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: P438631

Luminaire Tested: **IST-SA1D-830-U-T4FT**

Issue Date: 12/10/2020

Report Generated By 670245982

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:	P438631
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-074-10)
Test Lab:	INNOVATION CENTER
Issue Date:	12/10/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	IST-SA1D-830-U-T4FT
Description:	IMPACT ELITE LED TRAPEZOID LUMINAIRE
	(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD THROW OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4539 lumens
Efficiency:	N/A
Efficacy:	100.4 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	45.2
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:	28.75 FT

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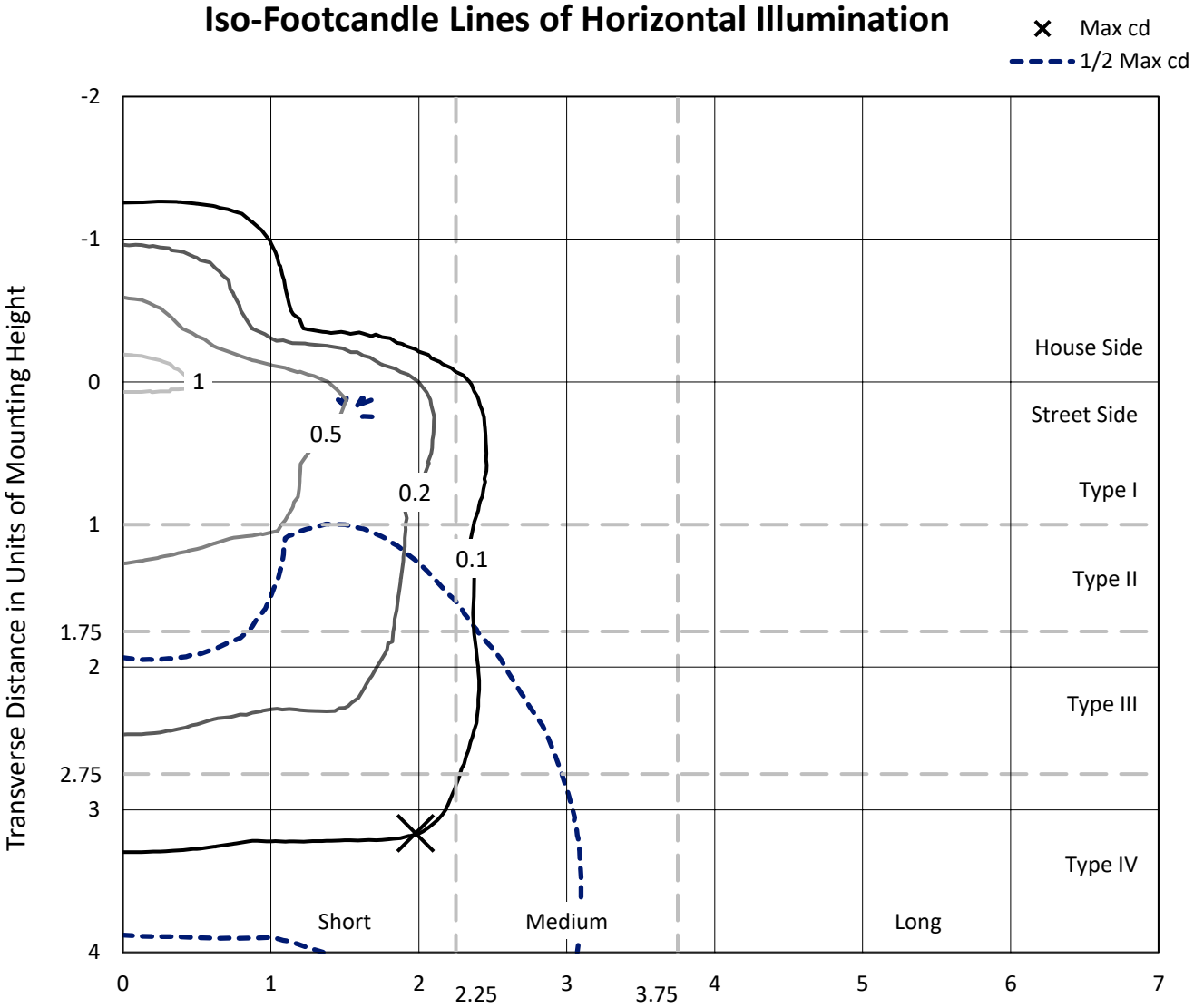
REPORT NUMBER: P438631
CATALOG NUMBER: IST-SA1D-830-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type IV - Short - N/A

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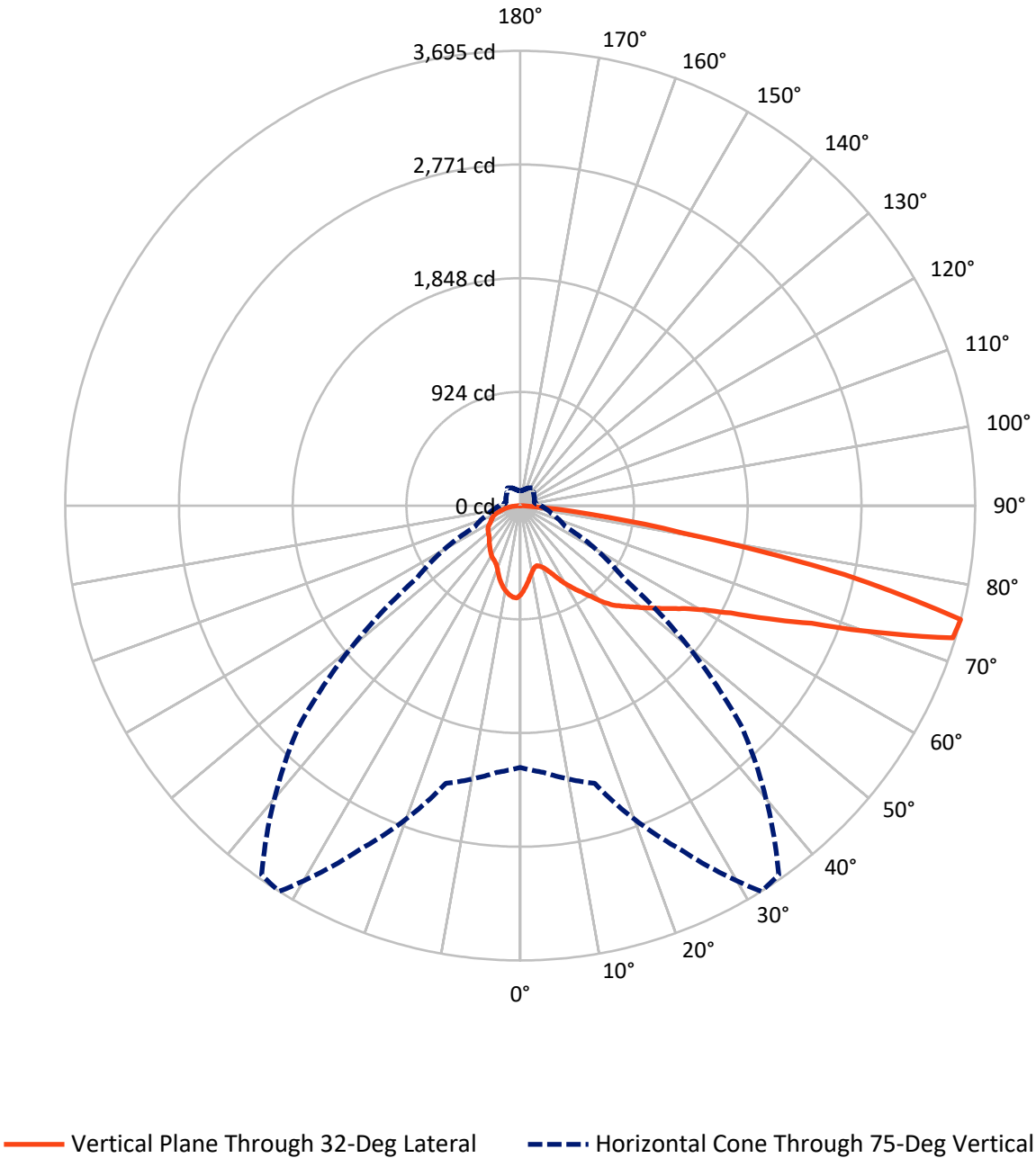
Luminous Intensity Polar Plot



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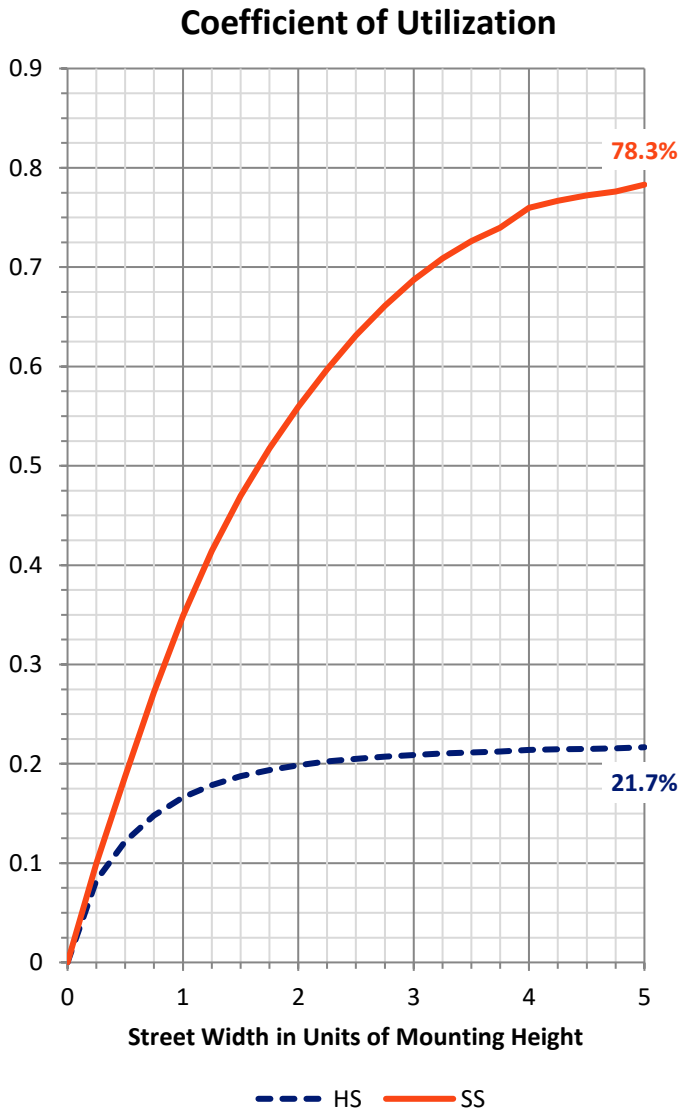
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	994.5	0.0	994.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3544.5	0.0	3544.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	4539.0	0.0	4539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	1.4
10°-20°	179.4	4.0
20°-30°	296.8	6.5
30°-40°	442.4	9.7
40°-50°	629.9	13.9
50°-60°	866.6	19.1
60°-70°	1092.1	24.1
70°-80°	882.8	19.5
80°-90°	83.4	1.8
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°	4539.0	100.0
0°-180°	4539.0	100.0



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REPORT NUMBER: P438631
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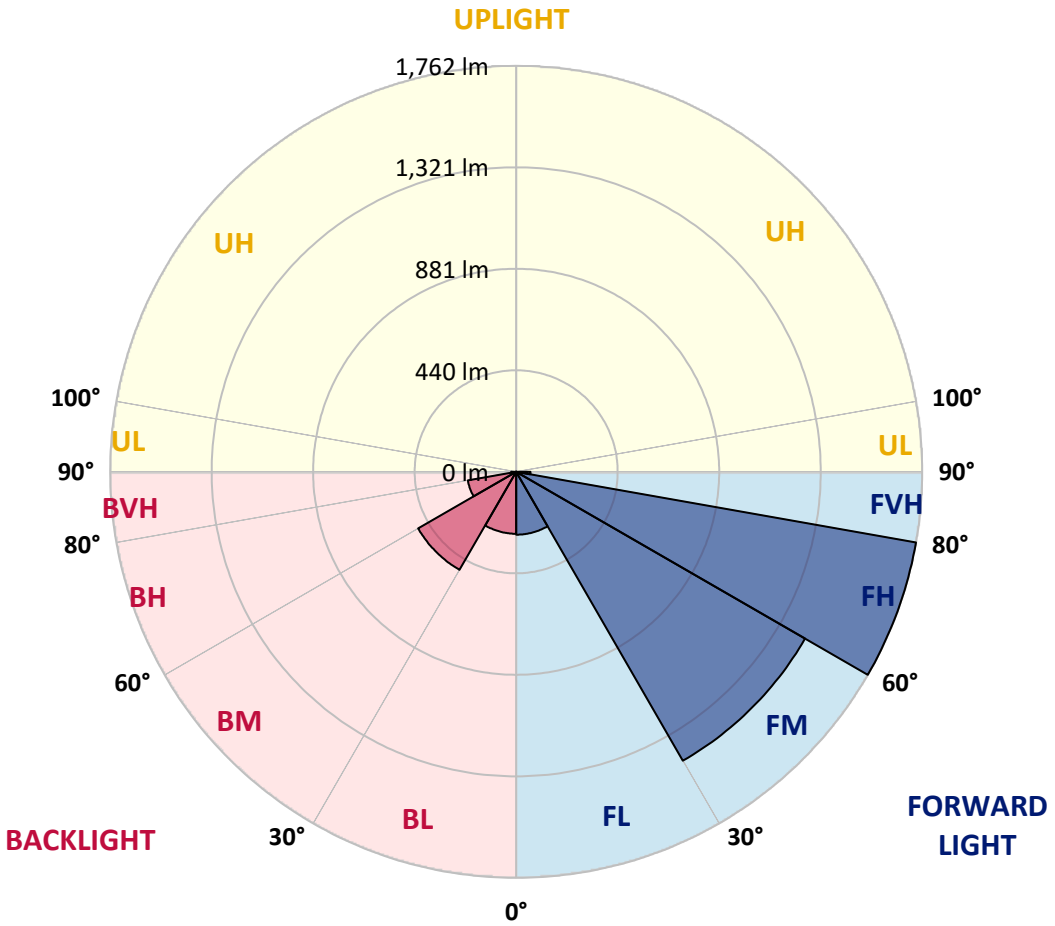
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	272.9	6.0			
FM	(30°-60°)	1447.6	31.9			
FH	(60°-80°)	1762.0	38.8			G1/1800
FVH	(80°-90°)	62.0	1.4			G1/100
BL	(0°-30°)	268.9	5.9	B1/500		
BM	(30°-60°)	491.3	10.8	B1/1000		
BH	(60°-80°)	213.0	4.7	B1/500		G1/500
BVH	(80°-90°)	21.4	0.5			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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	722.6	722.6	722.6	722.6	*722.6*	722.6	722.6	722.6	722.6	722.6	722.6
2.5°	659.9	664.8	666.5	669.8	*676.4*	673.1	681.3	691.2	704.4	711.0	724.2
5°	603.8	603.8	608.7	617.0	*628.5*	628.5	643.4	661.5	684.6	702.8	725.9
7.5°	554.3	554.3	559.2	569.1	*580.7*	588.9	607.1	635.1	666.5	701.1	730.8
10°	513.1	514.7	518.0	527.9	*542.7*	551.0	577.4	608.7	650.0	694.5	735.8
12.5°	498.2	496.6	494.9	503.2	*514.7*	521.3	551.0	590.6	638.4	692.9	745.7
15°	509.8	506.5	501.5	501.5	*506.5*	509.8	534.5	575.7	628.5	691.2	757.2
17.5°	539.4	536.1	524.6	513.1	*516.4*	518.0	534.5	567.5	623.6	697.8	773.7
20°	580.7	575.7	555.9	541.1	*537.8*	537.8	547.7	572.4	626.9	711.0	795.1
22.5°	630.2	625.2	602.1	575.7	*572.4*	570.8	575.7	592.2	636.8	725.9	828.1
25°	696.2	691.2	663.2	630.2	*618.6*	617.0	612.0	621.9	653.3	745.7	851.2
27.5°	767.1	768.8	735.8	691.2	*679.7*	674.7	661.5	659.9	673.1	762.2	890.8
30°	833.1	829.8	795.1	758.9	*742.4*	735.8	714.3	704.4	696.2	786.9	937.0
32.5°	864.4	869.4	852.9	818.2	*805.0*	793.5	768.8	752.3	740.7	824.8	993.1
35°	917.2	918.9	912.3	890.8	*864.4*	856.2	833.1	821.5	796.8	871.0	1060.7
37.5°	970.0	975.0	973.3	960.1	*937.0*	928.8	909.0	904.0	854.5	928.8	1144.9
40°	1049.2	1041.0	1029.4	1034.4	*1026.1*	1021.2	1012.9	996.4	935.4	991.5	1227.4
42.5°	1135.0	1120.1	1078.9	1092.1	*1103.6*	1108.6	1120.1	1102.0	1019.5	1085.5	1295.0
45°	1204.3	1192.7	1138.3	1141.6	*1164.7*	1181.2	1235.6	1225.7	1128.4	1187.8	1385.7
47.5°	1243.9	1234.0	1196.0	1212.5	*1227.4*	1250.5	1356.0	1347.8	1230.7	1298.3	1494.6
50°	1300.0	1283.5	1247.2	1276.9	*1303.3*	1321.4	1473.2	1469.9	1318.1	1412.1	1618.3
52.5°	1331.3	1314.8	1311.5	1352.7	*1384.1*	1408.8	1598.5	1588.6	1403.9	1526.0	1735.5
55°	1374.2	1377.5	1398.9	1430.3	*1474.8*	1516.1	1720.6	1671.1	1483.1	1638.1	1850.9
57.5°	1468.2	1464.9	1506.2	1521.0	*1578.7*	1631.5	1865.8	1758.6	1549.1	1719.0	1905.4
60°	1593.6	1600.2	1615.0	1653.0	*1715.7*	1796.5	2006.0	1849.3	1591.9	1776.7	1895.5
62.5°	1831.2	1793.2	1786.6	1796.5	*1920.2*	2014.3	2142.9	1930.1	1610.1	1778.4	1791.6
65°	2072.0	2057.2	2006.0	2030.8	*2210.6*	2296.4	2319.5	1982.9	1573.8	1676.1	1560.6
67.5°	2321.1	2319.5	2265.0	2336.0	*2552.1*	2652.7	2515.8	1973.0	1455.0	1436.9	1199.3
70°	2576.8	2588.4	2588.4	2789.6	*3084.9*	3111.3	2735.2	1879.0	1219.1	1017.9	701.1
72.5°	2689.0	2695.6	2755.0	3202.0	*3673.9*	3682.1	2860.6	1595.2	831.4	542.7	353.0
75°	*2126.4*	*2175.9*	*2336.0*	*3083.3*	*3695.3*	*3662.3*	*2548.8*	*1021.2*	*405.8*	*270.5*	*196.3*
77.5°	834.7	852.9	1177.9	1963.1	*2692.3*	2725.3	1649.7	407.5	206.2	171.6	141.9
80°	235.9	247.5	417.4	780.3	*1329.6*	1469.9	656.6	176.5	138.6	125.4	102.3
82.5°	84.1	95.7	155.1	298.6	*567.5*	598.8	178.2	87.4	89.1	80.8	62.7
85°	11.5	9.9	21.4	54.4	*125.4*	105.6	29.7	23.1	36.3	37.9	26.4
87.5°	0.0	0.0	0.0	1.6	*1.6*	1.6	0.0	0.0	0.0	1.6	1.6
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: P438631
CATALOG NUMBER: IST-SA1D-830-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6
2.5°	727.5	730.8	737.4	740.7	744.0	750.6	749.0	752.3	752.3	750.6	753.9
5°	734.1	742.4	750.6	753.9	755.6	755.6	747.3	742.4	740.7	739.1	740.7
7.5°	740.7	752.3	760.5	758.9	752.3	740.7	730.8	722.6	714.3	711.0	714.3
10°	752.3	763.8	768.8	757.2	739.1	720.9	706.1	694.5	681.3	679.7	681.3
12.5°	762.2	777.0	777.0	750.6	725.9	701.1	678.0	659.9	643.4	638.4	638.4
15°	778.7	790.2	778.7	742.4	707.7	676.4	643.4	620.3	600.5	592.2	593.9
17.5°	796.8	805.0	775.4	729.2	687.9	646.7	603.8	572.4	557.6	549.3	551.0
20°	818.2	819.9	775.4	712.7	658.2	603.8	557.6	534.5	524.6	519.7	521.3
22.5°	846.3	839.7	770.4	691.2	620.3	560.9	518.0	511.4	511.4	511.4	516.4
25°	876.0	857.8	762.2	663.2	570.8	509.8	493.3	501.5	508.1	508.1	511.4
27.5°	905.7	876.0	745.7	621.9	513.1	473.5	480.1	493.3	499.9	499.9	503.2
30°	942.0	897.4	725.9	565.8	458.6	448.7	465.2	481.7	491.6	491.6	494.9
32.5°	988.2	915.6	696.2	508.1	422.3	427.3	445.4	463.6	475.1	478.4	480.1
35°	1039.3	940.3	654.9	443.8	397.6	410.8	425.6	442.1	452.0	455.3	455.3
37.5°	1092.1	965.1	600.5	389.3	376.1	394.3	409.1	417.4	424.0	424.0	424.0
40°	1144.9	978.3	529.5	346.4	354.7	381.1	394.3	391.0	389.3	384.4	386.0
42.5°	1199.3	988.2	453.7	315.1	333.2	366.2	376.1	367.9	354.7	346.4	348.1
45°	1258.7	1003.0	391.0	292.0	311.8	353.0	362.9	346.4	329.9	316.7	313.4
47.5°	1326.3	1027.8	334.9	270.5	298.6	344.8	354.7	331.6	310.1	292.0	288.7
50°	1418.7	1065.7	292.0	255.7	290.3	339.8	348.1	318.4	293.6	270.5	268.9
52.5°	1512.8	1093.7	262.3	242.5	280.4	329.9	339.8	308.5	278.8	254.1	250.8
55°	1582.0	1090.4	235.9	229.3	267.2	316.7	331.6	296.9	259.0	235.9	232.6
57.5°	1611.7	1022.8	214.5	217.8	252.4	300.2	318.4	278.8	244.2	224.4	222.7
60°	1560.6	913.9	199.6	204.6	235.9	278.8	293.6	265.6	234.3	216.1	214.5
62.5°	1471.5	791.8	188.1	194.7	219.4	259.0	278.8	249.1	221.1	207.9	206.2
65°	1260.4	658.2	176.5	183.1	204.6	239.2	265.6	239.2	211.2	198.0	196.3
67.5°	951.9	473.5	165.0	171.6	191.4	224.4	254.1	226.0	196.3	186.4	186.4
70°	567.5	290.3	150.1	160.0	174.9	206.2	235.9	207.9	178.2	174.9	171.6
72.5°	277.1	184.8	136.9	145.2	156.7	183.1	209.5	184.8	155.1	146.8	145.2
75°	*166.6*	*133.6*	*118.8*	*128.7*	*136.9*	*153.4*	*176.5*	*158.4*	*135.3*	*122.1*	*120.4*
77.5°	120.4	100.6	100.6	110.5	110.5	127.0	151.8	135.3	113.8	105.6	103.9
80°	85.8	75.9	82.5	89.1	85.8	107.2	128.7	113.8	92.4	85.8	84.1
82.5°	56.1	52.8	62.7	61.0	61.0	82.5	105.6	85.8	67.6	56.1	52.8
85°	23.1	26.4	36.3	34.6	34.6	46.2	54.4	44.5	31.3	24.7	24.7
87.5°	0.0	1.6	4.9	3.3	3.3	4.9	1.6	1.6	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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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: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

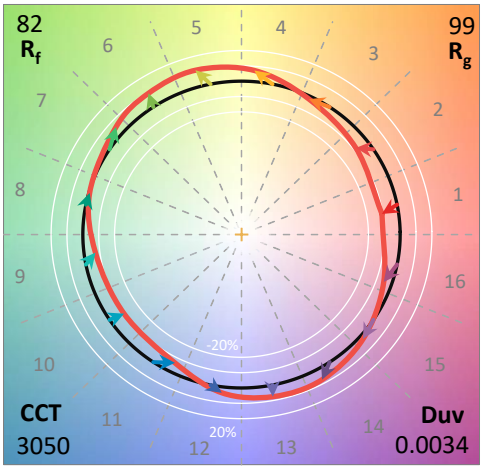
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2408-195-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/07/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**GALN-SB1A-830-U-5WQ**
Description:	GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K):	3050	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				

Rf:	81.5
Rg:	99.2



Test Conditions

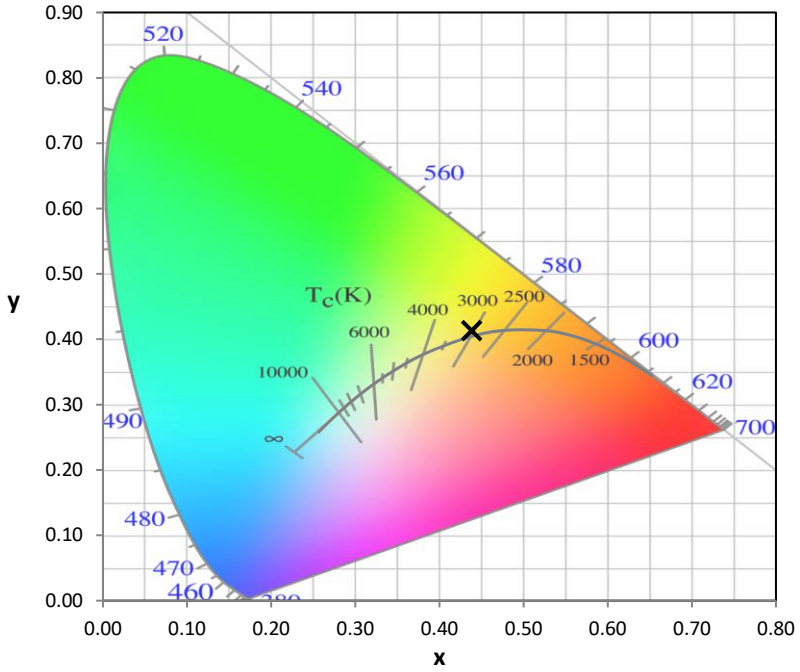
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

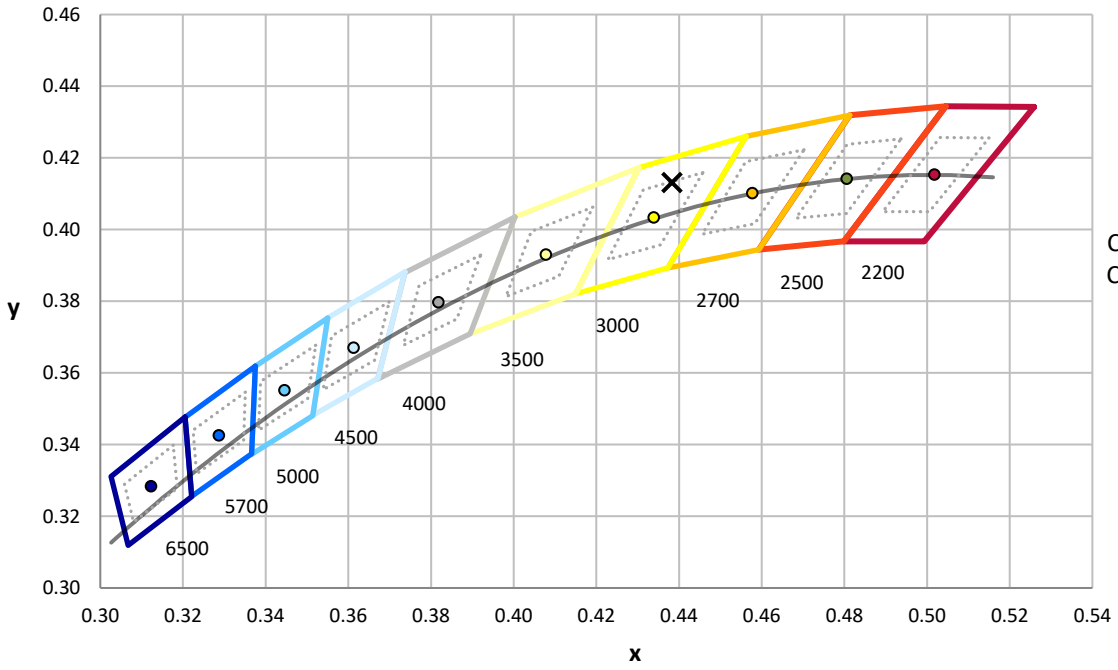
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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

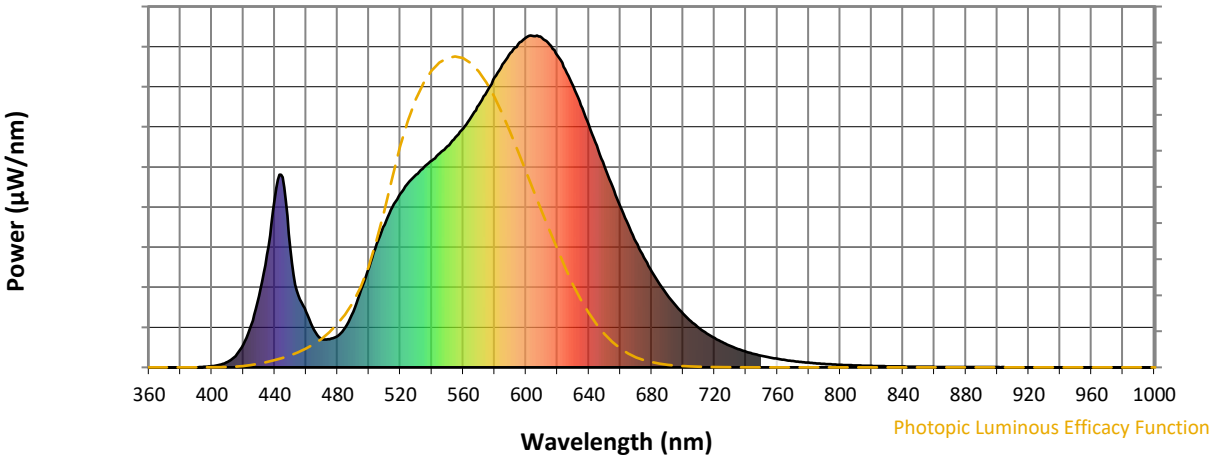


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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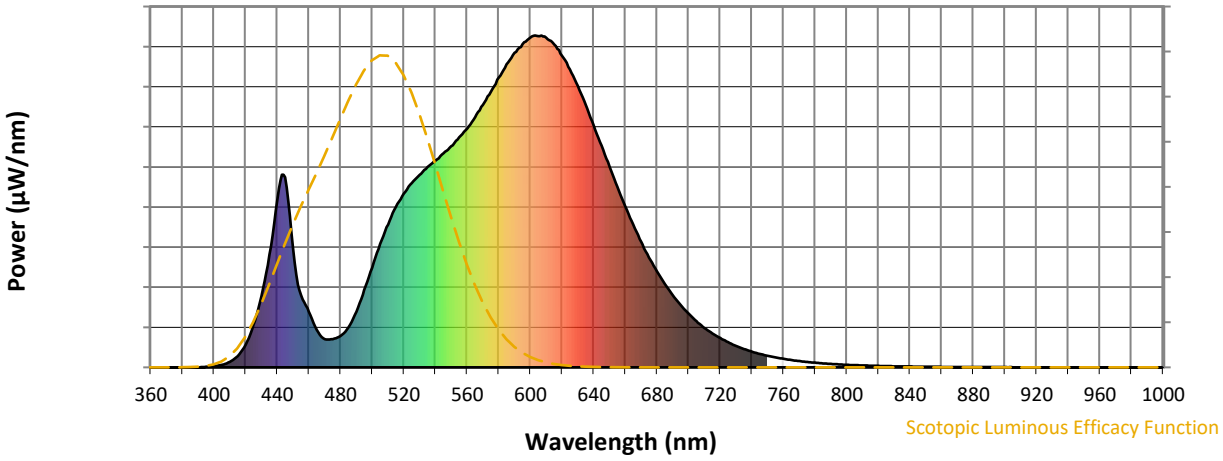
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.27**

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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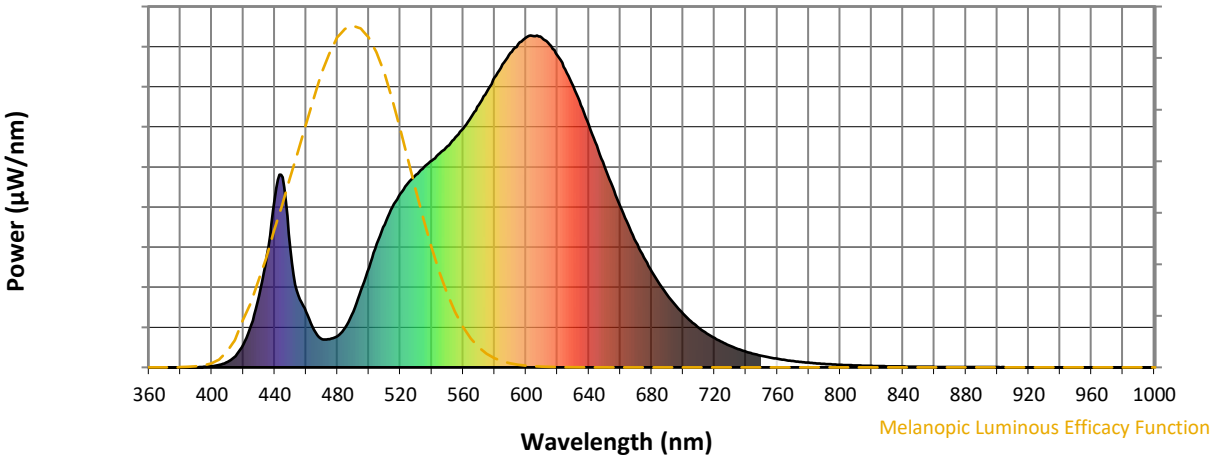
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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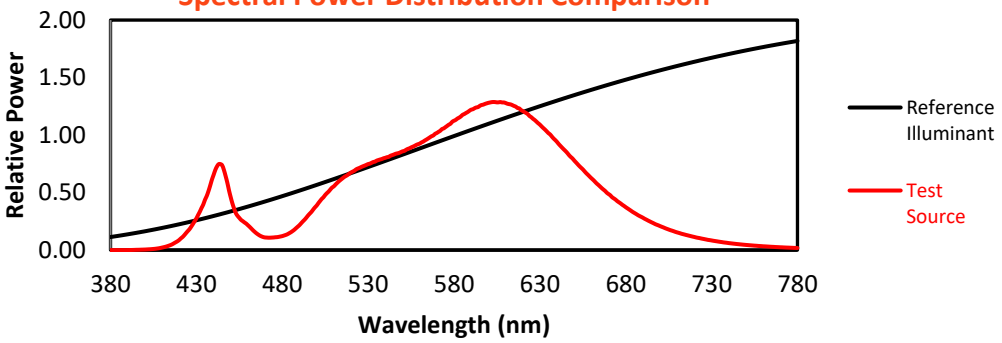
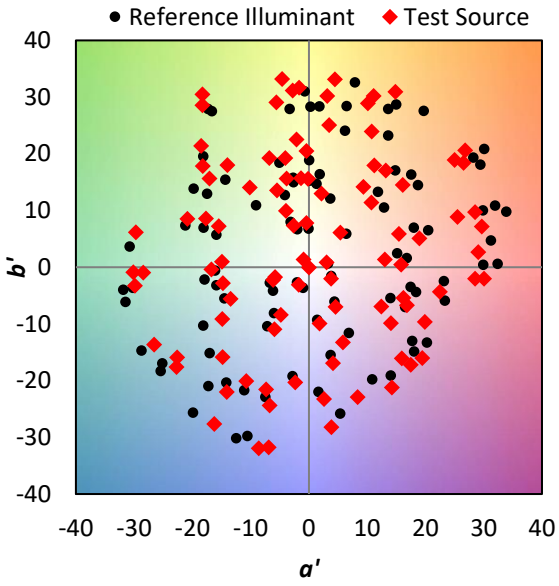
Summary

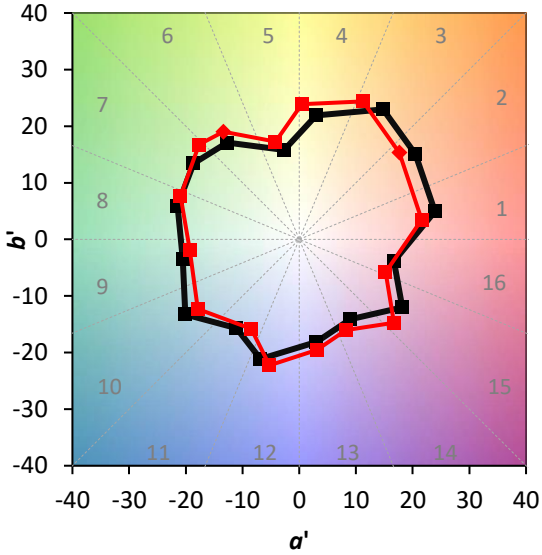
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

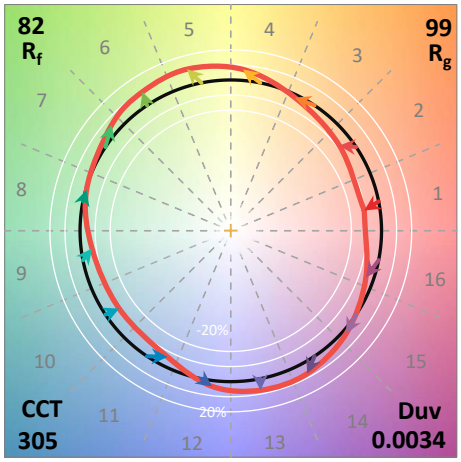
Spectral Power Distribution Comparison

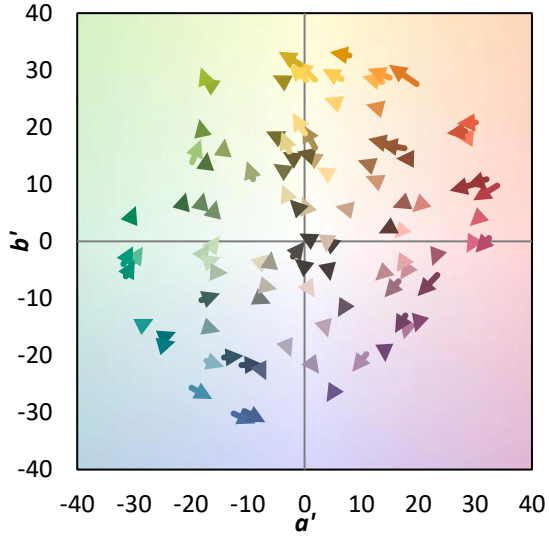


Color Vector Graphics









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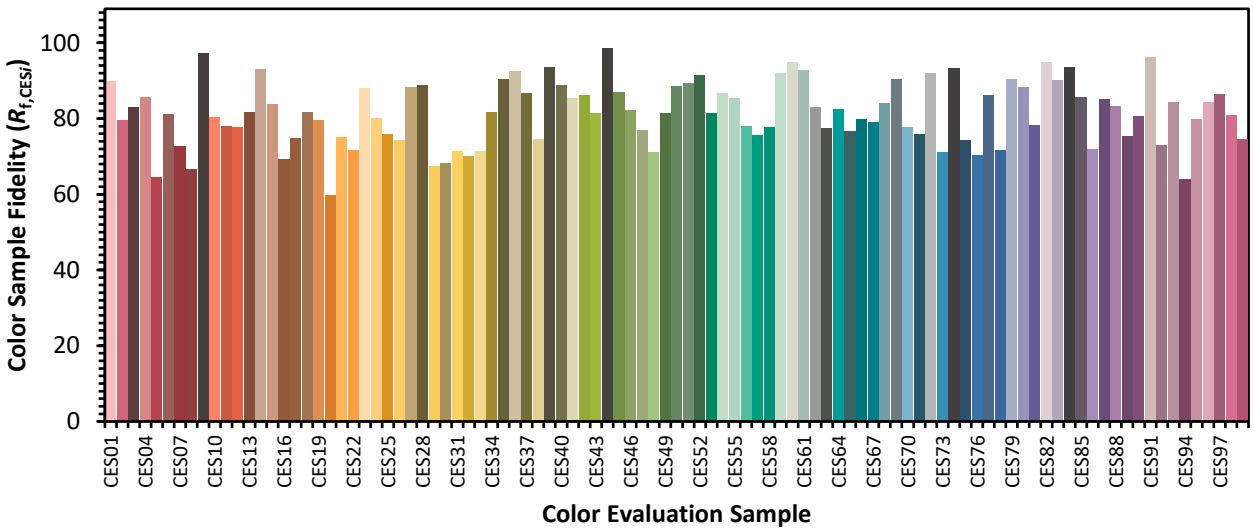
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



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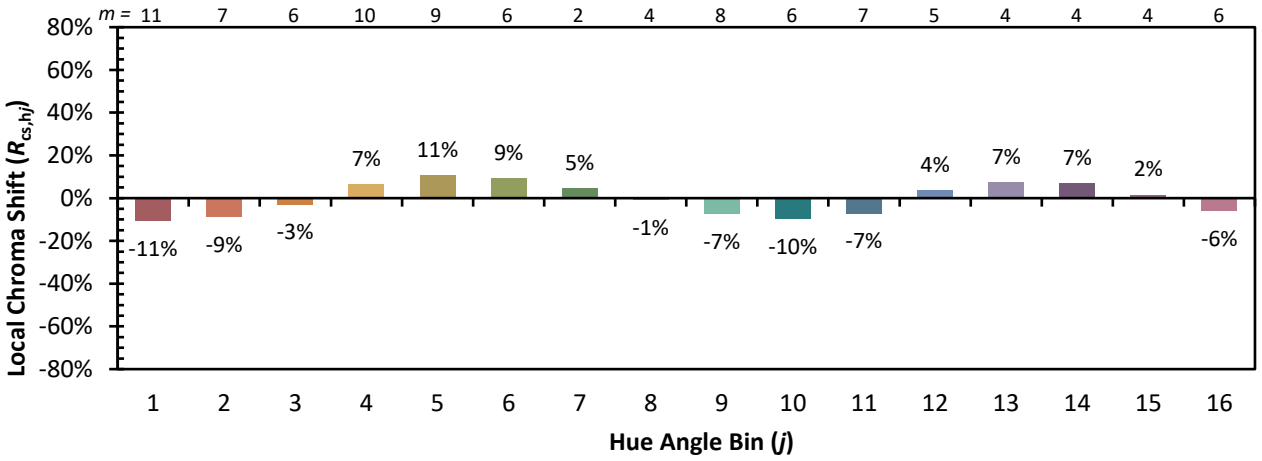
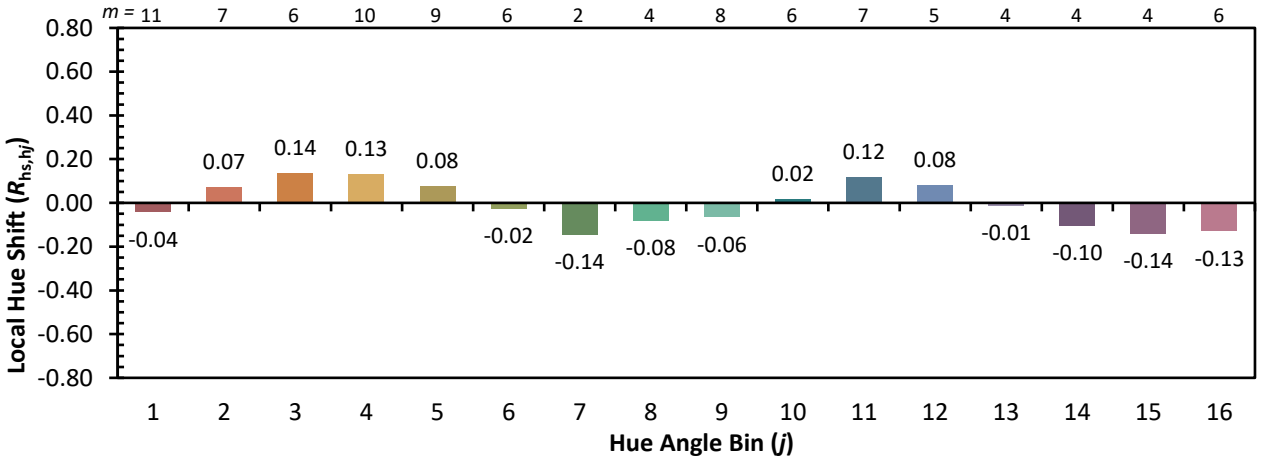
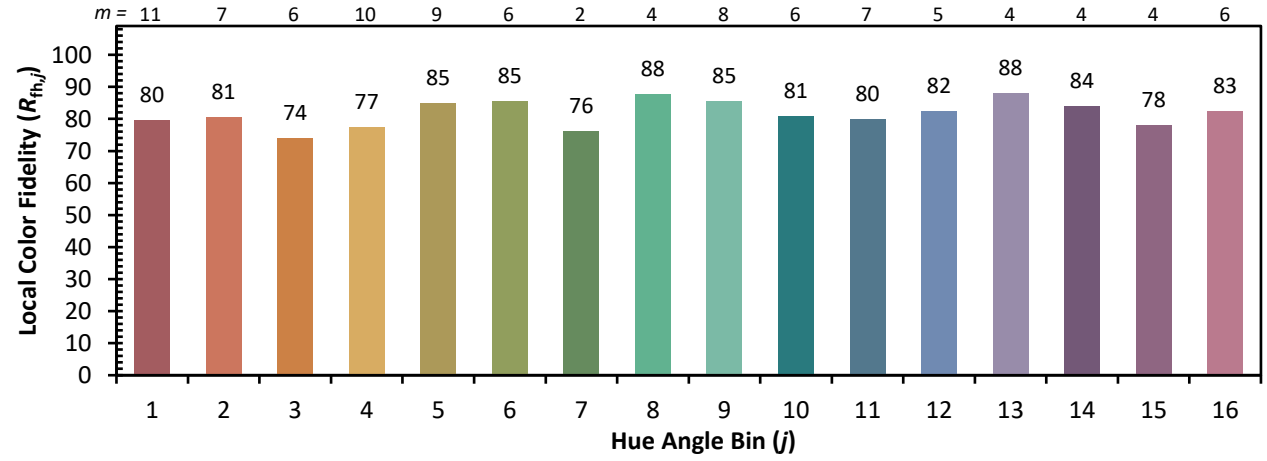
Color Rendition by Hue-Angle Bin







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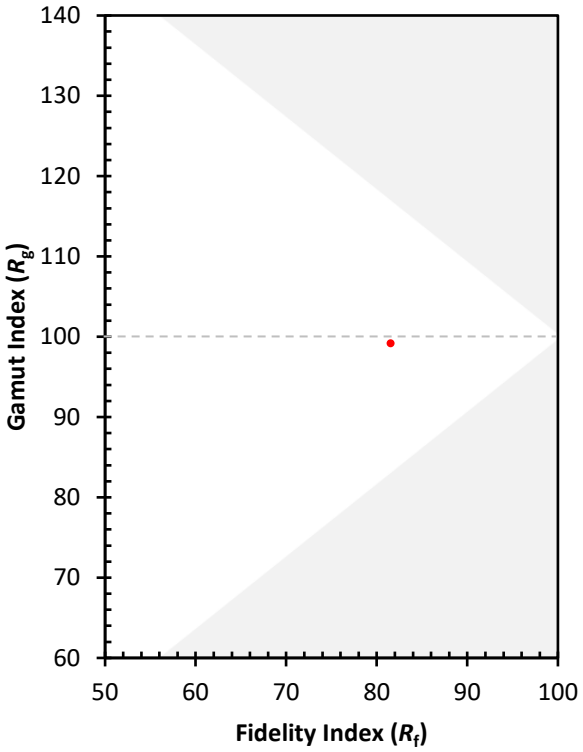
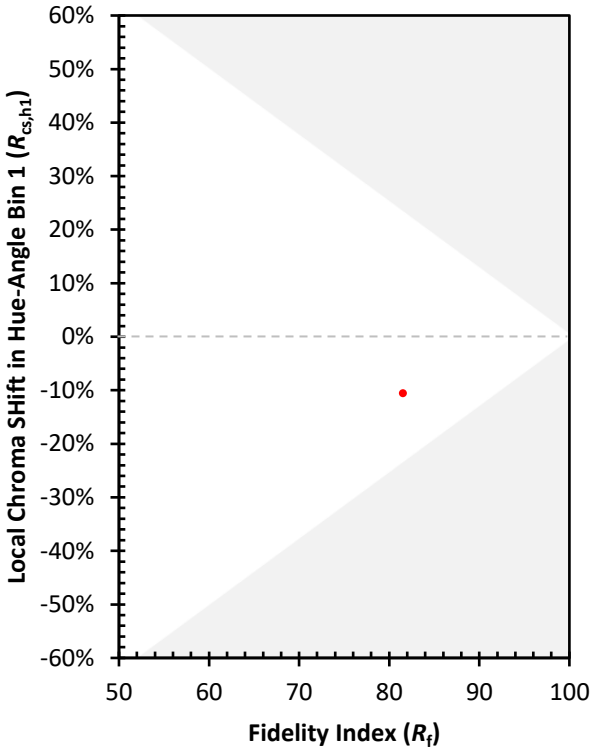
Measure Comparisons





(END OF REPORT)