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: P322721

Luminaire Tested: **GLEON-SA7B-830-U-T4FT-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:	P322721
	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:	GLEON-SA7B-830-U-T4FT-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	22810 lumens
Efficiency:	N/A
Efficacy:	77.3 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G4

Input Watts (W):	295
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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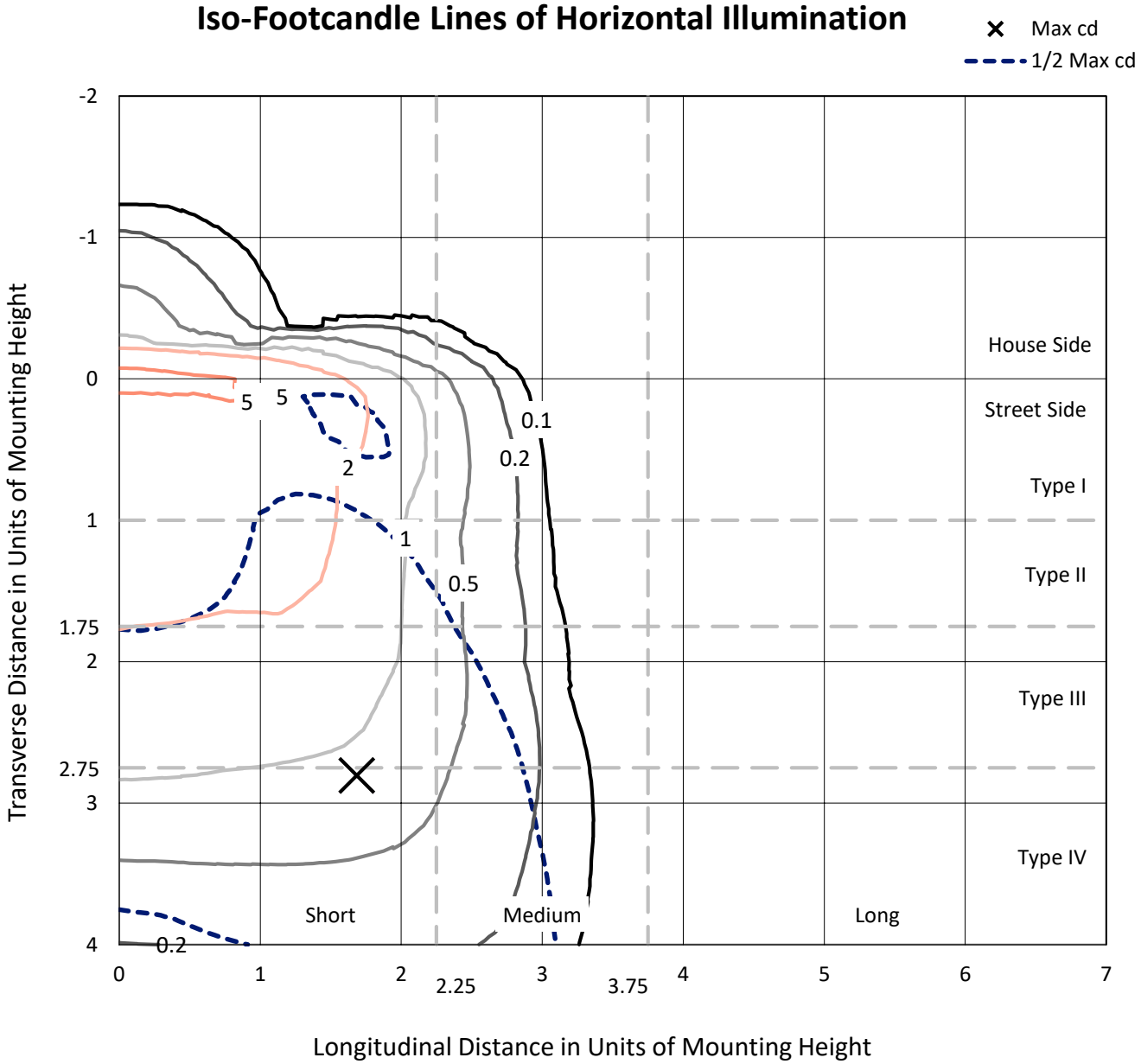
Scaled Data Report

REPORT NUMBER: P322721
CATALOG NUMBER: GLEON-SA7B-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
Type IV - Short - N/A

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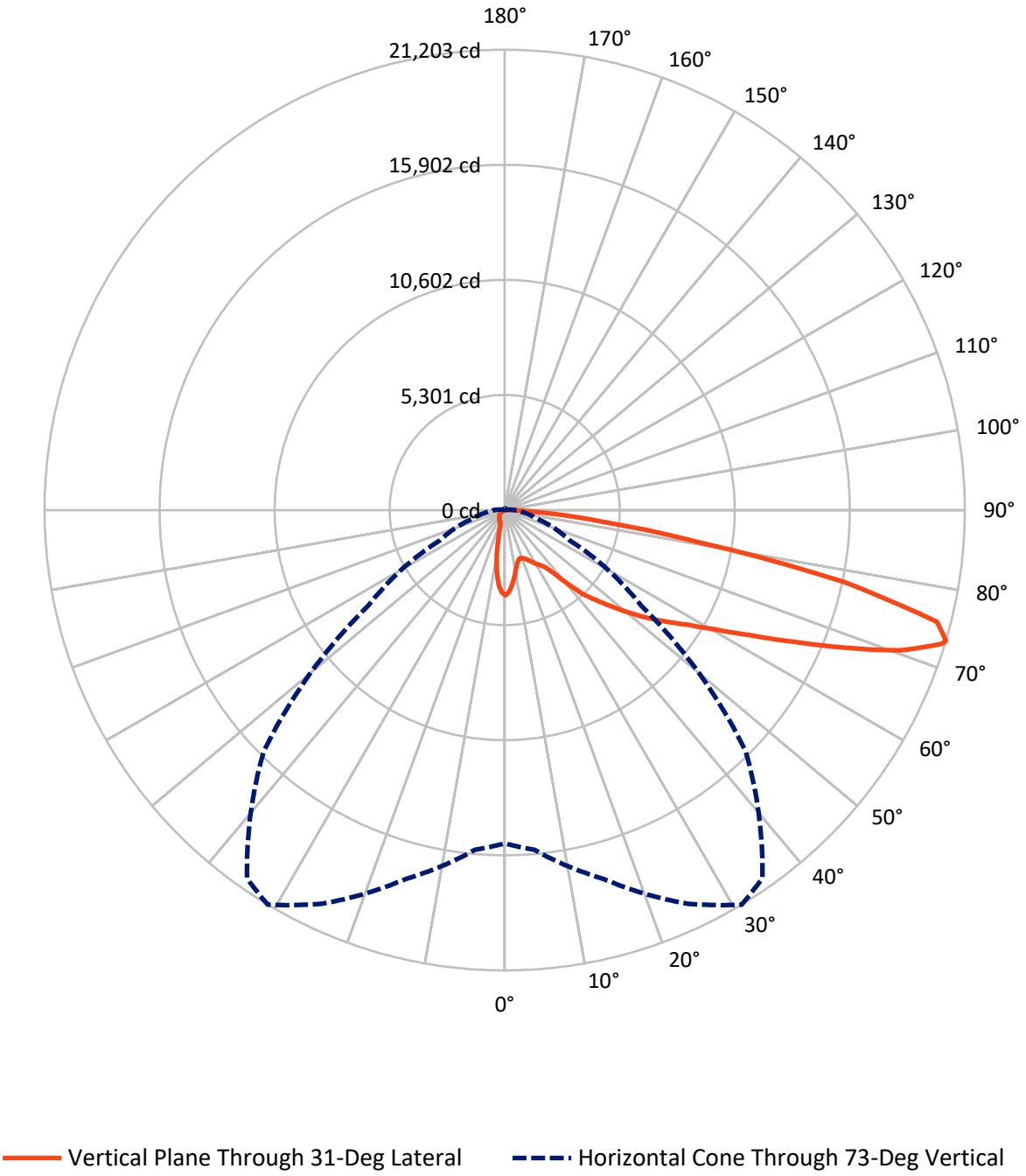
Luminous Intensity Polar Plot



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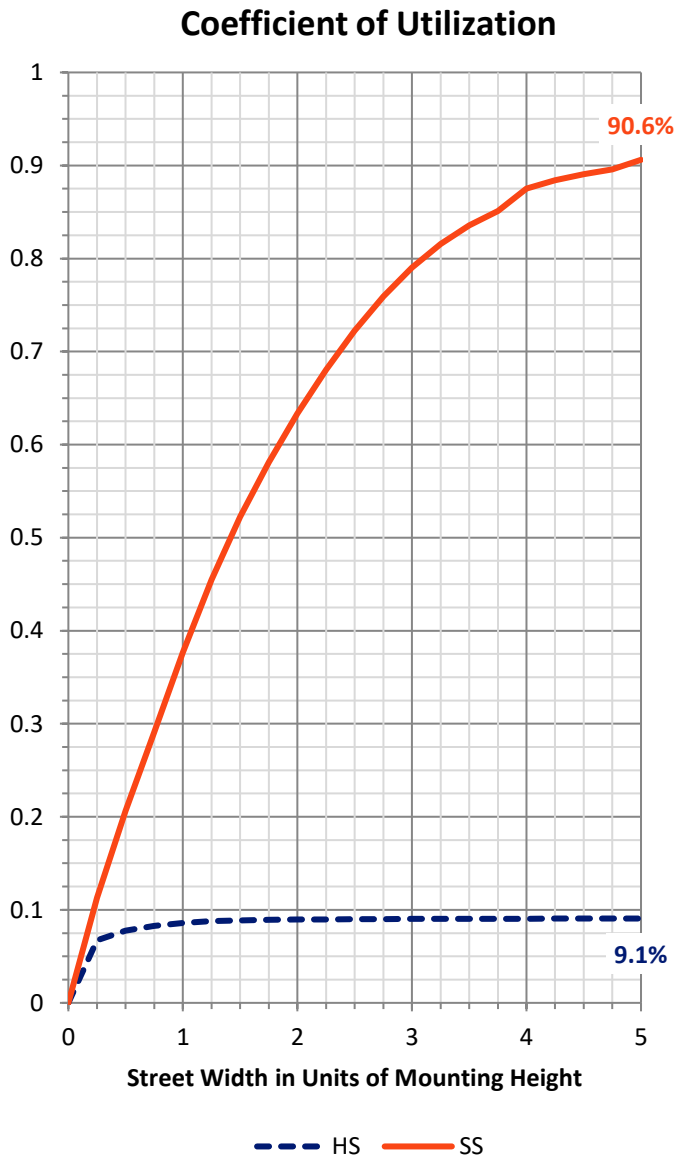
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2079.2	0.0	2079.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	20730.8	0.0	20730.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	22810.0	0.0	22810.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.4	1.4
10°-20°	706.5	3.1
20°-30°	1058.6	4.6
30°-40°	1684.2	7.4
40°-50°	3007.5	13.2
50°-60°	4666.8	20.5
60°-70°	6203.9	27.2
70°-80°	4666.6	20.5
80°-90°	490.4	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°	22810.0	100.0
0°-180°	22810.0	100.0



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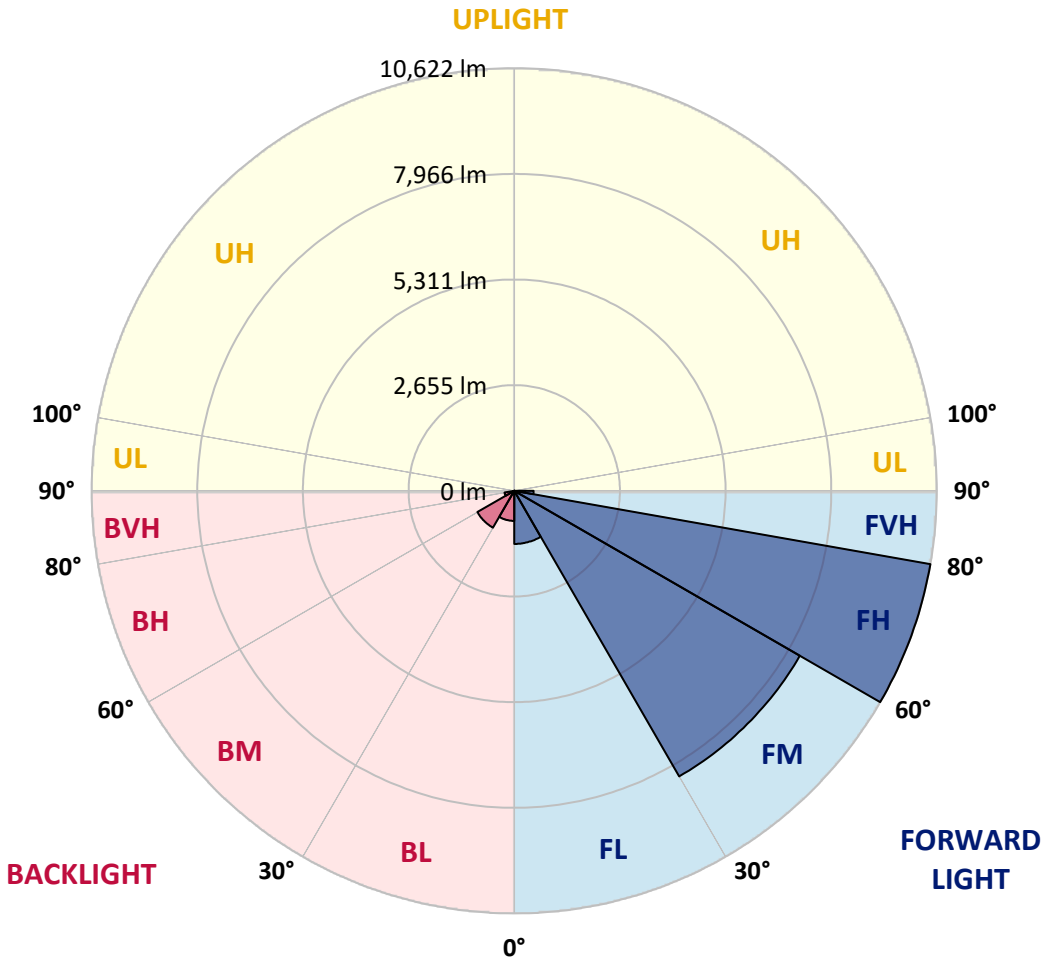
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1334.4	5.9			
FM	(30°-60°)	8288.4	36.3			
FH	(60°-80°)	10621.8	46.6			G4/12000
FVH	(80°-90°)	486.2	2.1			G3/500
BL	(0°-30°)	756.1	3.3	B2/1000		
BM	(30°-60°)	1070.2	4.7	B2/2500		
BH	(60°-80°)	248.8	1.1	B1/500		G1/500
BVH	(80°-90°)	4.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
Type IV Short



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REPORT NUMBER: P322721
CATALOG NUMBER: GLEON-SA7B-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5
2.5°	3719.1	3734.8	3751.5	3754.8	3782.8	3783.9	3824.1	3854.2	3884.3	3913.3	3923.4
5°	3337.4	3363.1	3393.2	3423.3	3482.5	3505.9	3604.2	3704.6	3800.6	3892.1	3936.8
7.5°	2930.0	2959.0	3001.4	3076.2	3142.1	3187.8	3343.0	3521.6	3700.2	3868.7	3965.8
10°	2558.3	2585.1	2629.7	2709.0	2810.6	2873.1	3081.8	3329.6	3591.9	3847.5	4009.3
12.5°	2321.7	2336.2	2360.7	2445.6	2537.1	2607.4	2853.0	3159.9	3502.6	3846.4	4079.7
15°	2278.1	2282.6	2262.5	2300.5	2371.9	2440.0	2688.9	3022.6	3434.5	3864.2	4171.2
17.5°	2347.3	2345.1	2278.1	2273.7	2330.6	2386.4	2608.5	2927.8	3386.5	3905.5	4289.5
20°	2452.3	2444.4	2328.4	2307.2	2367.4	2419.9	2602.9	2892.0	3368.6	3974.7	4433.5
22.5°	2591.8	2578.4	2396.4	2374.1	2438.9	2493.6	2672.1	2926.6	3384.3	4067.4	4600.9
25°	2764.8	2744.7	2513.6	2489.1	2554.9	2609.6	2796.0	3026.0	3431.2	4180.1	4813.0
27.5°	2960.1	2931.1	2701.2	2637.5	2712.3	2769.3	2961.2	3177.8	3504.8	4299.5	5073.1
30°	3144.3	3106.3	2898.7	2793.8	2885.3	2949.0	3139.8	3358.6	3623.1	4483.7	5429.1
32.5°	3329.6	3287.2	3075.1	2950.1	3032.7	3101.9	3324.0	3607.5	3845.3	4765.0	5902.4
35°	3756.0	3711.3	3451.2	3244.8	3243.6	3282.7	3581.8	3947.9	4138.8	5156.8	6467.2
37.5°	4473.7	4448.0	4200.2	3808.4	3703.5	3660.0	3933.4	4354.2	4560.7	5695.9	7104.5
40°	5259.5	5237.1	4959.2	4604.3	4444.6	4337.5	4438.0	4920.1	5156.8	6354.4	7755.3
42.5°	6146.8	6040.8	5545.2	5439.2	5296.3	5214.8	5124.4	5617.8	5889.0	7071.0	8400.4
45°	6952.7	6774.1	6131.2	5970.5	5938.1	5958.2	6008.4	6555.4	6712.7	7922.7	9043.3
47.5°	7432.7	7292.0	6798.7	6644.7	6635.7	6768.5	7148.1	7614.6	7533.1	8664.9	9609.2
50°	7889.2	7762.0	7352.3	7390.3	7431.6	7612.4	8441.7	8704.0	8282.1	9338.0	10128.3
52.5°	8258.7	8064.4	7850.1	8063.3	8266.5	8557.8	9776.7	9681.8	8813.4	9873.8	10572.5
55°	8471.8	8383.7	8487.5	8701.8	9083.5	9556.8	11036.8	10495.5	9201.8	10362.7	10868.3
57.5°	9253.2	9080.2	9286.7	9471.9	9969.8	10631.7	12116.2	11101.6	9482.0	10665.1	10936.4
60°	10198.6	10059.1	10180.7	10488.8	11160.7	11938.7	13125.2	11596.0	9628.2	10859.4	10760.0
62.5°	11703.2	11519.0	11443.1	11788.0	12678.7	13528.2	13890.9	11938.7	9595.8	10773.4	10155.1
65°	13719.0	13528.2	13188.8	13501.4	14634.3	15233.7	14747.0	12011.3	9372.6	10078.0	8625.9
67.5°	15784.0	15645.6	15355.4	15882.2	16904.6	17097.7	15652.3	11834.9	8653.8	8171.6	6094.4
70°	17148.0	17088.8	17277.4	18442.7	19354.7	19298.8	16482.7	10887.3	6745.1	5025.1	3014.8
72.5°	16164.6	16448.1	17841.1	19954.0	21068.0	20612.6	16056.3	8360.2	3855.3	1933.2	871.7
73°	15349.8	15712.5	17587.7	20011.0	21203.1	20704.1	15698.0	7673.8	3286.0	1525.8	660.8
75°	10678.5	11123.9	14560.6	18636.9	20571.3	19726.3	13085.0	4696.9	1522.5	676.4	266.8
77.5°	5184.7	5514.0	8017.6	13465.7	15998.3	15412.3	8145.9	1750.2	687.6	423.0	122.8
80°	1935.5	2152.0	3480.3	6853.4	9245.4	9487.6	3583.0	661.9	457.6	340.4	62.5
82.5°	506.7	564.8	1283.6	3056.1	4738.2	4959.2	1129.6	333.7	334.9	280.2	38.0
85°	161.8	185.3	400.7	1371.8	2232.4	1960.0	294.7	161.8	243.3	208.7	21.2
87.5°	20.1	25.7	127.2	322.6	492.2	273.5	45.8	48.0	103.8	116.1	12.3
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: P322721
CATALOG NUMBER: GLEON-SA7B-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5	3924.5
2.5°	3933.4	3927.9	3929.0	3900.0	3881.0	3843.0	3804.0	3786.1	3767.1	3759.3	3767.1
5°	3953.5	3943.5	3914.5	3825.2	3730.3	3607.5	3492.5	3405.5	3296.1	3266.0	3297.2
7.5°	3984.8	3964.7	3879.9	3697.9	3487.0	3252.6	2989.1	2797.2	2639.8	2538.2	2575.0
10°	4030.5	3992.6	3821.8	3512.6	3135.4	2720.1	2346.2	2054.9	1848.4	1763.6	1760.2
12.5°	4107.6	4036.1	3750.4	3271.5	2705.6	2152.0	1662.0	1346.1	1178.7	1070.4	1068.2
15°	4192.4	4087.5	3660.0	2982.4	2205.6	1541.5	1070.4	830.4	722.2	687.6	683.1
17.5°	4296.2	4146.6	3542.8	2626.4	1682.1	1021.3	698.7	629.5	625.1	621.7	621.7
20°	4426.8	4216.9	3392.1	2219.0	1193.2	682.0	593.8	598.3	600.5	596.0	597.2
22.5°	4578.6	4288.4	3212.4	1781.4	807.0	570.4	568.1	573.7	576.0	573.7	574.8
25°	4754.9	4371.0	2993.6	1322.7	582.6	541.3	546.9	554.7	560.3	560.3	560.3
27.5°	4973.7	4471.4	2730.2	923.1	503.4	511.2	526.8	541.3	549.2	551.4	551.4
30°	5258.3	4596.5	2414.3	632.9	457.6	471.0	500.1	528.0	542.5	544.7	545.8
32.5°	5617.8	4737.1	2048.2	467.7	418.6	428.6	459.9	506.7	534.7	539.1	539.1
35°	6029.6	4900.1	1654.2	407.4	390.7	394.0	418.6	472.1	521.3	533.5	534.7
37.5°	6480.6	5060.8	1257.9	380.6	367.2	367.2	385.1	430.8	488.9	526.8	531.3
40°	6901.4	5157.9	881.8	359.4	346.0	346.0	361.6	395.1	449.8	506.7	519.0
42.5°	7289.8	5191.4	613.9	339.3	325.9	329.3	342.7	369.5	410.8	467.7	478.8
45°	7689.4	5185.8	447.6	315.9	305.8	315.9	325.9	346.0	376.2	408.5	410.8
47.5°	7990.8	5138.9	354.9	293.6	286.9	300.3	309.2	322.6	339.3	337.1	337.1
50°	8273.2	5025.1	285.7	263.4	267.9	283.5	288.0	292.4	293.6	272.3	270.1
52.5°	8487.5	4847.6	228.8	231.1	248.9	264.5	260.1	253.4	242.2	216.5	212.1
55°	8558.9	4506.0	179.7	190.9	221.0	241.1	224.4	209.8	188.6	167.4	163.0
57.5°	8429.4	4065.1	146.2	148.5	186.4	203.1	184.2	167.4	144.0	126.1	122.8
60°	8154.8	3575.1	120.5	111.6	144.0	158.5	146.2	129.5	108.3	94.9	93.8
62.5°	7610.2	3052.8	99.3	87.1	109.4	121.7	113.9	101.6	83.7	74.8	73.7
65°	6464.9	2442.2	80.4	70.3	84.8	94.9	88.2	79.2	65.9	59.2	58.0
67.5°	4512.7	1650.8	65.9	58.0	67.0	74.8	69.2	64.7	52.5	51.3	52.5
70°	2176.6	795.8	54.7	46.9	52.5	58.0	55.8	52.5	50.2	58.0	67.0
72.5°	623.9	266.8	43.5	39.1	42.4	45.8	48.0	46.9	54.7	70.3	81.5
73°	*480.0*	*215.4*	*41.3*	*36.8*	*40.2*	*44.6*	*46.9*	*45.8*	*55.8*	*71.4*	*81.5*
75°	205.4	103.8	31.3	30.1	33.5	39.1	41.3	41.3	55.8	72.6	78.1
77.5°	92.6	55.8	20.1	23.4	29.0	31.3	34.6	34.6	44.6	55.8	55.8
80°	52.5	30.1	15.6	17.9	21.2	21.2	21.2	19.0	20.1	22.3	24.6
82.5°	33.5	20.1	12.3	14.5	13.4	11.2	8.9	8.9	7.8	8.9	11.2
85°	19.0	11.2	11.2	8.9	5.6	4.5	5.6	4.5	1.1	0.0	1.1
87.5°	11.2	6.7	3.3	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

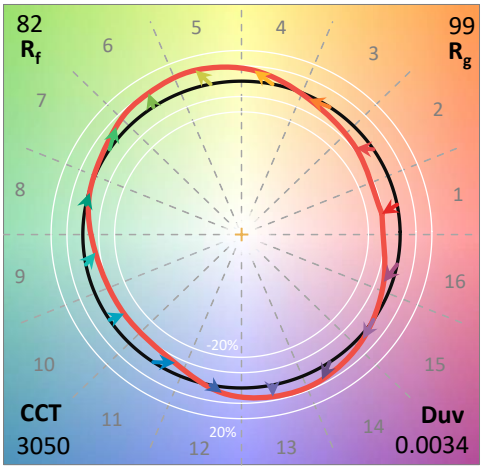
Test Information

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

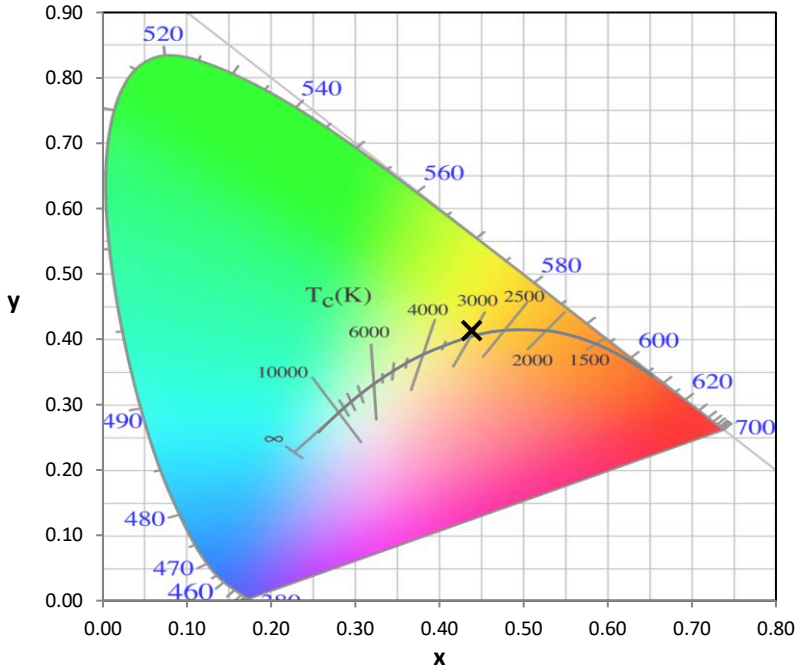
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

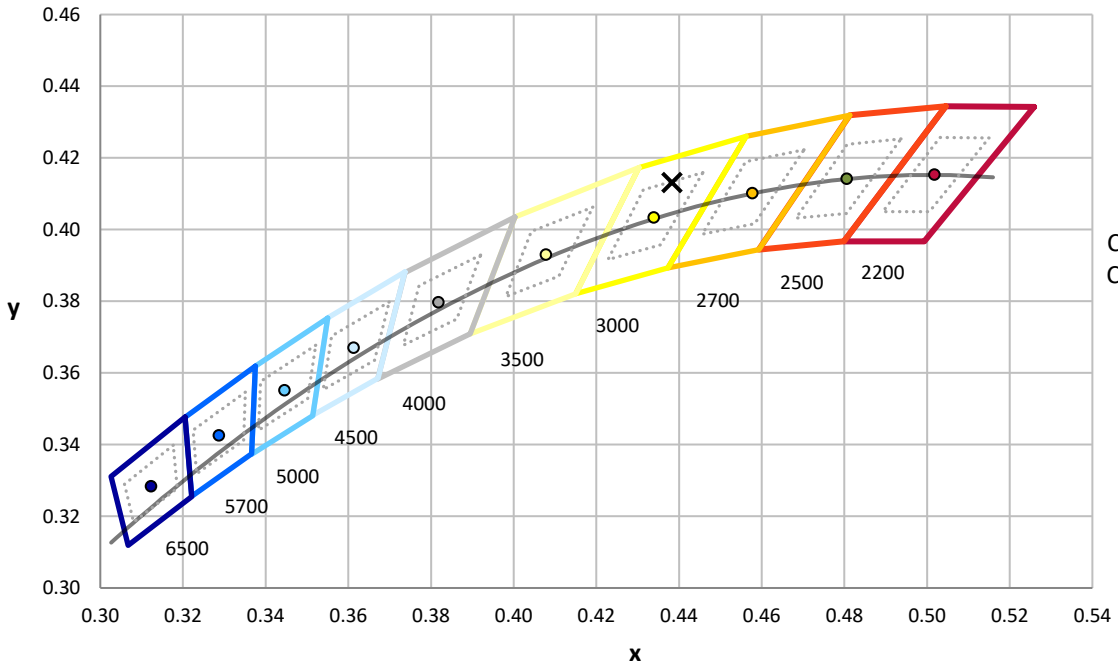
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

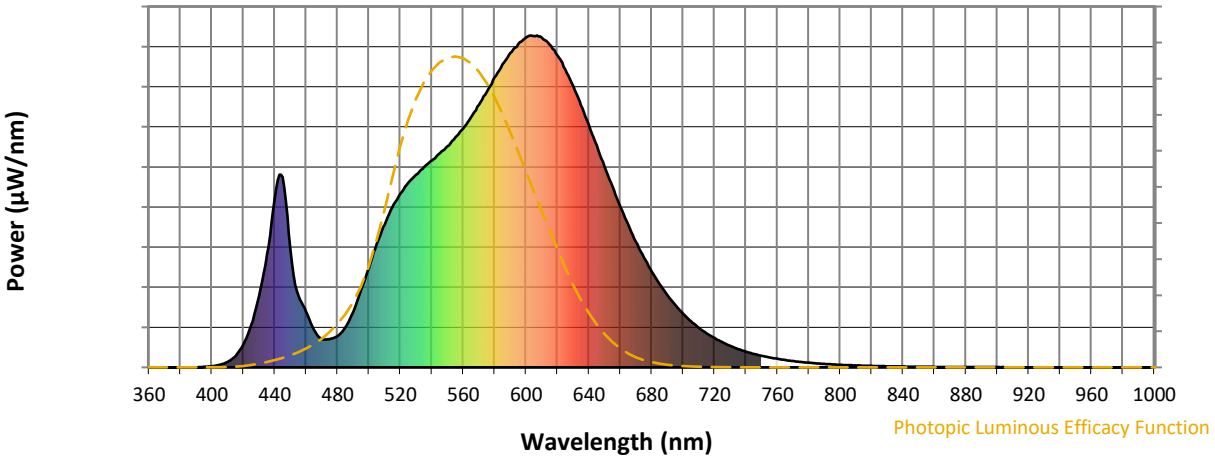


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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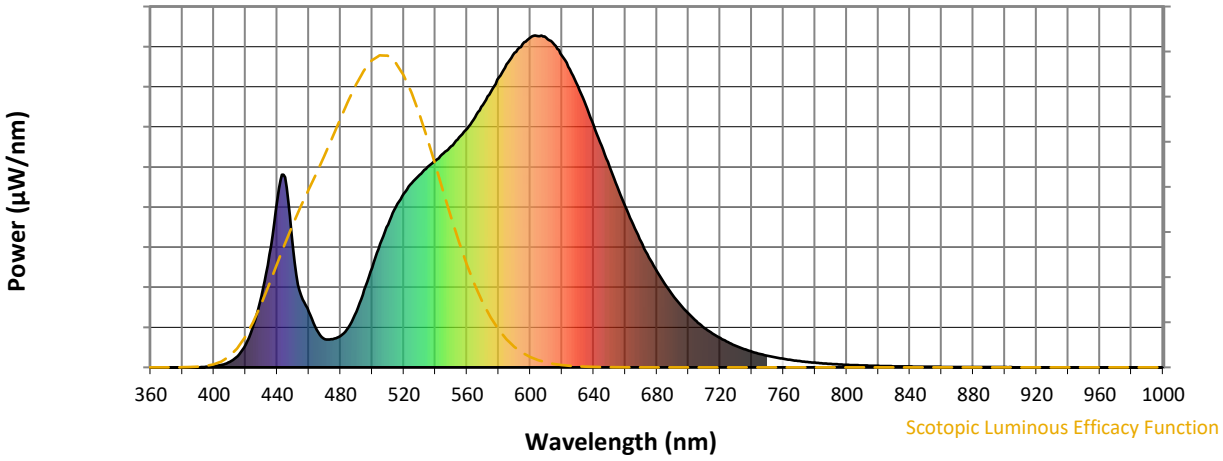
Scotopic Flux vs. Wavelength



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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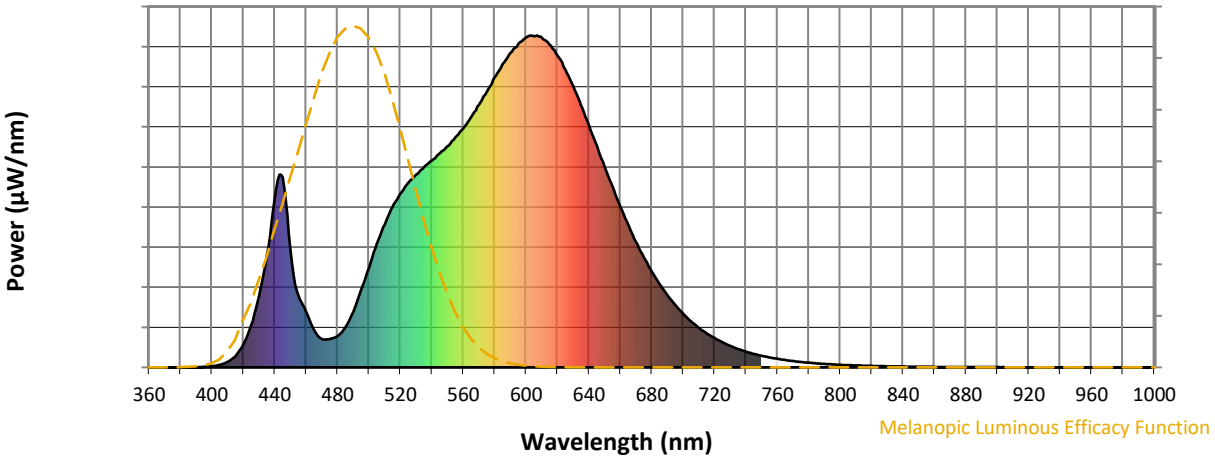
Melanopic Flux vs. Wavelength



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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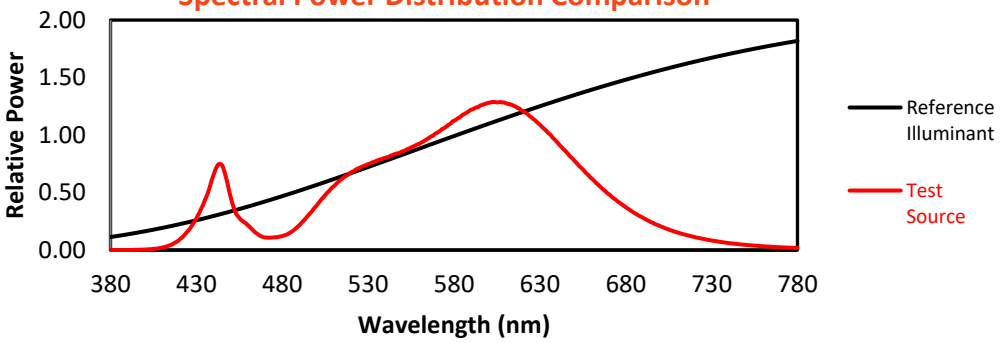
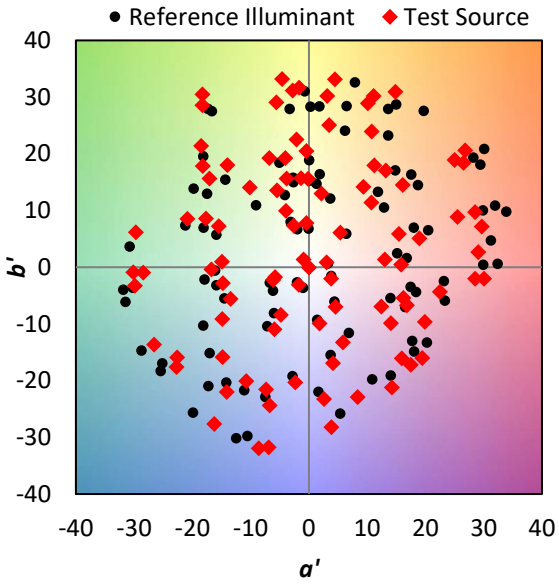
Summary

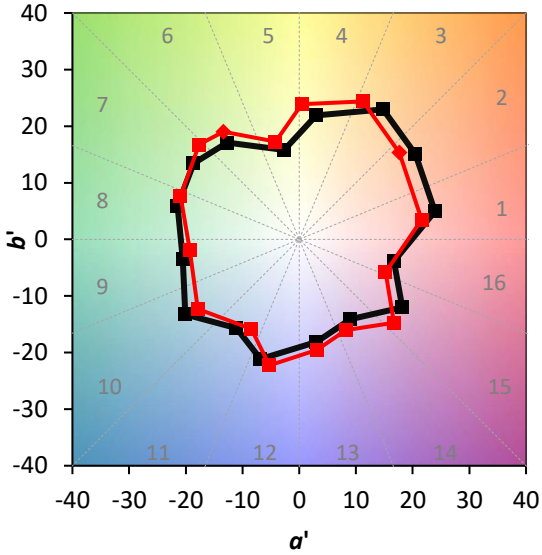
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

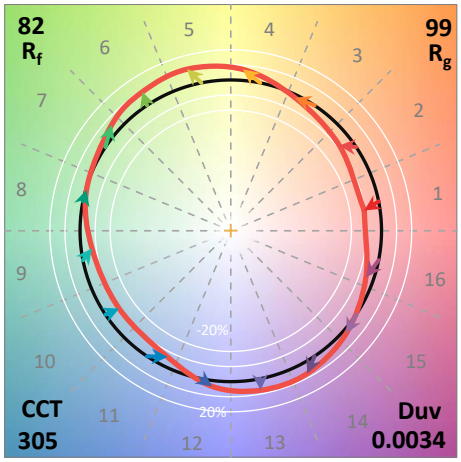
Spectral Power Distribution Comparison

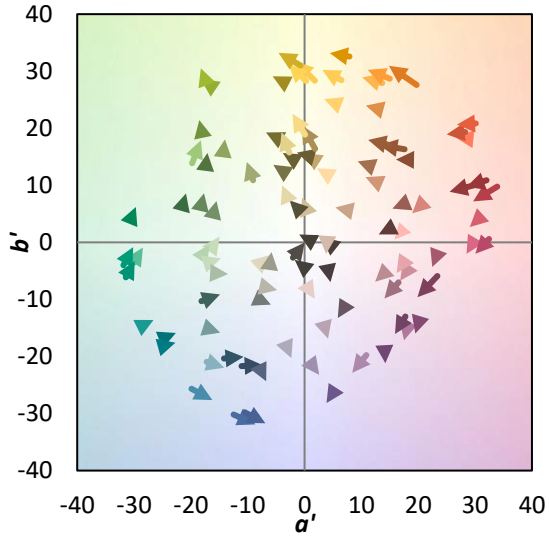


Color Vector Graphics









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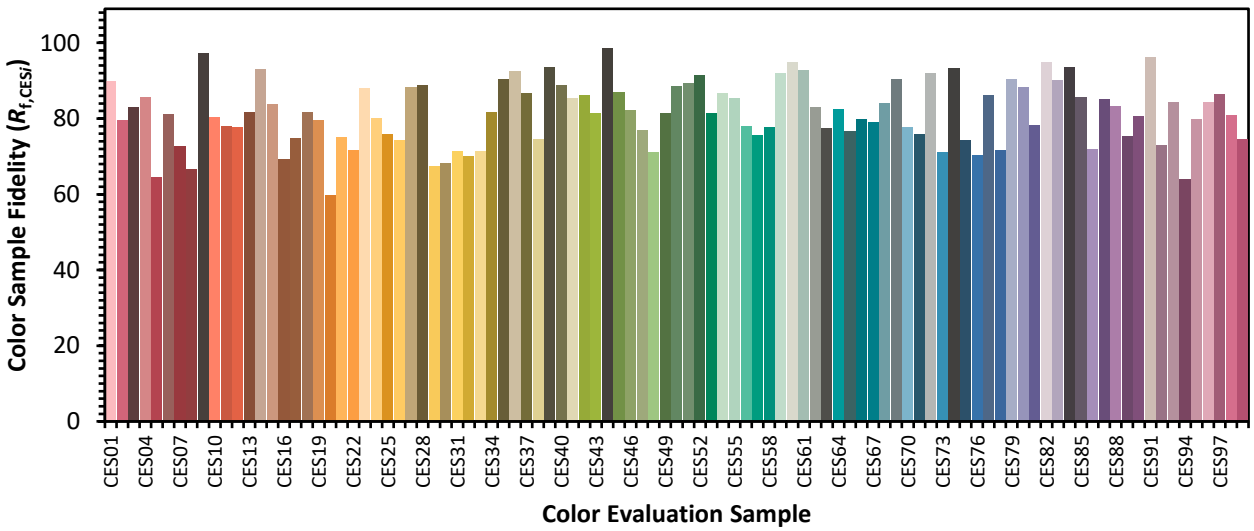
Individual Sample Fidelity Index ($R_{f,i}$)

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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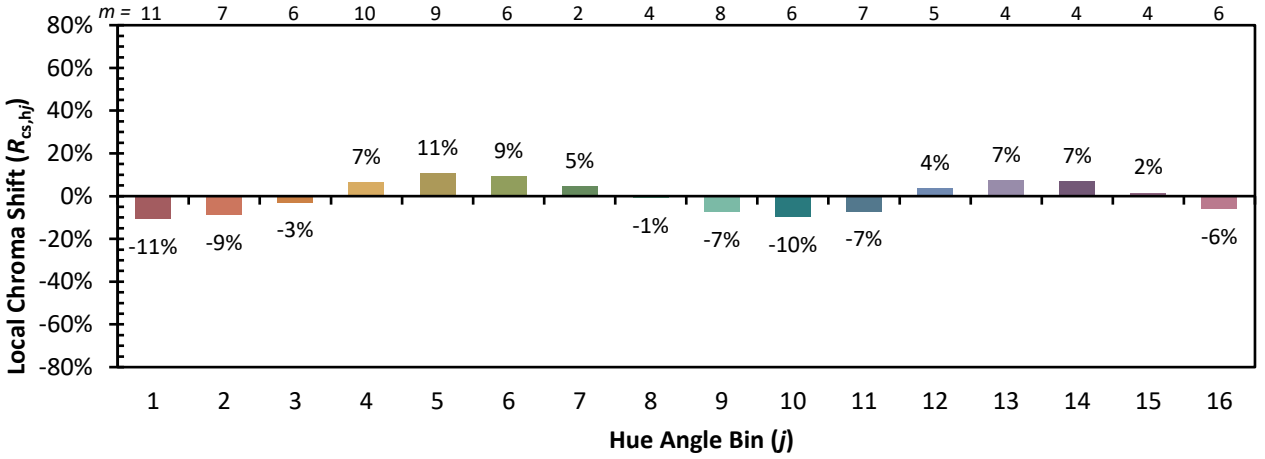
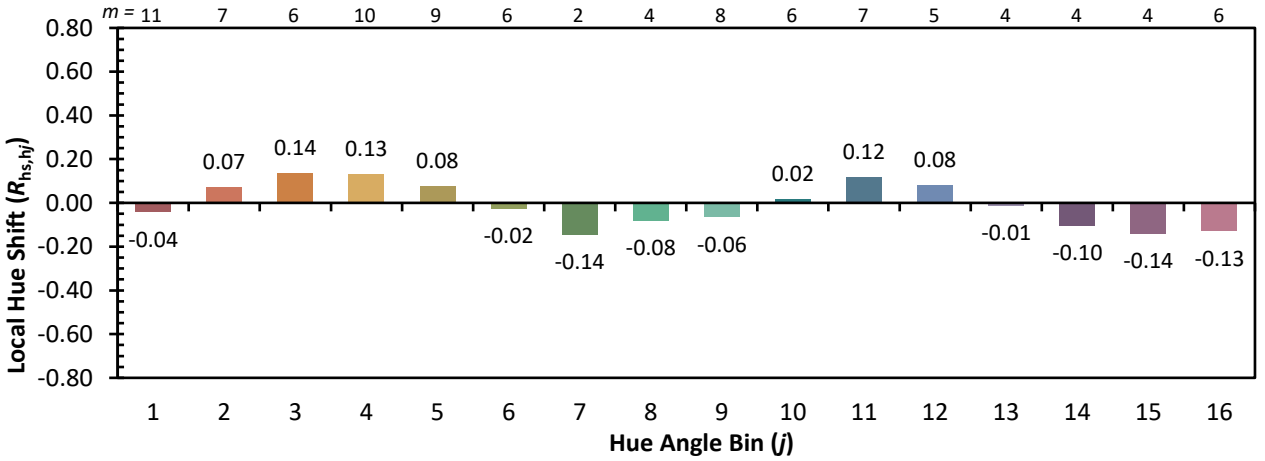
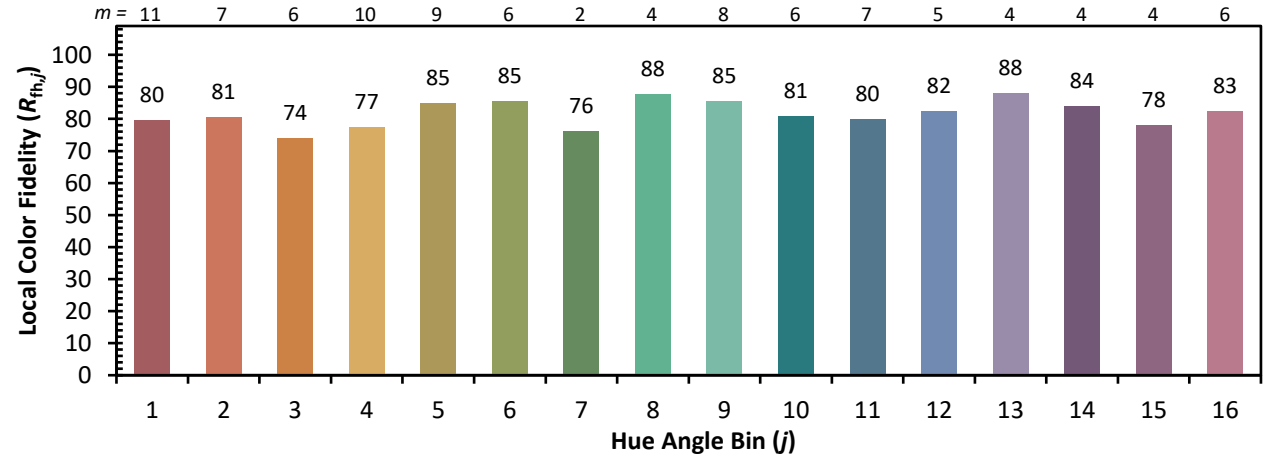
Color Rendition by Hue-Angle Bin







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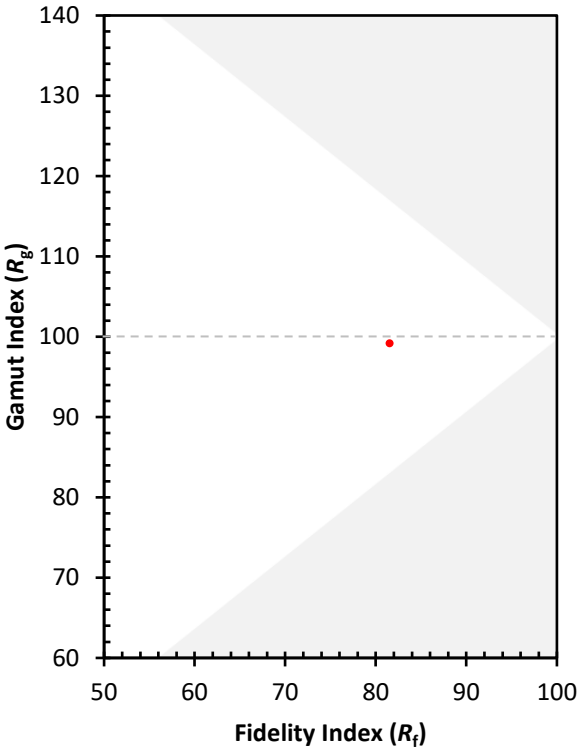
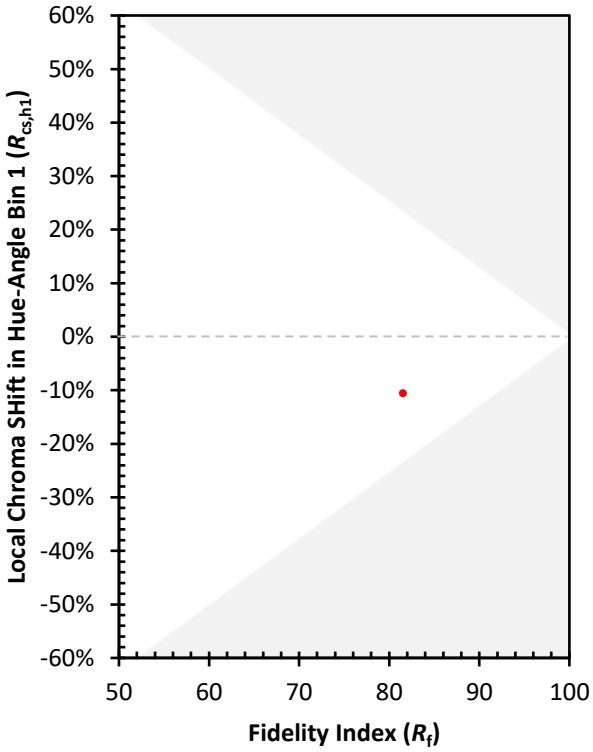
Measure Comparisons





(END OF REPORT)