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: P319828

Luminaire Tested: **GLEON-SA4A-830-U-SL3**

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:	P319828
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA4A-830-U-SL3
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14939 lumens
Efficiency:	N/A
Efficacy:	115.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G3

Input Watts (W):	129
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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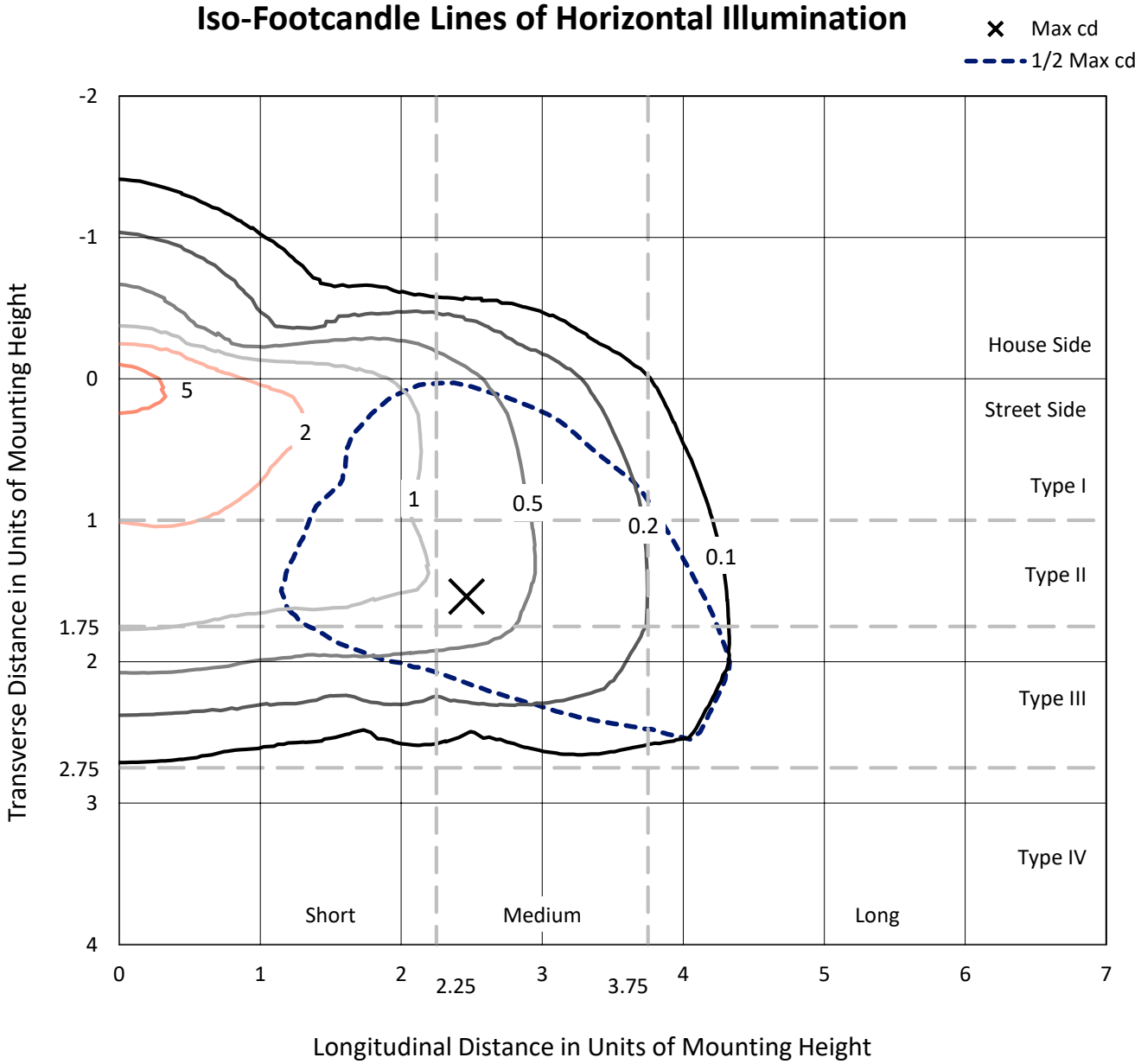
Scaled Data Report

REPORT NUMBER: P319828
CATALOG NUMBER: GLEON-SA4A-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type III - Medium - N/A

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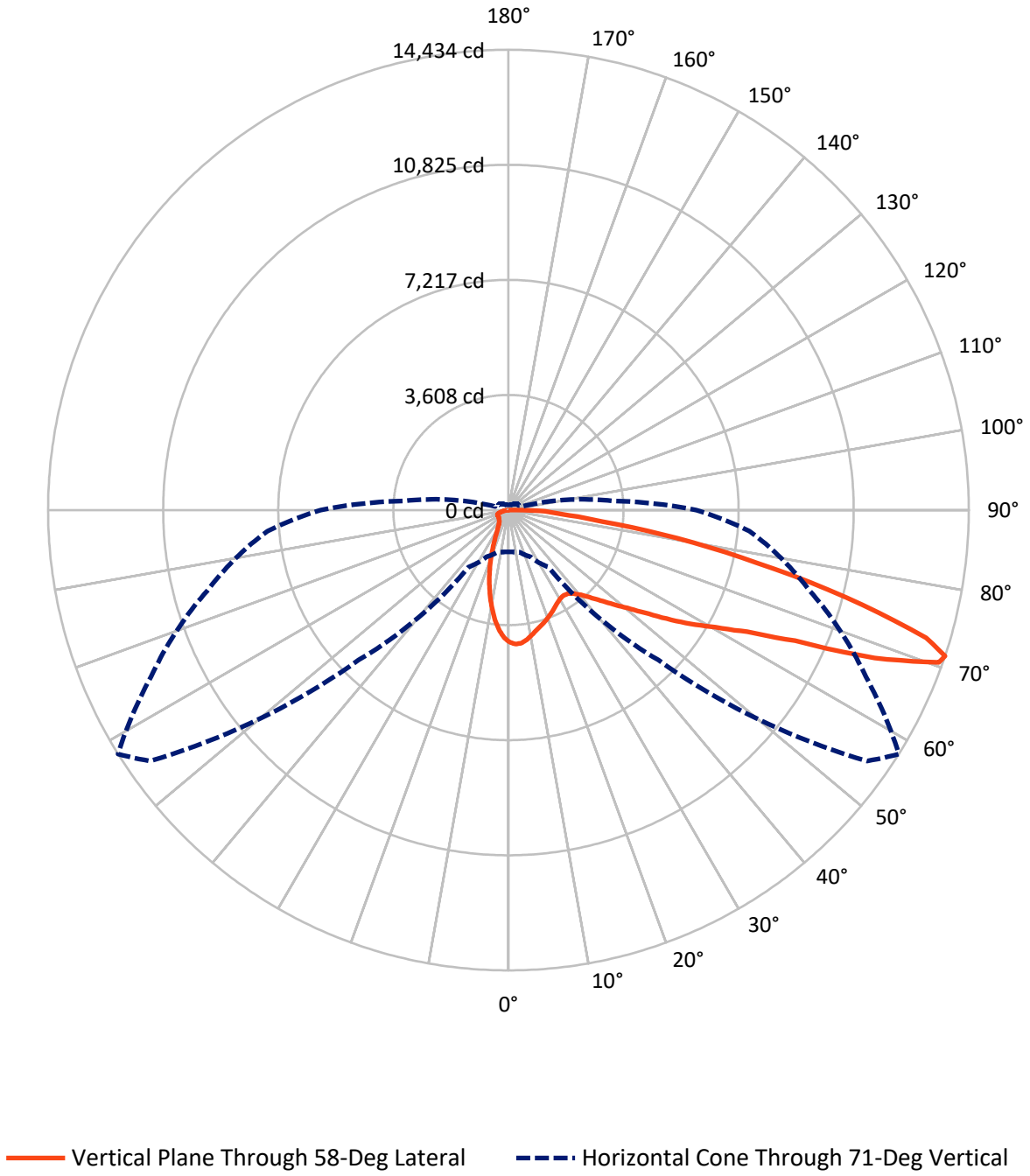
Luminous Intensity Polar Plot



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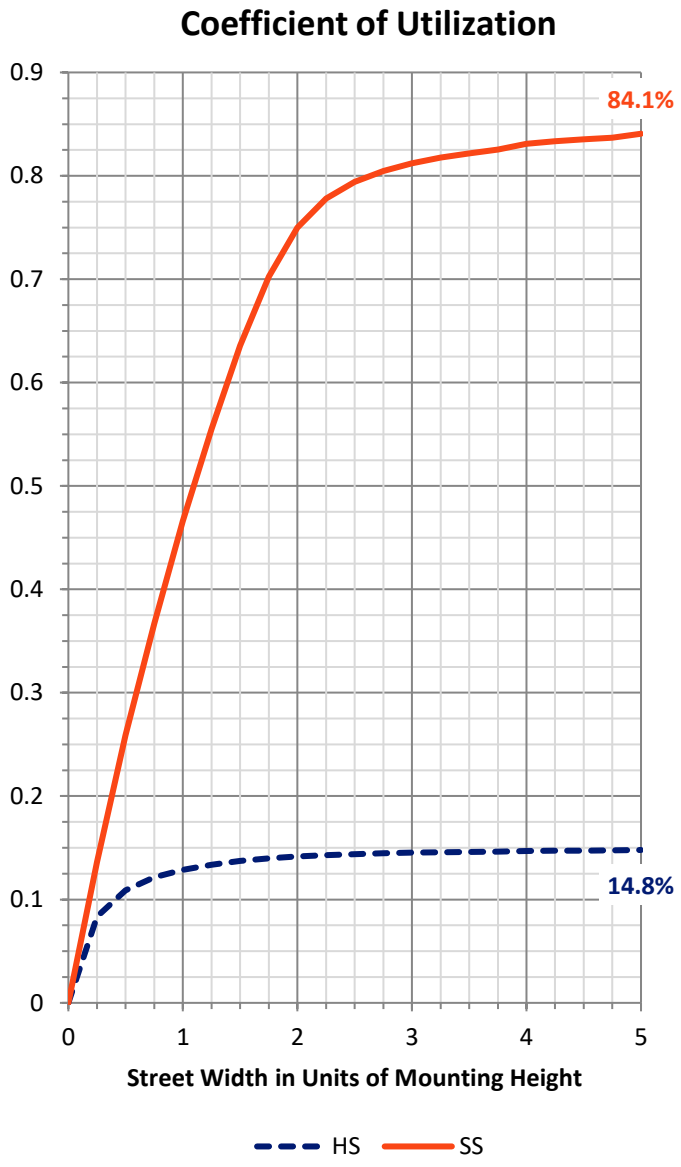
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2233.5	0.0	2233.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	12705.5	0.0	12705.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	14939.0	0.0	14939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.1	2.4
10°-20°	794.0	5.3
20°-30°	1009.1	6.8
30°-40°	1285.4	8.6
40°-50°	1822.8	12.2
50°-60°	2820.8	18.9
60°-70°	3840.1	25.7
70°-80°	2561.8	17.1
80°-90°	447.9	3.0
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°	14939.0	100.0
0°-180°	14939.0	100.0



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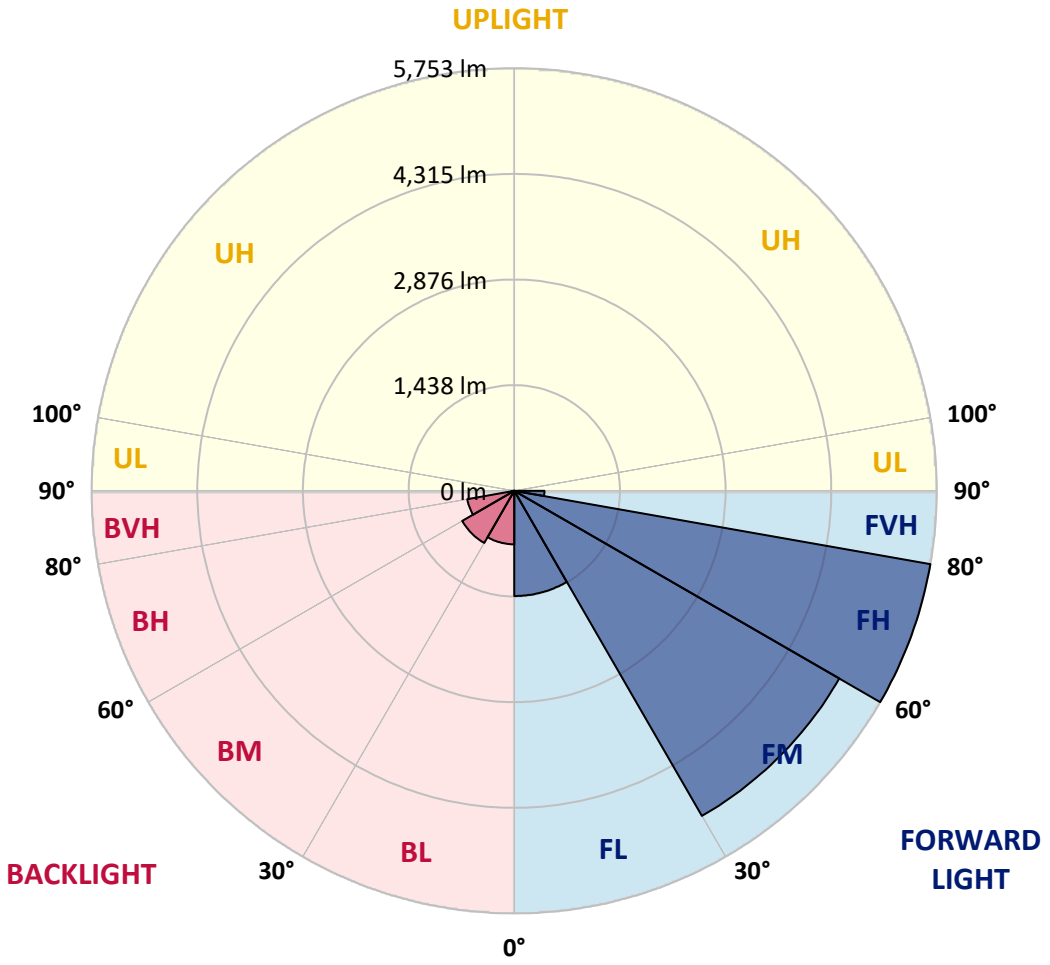
CATALOG NUMBER: GLEON-SA4A-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1432.1	9.6			
FM	(30°-60°)	5109.9	34.2			
FH	(60°-80°)	5752.8	38.5			G3/7500
FVH	(80°-90°)	410.7	2.7			G3/500
BL	(0°-30°)	728.0	4.9	B2/1000		
BM	(30°-60°)	819.1	5.5	B1/1000		
BH	(60°-80°)	649.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	37.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type III Medium



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Scaled Data Report

REPORT NUMBER: P319828
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1
2.5°	4248.9	4243.2	4245.3	4241.1	4231.2	4221.3	4206.8	4209.4	4189.1	4158.9	4121.4
5°	4168.8	4166.7	4182.3	4191.1	4198.4	4192.7	4188.5	4193.7	4164.1	4122.4	4057.4
7.5°	4000.7	3977.8	3997.6	4027.2	4055.3	4076.7	4104.8	4108.4	4089.7	4046.0	3960.6
10°	3761.8	3740.0	3769.1	3815.4	3871.6	3922.6	3979.3	3989.8	3993.4	3953.8	3850.3
12.5°	3514.1	3497.5	3526.6	3591.7	3684.8	3763.4	3853.9	3869.5	3901.8	3875.3	3748.3
15°	3292.4	3286.2	3321.6	3385.6	3492.8	3613.0	3743.6	3772.2	3826.9	3818.0	3668.7
17.5°	3100.9	3099.4	3126.4	3193.6	3312.2	3464.2	3633.8	3682.2	3763.4	3773.8	3603.1
20°	2958.4	2955.2	2974.0	3023.4	3145.7	3317.9	3515.2	3581.8	3698.9	3735.3	3535.5
22.5°	2881.9	2881.3	2881.9	2905.3	3005.2	3165.5	3399.6	3480.8	3635.9	3704.6	3460.5
25°	2868.9	2867.3	2855.8	2853.2	2910.0	3038.0	3285.2	3374.7	3576.1	3683.2	3389.2
27.5°	2902.7	2904.8	2889.7	2865.2	2876.7	2954.2	3185.8	3281.5	3528.2	3679.1	3339.8
30°	2972.9	2971.9	2958.9	2933.4	2911.0	2923.0	3115.0	3210.7	3495.9	3697.3	3306.0
32.5°	3050.5	3056.2	3053.6	3039.5	3006.2	2958.4	3093.7	3187.3	3486.5	3741.0	3291.4
35°	3143.6	3149.9	3168.6	3179.5	3140.5	3063.5	3139.5	3220.6	3513.6	3823.2	3314.8
37.5°	3232.1	3248.2	3300.8	3347.1	3313.8	3227.9	3261.2	3319.0	3597.4	3952.8	3377.8
40°	3334.1	3348.1	3434.0	3532.3	3527.1	3438.1	3457.4	3495.9	3745.2	4138.6	3491.7
42.5°	3434.5	3462.6	3587.0	3726.4	3766.5	3687.9	3718.6	3738.9	3953.3	4384.7	3690.5
45°	3568.2	3598.4	3771.2	3939.3	4032.9	3988.7	4037.6	4045.4	4215.1	4719.8	3979.3
47.5°	3770.7	3805.0	4006.4	4182.8	4325.9	4330.6	4411.3	4408.1	4541.9	5103.4	4343.1
50°	4086.0	4135.5	4300.4	4465.4	4639.2	4736.0	4843.7	4828.6	4933.7	5511.9	4762.0
52.5°	4499.2	4522.1	4644.4	4766.2	4982.1	5199.1	5353.7	5340.1	5378.1	5931.8	5237.6
55°	4927.5	4944.6	4995.1	5061.7	5352.1	5706.0	6032.8	6011.4	5915.2	6367.9	5707.5
57.5°	5312.6	5347.4	5382.3	5409.9	5724.7	6235.7	6727.5	6729.0	6498.0	6838.3	6193.0
60°	5372.4	5403.1	5633.6	5851.2	6362.2	6942.4	7471.1	7455.5	7101.1	7348.8	6734.2
62.5°	4749.0	4818.2	5203.3	5781.9	6976.2	8235.0	8419.7	8400.5	7822.4	7977.9	7364.4
65°	3403.3	3481.9	3946.6	4816.1	6678.6	9659.3	10131.8	9872.6	8805.9	8751.7	8102.3
67.5°	1963.4	1982.1	2183.5	2881.9	5085.2	9733.7	12743.6	12380.9	10333.2	9629.6	8463.5
70°	1451.9	1451.3	1499.2	1773.5	2751.8	7944.1	13985.7	14311.0	11941.2	9918.4	7953.0
71°	1312.9	1314.5	1368.1	1614.2	2179.4	6649.4	13721.9	14433.8	12364.7	9775.9	7583.5
72.5°	1123.0	1128.2	1202.6	1447.7	1833.3	4585.6	12585.4	13696.9	12565.6	9424.1	7005.4
75°	851.9	863.8	966.9	1220.3	1675.6	2325.6	9236.7	10937.3	11162.7	8315.7	5205.4
77.5°	607.8	621.3	737.9	1026.2	1592.9	1752.6	6185.8	7977.9	8214.7	5329.2	2348.0
80°	384.0	400.2	488.1	816.5	1496.6	1664.2	3887.2	5362.5	4479.4	1705.3	597.4
82.5°	225.3	237.8	302.9	533.4	1222.4	1602.8	2287.1	2972.4	1743.3	515.2	271.6
85°	130.6	136.3	188.9	339.8	887.8	1512.7	1680.3	1661.6	756.6	251.9	128.5
87.5°	60.9	67.6	111.9	177.4	492.8	1096.4	1328.0	1147.4	470.4	118.1	60.4
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: P319828
CATALOG NUMBER: GLEON-SA4A-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1
2.5°	4103.2	4094.3	4057.4	4024.6	3990.3	3945.5	3896.1	3889.8	3859.7	3865.4	3855.0
5°	4022.0	3999.6	3910.7	3830.0	3734.8	3649.4	3556.8	3514.1	3452.7	3448.6	3432.9
7.5°	3906.0	3864.3	3726.4	3573.4	3420.5	3274.8	3130.6	3035.9	2939.1	2898.0	2894.4
10°	3775.4	3704.6	3501.6	3275.3	3054.6	2841.8	2635.7	2483.3	2345.9	2280.8	2278.2
12.5°	3651.5	3546.9	3268.5	2960.4	2658.6	2382.8	2100.3	1899.9	1727.7	1669.9	1645.4
15°	3546.4	3399.1	3041.6	2647.7	2281.3	1898.3	1576.8	1366.0	1206.8	1151.6	1141.2
17.5°	3444.4	3255.0	2809.0	2331.8	1889.0	1468.0	1145.9	989.2	904.4	882.0	881.5
20°	3342.9	3106.7	2566.0	2008.7	1509.6	1098.0	881.0	810.8	782.1	779.5	775.4
22.5°	3227.9	2949.5	2310.5	1684.5	1178.1	863.3	748.8	720.7	717.1	726.5	726.5
25°	3120.2	2793.4	2051.3	1367.0	916.4	720.2	668.7	663.0	672.9	689.5	691.1
27.5°	3019.8	2643.0	1798.4	1085.0	734.3	634.3	613.0	619.8	637.5	656.7	657.2
30°	2937.0	2500.9	1552.8	855.0	620.3	570.3	566.7	580.2	599.5	614.6	618.2
32.5°	2873.0	2379.7	1315.5	687.4	545.9	522.5	525.6	537.0	549.0	557.3	563.1
35°	2843.4	2275.6	1096.4	579.7	498.5	485.5	489.7	495.9	501.1	507.4	512.1
37.5°	2848.6	2195.0	900.8	512.6	466.8	460.0	460.0	460.0	460.0	463.1	463.7
40°	2897.0	2148.6	741.5	469.9	445.4	438.2	432.4	427.2	423.1	425.2	424.1
42.5°	3020.8	2144.5	625.0	442.8	428.3	416.3	404.9	397.6	392.4	394.4	395.5
45°	3231.0	2196.5	546.4	423.6	412.1	393.9	379.4	371.6	367.9	374.7	375.7
47.5°	3503.2	2310.0	498.5	409.5	397.0	373.1	357.5	350.2	351.3	361.1	363.7
50°	3853.9	2494.2	475.6	400.7	386.6	355.4	339.3	333.0	336.2	350.2	353.3
52.5°	4239.0	2759.6	478.2	398.1	379.9	342.4	325.2	318.0	323.2	336.2	338.8
55°	4683.4	3078.6	521.4	401.7	370.0	334.1	313.8	301.3	305.5	317.4	319.5
57.5°	5177.3	3443.9	608.3	400.7	357.5	326.3	301.8	283.1	286.2	293.5	295.6
60°	5691.4	3885.2	743.1	403.8	351.8	316.9	285.7	262.3	261.2	267.5	268.5
62.5°	6308.6	4395.6	897.1	405.9	355.4	304.9	264.4	241.5	238.3	239.9	240.9
65°	6944.5	4765.1	839.4	397.6	366.9	295.1	245.6	221.2	215.4	214.4	214.9
67.5°	6964.2	4369.1	588.5	380.9	371.6	289.9	231.6	204.0	194.6	191.0	190.5
70°	6245.6	3549.5	458.5	363.2	352.8	281.5	218.6	189.9	175.9	170.2	169.6
71°	*5894.9*	*3267.5*	*434.5*	*354.4*	*338.8*	*273.2*	*212.8*	*183.7*	*169.1*	*162.9*	*161.8*
72.5°	5344.8	2929.2	405.4	340.3	311.7	251.9	201.9	174.8	159.8	152.5	150.9
75°	3835.7	1915.5	348.1	303.4	258.1	200.9	176.9	157.2	144.1	135.3	134.3
77.5°	1477.9	762.4	263.3	252.4	197.7	157.2	145.7	135.8	126.5	117.6	117.1
80°	456.9	340.8	192.0	189.9	143.1	117.1	113.4	110.8	107.2	97.8	95.7
82.5°	244.1	195.7	132.2	122.8	93.7	78.1	82.2	83.3	83.8	73.9	72.9
85°	116.6	103.6	74.4	69.7	54.6	43.7	50.5	54.6	55.2	45.3	42.2
87.5°	55.7	54.1	34.9	26.5	20.3	14.6	17.7	21.9	23.9	17.2	15.1
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

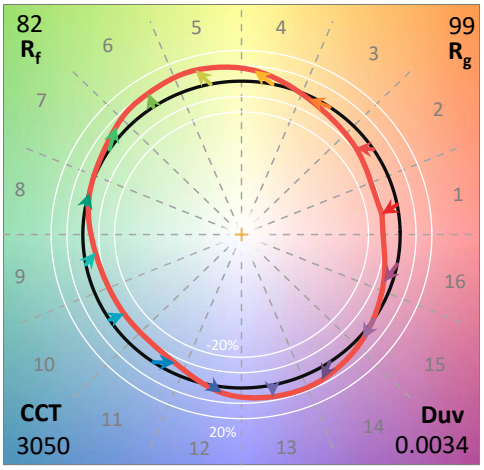
Test Information

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

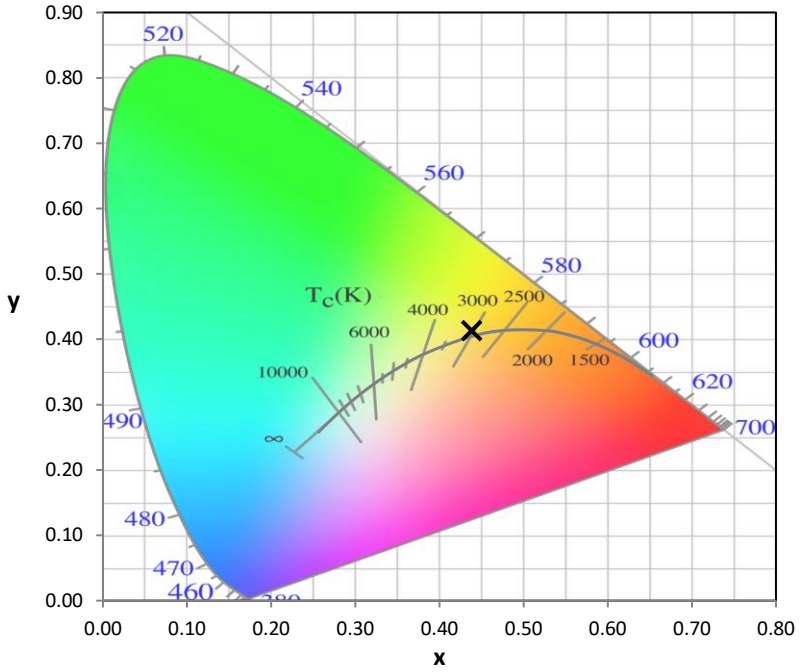
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

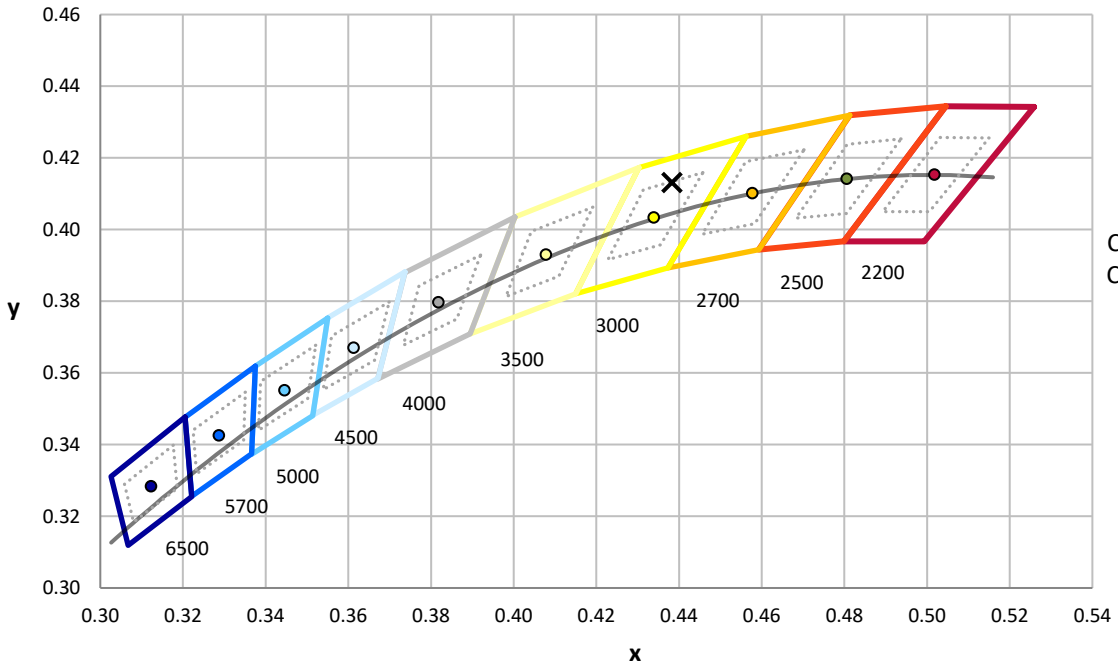
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

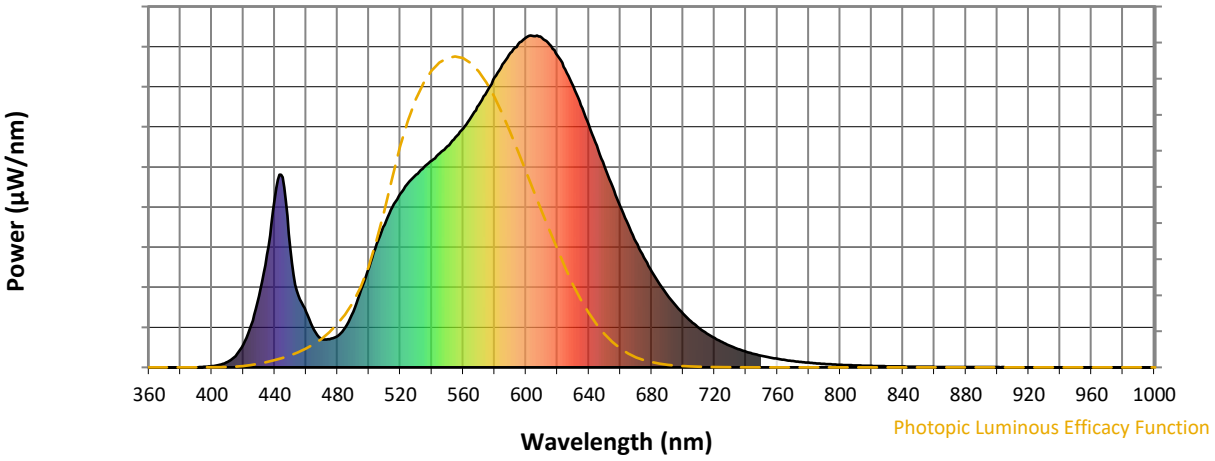


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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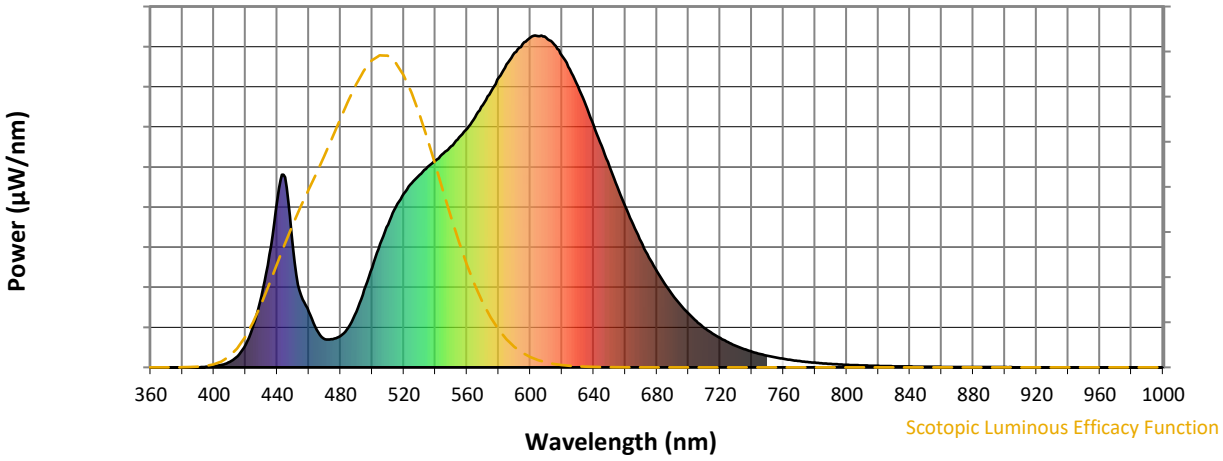
Scotopic Flux vs. Wavelength



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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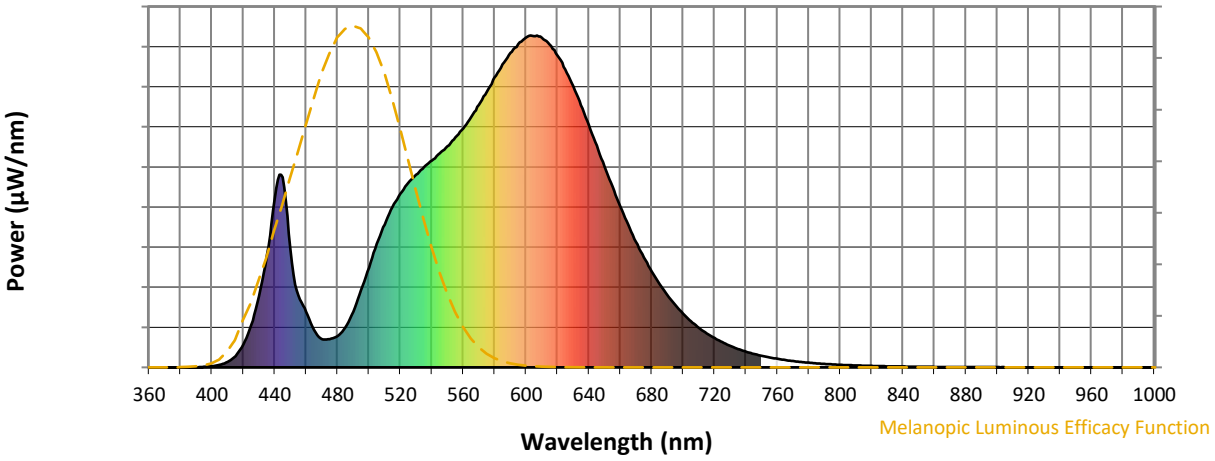
Melanopic Flux vs. Wavelength



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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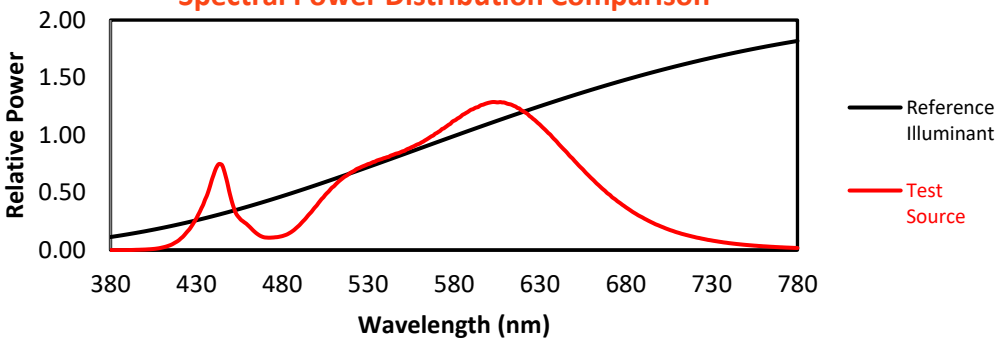
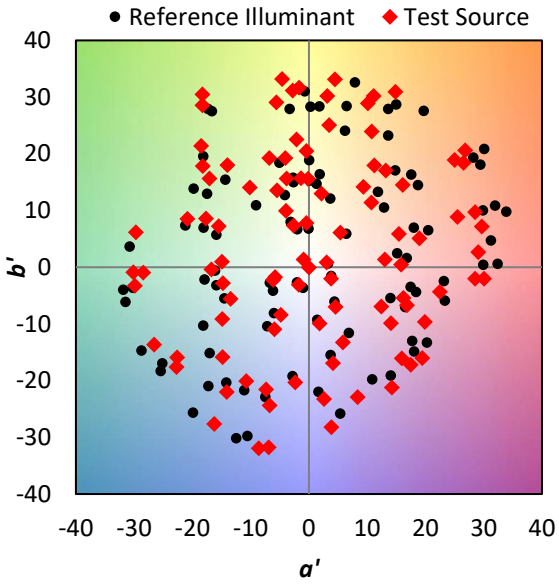
Summary

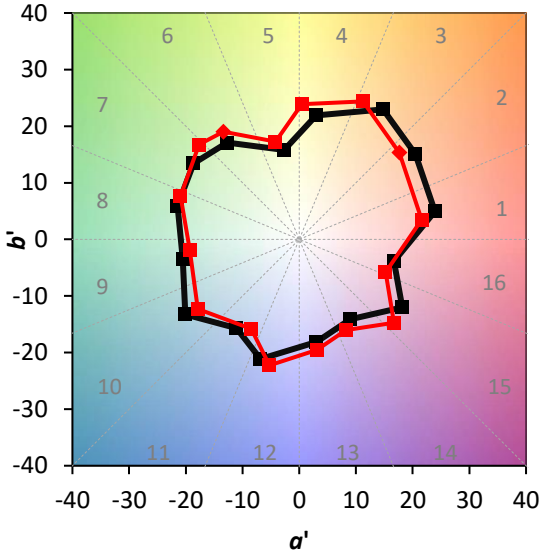
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

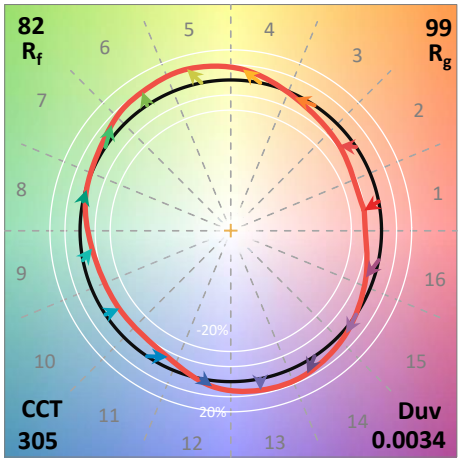
Spectral Power Distribution Comparison

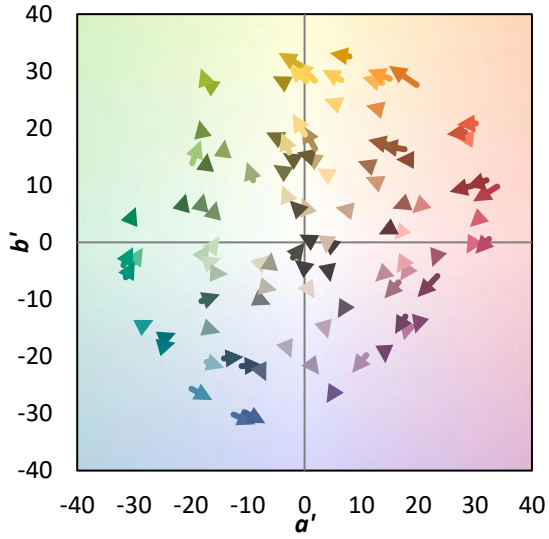


Color Vector Graphics









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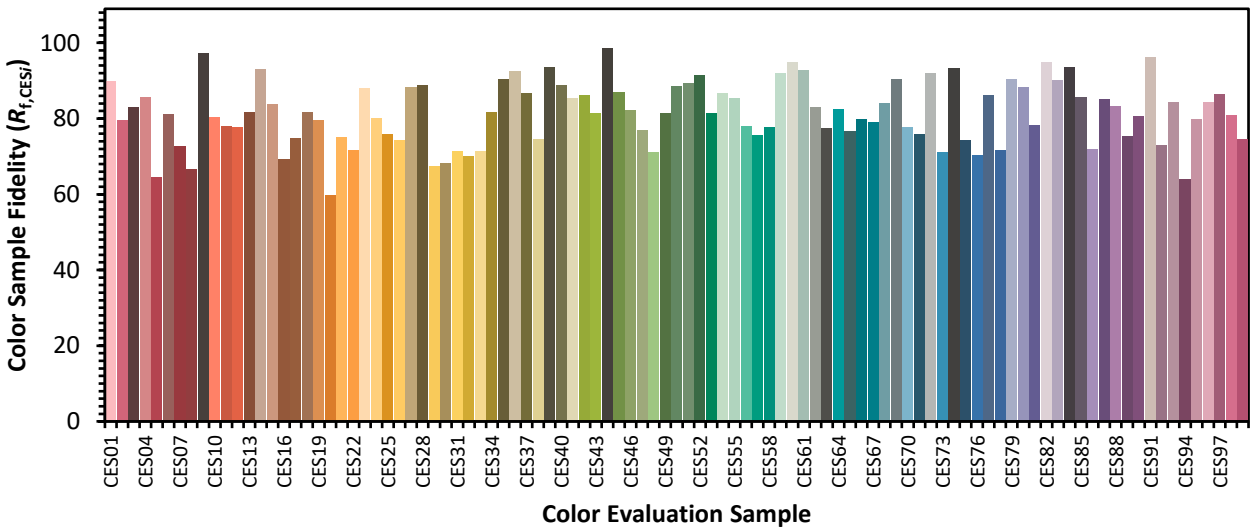
Individual Sample Fidelity Index ($R_{f,i}$)

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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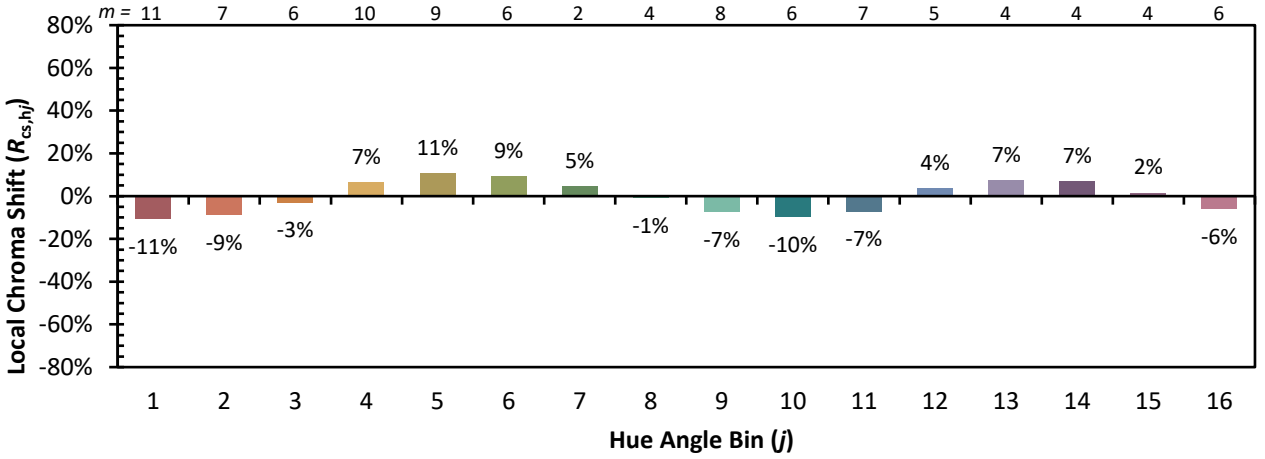
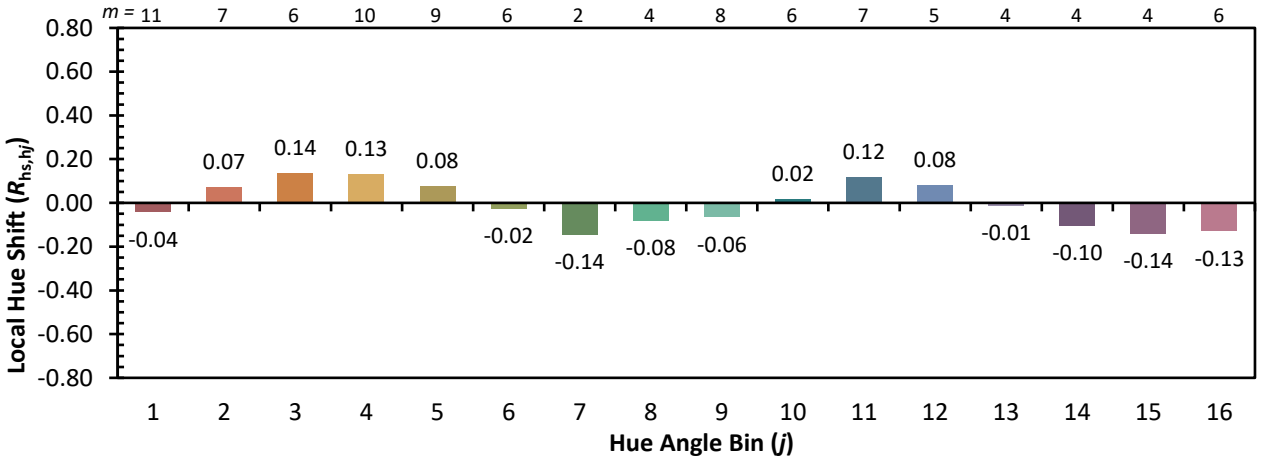
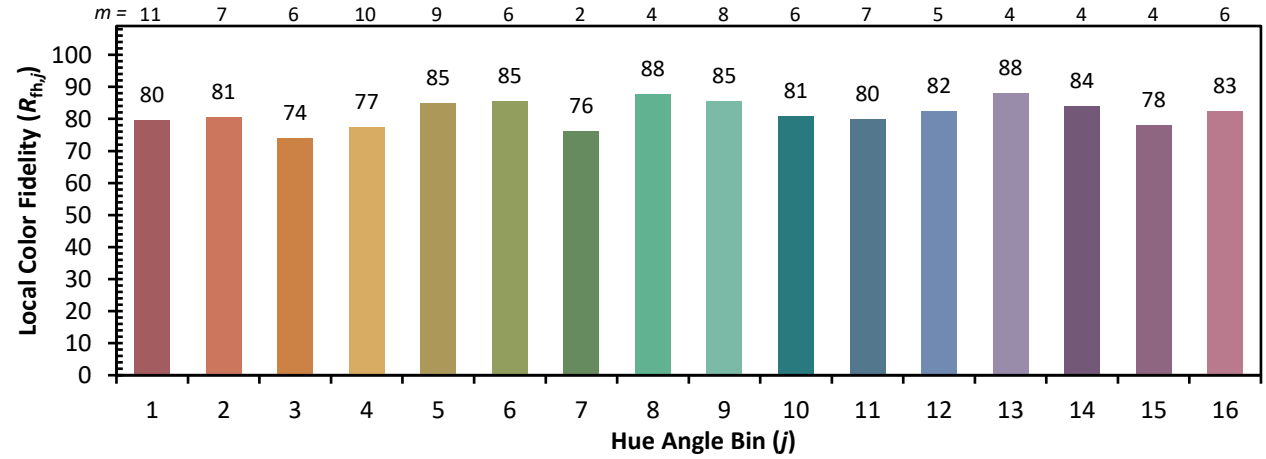
Color Rendition by Hue-Angle Bin







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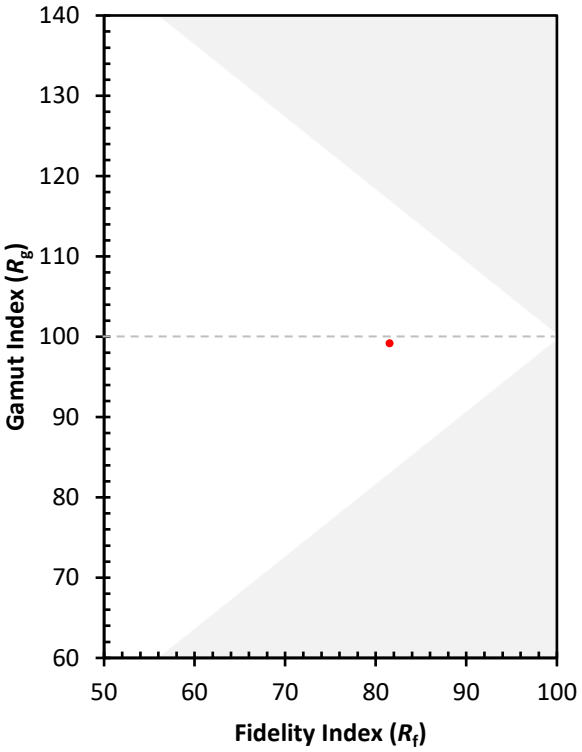
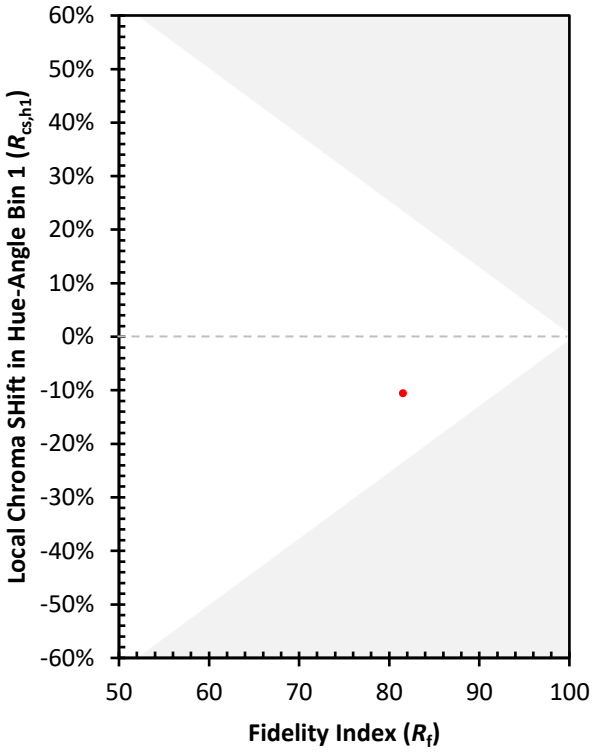
Measure Comparisons





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