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: P400621

Luminaire Tested: **TT-D3-735-U-T4-PM**

Issue Date: 5/19/2020

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:	P400621
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-26)
Test Lab:	INNOVATION CENTER
Issue Date:	5/19/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TT-D3-735-U-T4-PM
Description:	TOPTIER LED SITE LUMINAIRE
	3500K, 70 CRI LEDS AND DRIVE LANE DISTRIBUTION
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5055 lumens
Efficiency:	N/A
Efficacy:	103.6 lumens/watt
Luminous Opening:	Circular (Dia: 1.12' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G3

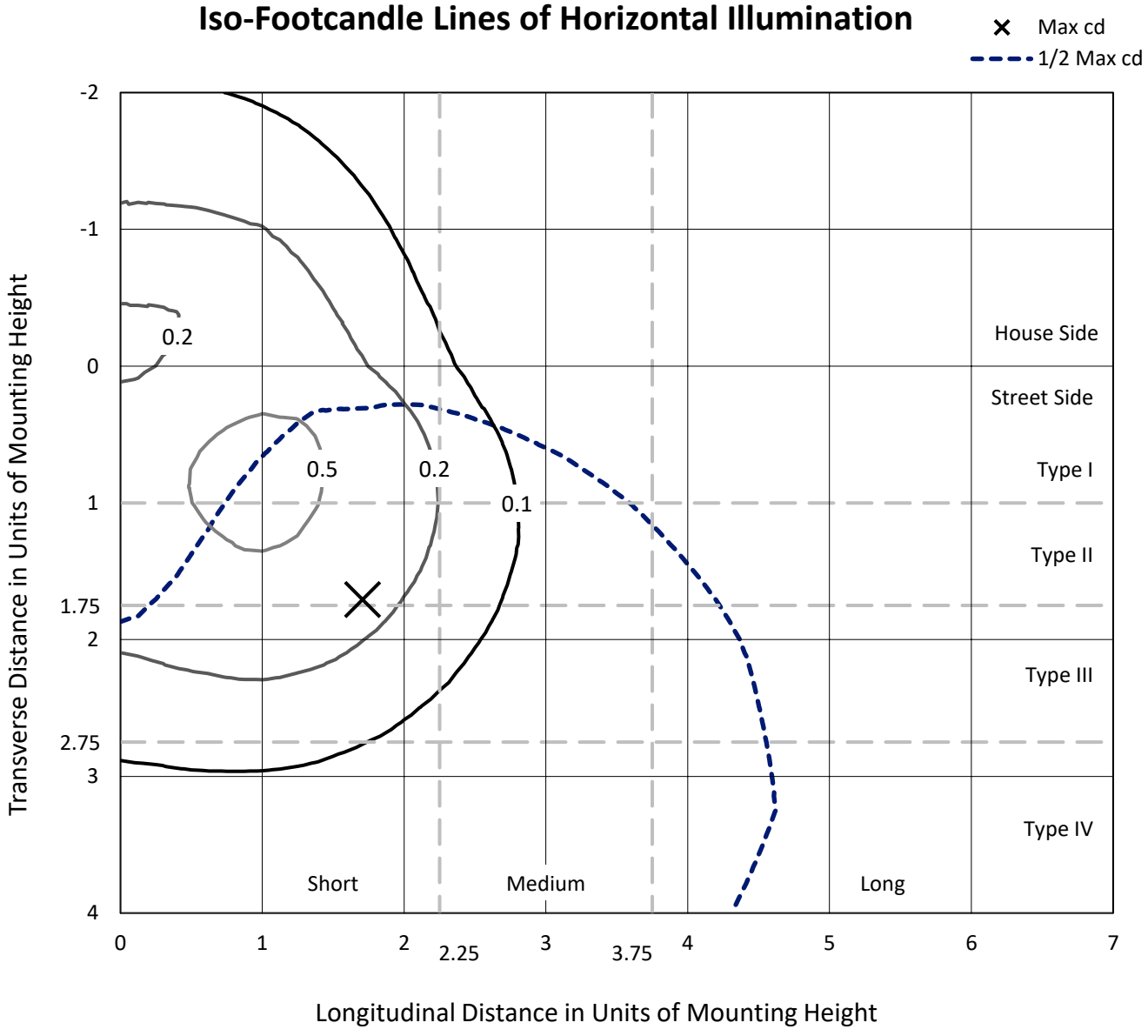
Input Watts (W):	48.8
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P400621
CATALOG NUMBER: TT-D3-735-U-T4-PM

Iso-Footcandle Lines of Horizontal Illumination



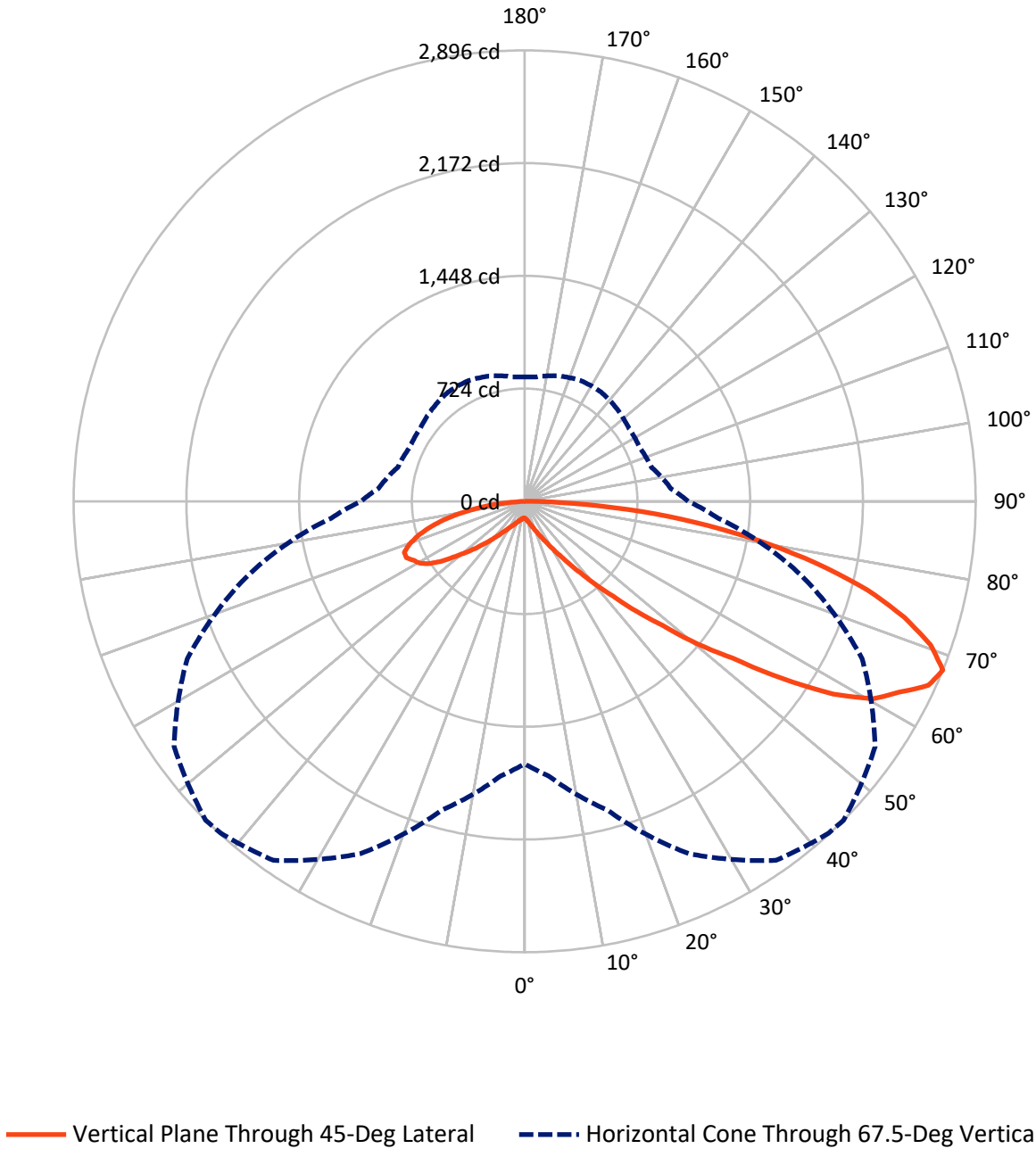
Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P400621
CATALOG NUMBER: TT-D3-735-U-T4-PM

Luminous Intensity Polar Plot



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

Scaled Data Report

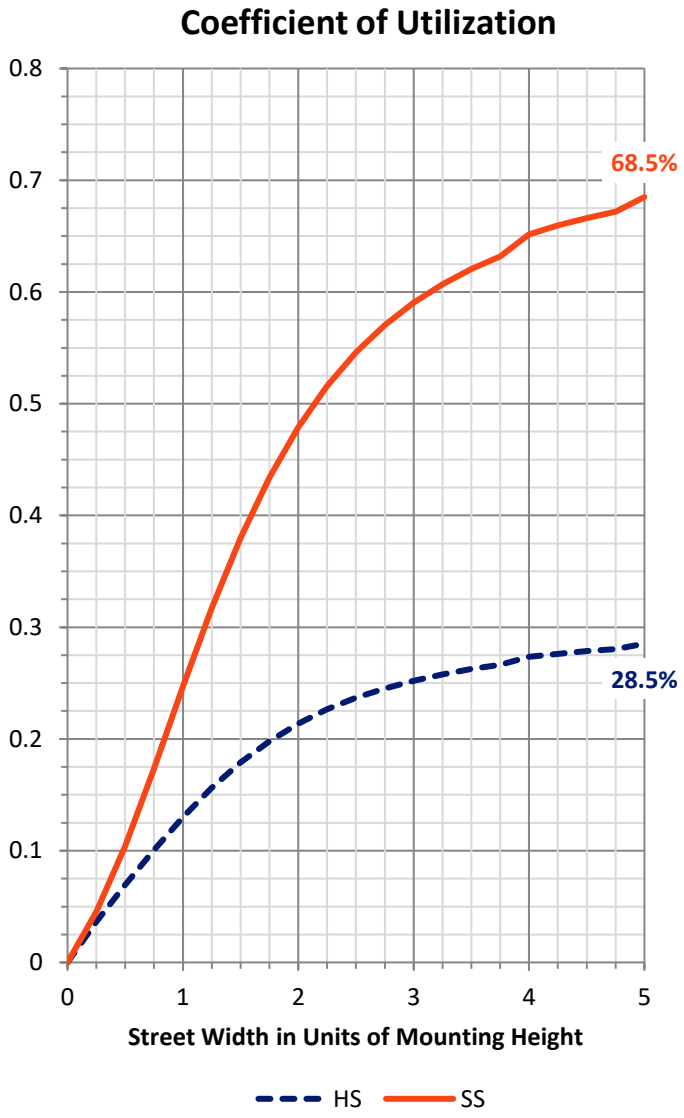
REPORT NUMBER: P400621
CATALOG NUMBER: TT-D3-735-U-T4-PM

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1473.0	0.0	1473.0
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	3582.0	0.0	3582.0
	% Fixture	70.9	0.0	70.9
Total	Lumens	5055.0	0.0	5055.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.3	0.2
10°-20°	41.9	0.8
20°-30°	99.2	2.0
30°-40°	224.4	4.4
40°-50°	500.3	9.9
50°-60°	1005.9	19.9
60°-70°	1477.4	29.2
70°-80°	1299.1	25.7
80°-90°	395.5	7.8
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°	5055.0	100.0
0°-180°	5055.0	100.0



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

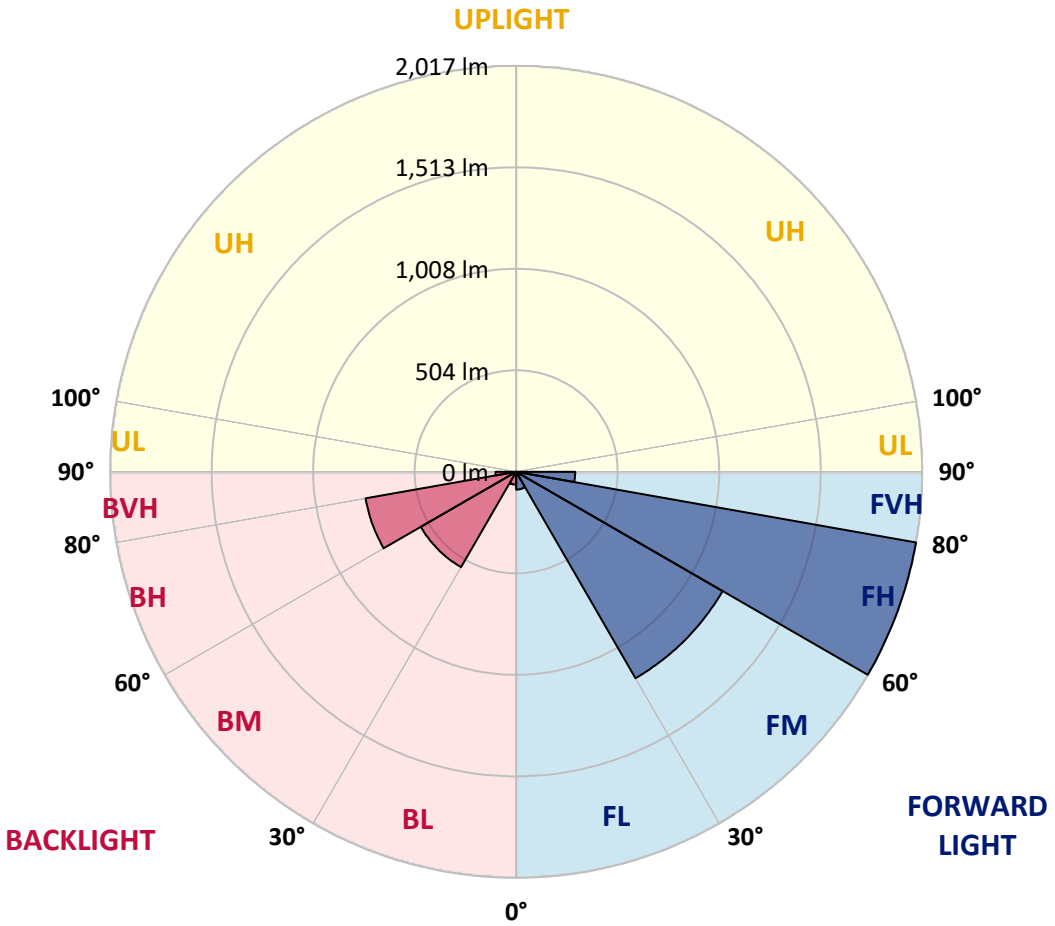
Scaled Data Report

REPORT NUMBER: P400621
CATALOG NUMBER: TT-D3-735-U-T4-PM

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	88.3	1.7			
FM	(30°-60°)	1183.8	23.4			
FH	(60°-80°)	2016.9	39.9			G2/5000
FVH	(80°-90°)	293.0	5.8			G3/500
BL	(0°-30°)	64.1	1.3	B0/110		
BM	(30°-60°)	546.9	10.8	B1/1000		
BH	(60°-80°)	759.6	15.0	B2/1000		G2/1000
BVH	(80°-90°)	102.4	2.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P400621
CATALOG NUMBER: TT-D3-735-U-T4-PM

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42.5°	45°	55°	65°	75°	85°
0°	109.6	109.6	109.6	109.6	109.6	109.6	*109.6*	109.6	109.6	109.6	109.6
2.5°	114.4	113.4	113.4	113.4	112.5	112.5	*112.5*	112.5	111.5	111.5	111.5
5°	121.0	120.0	121.0	119.1	118.2	118.2	*117.2*	117.2	116.3	115.3	114.4
7.5°	130.4	129.5	129.5	127.6	126.7	125.7	*125.7*	123.8	122.9	121.0	119.1
10°	140.8	140.8	139.9	138.9	137.1	135.2	*135.2*	132.3	131.4	128.6	125.7
12.5°	153.1	153.1	153.1	151.2	149.3	148.4	*146.5*	144.6	141.8	137.1	134.2
15°	168.3	168.3	168.3	166.4	164.5	162.6	*161.6*	157.9	153.1	148.4	142.7
17.5°	187.2	185.3	185.3	183.4	181.5	180.5	*178.6*	174.9	168.3	162.6	155.0
20°	208.0	207.0	206.1	206.1	204.2	202.3	*201.3*	195.7	188.1	177.7	168.3
22.5°	231.6	230.6	230.6	232.5	231.6	228.7	*228.7*	220.2	209.8	197.6	183.4
25°	260.9	259.9	261.8	265.6	265.6	263.7	*260.9*	252.4	237.3	220.2	203.2
27.5°	293.0	292.1	295.9	302.5	304.4	301.5	*299.6*	290.2	273.2	250.5	225.9
30°	331.8	332.7	343.1	350.7	355.4	353.5	*352.6*	342.2	314.8	288.3	256.2
32.5°	379.0	376.2	389.4	401.7	410.2	415.0	*412.1*	399.8	376.2	334.6	294.0
35°	429.1	430.1	446.2	464.1	484.0	485.9	*491.5*	479.2	447.1	397.9	341.2
37.5°	494.4	486.8	507.6	541.6	565.3	586.0	*582.3*	574.7	536.9	471.7	394.2
40°	553.0	551.1	580.4	627.6	671.1	701.4	*705.1*	695.7	645.6	553.0	450.9
42.5°	620.1	625.7	666.4	731.6	797.8	841.3	*830.9*	826.1	767.5	649.4	528.4
45°	688.1	707.0	759.0	853.5	931.1	993.4	*1011.4*	995.3	923.5	801.6	626.7
47.5°	770.4	795.9	860.2	987.8	1114.4	1187.2	*1191.0*	1239.2	1130.5	948.1	728.8
50°	879.1	890.4	980.2	1136.2	1310.1	1412.2	*1441.5*	1442.4	1333.7	1095.5	844.1
52.5°	985.9	994.4	1112.5	1313.9	1550.2	1666.5	*1673.1*	1709.9	1561.5	1333.7	1009.5
55°	1114.4	1110.7	1273.2	1515.2	1794.1	1963.3	*2012.4*	2062.5	1873.5	1521.8	1104.0
57.5°	1239.2	1233.5	1429.2	1746.8	2127.7	2296.0	*2336.6*	2300.7	2020.0	1600.3	1150.4
60°	1354.5	1374.4	1612.6	2003.0	2385.8	2546.5	*2573.9*	2476.5	2114.5	1660.8	1179.7
62.5°	1474.6	1514.3	1802.6	2216.6	2583.3	2698.7	*2700.5*	2586.2	2272.4	1778.0	1275.1
65°	1587.1	1650.4	1950.0	2399.0	2721.3	2836.7	*2849.9*	2746.9	2427.4	1880.1	1291.2
67.5°	*1686.3*	*1770.4*	*2052.1*	*2497.3*	*2814.9*	*2889.6*	*2896.2*	*2747.8*	*2390.5*	*1838.5*	*1246.8*
70°	1766.6	1834.7	2115.4	2499.2	2749.7	2770.5	*2765.8*	2607.9	2288.4	1756.3	1172.1
72.5°	1797.8	1853.6	2085.2	2382.0	2557.8	2553.1	*2549.3*	2403.7	2120.2	1619.2	1064.3
75°	1753.4	1769.5	1919.8	2131.5	2243.0	2269.5	*2273.3*	2141.9	1860.2	1416.0	913.1
77.5°	1570.0	1561.5	1676.9	1816.7	1900.9	1919.8	*1916.0*	1806.3	1559.6	1176.8	765.6
80°	1244.9	1262.8	1334.7	1427.3	1511.4	1532.2	*1519.0*	1435.8	1213.7	917.8	587.9
82.5°	870.6	892.3	952.8	1022.7	1086.1	1086.1	*1098.4*	1018.0	860.2	658.8	411.2
85°	469.8	457.5	523.7	603.1	648.4	656.9	*661.7*	635.2	532.2	397.9	243.9
87.5°	77.5	83.2	103.0	157.9	179.6	208.0	*221.2*	173.0	104.9	67.1	49.2
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

Scaled Data Report

REPORT NUMBER: P400621
CATALOG NUMBER: TT-D3-735-U-T4-PM

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	109.6	109.6	109.6	109.6	109.6	109.6	109.6	109.6	109.6	109.6	109.6
2.5°	111.5	110.6	109.6	108.7	108.7	107.8	107.8	107.8	108.7	108.7	108.7
5°	114.4	113.4	112.5	111.5	109.6	109.6	109.6	109.6	109.6	109.6	109.6
7.5°	119.1	117.2	116.3	114.4	112.5	112.5	111.5	111.5	111.5	112.5	111.5
10°	124.8	122.9	121.0	118.2	117.2	116.3	115.3	115.3	116.3	116.3	115.3
12.5°	131.4	130.4	126.7	123.8	121.9	121.0	120.0	121.0	120.0	121.0	121.0
15°	140.8	138.0	133.3	130.4	127.6	126.7	125.7	126.7	126.7	127.6	126.7
17.5°	151.2	147.5	142.7	138.0	134.2	133.3	133.3	133.3	134.2	135.2	134.2
20°	163.5	158.8	152.2	146.5	142.7	141.8	141.8	142.7	143.7	144.6	144.6
22.5°	175.8	172.0	162.6	155.0	153.1	152.2	151.2	153.1	155.0	156.0	156.9
25°	194.7	187.2	175.8	167.3	163.5	163.5	164.5	166.4	167.3	169.2	168.3
27.5°	214.6	206.1	191.9	180.5	177.7	176.8	178.6	180.5	184.3	184.3	183.4
30°	242.0	227.8	209.8	199.4	191.9	192.8	195.7	198.5	202.3	204.2	204.2
32.5°	273.2	258.0	233.5	217.4	213.6	214.6	215.5	220.2	224.0	227.8	225.0
35°	313.8	294.9	264.7	246.7	237.3	236.3	240.1	245.8	249.5	251.4	251.4
37.5°	358.2	333.7	295.9	280.7	269.4	268.4	269.4	274.1	278.8	280.7	284.5
40°	412.1	381.9	337.4	312.9	304.4	302.5	306.3	312.9	312.9	315.7	316.7
42.5°	478.3	439.5	390.4	358.2	347.8	347.8	346.9	352.6	352.6	352.6	350.7
45°	562.4	518.9	454.7	421.6	403.6	394.2	397.0	393.2	392.3	395.1	386.6
47.5°	643.7	588.9	513.3	477.3	459.4	453.7	443.3	440.5	435.8	435.8	423.5
50°	738.2	670.2	597.4	546.3	529.3	513.3	504.8	491.5	477.3	474.5	469.8
52.5°	896.1	811.0	696.6	641.8	598.3	582.3	562.4	545.4	528.4	515.2	522.7
55°	960.4	873.4	764.7	711.8	681.5	666.4	629.5	606.8	581.3	562.4	572.8
57.5°	992.5	898.0	796.8	757.1	748.6	734.4	707.0	668.3	639.0	615.3	617.2
60°	1010.5	911.2	813.8	777.9	773.2	782.7	768.5	742.0	696.6	673.0	670.2
62.5°	1079.5	975.5	862.1	811.0	800.6	807.2	811.0	794.9	757.1	725.9	717.4
65°	1093.6	983.0	871.5	838.4	839.4	841.3	844.1	827.1	808.2	769.4	761.9
67.5°	*1051.1*	*942.4*	*843.2*	*815.7*	*817.6*	*839.4*	*856.4*	*855.4*	*834.6*	*801.6*	*798.7*
70°	986.8	881.0	789.3	764.7	769.4	789.3	826.1	845.0	841.3	819.5	824.2
72.5°	886.6	792.1	711.8	692.9	704.2	723.1	758.1	792.1	812.0	816.7	827.1
75°	769.4	693.8	618.2	606.8	615.3	637.1	669.2	708.9	752.4	776.0	782.7
77.5°	635.2	566.2	510.4	502.9	515.2	535.0	567.1	598.3	647.5	689.1	698.5
80°	497.2	437.6	397.9	391.3	398.9	415.9	440.5	466.0	513.3	545.4	550.1
82.5°	345.0	309.1	283.6	279.8	284.5	291.1	311.0	334.6	361.1	386.6	389.4
85°	200.4	177.7	171.1	165.4	175.8	175.8	180.5	193.8	207.0	208.9	214.6
87.5°	36.9	35.0	35.9	26.5	33.1	23.6	23.6	30.2	22.7	26.5	21.7
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: SP1-2411-284-1

Test Date: 11/15/2024

Luminaire Tested: TTN-D0-735-U-WQ

Data in this report applies to families of products including TT-D* and TTN-D*

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

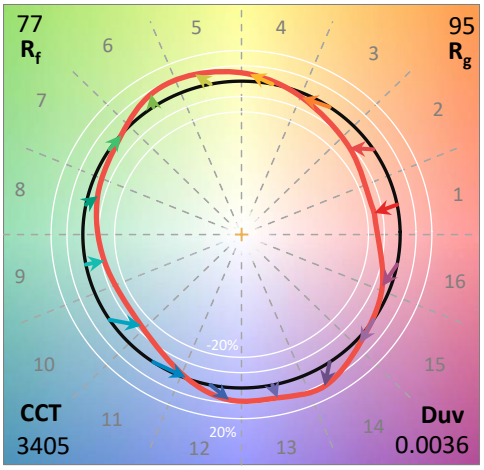
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2411-284-1
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	11/15/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**TTN-D0-735-U-WQ**
Description:	TOPTIER NANO LED PARKING GARAGE LUMINAIRE. 3500K, 70 CRI LEDS AND WIDE DISTRIBUTION

Spectral Parameters

CCT (K):	3405
CIE u':	0.2365
CIE v':	0.5180
Duv:	0.0036
CIE x:	0.4148
CIE y:	0.4038
CIE z:	0.1814
Peak Wavelength (nm):	596
Dominant Wavelength (nm):	579
Purity:	45.70672
Rf:	76.6
Rg:	95.4

CRI (Ra):	73.9
R1:	71.3
R2:	80.3
R3:	87.8
R4:	73.2
R5:	69.8
R6:	71.8
R7:	82.8
R8:	54.1
R9:	-18.0
R10:	53.1
R11:	68.6
R12:	42.6
R13:	72.5
R14:	92.7
R15:	64.3



Test Conditions

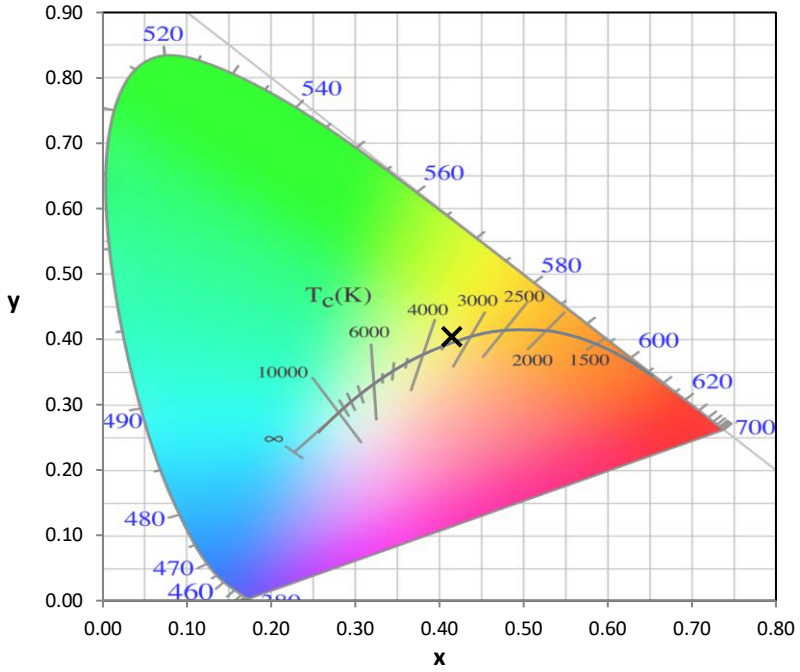
Stabilization Time:	38M
Operation Time:	1H 38M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2411-284-1

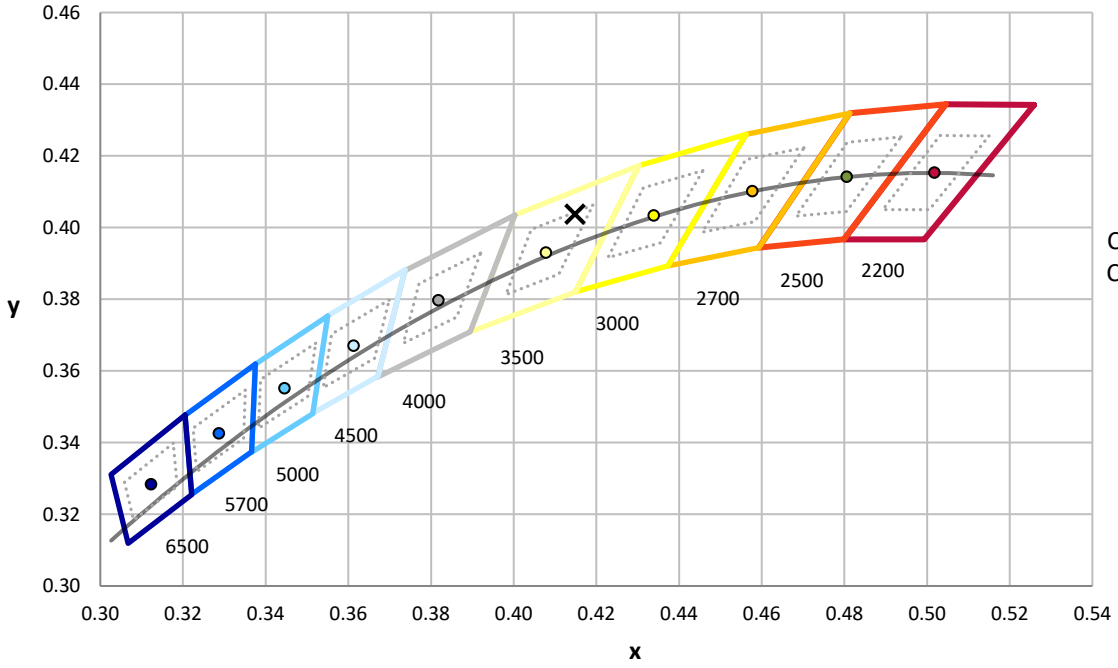
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2411-284-1

CIE 1931 Chromaticity Diagram



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

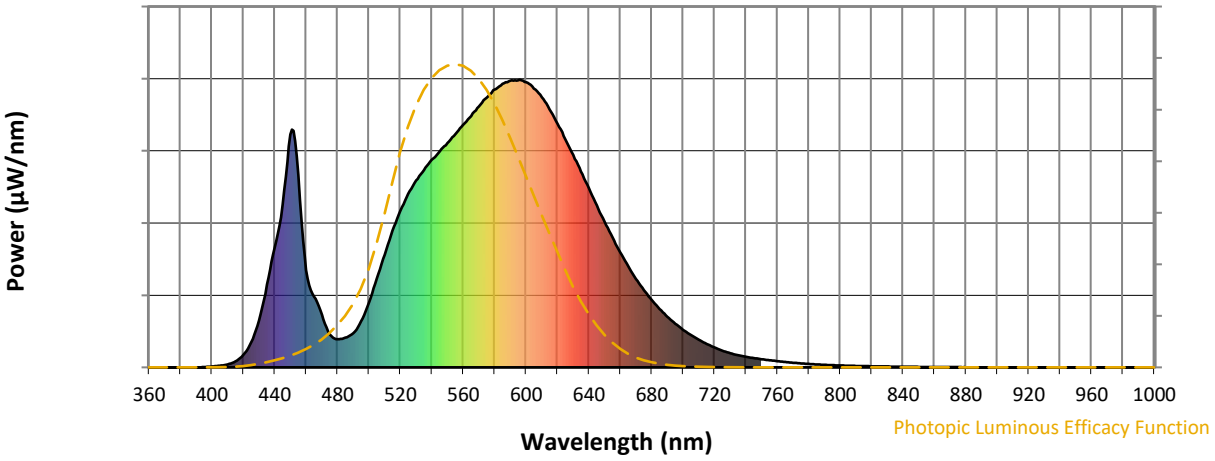


CCT = 3405K
CIE x = 0.4148
CIE y = 0.4038
Duv = 0.0036

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2411-284-1

Photopic Flux vs. Wavelength

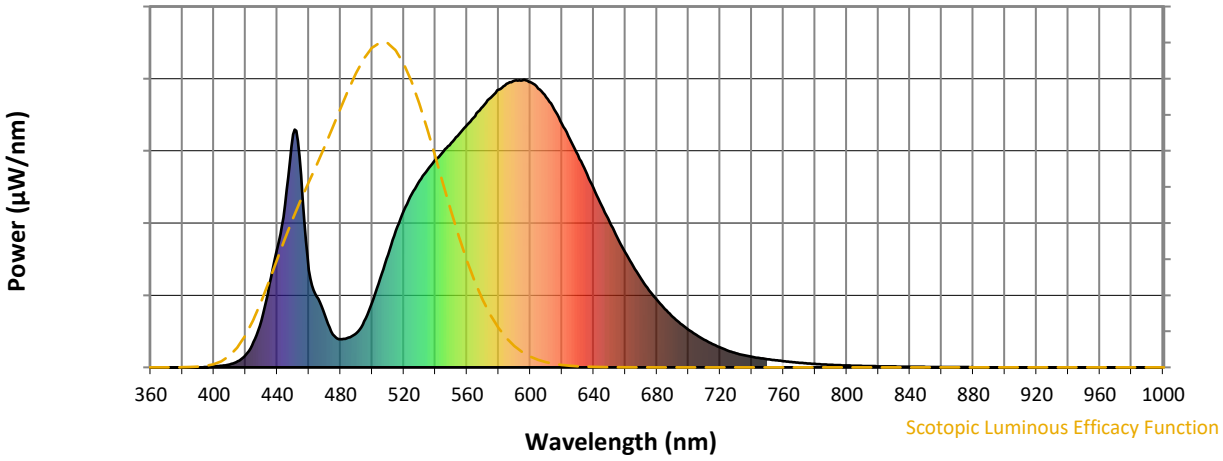


Photopic Lumens: NR

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	846	NR	750	28	NR	880	1	NR
365	0	NR	495	160	NR	625	793	NR	755	25	NR	885	0	NR
370	0	NR	500	225	NR	630	739	NR	760	22	NR	890	0	NR
375	0	NR	505	308	NR	635	681	NR	765	19	NR	895	0	NR
380	0	NR	510	392	NR	640	623	NR	770	16	NR	900	0	NR
385	0	NR	515	474	NR	645	563	NR	775	14	NR	905	0	NR
390	0	NR	520	545	NR	650	506	NR	780	12	NR	910	0	NR
395	1	NR	525	603	NR	655	451	NR	785	10	NR	915	0	NR
400	3	NR	530	649	NR	660	399	NR	790	9	NR	920	0	NR
405	5	NR	535	687	NR	665	352	NR	795	8	NR	925	0	NR
410	11	NR	540	721	NR	670	307	NR	800	6	NR	930	0	NR
415	21	NR	545	751	NR	675	268	NR	805	6	NR	935	0	NR
420	43	NR	550	779	NR	680	234	NR	810	5	NR	940	0	NR
425	88	NR	555	811	NR	685	203	NR	815	4	NR	945	0	NR
430	163	NR	560	843	NR	690	176	NR	820	4	NR	950	0	NR
435	288	NR	565	873	NR	695	152	NR	825	3	NR	955	0	NR
440	416	NR	570	907	NR	700	131	NR	830	3	NR	960	0	NR
445	566	NR	575	938	NR	705	112	NR	835	3	NR	965	0	NR
450	810	NR	580	965	NR	710	96	NR	840	2	NR	970	0	NR
455	669	NR	585	986	NR	715	81	NR	845	2	NR	975	0	NR
460	338	NR	590	997	NR	720	69	NR	850	2	NR	980	0	NR
465	246	NR	595	997	NR	725	58	NR	855	1	NR	985	0	NR
470	182	NR	600	991	NR	730	49	NR	860	1	NR	990	0	NR
475	115	NR	605	968	NR	735	42	NR	865	1	NR	995	0	NR
480	97	NR	610	939	NR	740	37	NR	870	1	NR	1000	0	NR
485	103	NR	615	896	NR	745	32	NR	875	1	NR			

REPORT NUMBER: SP1-2411-284-1

Scotopic Flux vs. Wavelength

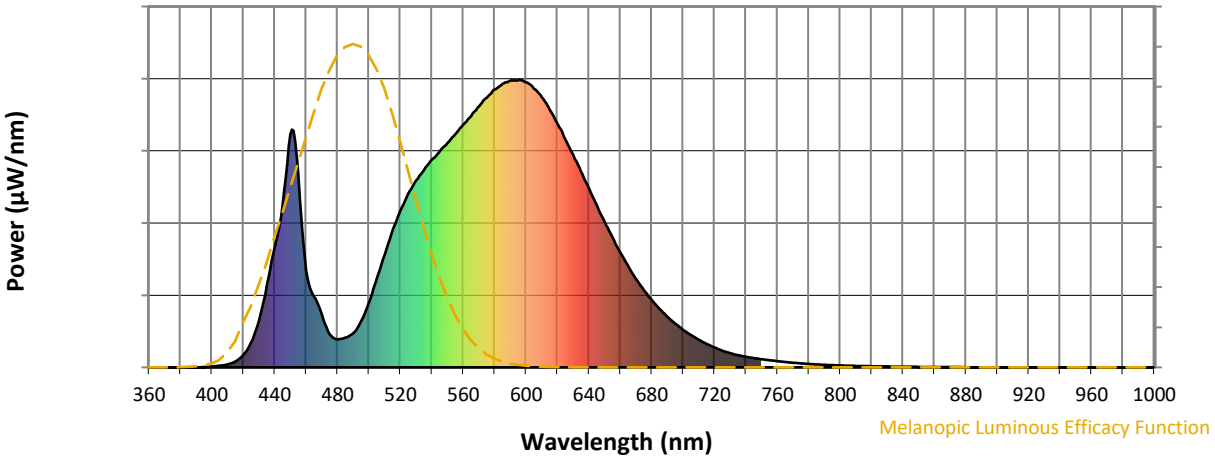


Scotopic Lumens: NR **S/P: 1.33**

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	846	NR	750	28	NR	880	1	NR
365	0	NR	495	160	NR	625	793	NR	755	25	NR	885	0	NR
370	0	NR	500	225	NR	630	739	NR	760	22	NR	890	0	NR
375	0	NR	505	308	NR	635	681	NR	765	19	NR	895	0	NR
380	0	NR	510	392	NR	640	623	NR	770	16	NR	900	0	NR
385	0	NR	515	474	NR	645	563	NR	775	14	NR	905	0	NR
390	0	NR	520	545	NR	650	506	NR	780	12	NR	910	0	NR
395	1	NR	525	603	NR	655	451	NR	785	10	NR	915	0	NR
400	3	NR	530	649	NR	660	399	NR	790	9	NR	920	0	NR
405	5	NR	535	687	NR	665	352	NR	795	8	NR	925	0	NR
410	11	NR	540	721	NR	670	307	NR	800	6	NR	930	0	NR
415	21	NR	545	751	NR	675	268	NR	805	6	NR	935	0	NR
420	43	NR	550	779	NR	680	234	NR	810	5	NR	940	0	NR
425	88	NR	555	811	NR	685	203	NR	815	4	NR	945	0	NR
430	163	NR	560	843	NR	690	176	NR	820	4	NR	950	0	NR
435	288	NR	565	873	NR	695	152	NR	825	3	NR	955	0	NR
440	416	NR	570	907	NR	700	131	NR	830	3	NR	960	0	NR
445	566	NR	575	938	NR	705	112	NR	835	3	NR	965	0	NR
450	810	NR	580	965	NR	710	96	NR	840	2	NR	970	0	NR
455	669	NR	585	986	NR	715	81	NR	845	2	NR	975	0	NR
460	338	NR	590	997	NR	720	69	NR	850	2	NR	980	0	NR
465	246	NR	595	997	NR	725	58	NR	855	1	NR	985	0	NR
470	182	NR	600	991	NR	730	49	NR	860	1	NR	990	0	NR
475	115	NR	605	968	NR	735	42	NR	865	1	NR	995	0	NR
480	97	NR	610	939	NR	740	37	NR	870	1	NR	1000	0	NR
485	103	NR	615	896	NR	745	32	NR	875	1	NR			

REPORT NUMBER: SP1-2411-284-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.47**

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	846	NR	750	28	NR	880	1	NR
365	0	NR	495	160	NR	625	793	NR	755	25	NR	885	0	NR
370	0	NR	500	225	NR	630	739	NR	760	22	NR	890	0	NR
375	0	NR	505	308	NR	635	681	NR	765	19	NR	895	0	NR
380	0	NR	510	392	NR	640	623	NR	770	16	NR	900	0	NR
385	0	NR	515	474	NR	645	563	NR	775	14	NR	905	0	NR
390	0	NR	520	545	NR	650	506	NR	780	12	NR	910	0	NR
395	1	NR	525	603	NR	655	451	NR	785	10	NR	915	0	NR
400	3	NR	530	649	NR	660	399	NR	790	9	NR	920	0	NR
405	5	NR	535	687	NR	665	352	NR	795	8	NR	925	0	NR
410	11	NR	540	721	NR	670	307	NR	800	6	NR	930	0	NR
415	21	NR	545	751	NR	675	268	NR	805	6	NR	935	0	NR
420	43	NR	550	779	NR	680	234	NR	810	5	NR	940	0	NR
425	88	NR	555	811	NR	685	203	NR	815	4	NR	945	0	NR
430	163	NR	560	843	NR	690	176	NR	820	4	NR	950	0	NR
435	288	NR	565	873	NR	695	152	NR	825	3	NR	955	0	NR
440	416	NR	570	907	NR	700	131	NR	830	3	NR	960	0	NR
445	566	NR	575	938	NR	705	112	NR	835	3	NR	965	0	NR
450	810	NR	580	965	NR	710	96	NR	840	2	NR	970	0	NR
455	669	NR	585	986	NR	715	81	NR	845	2	NR	975	0	NR
460	338	NR	590	997	NR	720	69	NR	850	2	NR	980	0	NR
465	246	NR	595	997	NR	725	58	NR	855	1	NR	985	0	NR
470	182	NR	600	991	NR	730	49	NR	860	1	NR	990	0	NR
475	115	NR	605	968	NR	735	42	NR	865	1	NR	995	0	NR
480	97	NR	610	939	NR	740	37	NR	870	1	NR	1000	0	NR
485	103	NR	615	896	NR	745	32	NR	875	1	NR			

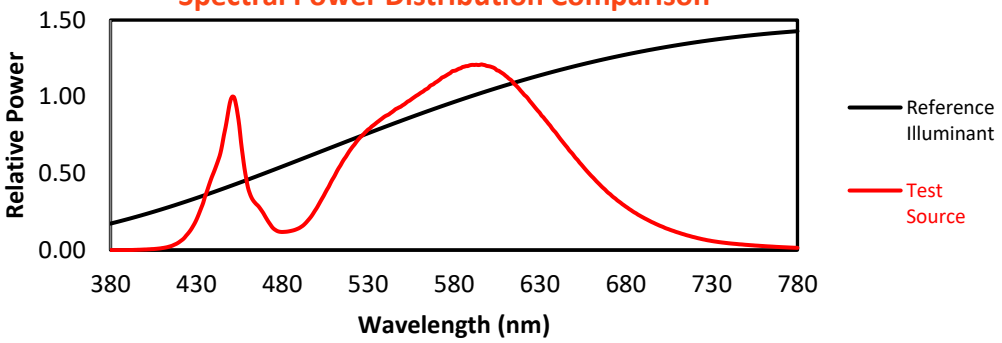
REPORT NUMBER: SP1-2411-284-1

TM-30-18

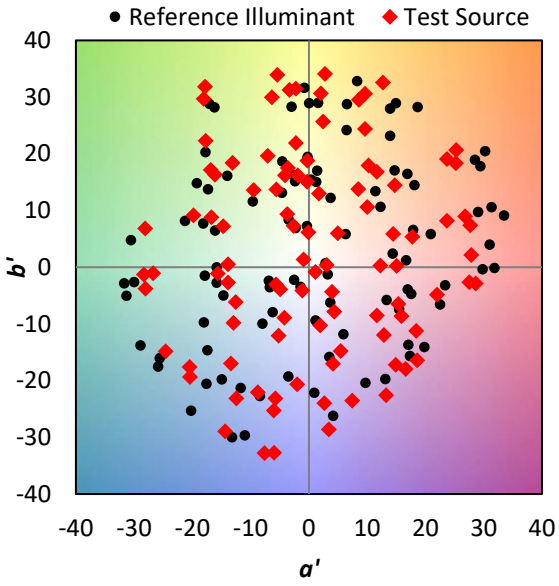
Summary

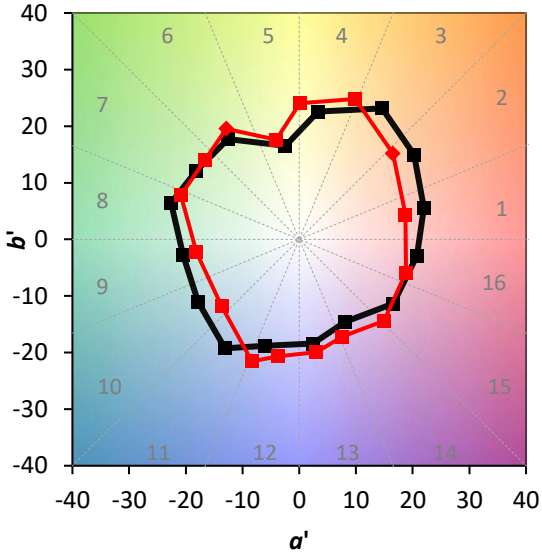
R_f = 76.6
R_g = 95.4
CIE R_a = 73.9
R_9 = -18.0

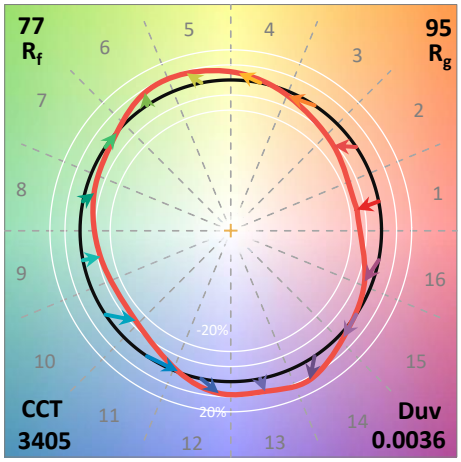
Spectral Power Distribution Comparison

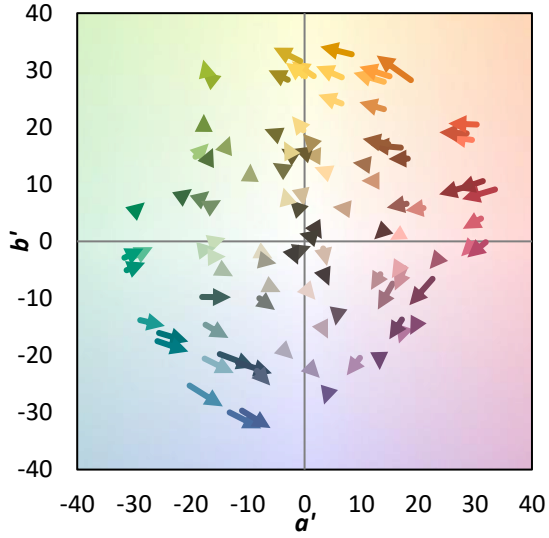


Color Vector Graphics







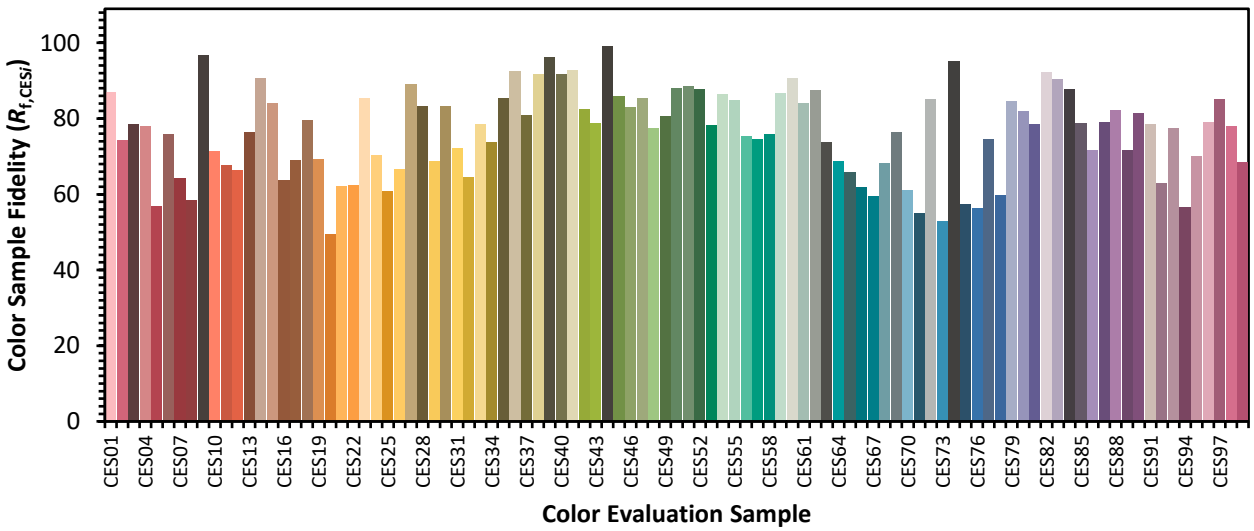


REPORT NUMBER: SP1-2411-284-1

TM-30-18

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

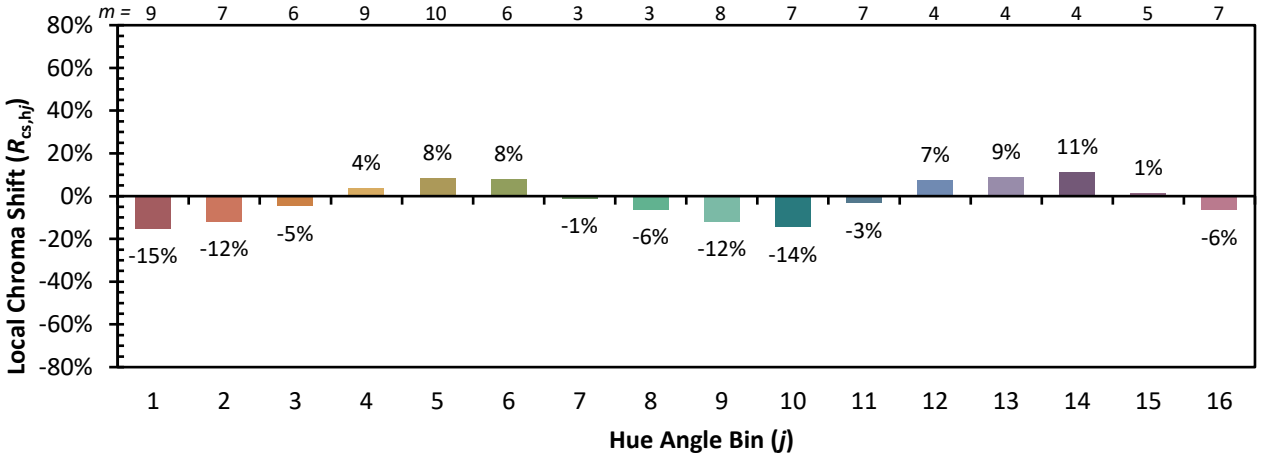
CES01 = 86	CES26 = 67	CES51 = 88	CES76 = 56
CES02 = 62	CES27 = 89	CES52 = 88	CES77 = 75
CES03 = 31	CES28 = 83	CES53 = 78	CES78 = 60
CES04 = 70	CES29 = 69	CES54 = 86	CES79 = 85
CES05 = 48	CES30 = 83	CES55 = 85	CES80 = 82
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 78
CES07 = 41	CES32 = 65	CES57 = 75	CES82 = 92
CES08 = 40	CES33 = 78	CES58 = 76	CES83 = 90
CES09 = 29	CES34 = 74	CES59 = 87	CES84 = 88
CES10 = 75	CES35 = 86	CES60 = 91	CES85 = 79
CES11 = 58	CES36 = 93	CES61 = 84	CES86 = 72
CES12 = 64	CES37 = 81	CES62 = 88	CES87 = 79
CES13 = 43	CES38 = 92	CES63 = 74	CES88 = 82
CES14 = 74	CES39 = 96	CES64 = 69	CES89 = 72
CES15 = 71	CES40 = 92	CES65 = 66	CES90 = 82
CES16 = 47	CES41 = 93	CES66 = 62	CES91 = 79
CES17 = 50	CES42 = 83	CES67 = 60	CES92 = 63
CES18 = 56	CES43 = 79	CES68 = 68	CES93 = 77
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 56
CES20 = 65	CES45 = 86	CES70 = 61	CES95 = 70
CES21 = 86	CES46 = 83	CES71 = 55	CES96 = 79
CES22 = 79	CES47 = 85	CES72 = 85	CES97 = 85
CES23 = 92	CES48 = 78	CES73 = 53	CES98 = 78
CES24 = 91	CES49 = 81	CES74 = 95	CES99 = 68
CES25 = 72	CES50 = 88	CES75 = 57	

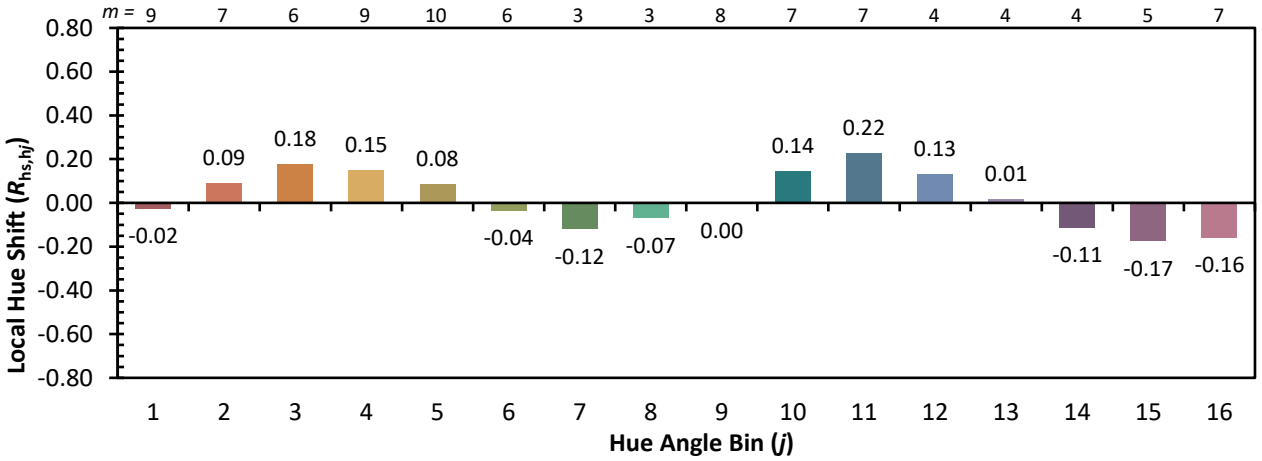


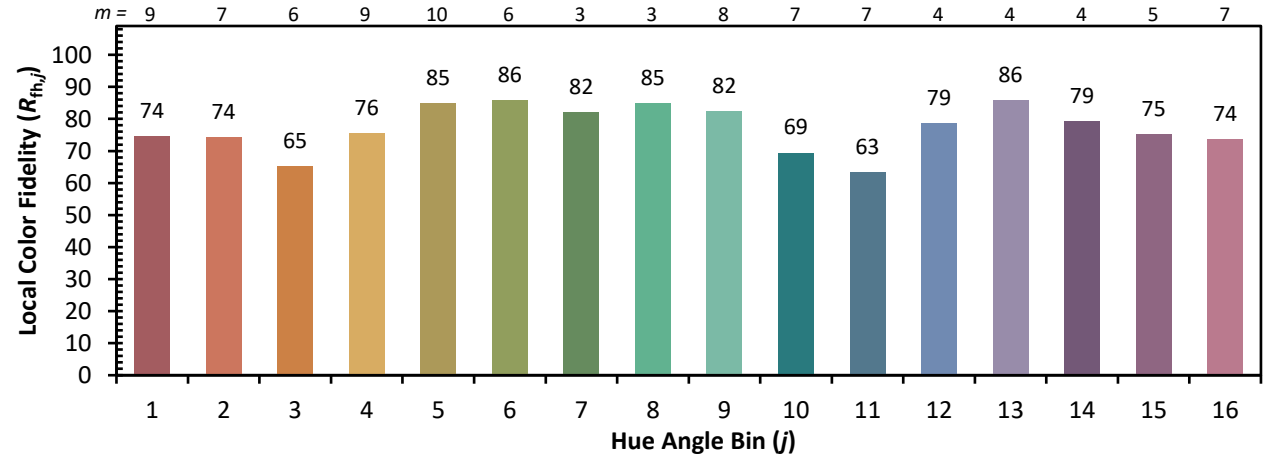
REPORT NUMBER: SP1-2411-284-1

TM-30-18

Color Rendition by Hue-Angle Bin



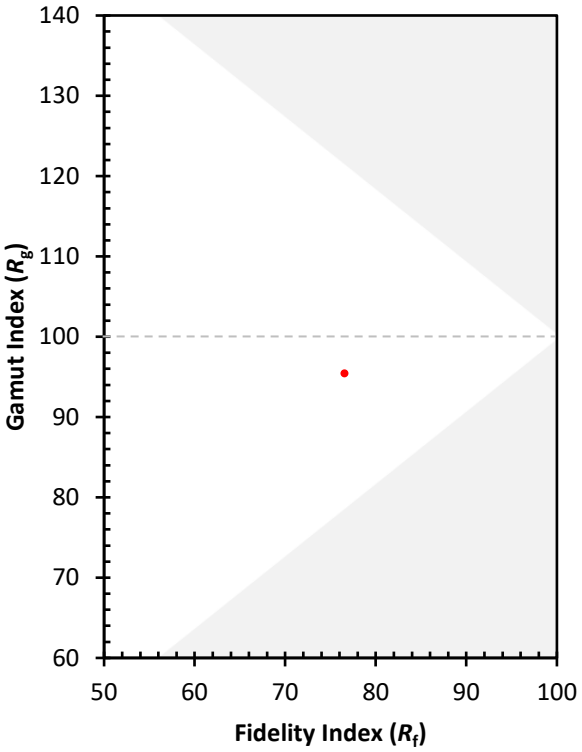


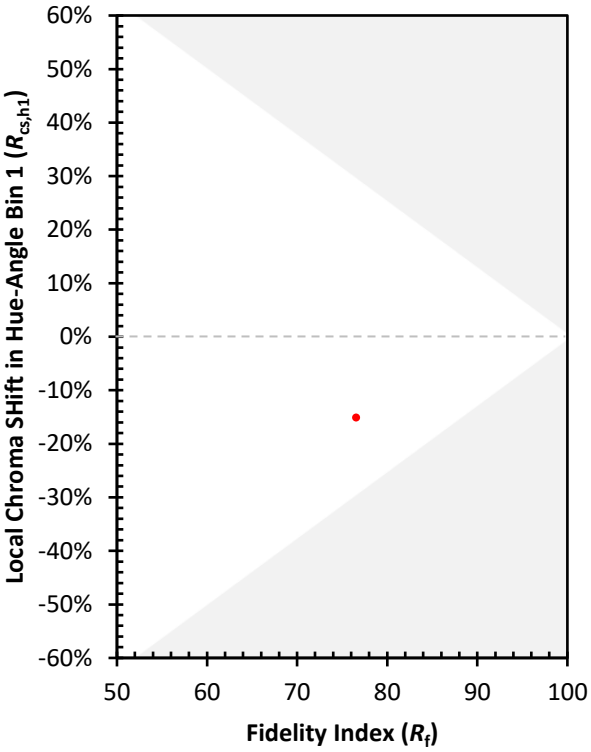


REPORT NUMBER: SP1-2411-284-1

TM-30-18

Measure Comparisons





(END OF REPORT)