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: P386290

Luminaire Tested: **GPC-SA1D-830-U-T4FT-HSS**

Issue Date: 3/3/2020

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:	P386290
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GPC-SA1D-830-U-T4FT-HSS
Description:	GALLEON PEDESTRIAN LUMINAIRE
	(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4677 lumens
Efficiency:	N/A
Efficacy:	70.9 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	66
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: P386290
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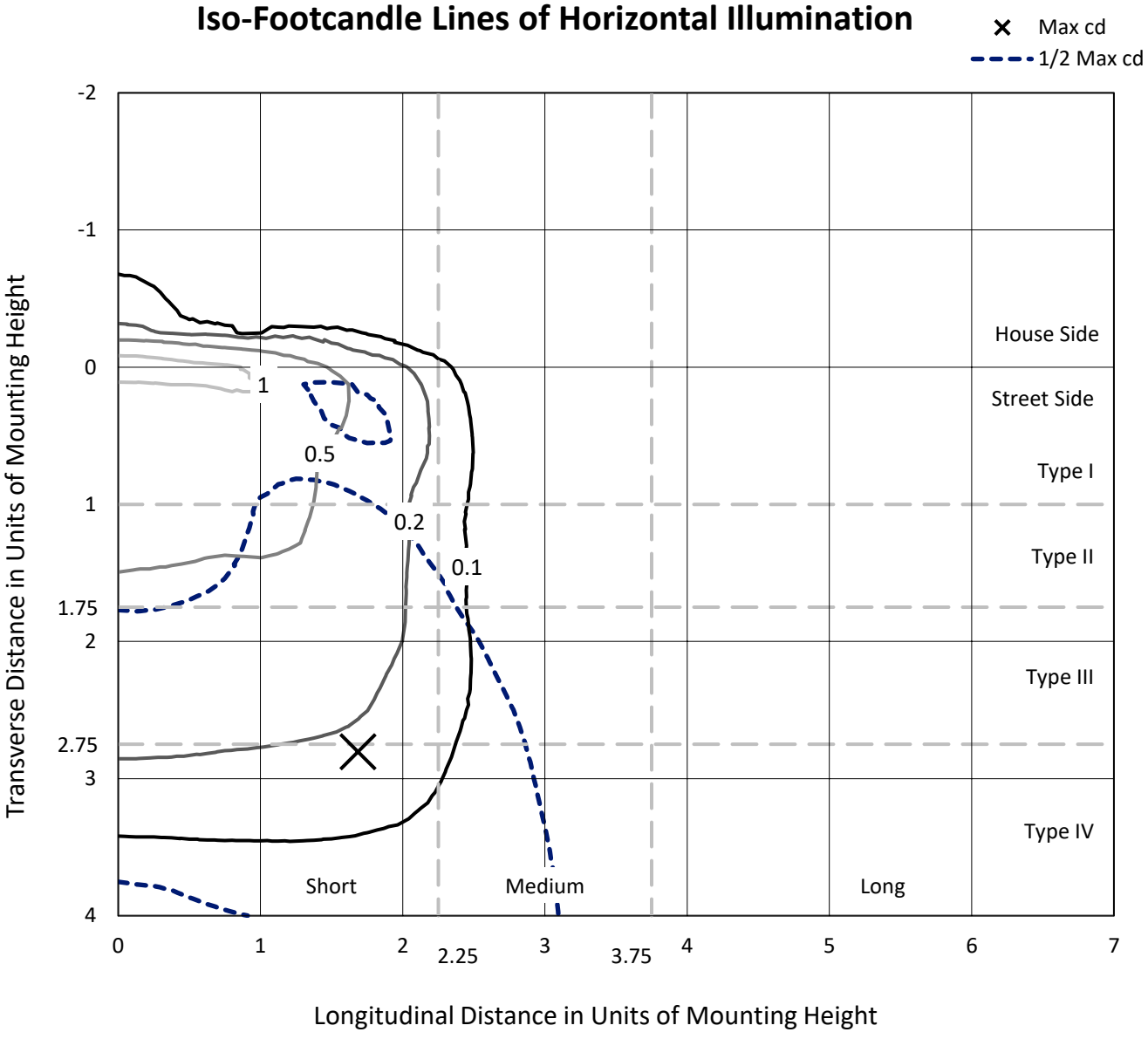
Iso-Footcandle Lines of Horizontal Illumination



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

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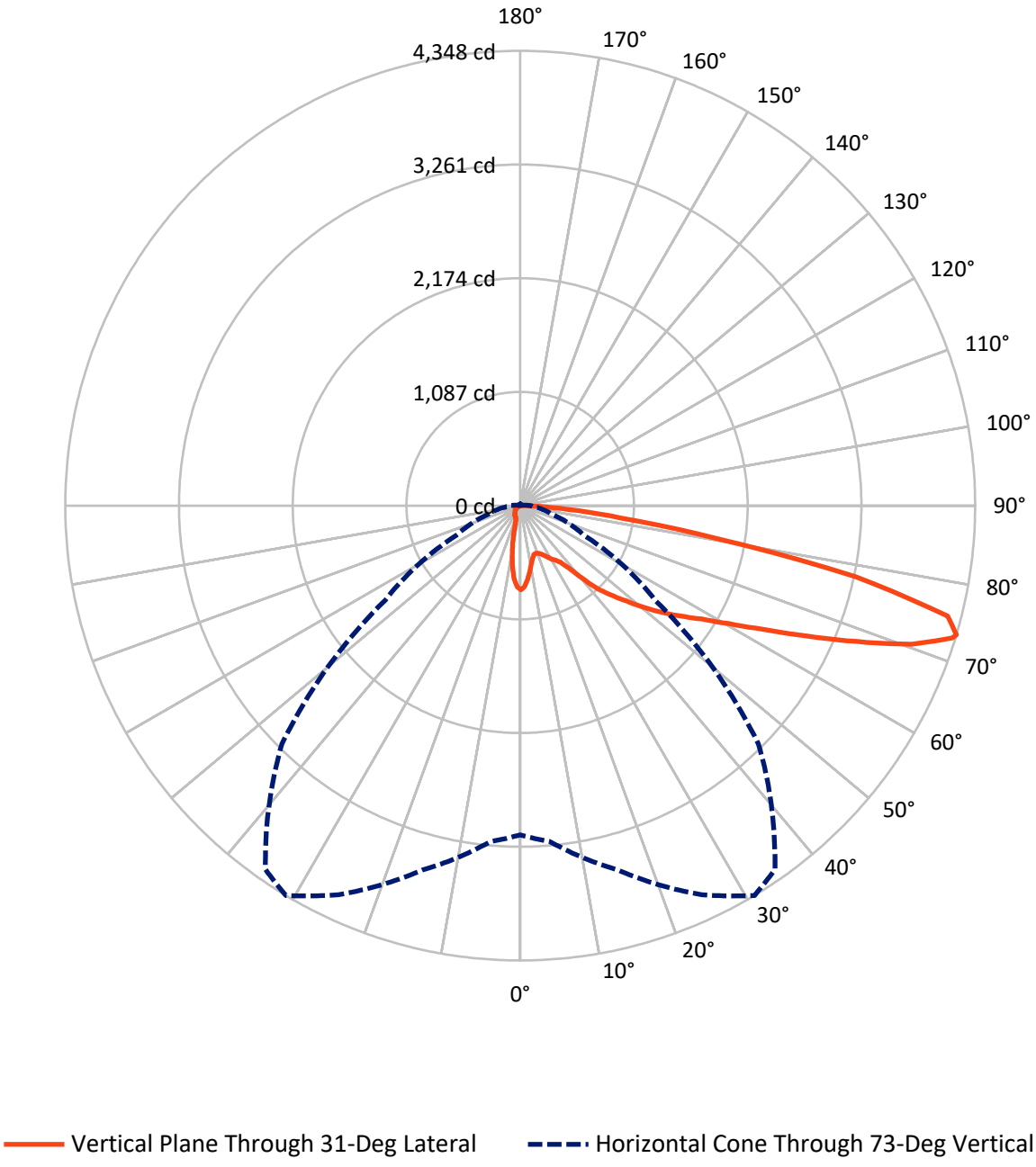
Luminous Intensity Polar Plot



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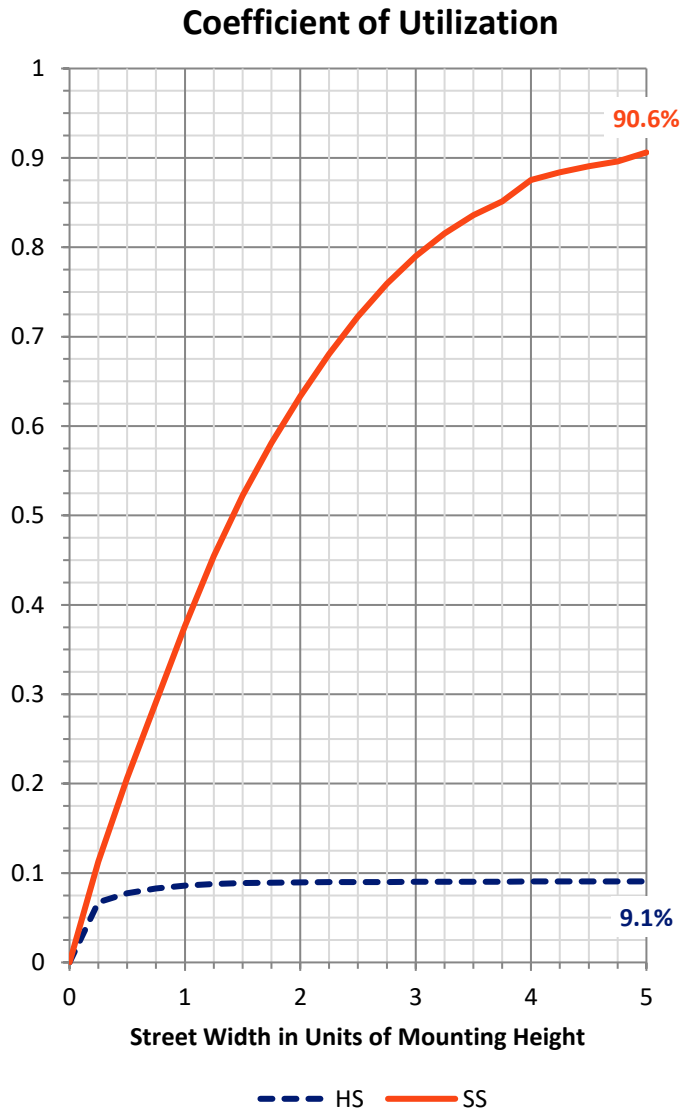
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	426.3	0.0	426.3
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	4250.7	0.0	4250.7
	% Fixture	90.9	0.0	90.9
Total	Lumens	4677.0	0.0	4677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	1.4
10°-20°	144.9	3.1
20°-30°	217.1	4.6
30°-40°	345.3	7.4
40°-50°	616.7	13.2
50°-60°	956.9	20.5
60°-70°	1272.1	27.2
70°-80°	956.8	20.5
80°-90°	100.5	2.1
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°	4677.0	100.0
0°-180°	4677.0	100.0



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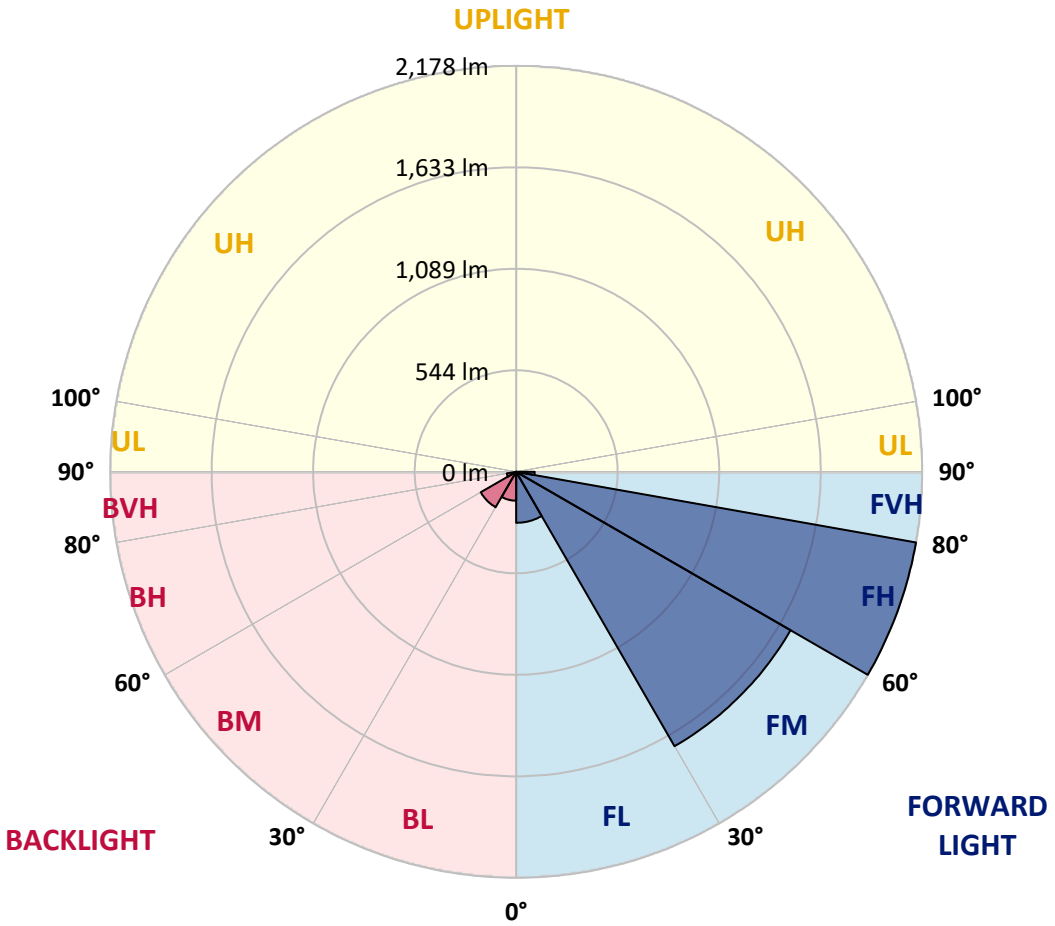
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	273.6	5.9			
FM	(30°-60°)	1699.5	36.3			
FH	(60°-80°)	2177.9	46.6			G2/5000
FVH	(80°-90°)	99.7	2.1			G1/100
BL	(0°-30°)	155.0	3.3	B1/500		
BM	(30°-60°)	219.4	4.7	B0/220		
BH	(60°-80°)	51.0	1.1	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	804.7	804.7	804.7	804.7	804.7	804.7	804.7	804.7	804.7	804.7	804.7
2.5°	762.6	765.8	769.2	769.9	775.6	775.9	784.1	790.3	796.4	802.4	804.5
5°	684.3	689.6	695.7	701.9	714.1	718.9	739.0	759.6	779.3	798.1	807.2
7.5°	600.8	606.7	615.4	630.8	644.3	653.6	685.4	722.1	758.7	793.2	813.2
10°	524.6	530.1	539.2	555.5	576.3	589.1	631.9	682.7	736.5	788.9	822.1
12.5°	476.0	479.0	484.0	501.4	520.2	534.6	585.0	647.9	718.2	788.7	836.5
15°	467.1	468.0	463.9	471.7	486.3	500.3	551.3	619.8	704.2	792.3	855.3
17.5°	481.3	480.8	467.1	466.2	477.9	489.3	534.9	600.3	694.4	800.8	879.5
20°	502.8	501.2	477.4	473.1	485.4	496.2	533.7	593.0	690.7	815.0	909.0
22.5°	531.4	528.7	491.4	486.8	500.1	511.3	547.9	600.1	693.9	834.0	943.4
25°	566.9	562.8	515.4	510.4	523.9	535.1	573.3	620.5	703.5	857.1	986.9
27.5°	606.9	601.0	553.9	540.8	556.1	567.8	607.2	651.6	718.6	881.6	1040.2
30°	644.7	636.9	594.4	572.8	591.6	604.7	643.8	688.7	742.9	919.3	1113.2
32.5°	682.7	674.0	630.5	604.9	621.8	636.0	681.6	739.7	788.4	977.0	1210.2
35°	770.1	761.0	707.6	665.3	665.1	673.1	734.4	809.5	848.6	1057.4	1326.0
37.5°	917.3	912.0	861.2	780.9	759.4	750.4	806.5	892.8	935.1	1167.9	1456.7
40°	1078.4	1073.8	1016.8	944.1	911.3	889.4	910.0	1008.8	1057.4	1302.9	1590.2
42.5°	1260.4	1238.6	1137.0	1115.3	1086.0	1069.3	1050.7	1151.9	1207.5	1449.9	1722.4
45°	1425.6	1389.0	1257.2	1224.2	1217.6	1221.7	1232.0	1344.1	1376.4	1624.5	1854.3
47.5°	1524.0	1495.2	1394.0	1362.4	1360.6	1387.8	1465.6	1561.3	1544.6	1776.7	1970.3
50°	1617.6	1591.5	1507.5	1515.3	1523.8	1560.9	1730.9	1784.7	1698.2	1914.7	2076.7
52.5°	1693.4	1653.5	1609.6	1653.3	1695.0	1754.7	2004.6	1985.2	1807.1	2024.5	2167.8
55°	1737.1	1719.0	1740.3	1784.2	1862.5	1959.5	2263.0	2152.0	1886.8	2124.8	2228.5
57.5°	1897.3	1861.8	1904.2	1942.1	2044.2	2179.9	2484.3	2276.3	1944.2	2186.8	2242.4
60°	2091.1	2062.5	2087.5	2150.6	2288.4	2447.9	2691.2	2377.7	1974.2	2226.6	2206.3
62.5°	2399.6	2361.9	2346.3	2417.0	2599.7	2773.8	2848.2	2447.9	1967.5	2209.0	2082.2
65°	2813.0	2773.8	2704.3	2768.3	3000.6	3123.5	3023.8	2462.8	1921.8	2066.4	1768.7
67.5°	3236.4	3208.0	3148.5	3256.5	3466.2	3505.7	3209.4	2426.6	1774.4	1675.5	1249.6
70°	3516.0	3503.9	3542.6	3781.5	3968.5	3957.1	3379.6	2232.3	1383.0	1030.3	618.2
72.5°	3314.4	3372.5	3658.2	4091.4	4319.8	4226.4	3292.2	1714.2	790.5	396.4	178.7
73°	3147.3	3221.7	3606.2	4103.1	4347.5	4245.2	3218.7	1573.4	673.8	312.9	135.5
75°	2189.5	2280.9	2985.5	3821.3	4218.0	4044.7	2683.0	963.1	312.2	138.7	54.7
77.5°	1063.1	1130.6	1643.9	2761.0	3280.3	3160.2	1670.3	358.9	141.0	86.7	25.2
80°	396.9	441.3	713.6	1405.2	1895.7	1945.3	734.7	135.7	93.8	69.8	12.8
82.5°	103.9	115.8	263.2	626.6	971.5	1016.8	231.6	68.4	68.7	57.4	7.8
85°	33.2	38.0	82.2	281.3	457.7	401.9	60.4	33.2	49.9	42.8	4.3
87.5°	4.1	5.3	26.1	66.1	100.9	56.1	9.4	9.8	21.3	23.8	2.5
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: P386290
CATALOG NUMBER: GPC-SA1D-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	804.7	804.7	804.7	804.7	804.7	804.7	804.7	804.7	804.7	804.7	804.7
2.5°	806.5	805.4	805.6	799.7	795.8	788.0	780.0	776.3	772.4	770.8	772.4
5°	810.6	808.6	802.6	784.3	764.9	739.7	716.1	698.3	675.8	669.7	676.1
7.5°	817.0	812.9	795.5	758.2	715.0	666.9	612.9	573.5	541.3	520.4	528.0
10°	826.4	818.6	783.6	720.2	642.9	557.7	481.1	421.3	379.0	361.6	360.9
12.5°	842.2	827.6	769.0	670.8	554.8	441.3	340.8	276.0	241.7	219.5	219.0
15°	859.6	838.1	750.4	611.5	452.2	316.1	219.5	170.3	148.1	141.0	140.1
17.5°	880.9	850.2	726.4	538.5	344.9	209.4	143.3	129.1	128.2	127.5	127.5
20°	907.7	864.6	695.5	455.0	244.7	139.8	121.8	122.7	123.1	122.2	122.4
22.5°	938.8	879.3	658.7	365.3	165.5	116.9	116.5	117.6	118.1	117.6	117.9
25°	975.0	896.2	613.8	271.2	119.5	111.0	112.1	113.7	114.9	114.9	114.9
27.5°	1019.8	916.8	559.8	189.3	103.2	104.8	108.0	111.0	112.6	113.1	113.1
30°	1078.2	942.5	495.0	129.8	93.8	96.6	102.5	108.3	111.2	111.7	111.9
32.5°	1151.9	971.3	420.0	95.9	85.8	87.9	94.3	103.9	109.6	110.5	110.5
35°	1236.3	1004.7	339.2	83.5	80.1	80.8	85.8	96.8	106.9	109.4	109.6
37.5°	1328.8	1037.7	257.9	78.0	75.3	75.3	79.0	88.3	100.2	108.0	108.9
40°	1415.1	1057.6	180.8	73.7	70.9	70.9	74.2	81.0	92.2	103.9	106.4
42.5°	1494.7	1064.4	125.9	69.6	66.8	67.5	70.3	75.8	84.2	95.9	98.2
45°	1576.6	1063.3	91.8	64.8	62.7	64.8	66.8	70.9	77.1	83.8	84.2
47.5°	1638.4	1053.7	72.8	60.2	58.8	61.6	63.4	66.1	69.6	69.1	69.1
50°	1696.3	1030.3	58.6	54.0	54.9	58.1	59.0	60.0	60.2	55.8	55.4
52.5°	1740.3	994.0	46.9	47.4	51.0	54.2	53.3	52.0	49.7	44.4	43.5
55°	1754.9	923.9	36.8	39.1	45.3	49.4	46.0	43.0	38.7	34.3	33.4
57.5°	1728.4	833.5	30.0	30.4	38.2	41.7	37.8	34.3	29.5	25.9	25.2
60°	1672.1	733.1	24.7	22.9	29.5	32.5	30.0	26.5	22.2	19.5	19.2
62.5°	1560.4	625.9	20.4	17.9	22.4	24.9	23.3	20.8	17.2	15.3	15.1
65°	1325.6	500.8	16.5	14.4	17.4	19.5	18.1	16.2	13.5	12.1	11.9
67.5°	925.3	338.5	13.5	11.9	13.7	15.3	14.2	13.3	10.8	10.5	10.8
70°	446.3	163.2	11.2	9.6	10.8	11.9	11.4	10.8	10.3	11.9	13.7
72.5°	127.9	54.7	8.9	8.0	8.7	9.4	9.8	9.6	11.2	14.4	16.7
73°	*98.4*	*44.2*	*8.5*	*7.6*	*8.2*	*9.2*	*9.6*	*9.4*	*11.4*	*14.6*	*16.7*
75°	42.1	21.3	6.4	6.2	6.9	8.0	8.5	8.5	11.4	14.9	16.0
77.5°	19.0	11.4	4.1	4.8	6.0	6.4	7.1	7.1	9.2	11.4	11.4
80°	10.8	6.2	3.2	3.7	4.3	4.3	4.3	3.9	4.1	4.6	5.0
82.5°	6.9	4.1	2.5	3.0	2.7	2.3	1.8	1.8	1.6	1.8	2.3
85°	3.9	2.3	2.3	1.8	1.1	0.9	1.1	0.9	0.2	0.0	0.2
87.5°	2.3	1.4	0.7	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: SP1-2408-195-9

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

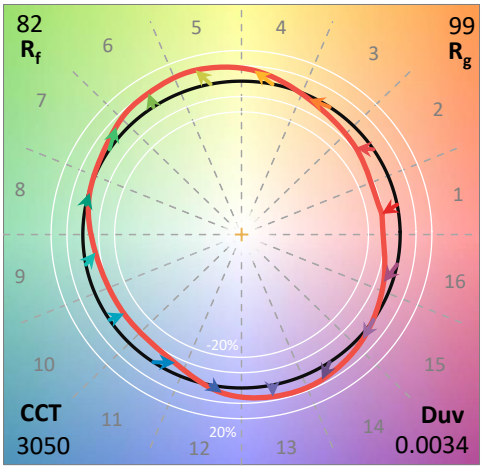
Test Information

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

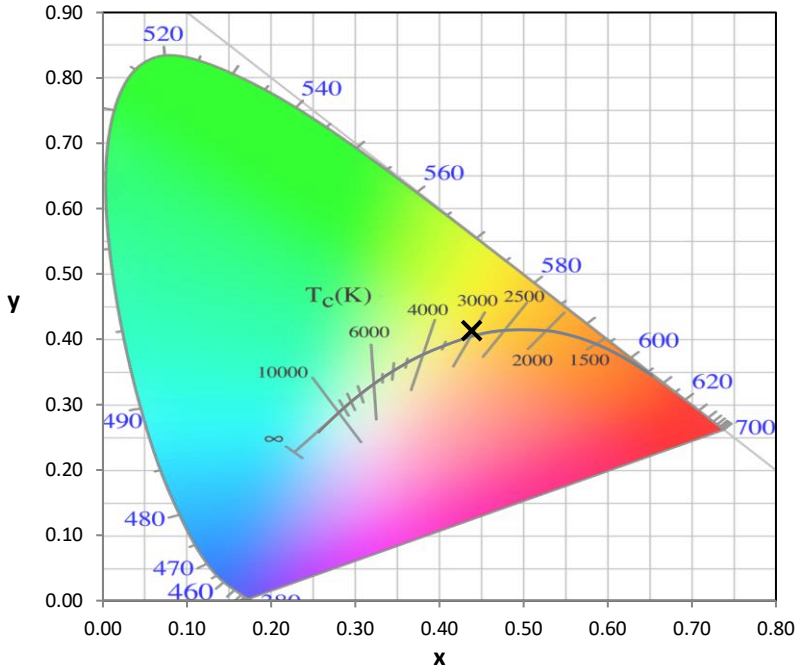
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

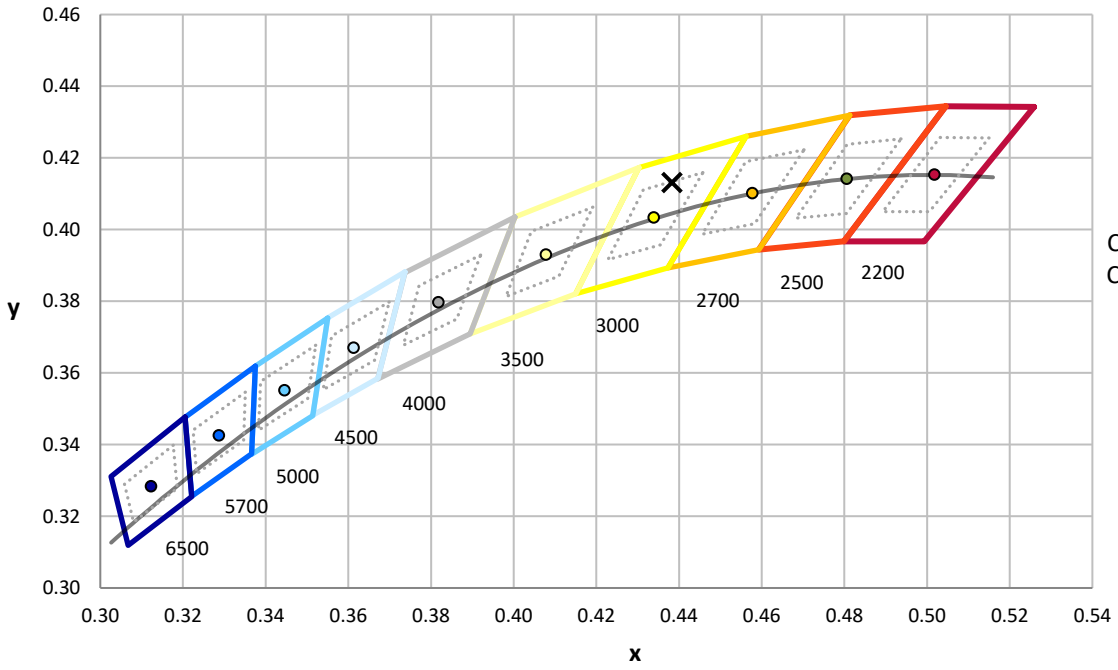
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

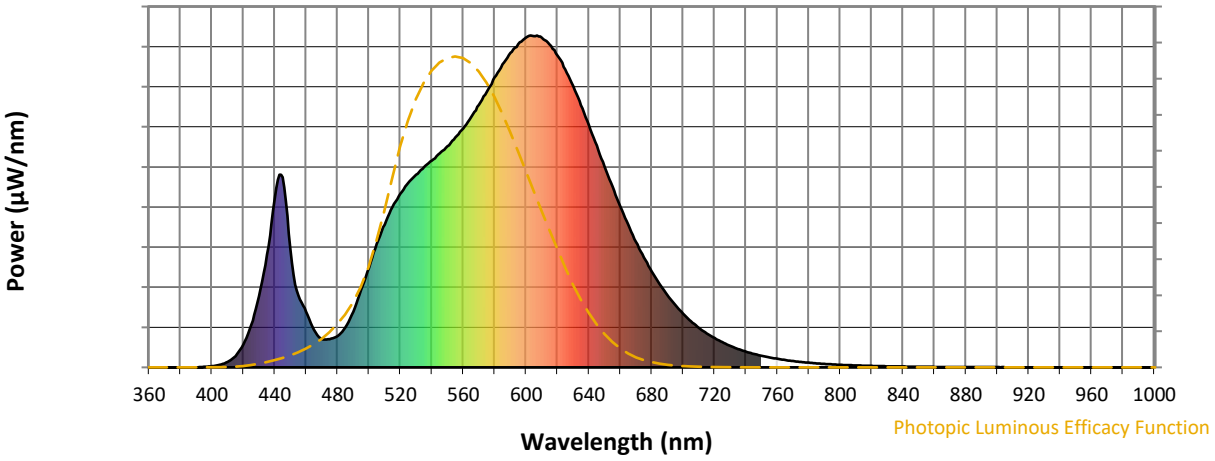


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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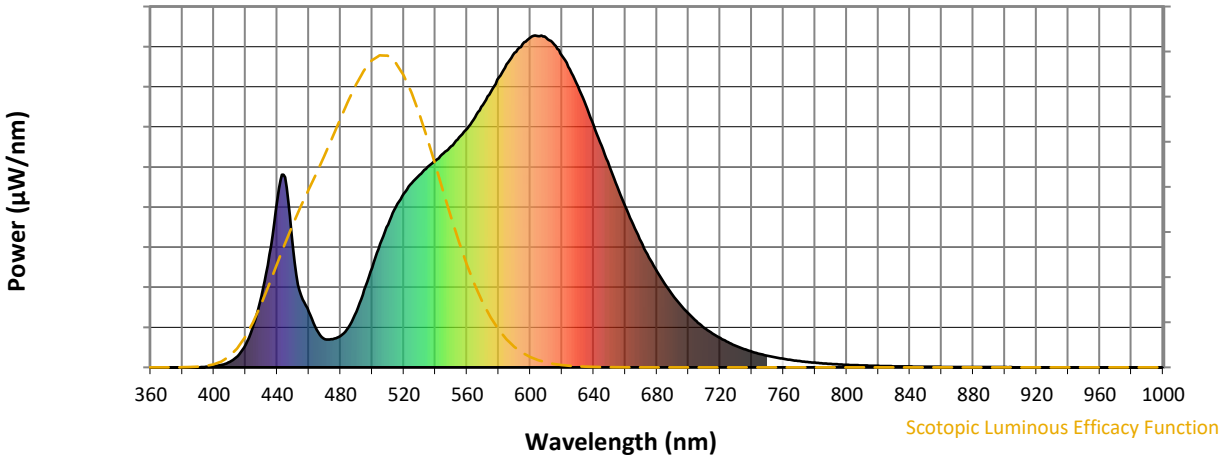
Scotopic Flux vs. Wavelength



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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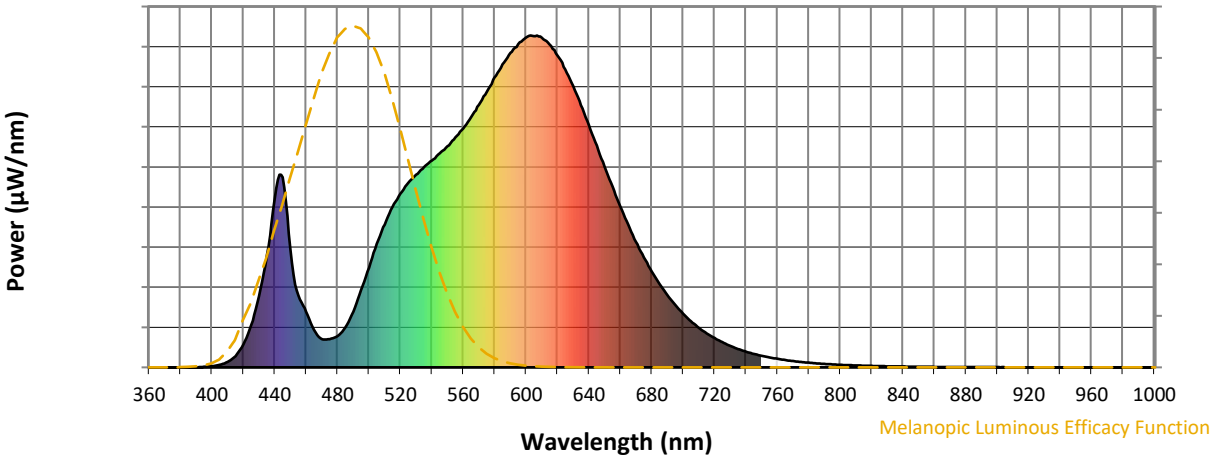
Melanopic Flux vs. Wavelength



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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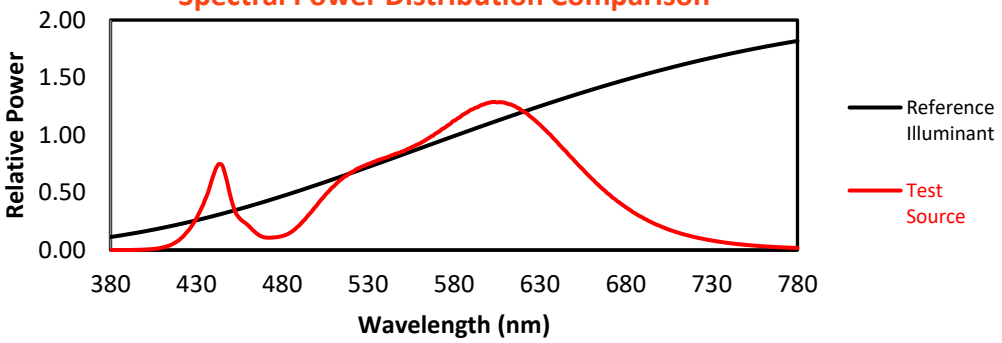
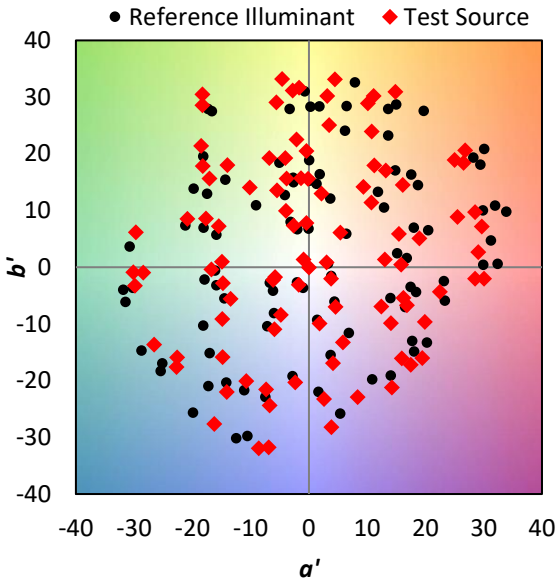
Summary

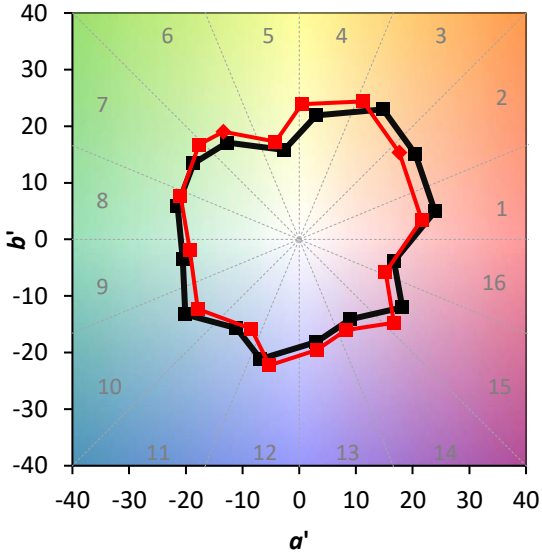
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

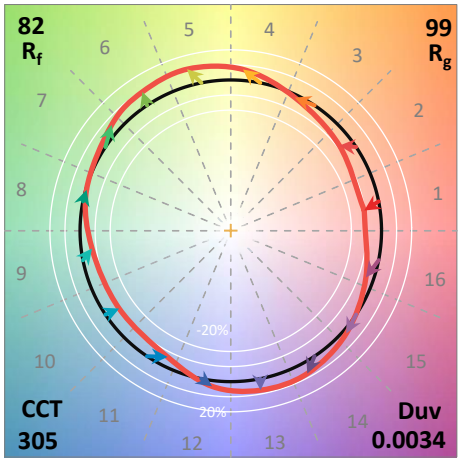
Spectral Power Distribution Comparison

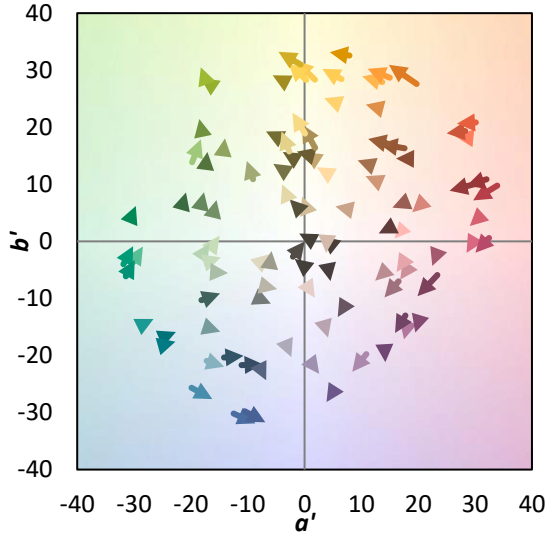


Color Vector Graphics









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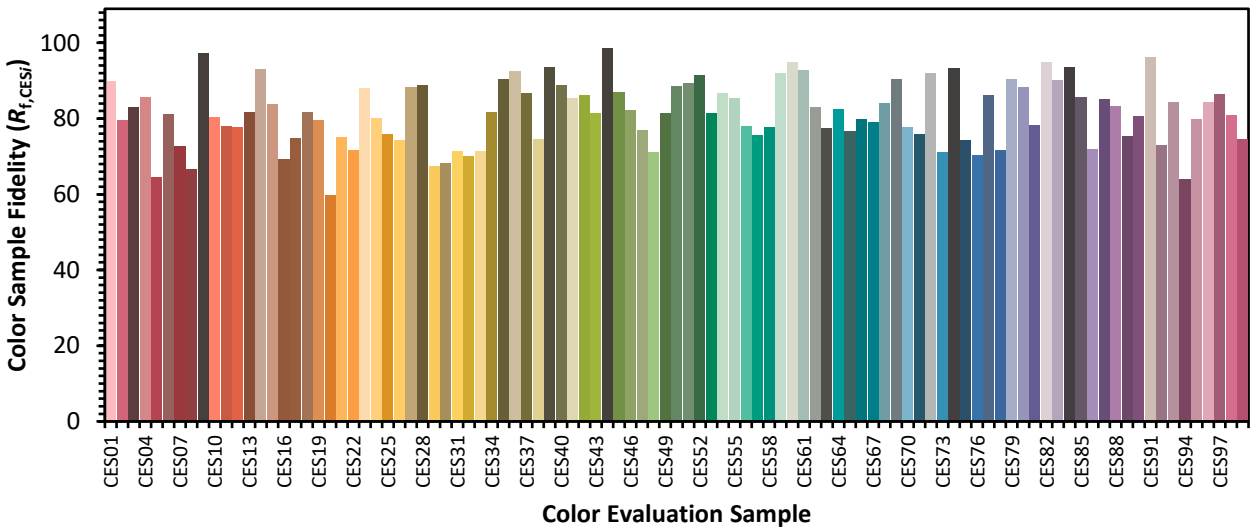
Individual Sample Fidelity Index ($R_{f,i}$)

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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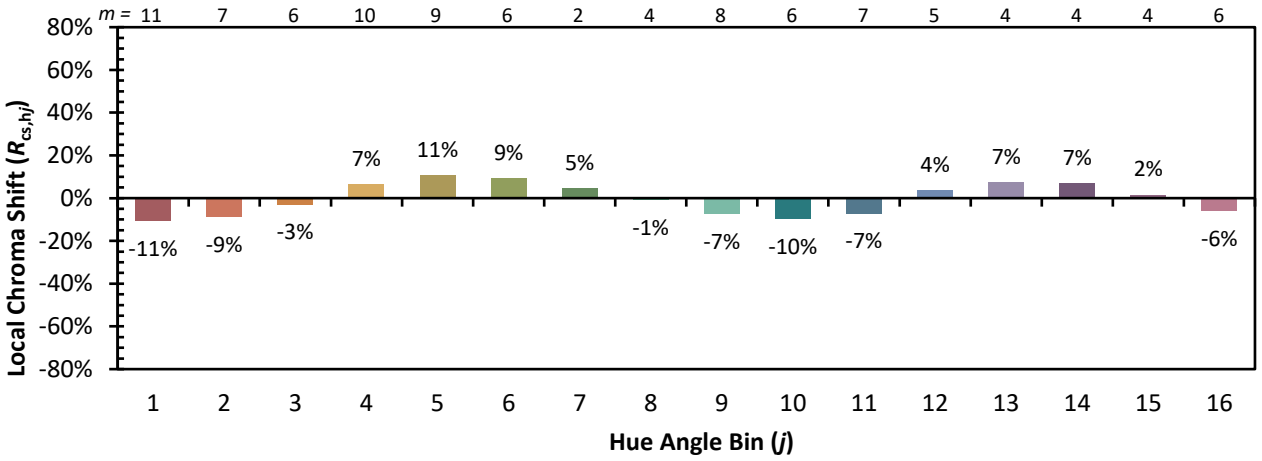
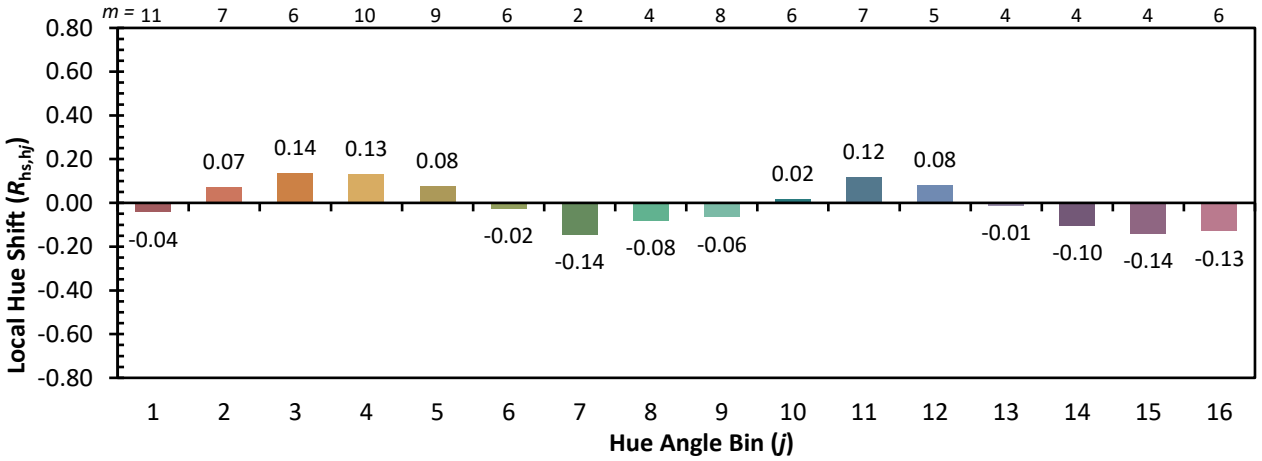
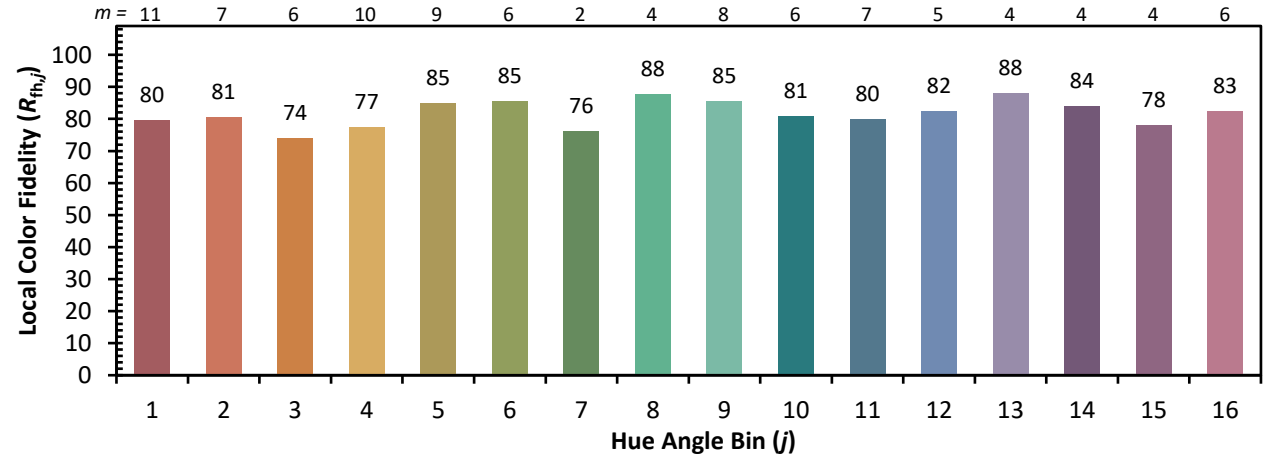
Color Rendition by Hue-Angle Bin







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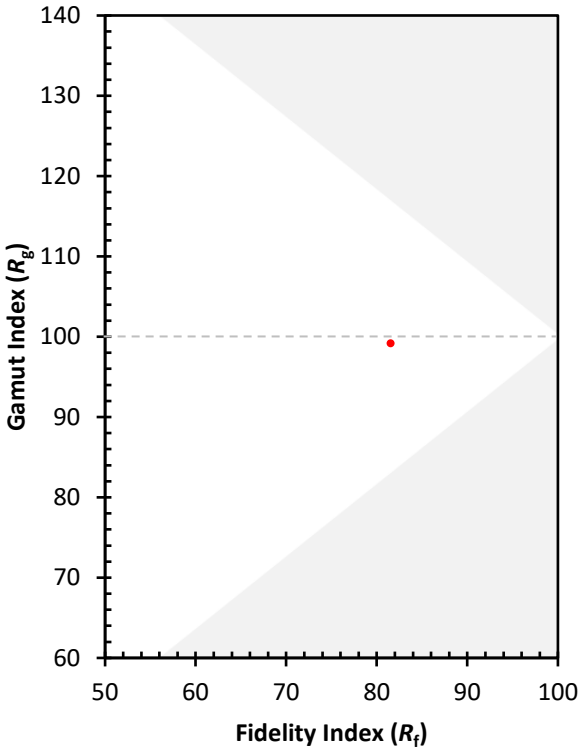
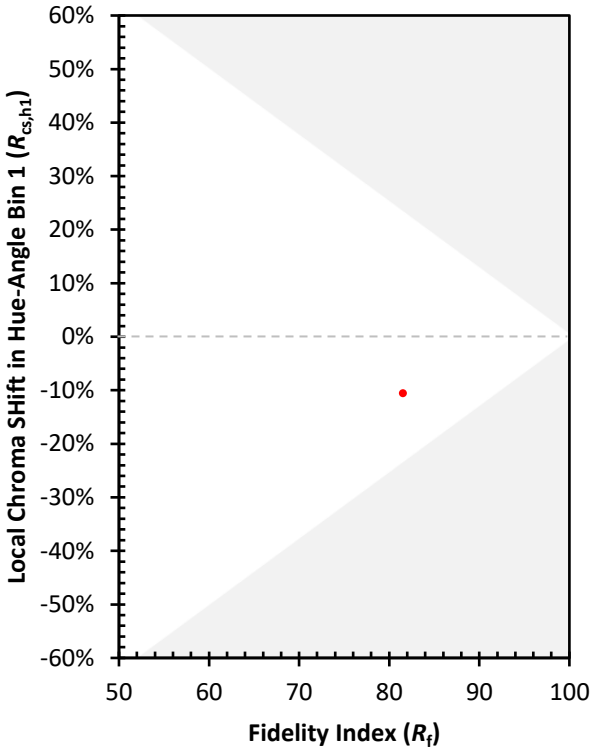
Measure Comparisons





(END OF REPORT)