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: P323055

Luminaire Tested: **GLEON-SA1D-830-U-T4W-HSS**

Issue Date: 3/3/2020

Report Generated By E0585644

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:	P323055
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA1D-830-U-T4W-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4679 lumens
Efficiency:	N/A
Efficacy:	69.8 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):	67
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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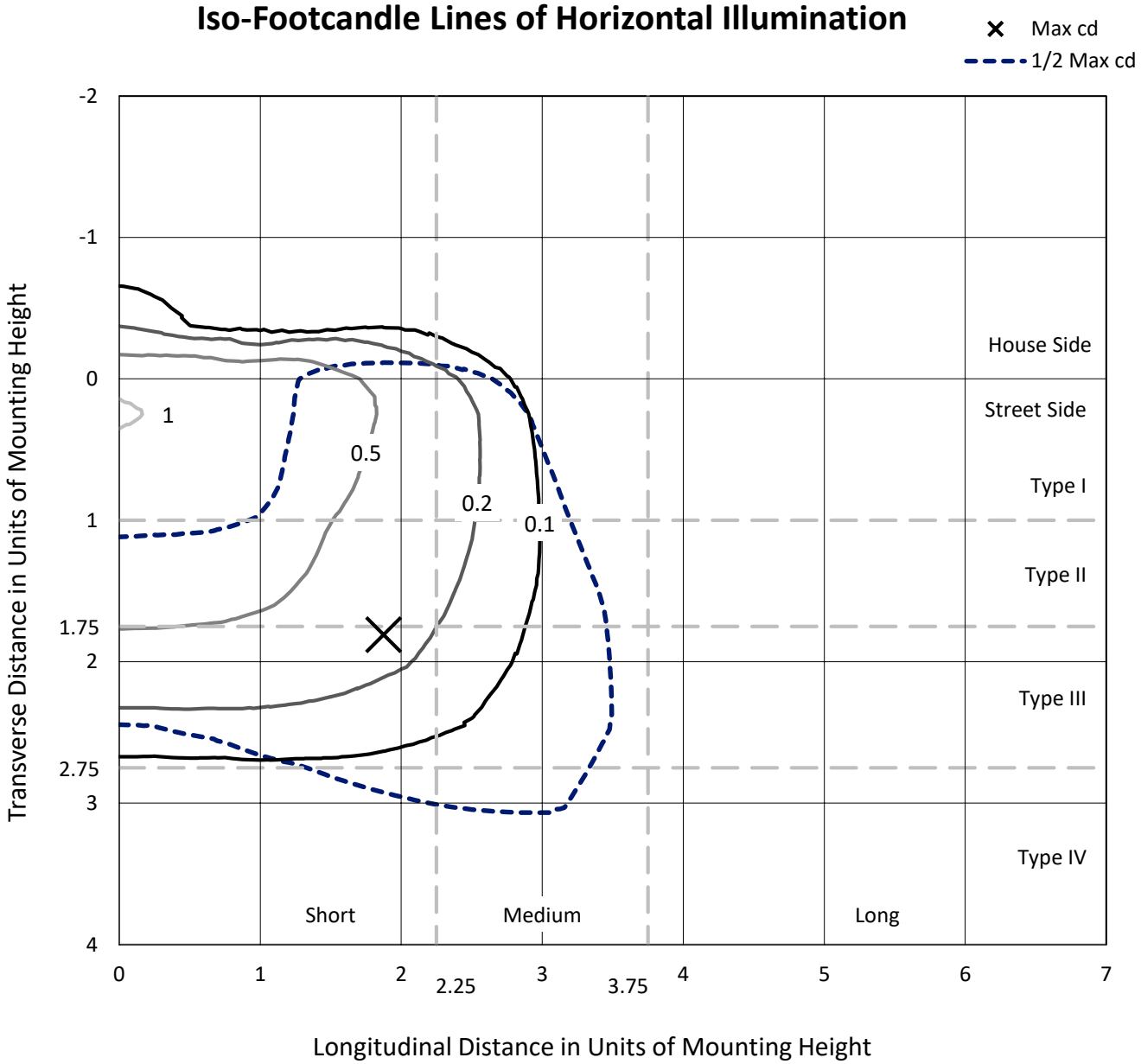
REPORT NUMBER: P323055
CATALOG NUMBER: GLEON-SA1D-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type IV - Short - N/A

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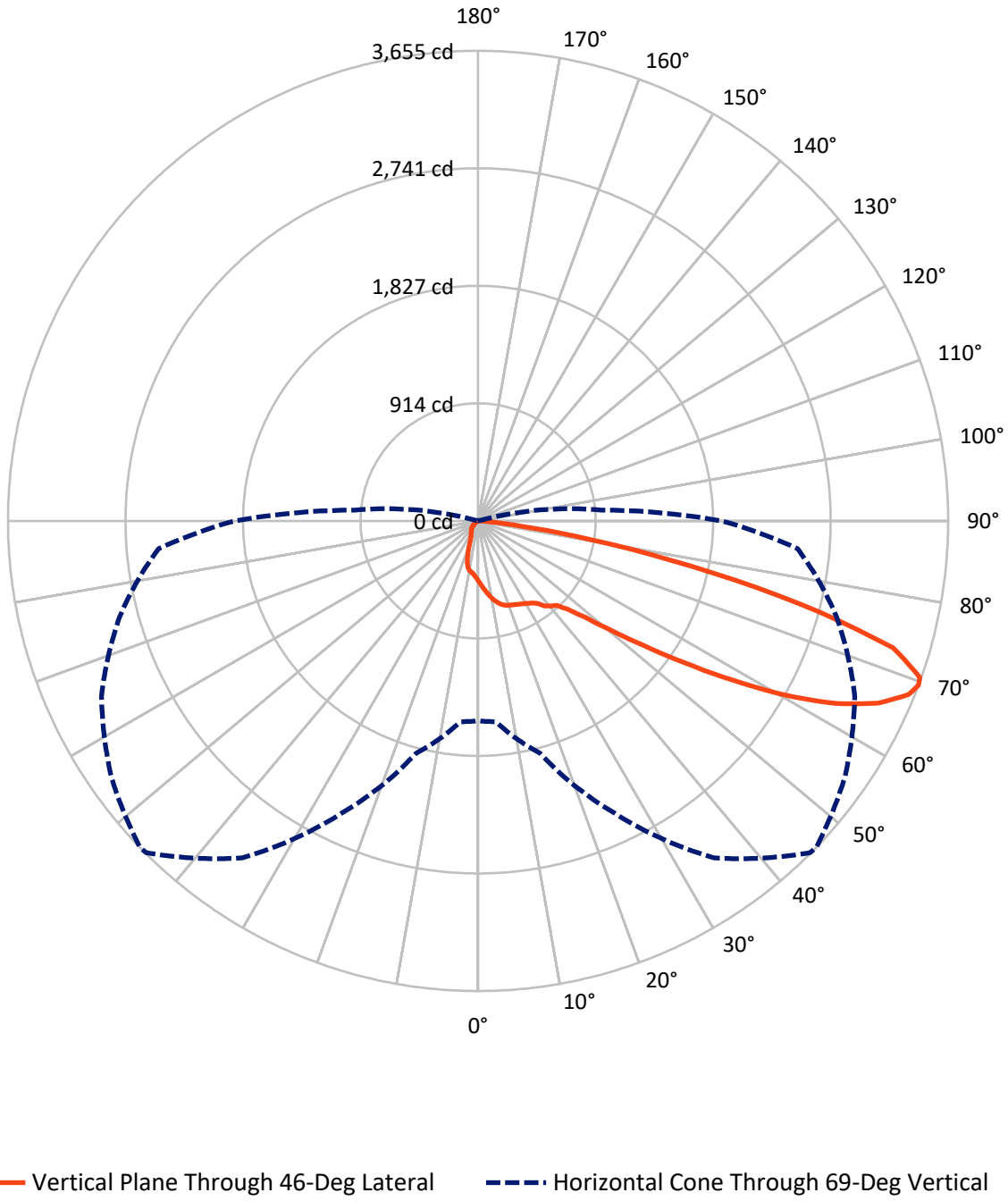
Luminous Intensity Polar Plot



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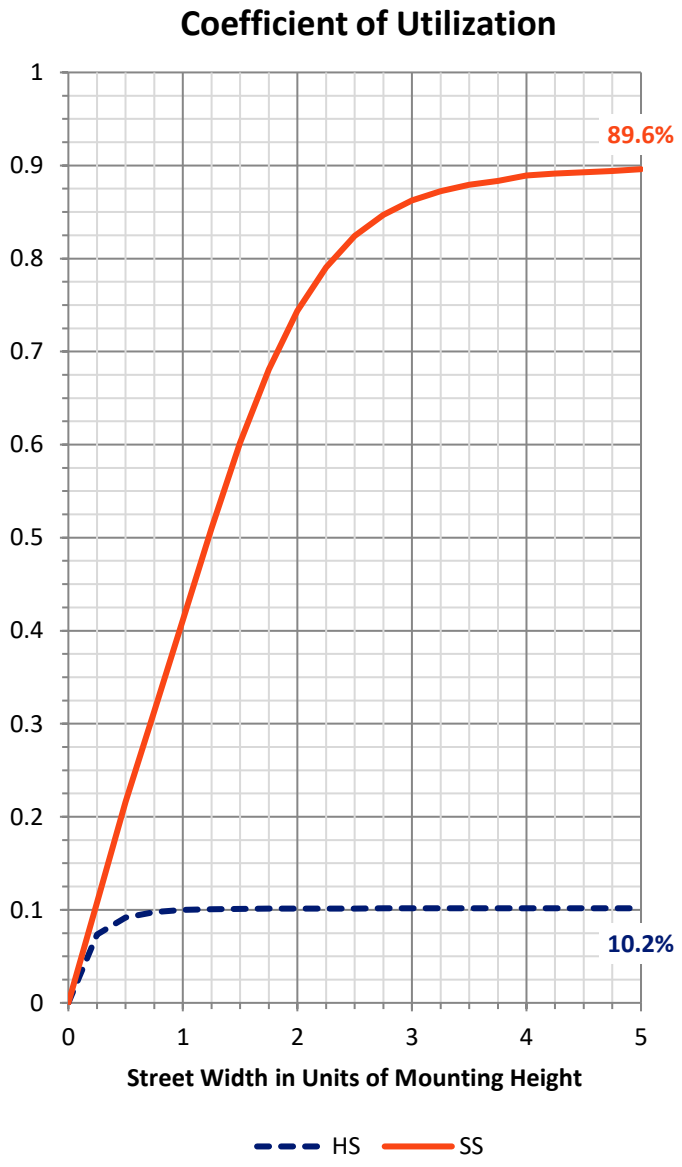
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	480.2	0.0	480.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	4198.8	0.0	4198.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	4679.0	0.0	4679.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	1.0
10°-20°	141.6	3.0
20°-30°	222.6	4.8
30°-40°	319.3	6.8
40°-50°	551.8	11.8
50°-60°	1090.1	23.3
60°-70°	1523.6	32.6
70°-80°	736.0	15.7
80°-90°	47.3	1.0
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°	4679.0	100.0
0°-180°	4679.0	100.0



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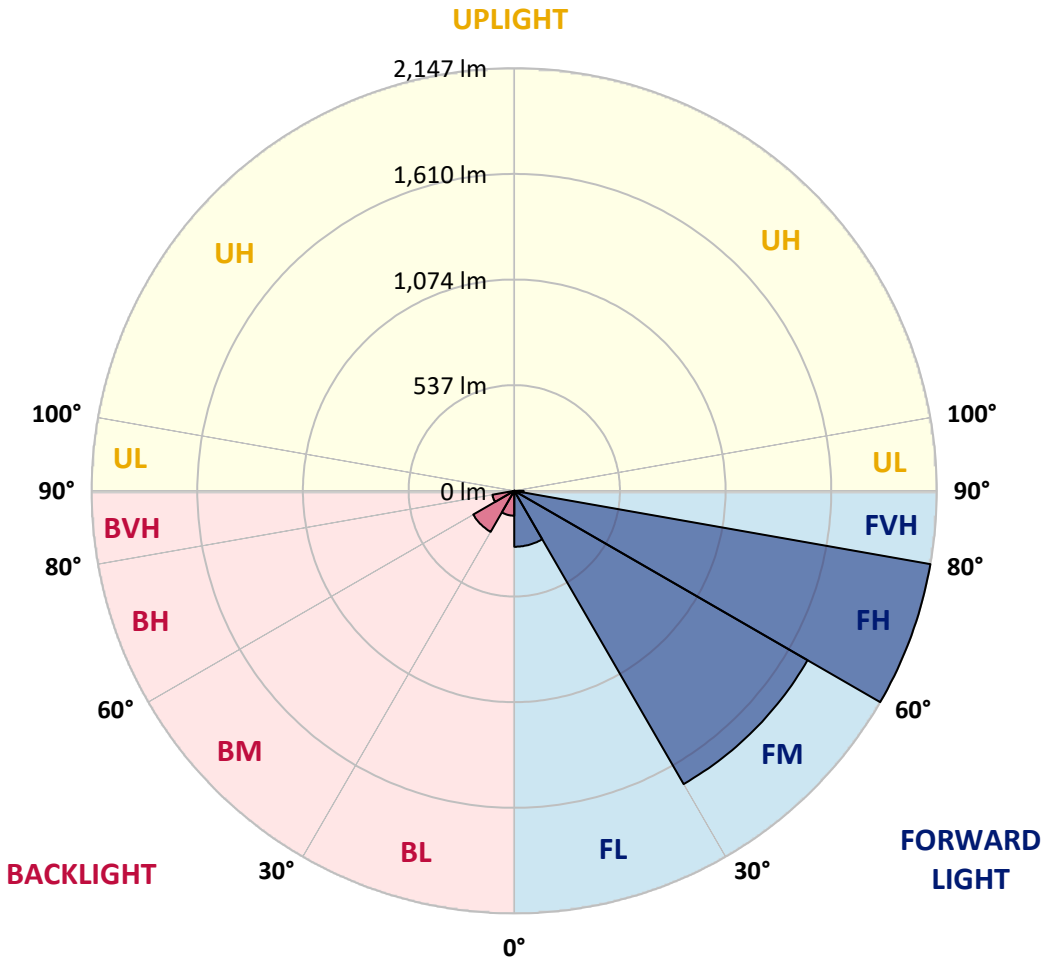
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	284.3	6.1			
FM	(30°-60°)	1720.6	36.8			
FH	(60°-80°)	2147.0	45.9			G2/5000
FVH	(80°-90°)	46.9	1.0			G1/100
BL	(0°-30°)	126.6	2.7	B1/500		
BM	(30°-60°)	240.6	5.1	B1/1000		
BH	(60°-80°)	112.6	2.4	B1/500		G1/500
BVH	(80°-90°)	0.4	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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Scaled Data Report

REPORT NUMBER: P323055
CATALOG NUMBER: GLEON-SA1D-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	468.8	468.8	468.8	468.8	468.8	468.8	*468.8*	468.8	468.8	468.8	468.8
2.5°	520.8	520.2	517.1	515.8	508.3	503.9	*502.2*	496.7	488.8	480.9	472.1
5°	580.0	579.8	574.1	568.6	554.6	541.4	*539.0*	526.3	508.5	491.9	475.2
7.5°	640.6	637.7	632.0	621.5	601.1	580.0	*578.1*	560.1	534.9	510.7	486.8
10°	691.9	690.2	682.7	666.7	642.8	618.9	*616.5*	594.3	565.8	536.2	505.7
12.5°	731.9	730.5	720.7	700.7	675.3	650.5	*647.2*	627.4	596.9	563.8	527.8
15°	756.2	755.5	743.5	722.2	697.2	675.7	*672.8*	655.5	627.2	592.5	552.0
17.5°	761.9	762.1	749.6	728.1	707.5	692.1	*690.0*	676.8	653.1	618.7	576.1
20°	749.2	751.8	740.6	722.0	709.3	701.1	*699.4*	691.5	671.5	639.1	595.4
22.5°	731.2	732.5	724.8	712.3	707.1	708.6	*707.7*	703.3	686.4	656.6	614.5
25°	720.2	720.2	715.6	705.1	708.6	718.0	*718.3*	717.4	704.0	678.1	637.7
27.5°	719.8	718.5	713.2	705.3	715.0	729.4	*730.3*	736.2	727.9	704.2	666.7
30°	737.3	735.8	724.6	714.3	726.6	742.2	*744.4*	757.3	753.1	732.5	698.9
32.5°	778.4	772.9	748.1	731.2	740.4	759.1	*761.9*	782.5	789.1	767.4	730.1
35°	834.5	817.2	781.4	763.2	764.1	783.6	*786.3*	816.5	836.1	799.4	754.2
37.5°	912.0	903.4	845.3	796.6	800.5	830.1	*837.8*	870.7	865.2	817.0	781.7
40°	1081.8	1068.4	1006.5	890.0	835.4	867.9	*870.3*	887.8	888.3	856.7	838.7
42.5°	1313.0	1307.5	1242.4	1059.6	904.1	893.1	*897.5*	927.1	960.2	940.5	939.6
45°	1569.0	1566.2	1497.1	1284.7	1042.9	975.8	*981.3*	1021.0	1084.4	1088.8	1116.7
47.5°	1775.0	1773.7	1734.0	1535.9	1255.5	1116.0	*1117.7*	1159.9	1271.3	1326.4	1370.9
50°	1962.8	1969.2	1937.8	1807.7	1545.1	1335.6	*1331.4*	1359.5	1538.5	1628.7	1684.0
52.5°	2223.9	2232.9	2144.9	2061.3	1848.9	1608.1	*1604.8*	1634.2	1859.7	1927.3	1937.1
55°	2454.4	2439.1	2369.5	2345.4	2219.5	1944.6	*1943.7*	1969.6	2170.3	2199.1	2217.3
57.5°	2556.2	2550.3	2583.9	2639.2	2607.6	2342.3	*2340.4*	2320.6	2448.3	2451.4	2507.3
60°	2620.5	2627.8	2730.6	2901.1	2979.9	2770.3	*2757.6*	2637.2	2713.7	2706.9	2766.8
62.5°	2572.2	2586.5	2771.7	3055.8	3258.5	3144.0	*3126.0*	2927.2	2940.6	2917.1	2972.8
65°	2316.0	2338.2	2641.6	3026.6	3396.7	3436.0	*3417.7*	3183.2	3120.7	3082.1	3051.2
67.5°	1880.5	1893.7	2210.5	2772.8	3334.4	3610.1	*3606.4*	3407.7	3256.7	3054.2	2814.2
69°	*1554.1*	*1567.0*	*1872.0*	*2505.6*	*3197.3*	*3647.4*	*3654.7*	*3479.6*	*3230.8*	*2884.9*	*2493.5*
70°	1316.3	1330.1	1614.2	2276.5	3038.2	3630.1	*3643.0*	3472.8	3156.7	2688.7	2212.0
72.5°	690.4	702.2	993.8	1568.4	2476.8	3333.3	*3372.6*	3179.3	2675.8	1952.7	1308.0
75°	217.0	223.8	388.1	819.8	1695.8	2591.8	*2600.8*	2493.9	1900.1	1074.1	544.7
77.5°	82.7	80.7	129.2	302.1	857.3	1632.0	*1687.0*	1558.5	997.1	379.7	125.7
80°	44.5	44.8	67.1	125.0	366.8	838.7	*885.2*	755.3	354.3	118.5	29.0
82.5°	19.3	20.2	37.7	66.3	168.5	309.3	*332.6*	276.9	135.4	79.6	10.7
85°	4.2	4.6	18.2	36.0	68.7	86.9	*91.0*	89.7	86.2	61.9	4.2
87.5°	0.0	0.0	8.1	12.9	17.3	19.7	*17.3*	22.6	47.6	41.7	2.2
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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REPORT NUMBER: P323055
CATALOG NUMBER: GLEON-SA1D-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	468.8	468.8	468.8	468.8	468.8	468.8	468.8	468.8	468.8	468.8	468.8
2.5°	469.3	465.3	458.5	451.0	445.8	440.3	435.9	433.9	431.7	430.2	432.2
5°	468.4	460.7	447.5	434.8	425.6	418.1	412.0	409.6	407.2	405.4	405.2
7.5°	476.1	465.3	445.1	426.5	412.2	402.1	393.8	390.3	387.4	386.1	385.0
10°	490.8	476.9	450.0	425.6	407.2	390.1	372.1	358.3	349.3	345.1	343.6
12.5°	509.8	492.5	459.2	430.2	403.4	370.5	332.4	299.5	278.2	271.2	267.0
15°	532.2	510.7	471.2	436.1	389.8	329.7	265.0	222.0	202.3	198.3	193.9
17.5°	553.7	530.0	485.7	437.2	360.0	263.5	194.2	165.0	157.3	159.9	160.6
20°	572.6	549.1	500.0	427.6	305.8	197.7	150.3	143.0	145.9	150.9	151.8
22.5°	591.7	567.5	513.1	402.1	236.5	150.1	135.4	137.1	140.0	145.0	145.9
25°	614.9	589.9	525.4	355.4	177.5	127.7	128.6	131.2	134.0	138.6	139.1
27.5°	641.7	618.2	533.5	294.6	131.6	117.4	120.2	124.2	127.0	131.4	132.3
30°	677.2	655.5	536.2	231.7	110.3	108.2	109.5	114.3	118.5	122.4	123.1
32.5°	710.6	692.4	527.4	174.8	102.2	99.6	99.6	102.5	107.3	111.0	111.9
35°	741.3	729.4	499.3	127.9	96.1	91.7	89.5	89.5	92.6	95.7	96.5
37.5°	781.9	781.4	453.9	102.0	90.2	85.1	80.5	77.0	75.9	76.6	77.0
40°	851.4	852.1	394.7	91.5	85.1	78.3	71.3	64.9	59.0	57.0	56.8
42.5°	960.0	950.1	332.6	86.4	80.7	71.3	60.8	52.2	43.0	40.1	39.9
45°	1132.4	1073.9	266.8	81.8	76.1	63.4	50.2	38.6	31.2	29.0	29.0
47.5°	1383.6	1236.4	206.7	76.8	70.0	54.4	38.0	27.9	22.8	21.7	21.9
50°	1643.4	1395.7	158.4	70.4	62.5	45.0	28.1	20.2	17.3	17.3	17.6
52.5°	1873.7	1512.4	123.5	63.6	53.3	35.3	21.3	15.8	14.5	14.3	14.5
55°	2089.4	1587.7	94.6	55.7	42.3	26.3	16.2	12.9	12.1	11.6	11.4
57.5°	2297.4	1625.0	70.9	45.0	30.7	19.1	12.9	11.0	10.1	9.4	9.2
60°	2435.8	1594.7	48.7	33.1	21.3	13.8	10.7	9.4	8.3	7.7	7.5
62.5°	2513.9	1512.0	31.4	23.9	15.1	10.3	8.6	7.9	6.4	5.7	5.7
65°	2482.3	1375.5	21.9	17.1	11.0	7.7	6.4	6.4	4.6	3.7	3.5
67.5°	2199.7	1162.1	16.7	12.7	7.9	5.7	4.8	5.5	2.9	1.8	1.8
69°	*1892.6*	*963.1*	*14.3*	*10.5*	*6.6*	*4.6*	*4.2*	*5.0*	*2.0*	*1.3*	*1.1*
70°	1644.9	830.8	12.9	9.2	5.5	3.9	3.7	4.8	2.0	1.1	0.9
72.5°	984.1	463.3	9.9	6.6	3.5	3.1	3.1	5.5	2.0	1.1	0.9
75°	397.7	163.2	7.2	4.6	2.6	2.6	3.7	7.0	1.8	0.9	0.7
77.5°	90.2	35.8	4.2	2.9	1.8	2.6	4.4	5.5	1.1	0.4	0.0
80°	21.9	8.8	2.6	1.8	1.1	2.0	3.3	3.1	0.2	0.0	0.0
82.5°	7.2	3.1	1.1	0.9	0.2	0.7	1.5	0.9	0.0	0.0	0.0
85°	3.1	1.8	0.4	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	2.0	0.7	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

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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

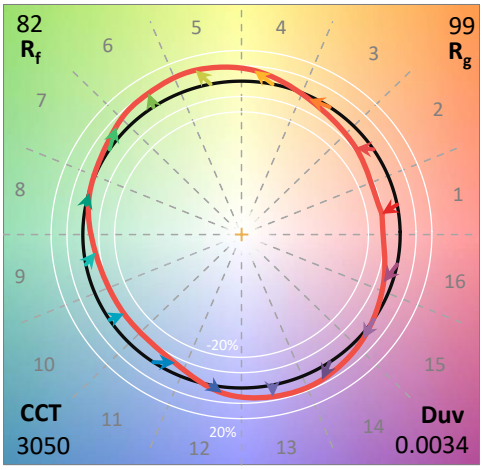
Test Information

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

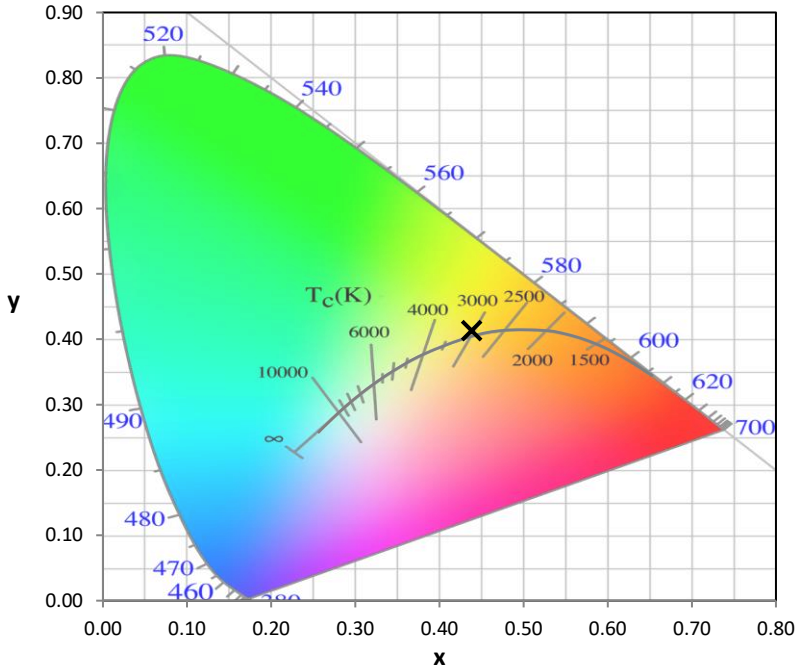
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

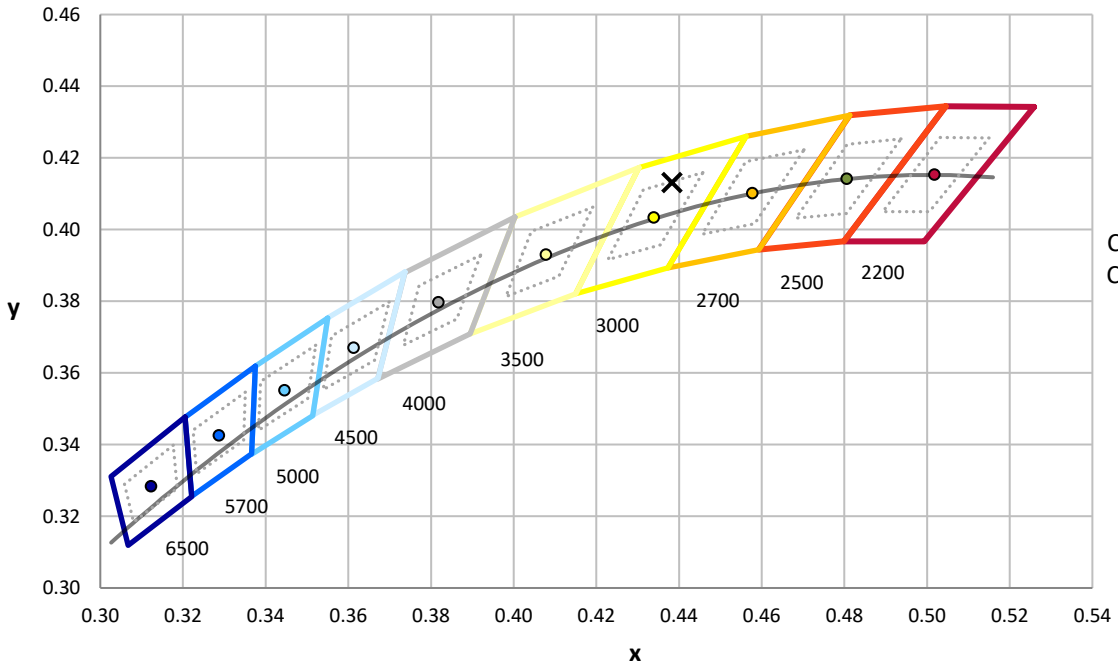
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

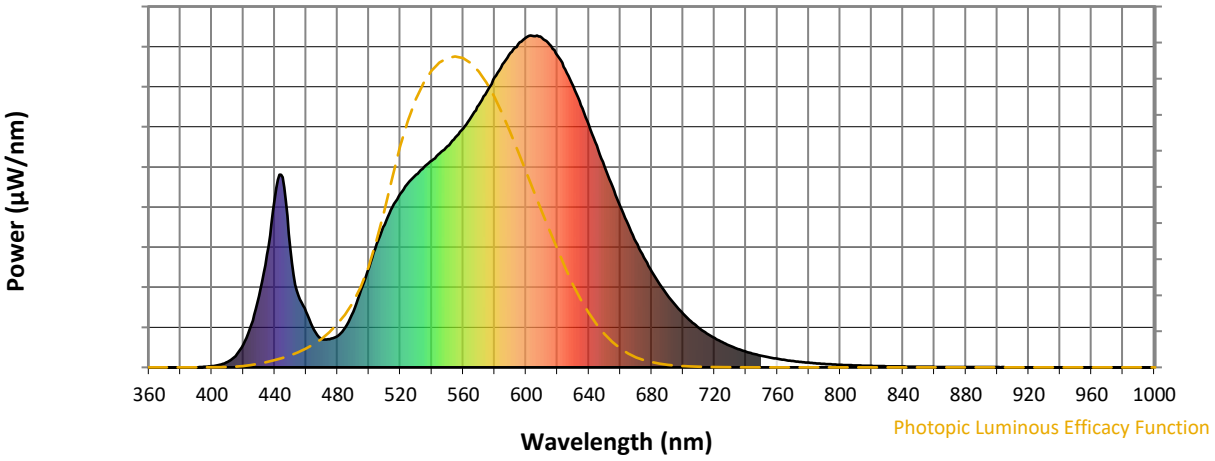


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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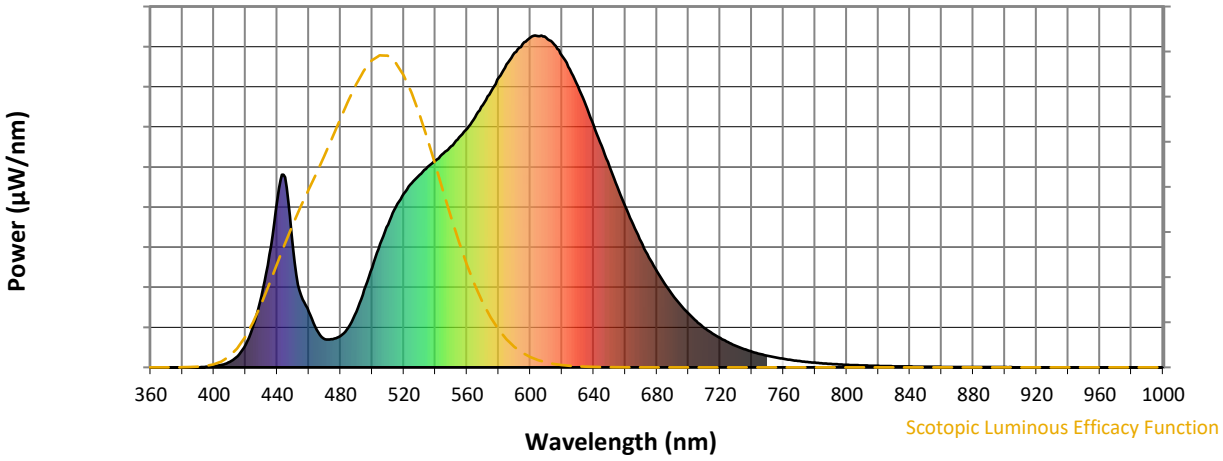
Scotopic Flux vs. Wavelength



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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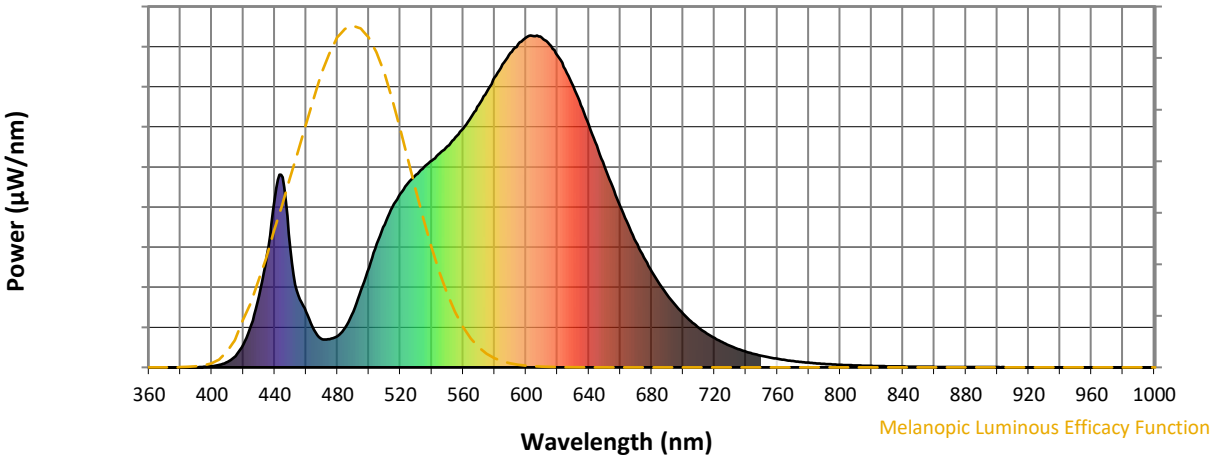
Melanopic Flux vs. Wavelength



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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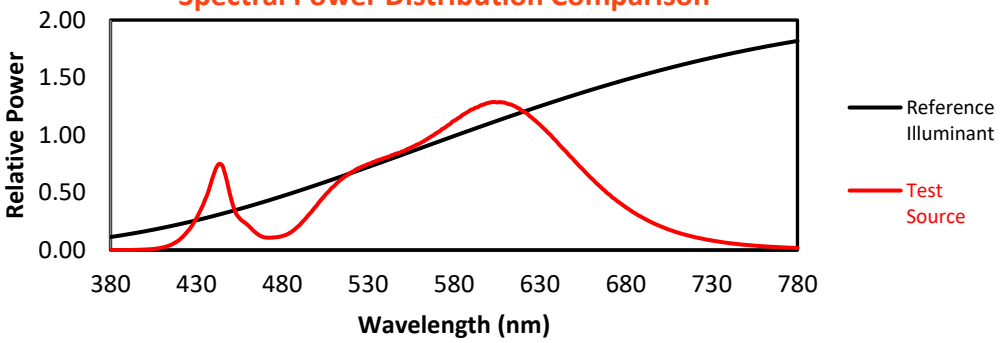
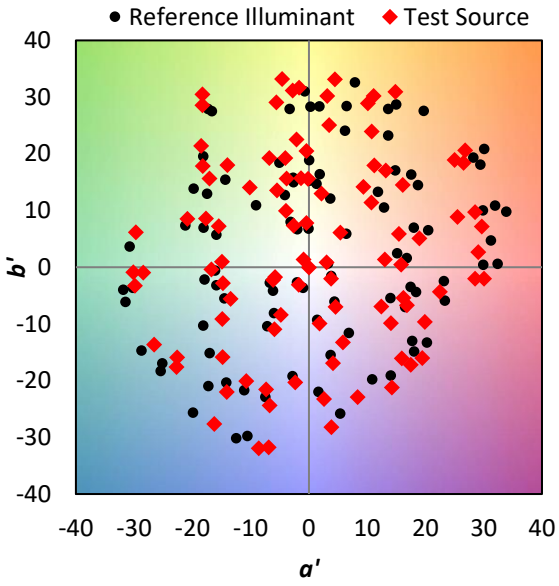
Summary

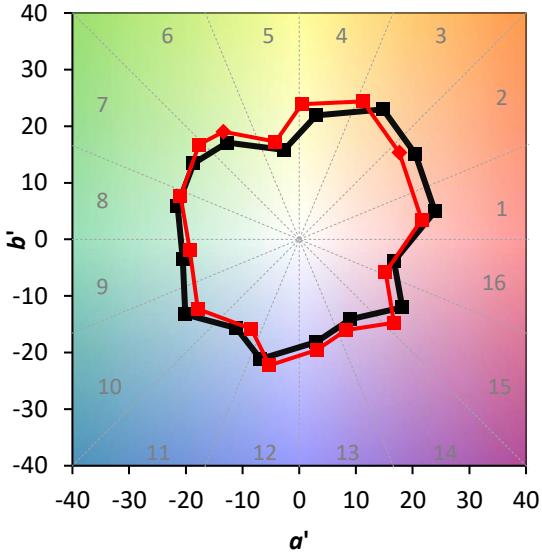
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

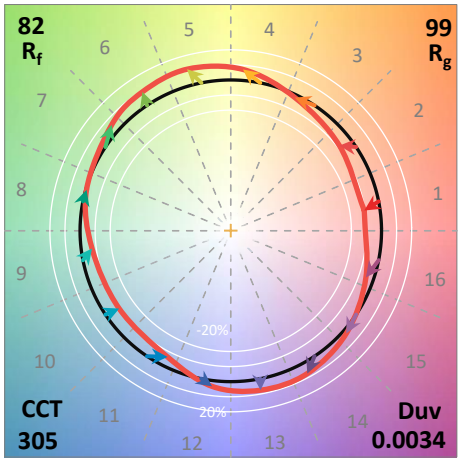
Spectral Power Distribution Comparison

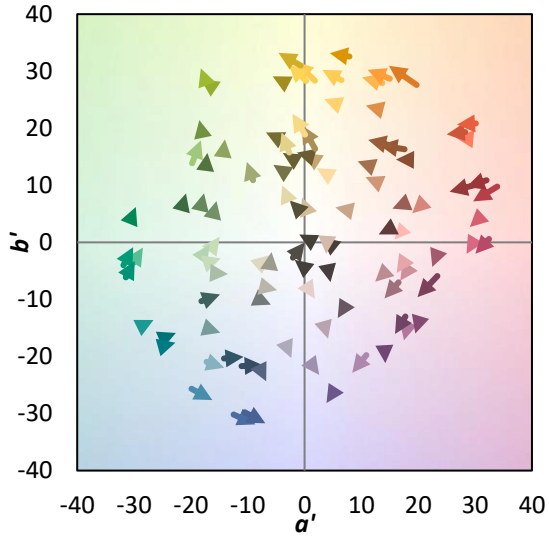


Color Vector Graphics









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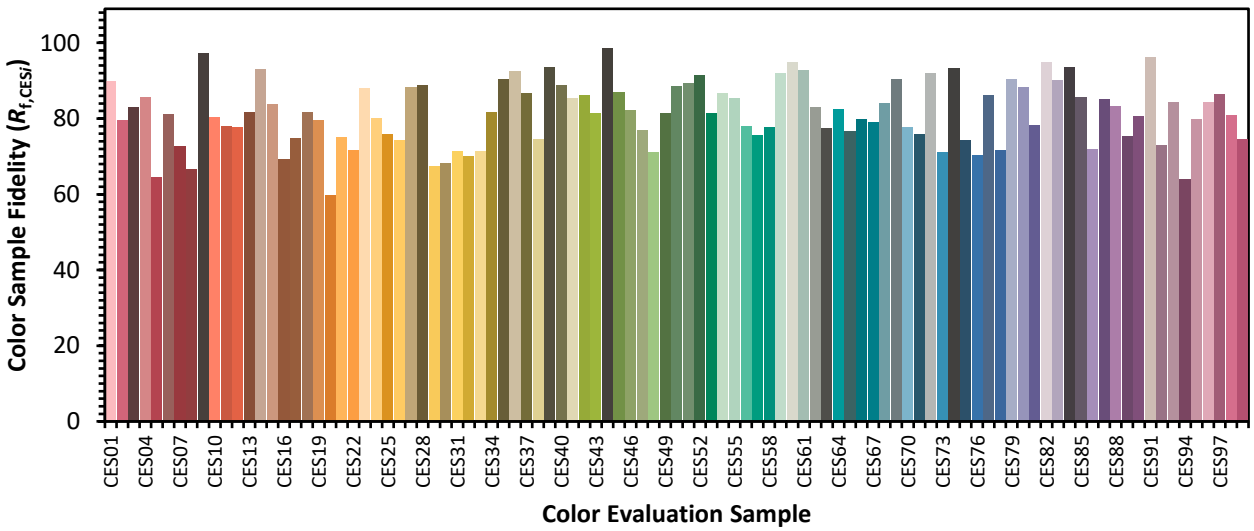
Individual Sample Fidelity Index ($R_{f,i}$)

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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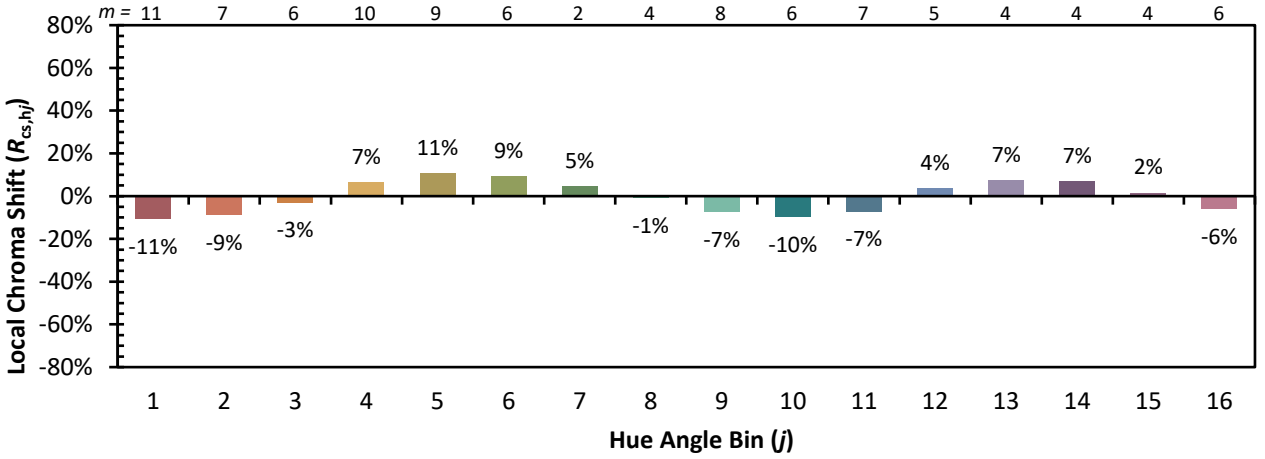
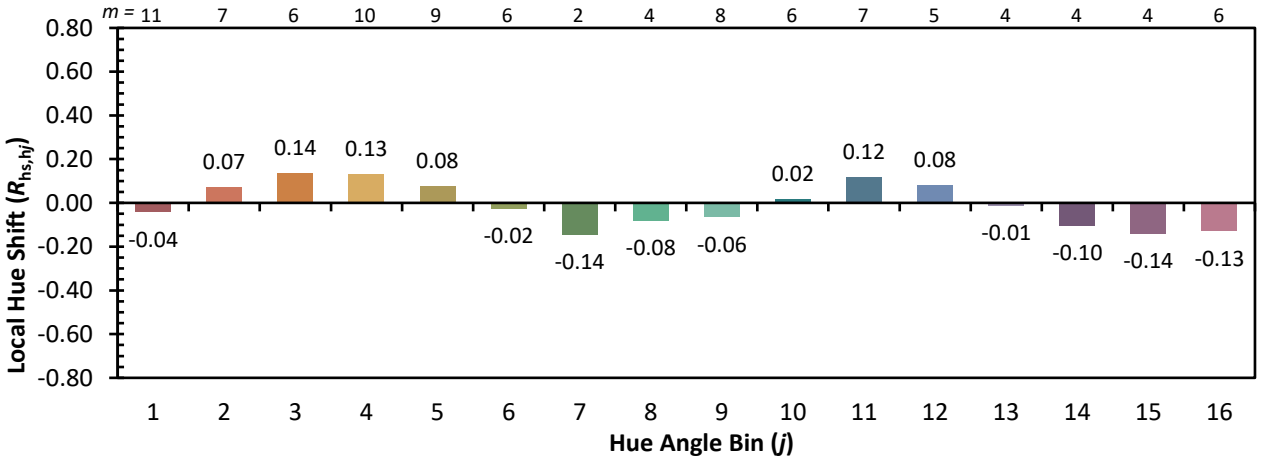
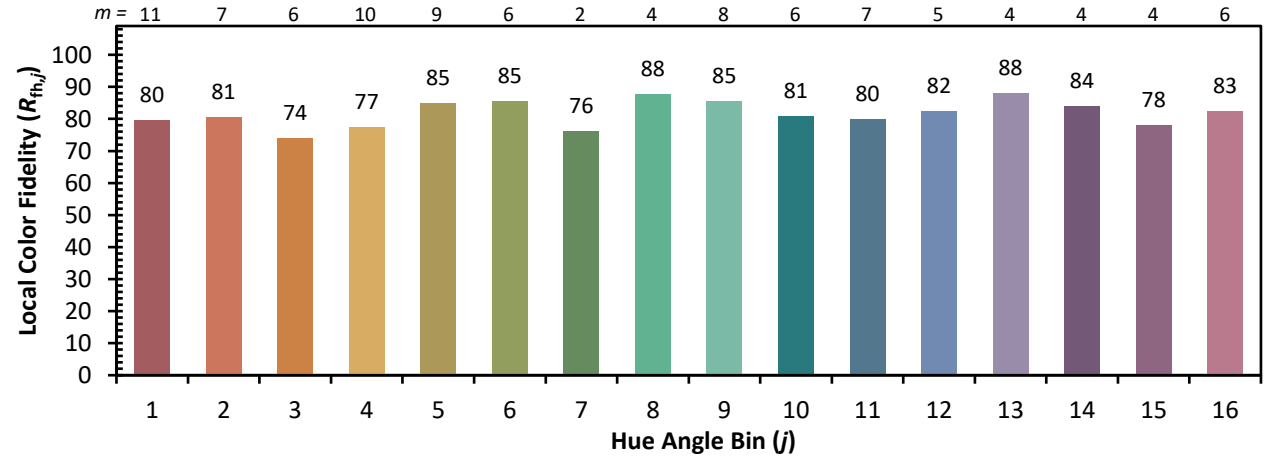
Color Rendition by Hue-Angle Bin







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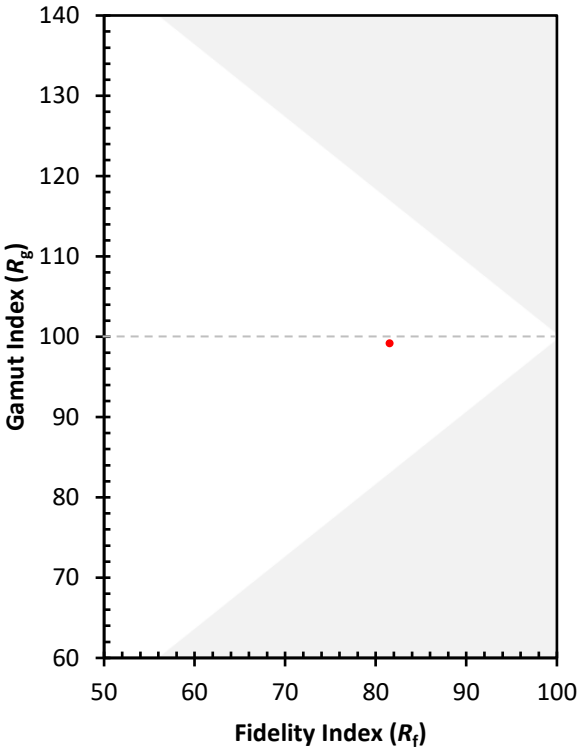
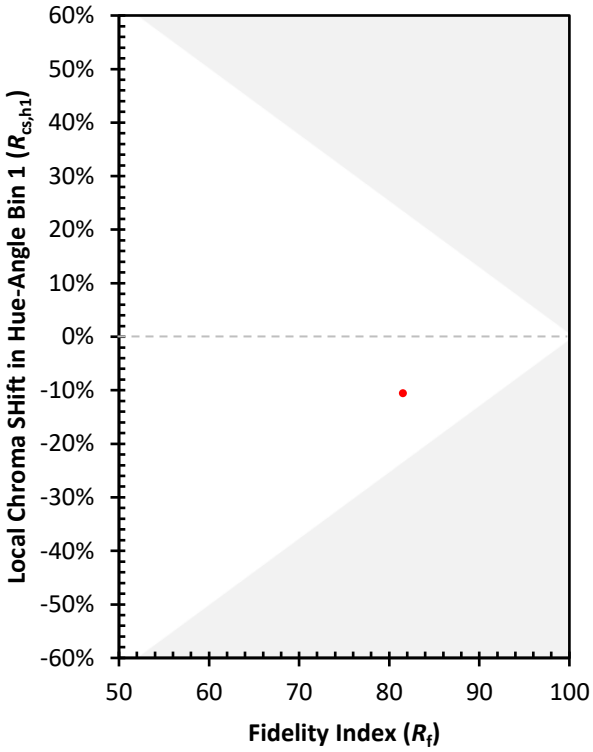
Measure Comparisons





(END OF REPORT)