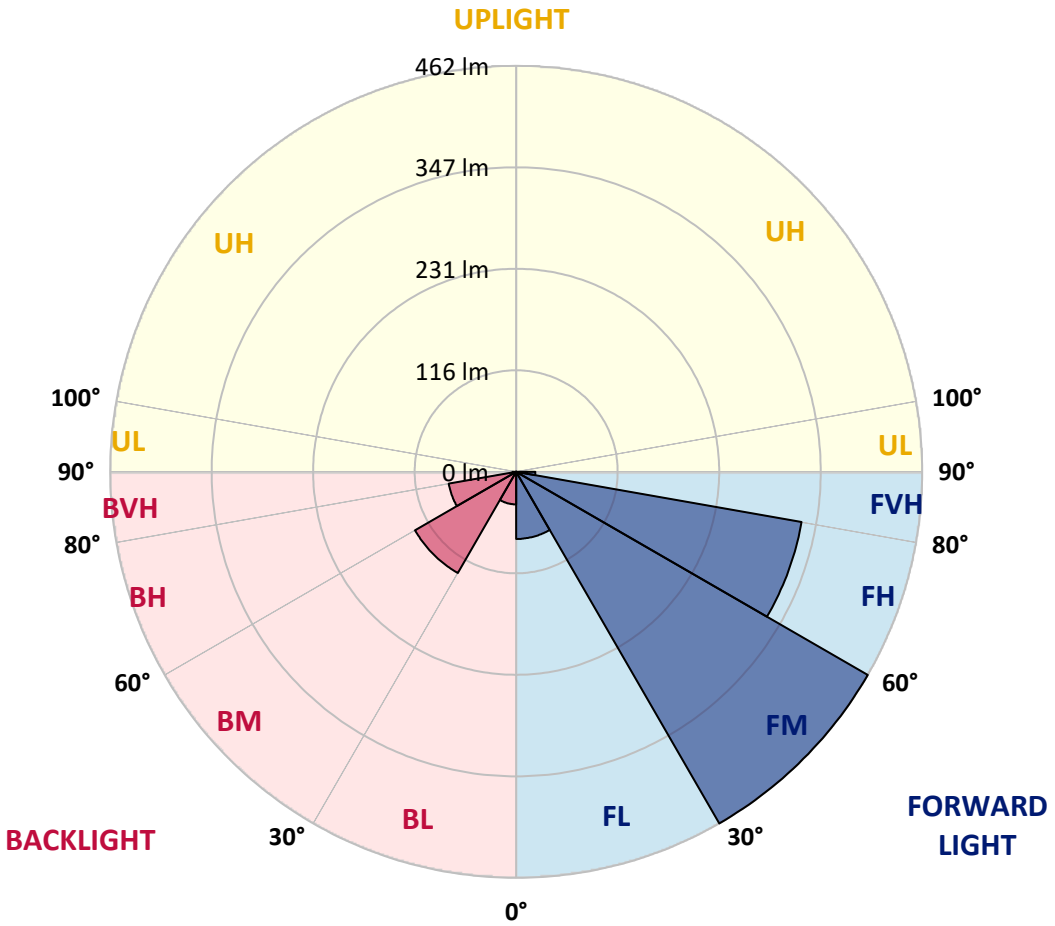
Scaled Data Report

REPORT NUMBER: P832506
CATALOG NUMBER: TTN-D0-740-U-DL-CG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	76.4	6.7			
FM	(30°-60°)	462.0	40.5			
FH	(60°-80°)	329.7	28.9			G0/660
FVH	(80°-90°)	21.9	1.9			G1/100
BL	(0°-30°)	37.1	3.2	B0/110		
BM	(30°-60°)	133.0	11.6	B0/220		
BH	(60°-80°)	77.9	6.8	B0/110		G0/110
BVH	(80°-90°)	4.0	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
Type IV Short



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P832506
CATALOG NUMBER: TTN-D0-740-U-DL-CG

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	107.0	107.0	107.0	107.0	*107.0*	107.0	107.0	107.0	107.0	107.0	107.0
2.5°	114.0	115.0	114.0	114.0	*113.0*	113.0	112.0	111.0	110.0	109.0	107.0
5°	127.0	127.0	126.0	124.0	*123.0*	122.0	120.0	117.0	115.0	112.0	109.0
7.5°	133.0	133.0	132.0	130.0	*128.0*	127.0	124.0	120.0	117.0	113.0	109.0
10°	141.0	142.0	140.0	138.0	*136.0*	135.0	131.0	126.0	121.0	116.0	110.0
12.5°	150.0	151.0	150.0	147.0	*144.0*	143.0	139.0	133.0	127.0	120.0	113.0
15°	162.1	164.1	161.0	159.0	*156.0*	155.0	150.0	143.0	136.0	127.0	118.0
17.5°	176.1	177.1	175.1	172.1	*170.1*	169.1	164.1	156.0	146.0	136.0	125.0
20°	192.1	193.1	192.1	188.1	*186.1*	185.1	180.1	171.1	159.0	148.0	134.0
22.5°	211.1	213.1	210.1	207.1	*205.1*	205.1	199.1	189.1	175.1	161.0	145.0
25°	233.1	236.1	232.1	230.1	*228.1*	227.1	222.1	210.1	194.1	177.1	157.0
27.5°	260.1	262.1	259.1	258.1	*254.1*	254.1	246.1	232.1	215.1	195.1	172.1
30°	284.1	286.1	284.1	284.1	*281.1*	280.1	272.1	258.1	237.1	213.1	185.1
32.5°	307.1	309.1	308.1	309.1	*308.1*	307.1	297.1	282.1	261.1	230.1	198.1
35°	330.1	333.1	332.1	335.1	*334.1*	333.1	325.1	307.1	282.1	251.1	212.1
37.5°	354.1	357.1	357.1	360.1	*361.1*	361.1	352.1	333.1	305.1	270.1	228.1
40°	380.1	383.1	383.1	388.1	*390.1*	390.1	380.1	361.1	330.1	291.1	245.1
42.5°	405.1	408.1	409.1	414.1	*417.1*	418.1	410.1	388.1	352.1	312.1	261.1
45°	429.1	432.1	435.1	445.1	*450.1*	449.1	443.1	420.1	380.1	334.1	278.1
47.5°	452.1	456.1	461.1	474.1	*481.1*	480.1	476.1	450.1	406.1	355.1	293.1
50°	470.1	473.1	483.1	497.2	*506.2*	507.2	501.2	476.1	428.1	371.1	304.1
52.5°	484.1	488.2	500.2	520.2	*527.2*	530.2	523.2	498.2	450.1	385.1	313.1
55°	494.2	494.2	512.2	535.2	*545.2*	547.2	547.2	516.2	463.1	394.1	318.1
57.5°	*489.2*	*489.2*	*509.2*	*534.2*	*550.2*	*549.2*	*547.2*	*517.2*	*465.1*	*392.1*	*315.1*
60°	475.1	478.1	497.2	522.2	*538.2*	537.2	531.2	504.2	455.1	384.1	309.1
62.5°	456.1	461.1	481.1	500.2	*518.2*	521.2	513.2	489.2	438.1	372.1	298.1
65°	420.1	427.1	452.1	473.1	*487.2*	493.2	483.1	461.1	415.1	349.1	275.1
67.5°	380.1	385.1	406.1	436.1	*444.1*	450.1	445.1	422.1	383.1	312.1	249.1
70°	334.1	342.1	356.1	386.1	*395.1*	401.1	401.1	378.1	341.1	274.1	218.1
72.5°	280.1	289.1	306.1	328.1	*340.1*	344.1	343.1	324.1	291.1	232.1	184.1
75°	221.1	228.1	248.1	264.1	*277.1*	280.1	279.1	263.1	233.1	187.1	146.0
77.5°	163.1	170.1	185.1	197.1	*209.1*	207.1	207.1	195.1	176.1	139.0	111.0
80°	107.0	113.0	126.0	130.0	*143.0*	142.0	142.0	133.0	120.0	93.0	74.0
82.5°	59.0	64.0	73.0	77.0	*85.0*	83.0	84.0	78.0	70.0	52.0	42.0
85°	21.0	25.0	30.0	33.0	*37.0*	37.0	37.0	32.0	30.0	20.0	17.0
87.5°	1.0	2.0	4.0	4.0	*6.0*	6.0	6.0	4.0	4.0	1.0	1.0
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
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P832506
CATALOG NUMBER: TTN-D0-740-U-DL-CG

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0
2.5°	106.0	105.0	104.0	102.0	101.0	100.0	99.0	98.0	98.0	98.0	98.0
5°	107.0	106.0	103.0	100.0	97.0	94.0	92.0	91.0	90.0	89.0	89.0
7.5°	107.0	105.0	101.0	97.0	94.0	90.0	87.0	84.0	82.0	81.0	81.0
10°	108.0	105.0	100.0	96.0	91.0	86.0	82.0	78.0	76.0	74.0	74.0
12.5°	110.0	107.0	100.0	95.0	89.0	83.0	78.0	74.0	71.0	69.0	69.0
15°	114.0	110.0	102.0	95.0	88.0	81.0	76.0	71.0	68.0	66.0	66.0
17.5°	120.0	115.0	105.0	95.0	87.0	80.0	74.0	69.0	65.0	63.0	63.0
20°	127.0	121.0	109.0	97.0	87.0	79.0	73.0	67.0	63.0	61.0	61.0
22.5°	137.0	128.0	114.0	100.0	89.0	80.0	72.0	66.0	62.0	60.0	60.0
25°	148.0	138.0	120.0	104.0	91.0	80.0	72.0	66.0	62.0	60.0	59.0
27.5°	160.0	149.0	127.0	108.0	93.0	82.0	73.0	66.0	62.0	60.0	60.0
30°	171.1	158.0	134.0	113.0	96.0	83.0	74.0	67.0	62.0	60.0	60.0
32.5°	183.1	168.1	141.0	118.0	99.0	85.0	75.0	68.0	63.0	61.0	60.0
35°	195.1	178.1	148.0	122.0	102.0	87.0	76.0	69.0	64.0	62.0	62.0
37.5°	208.1	189.1	155.0	127.0	105.0	89.0	78.0	70.0	65.0	63.0	63.0
40°	222.1	200.1	162.1	131.0	108.0	91.0	80.0	72.0	67.0	65.0	65.0
42.5°	236.1	212.1	170.1	136.0	111.0	93.0	81.0	74.0	69.0	67.0	67.0
45°	250.1	222.1	177.1	141.0	114.0	96.0	84.0	76.0	71.0	69.0	69.0
47.5°	263.1	233.1	183.1	144.0	117.0	98.0	85.0	78.0	73.0	72.0	71.0
50°	272.1	240.1	187.1	147.0	118.0	99.0	87.0	79.0	75.0	73.0	73.0
52.5°	279.1	247.1	190.1	149.0	119.0	100.0	88.0	81.0	77.0	75.0	74.0
55°	283.1	248.1	190.1	147.0	118.0	100.0	88.0	81.0	77.0	75.0	75.0
57.5°	*279.1*	*243.1*	*186.1*	*143.0*	*115.0*	*97.0*	*85.0*	*79.0*	*75.0*	*74.0*	*73.0*
60°	271.1	235.1	178.1	137.0	110.0	92.0	81.0	76.0	73.0	72.0	71.0
62.5°	260.1	225.1	170.1	129.0	103.0	86.0	78.0	72.0	70.0	69.0	68.0
65°	238.1	206.1	157.0	119.0	94.0	79.0	71.0	67.0	65.0	63.0	62.0
67.5°	214.1	185.1	139.0	107.0	83.0	71.0	64.0	60.0	57.0	57.0	56.0
70°	188.1	163.1	120.0	91.0	72.0	62.0	55.0	52.0	50.0	50.0	49.0
72.5°	157.0	137.0	100.0	74.0	59.0	51.0	46.0	43.0	42.0	42.0	41.0
75°	126.0	108.0	79.0	58.0	46.0	40.0	36.0	34.0	33.0	33.0	32.0
77.5°	93.0	79.0	57.0	42.0	33.0	29.0	26.0	25.0	24.0	24.0	23.0
80°	62.0	52.0	37.0	27.0	20.0	18.0	16.0	16.0	15.0	16.0	15.0
82.5°	34.0	28.0	20.0	14.0	10.0	9.0	8.0	8.0	9.0	9.0	8.0
85°	13.0	10.0	7.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0
87.5°	1.0	1.0	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
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: SP1-2411-284-2

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

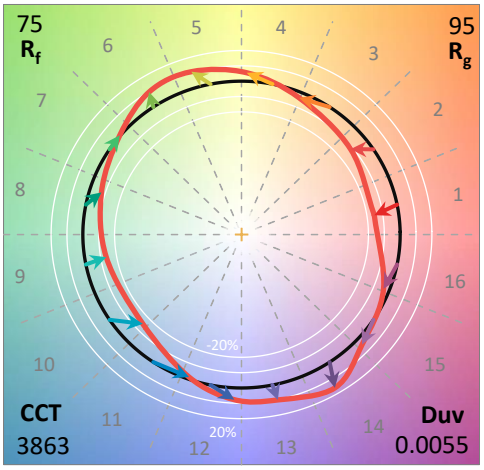
Test Information

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



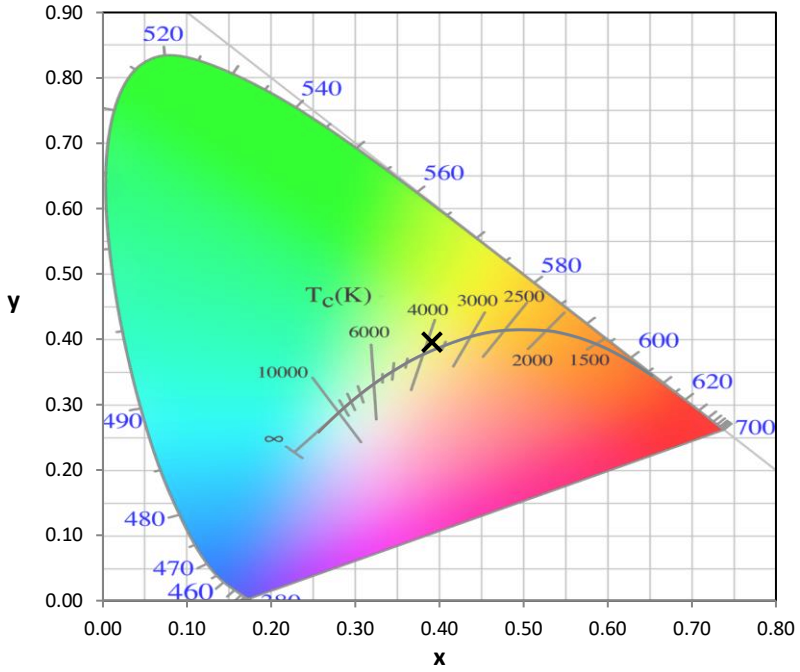
Test Conditions

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

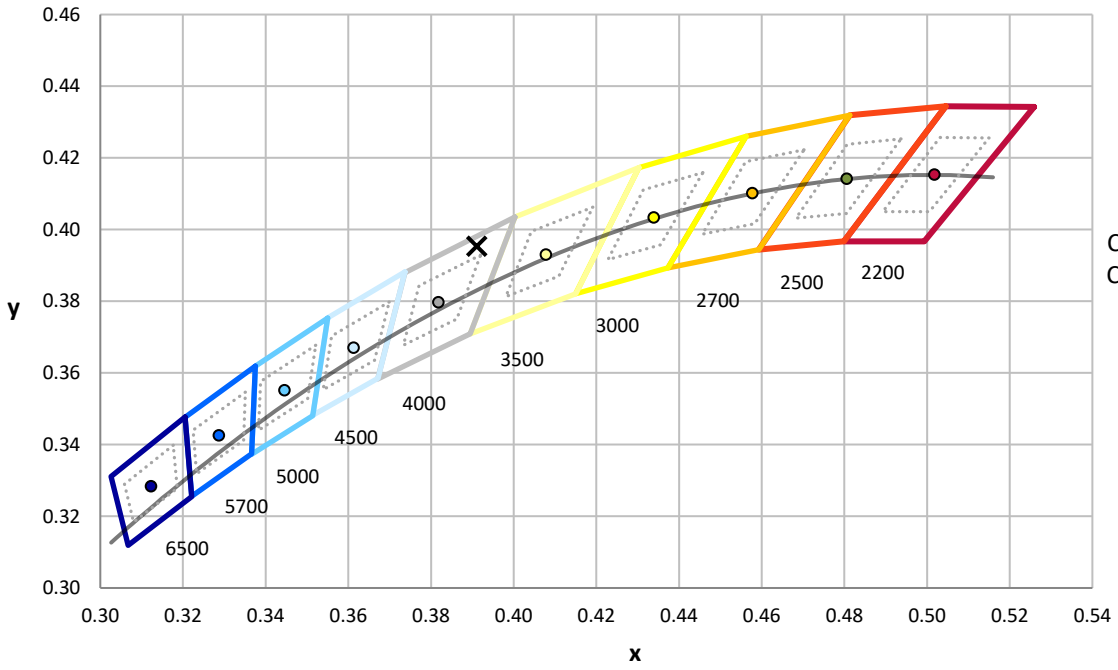
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

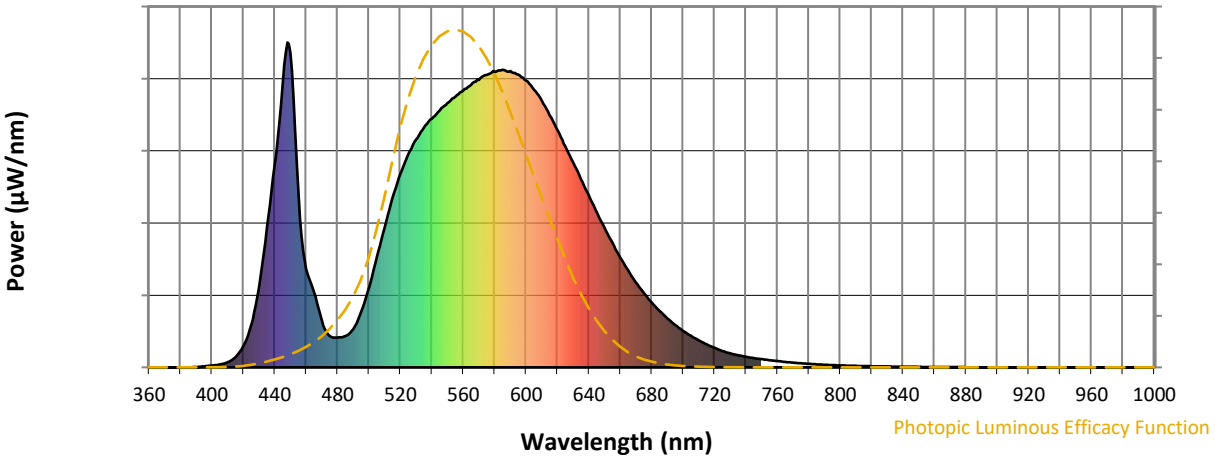


CCT = 3863K
CIE x = 0.3911
CIE y = 0.3954
Duv = 0.0055

Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2411-284-2

Photopic Flux vs. Wavelength

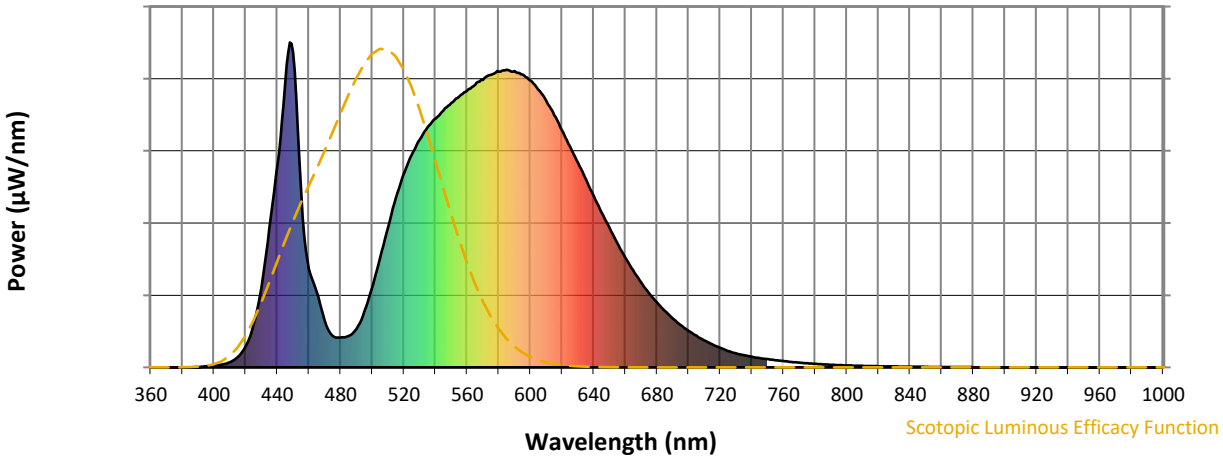


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2411-284-2

Scotopic Flux vs. Wavelength

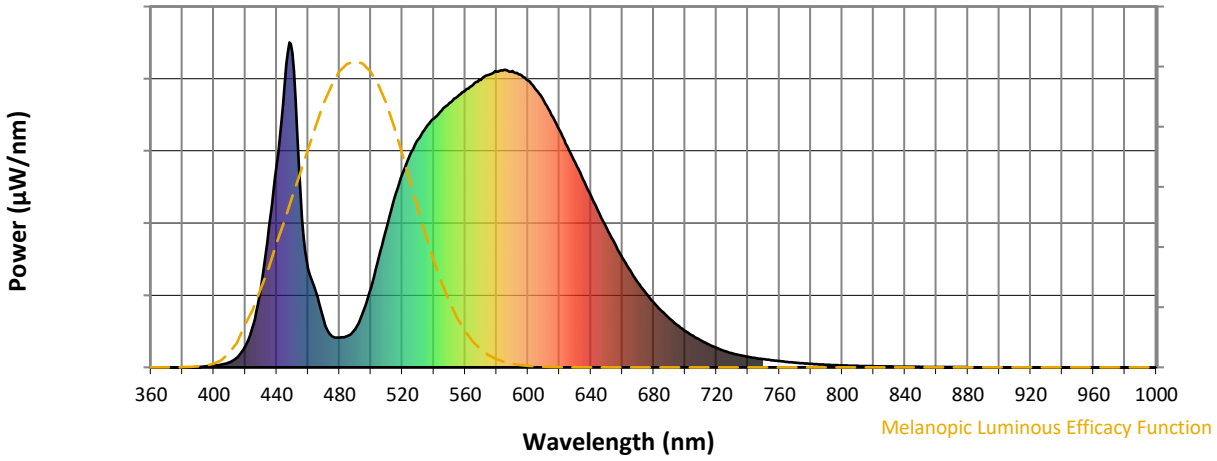


Scotopic Lumens: NR **S/P: 1.45**

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			

REPORT NUMBER: SP1-2411-284-2

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			

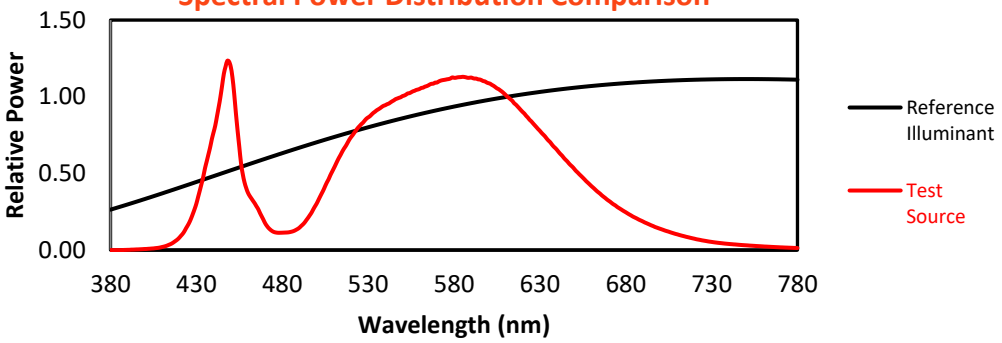
REPORT NUMBER: SP1-2411-284-2

TM-30-18

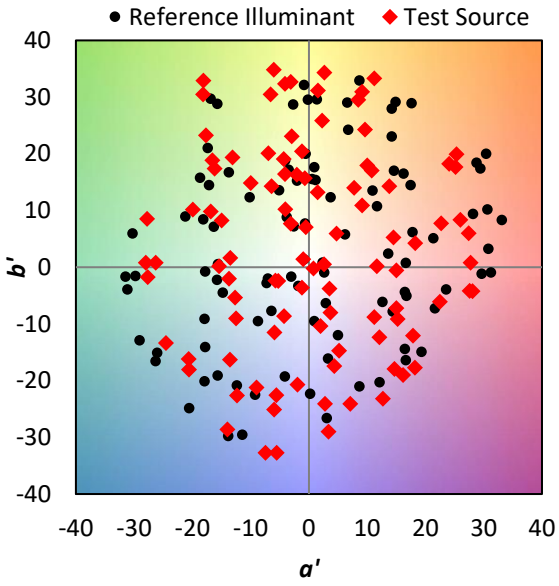
Summary

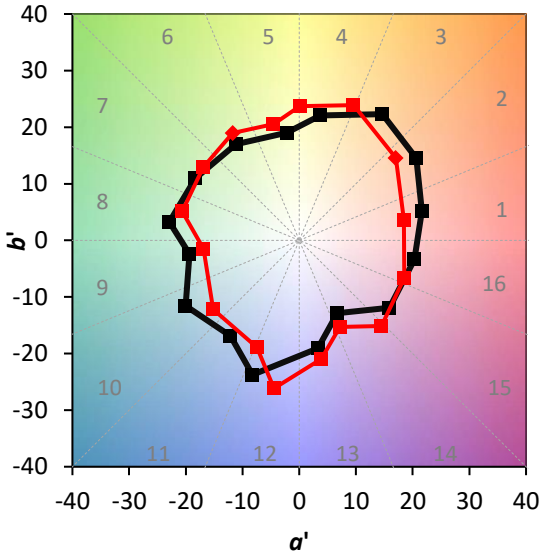
R_f = 74.7
R_g = 95.4
CIE R_a = 71.9
R_9 = -23.5

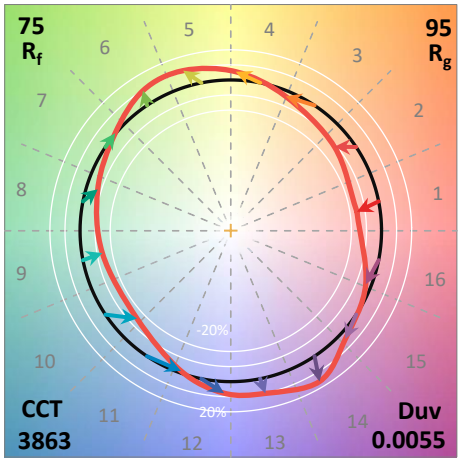
Spectral Power Distribution Comparison

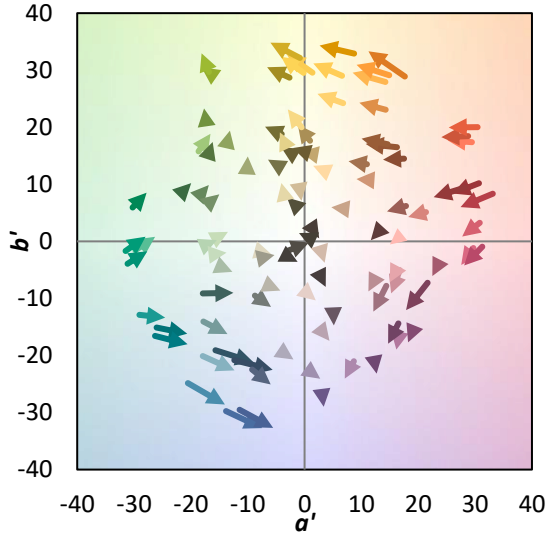


Color Vector Graphics







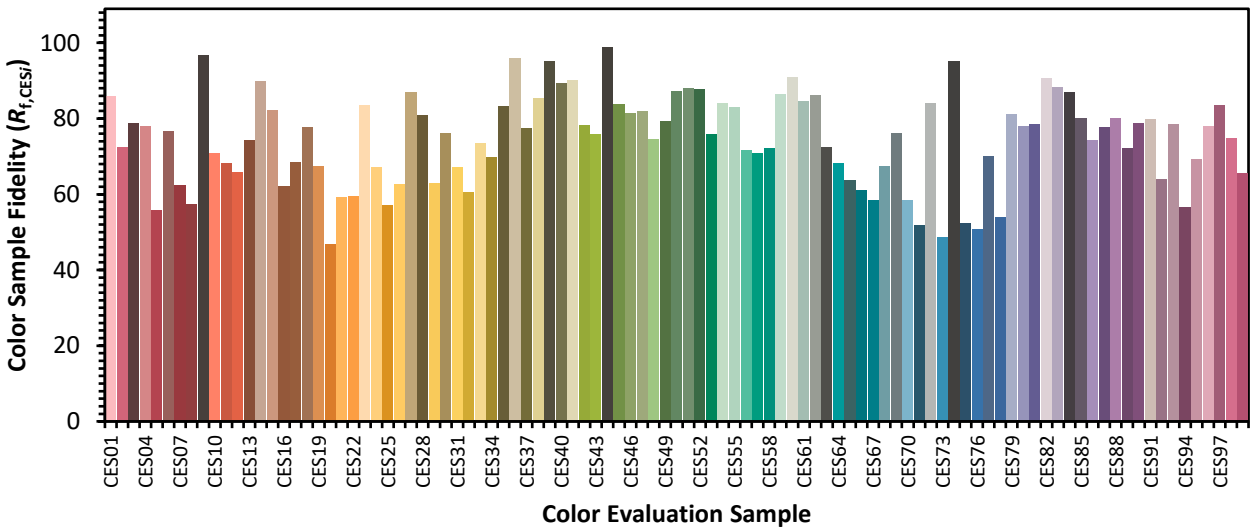


REPORT NUMBER: SP1-2411-284-2

TM-30-18

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

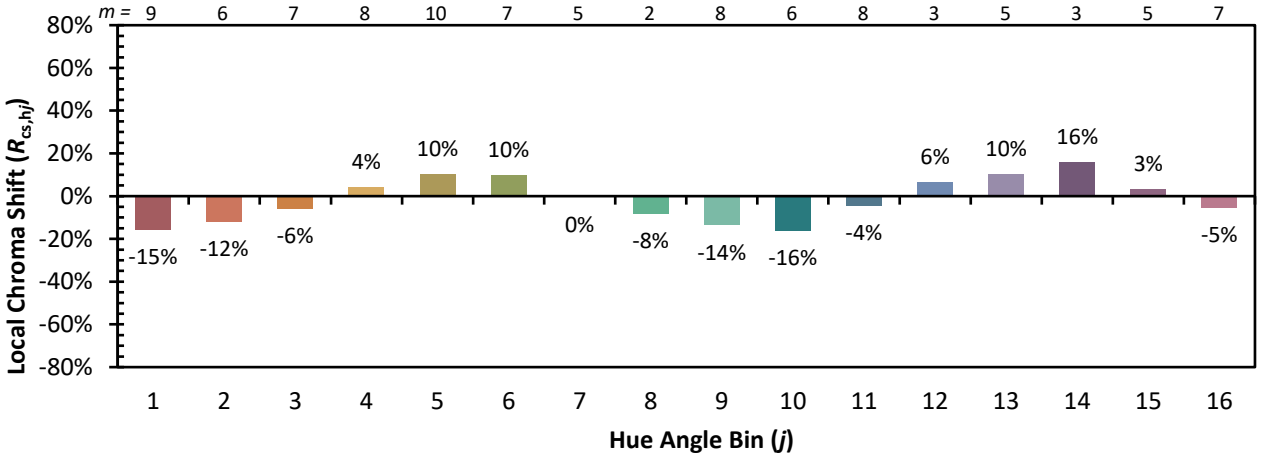
CES01 = 85	CES26 = 63	CES51 = 88	CES76 = 51
CES02 = 61	CES27 = 87	CES52 = 88	CES77 = 70
CES03 = 30	CES28 = 81	CES53 = 76	CES78 = 54
CES04 = 70	CES29 = 63	CES54 = 84	CES79 = 81
CES05 = 47	CES30 = 76	CES55 = 83	CES80 = 78
CES06 = 50	CES31 = 67	CES56 = 72	CES81 = 79
CES07 = 40	CES32 = 61	CES57 = 71	CES82 = 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	

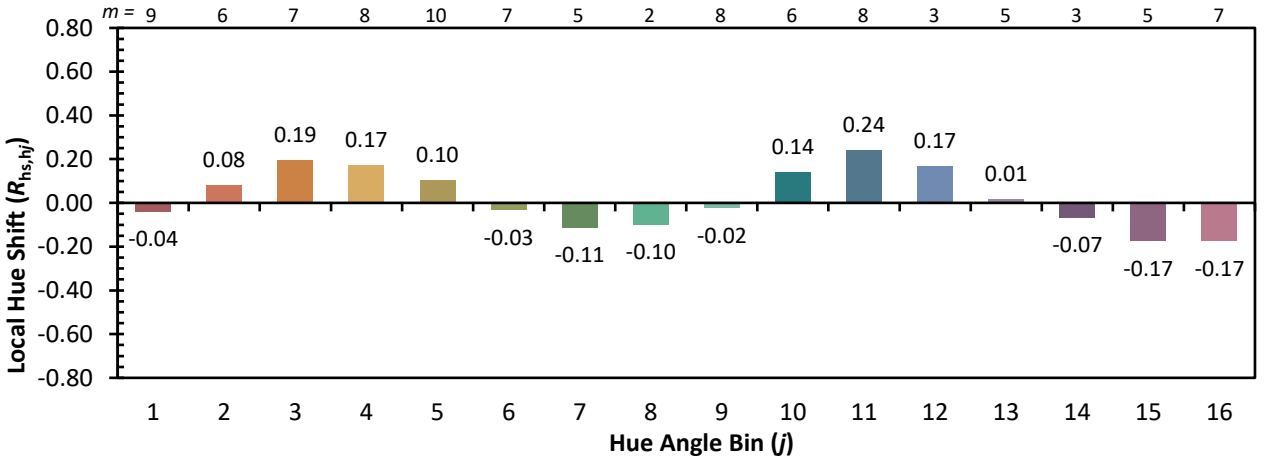


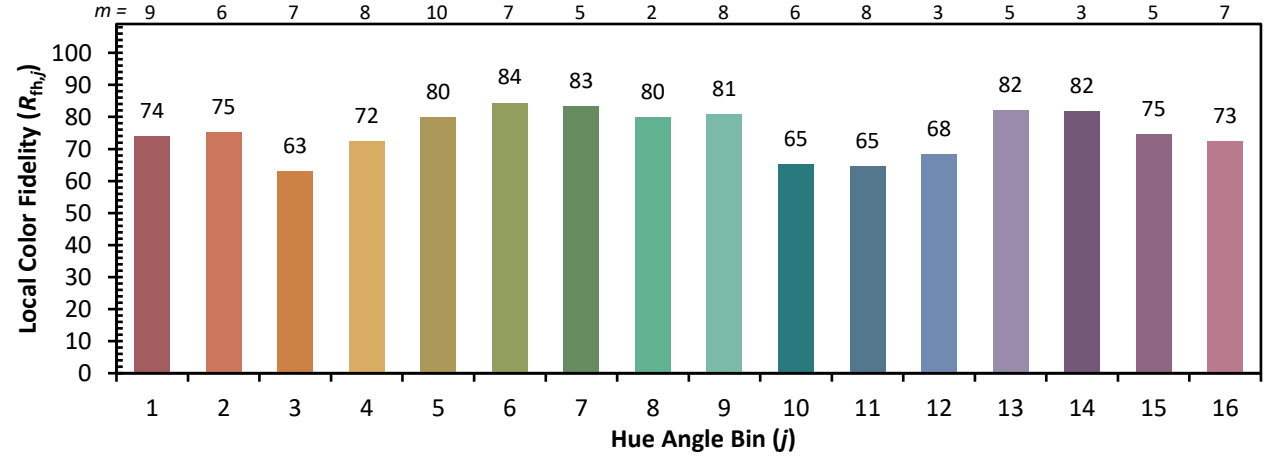
REPORT NUMBER: SP1-2411-284-2

TM-30-18

Color Rendition by Hue-Angle Bin



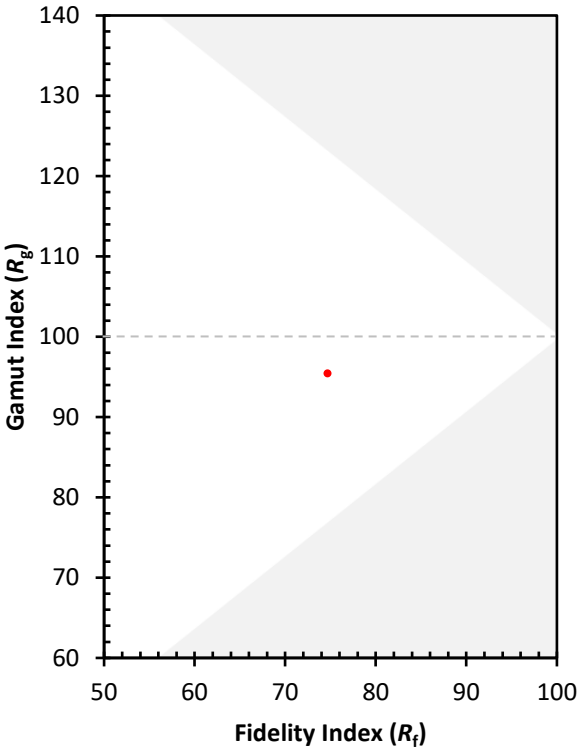


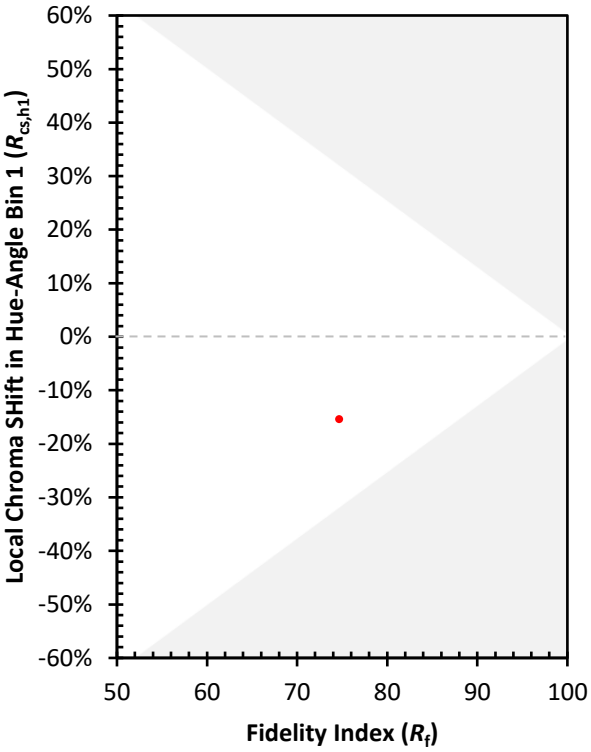


REPORT NUMBER: SP1-2411-284-2

TM-30-18

Measure Comparisons





(END OF REPORT)