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: P320168

Luminaire Tested: **GLEON-SA4C-830-U-SL4**

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:	P320168
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA4C-830-U-SL4
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	21544 lumens
Efficiency:	N/A
Efficacy:	95.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G5

Input Watts (W):	225
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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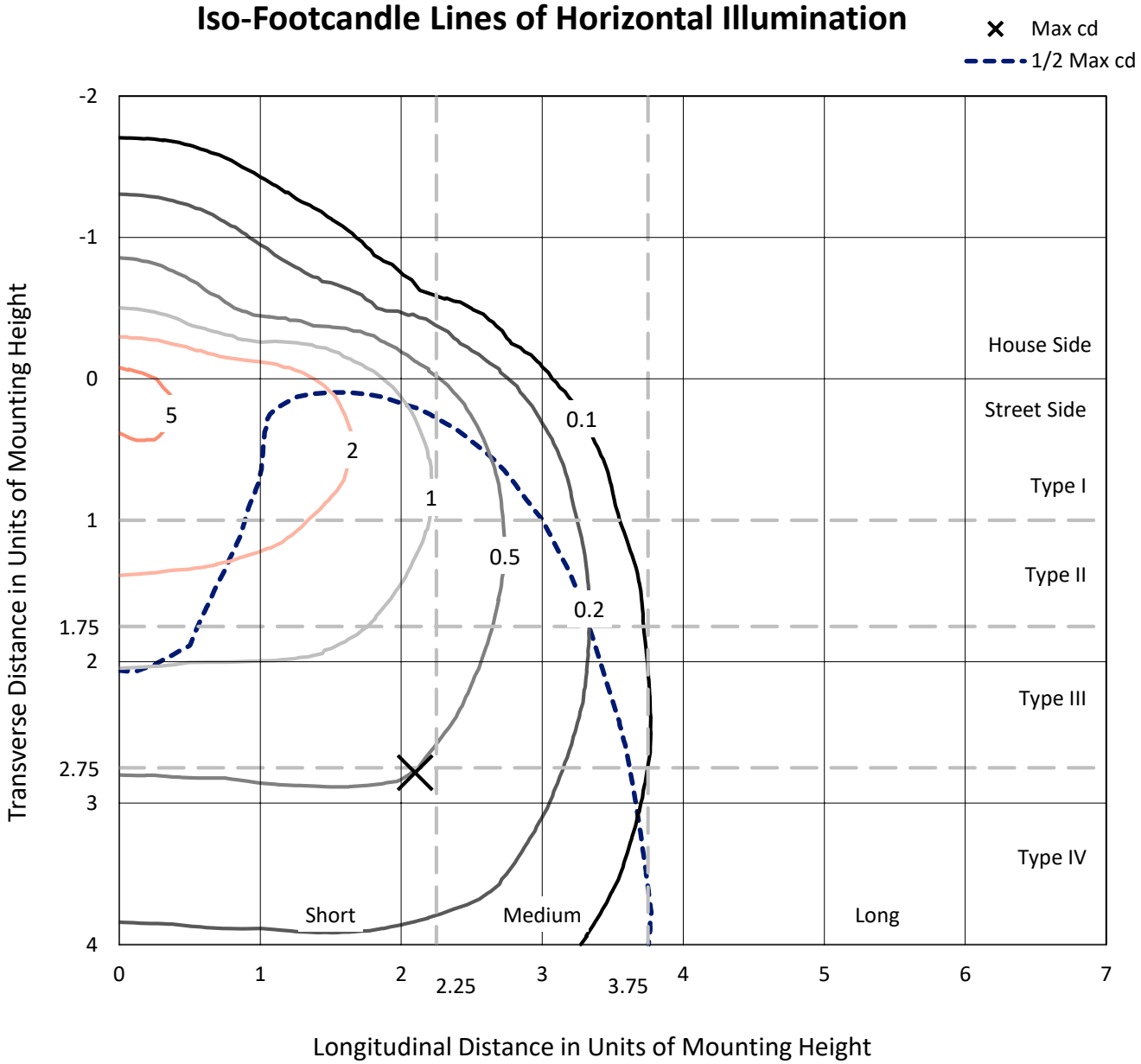
Scaled Data Report

REPORT NUMBER: P320168
CATALOG NUMBER: GLEON-SA4C-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type IV - Short - N/A

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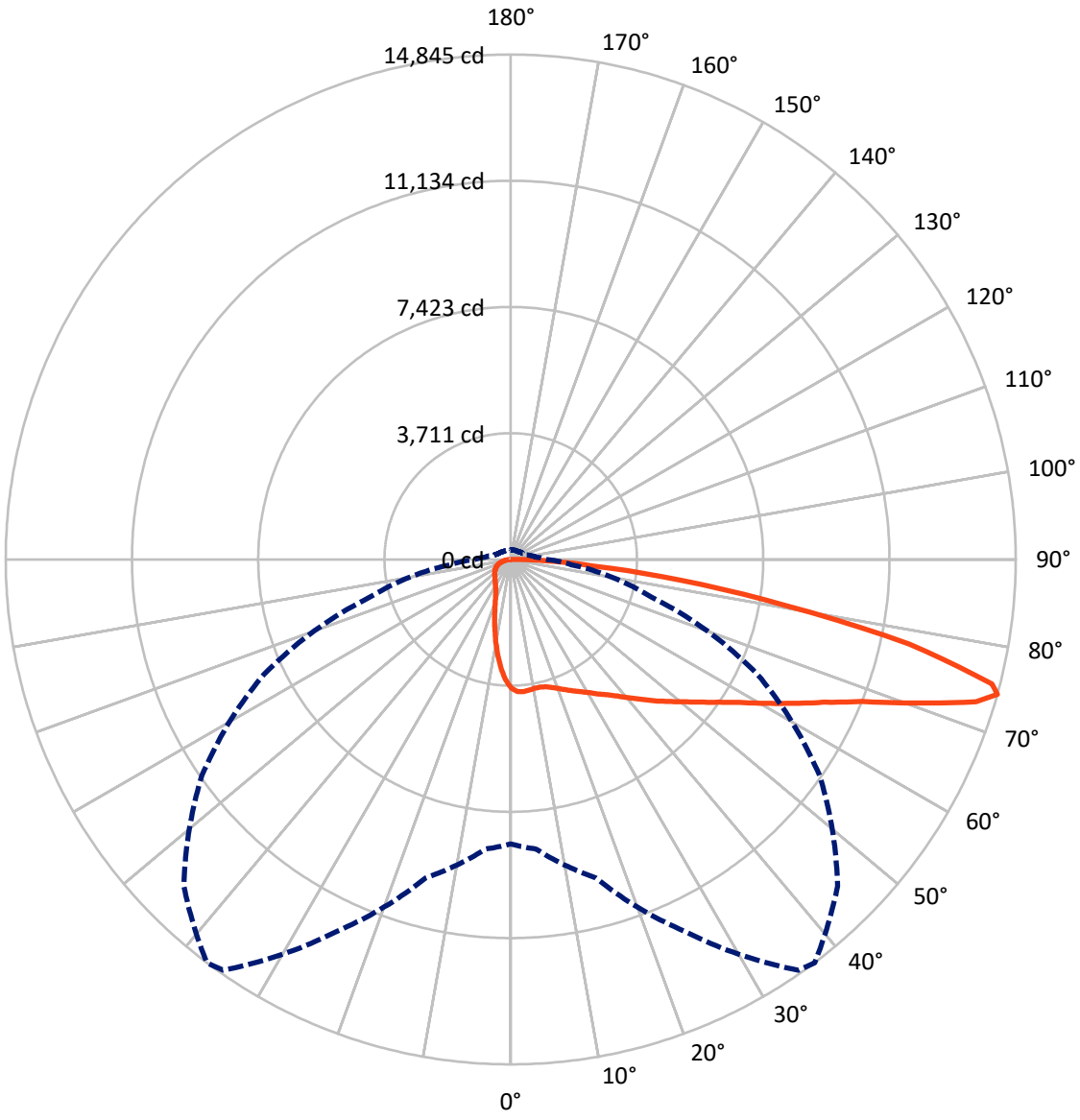
Luminous Intensity Polar Plot



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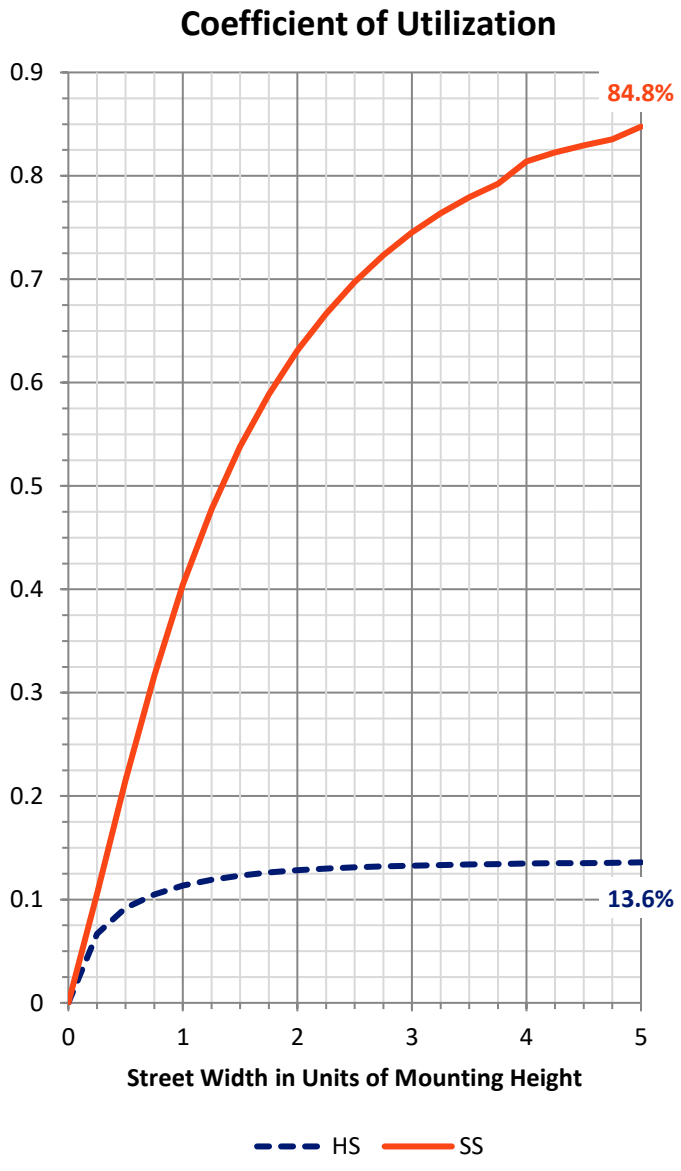
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2964.3	0.0	2964.3
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	18579.7	0.0	18579.7
	% Fixture	86.2	0.0	86.2
Total	Lumens	21544.0	0.0	21544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.3	1.6
10°-20°	856.8	4.0
20°-30°	1320.2	6.1
30°-40°	1919.8	8.9
40°-50°	2825.6	13.1
50°-60°	3968.1	18.4
60°-70°	5022.4	23.3
70°-80°	4422.4	20.5
80°-90°	874.4	4.1
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°	21544.0	100.0
0°-180°	21544.0	100.0



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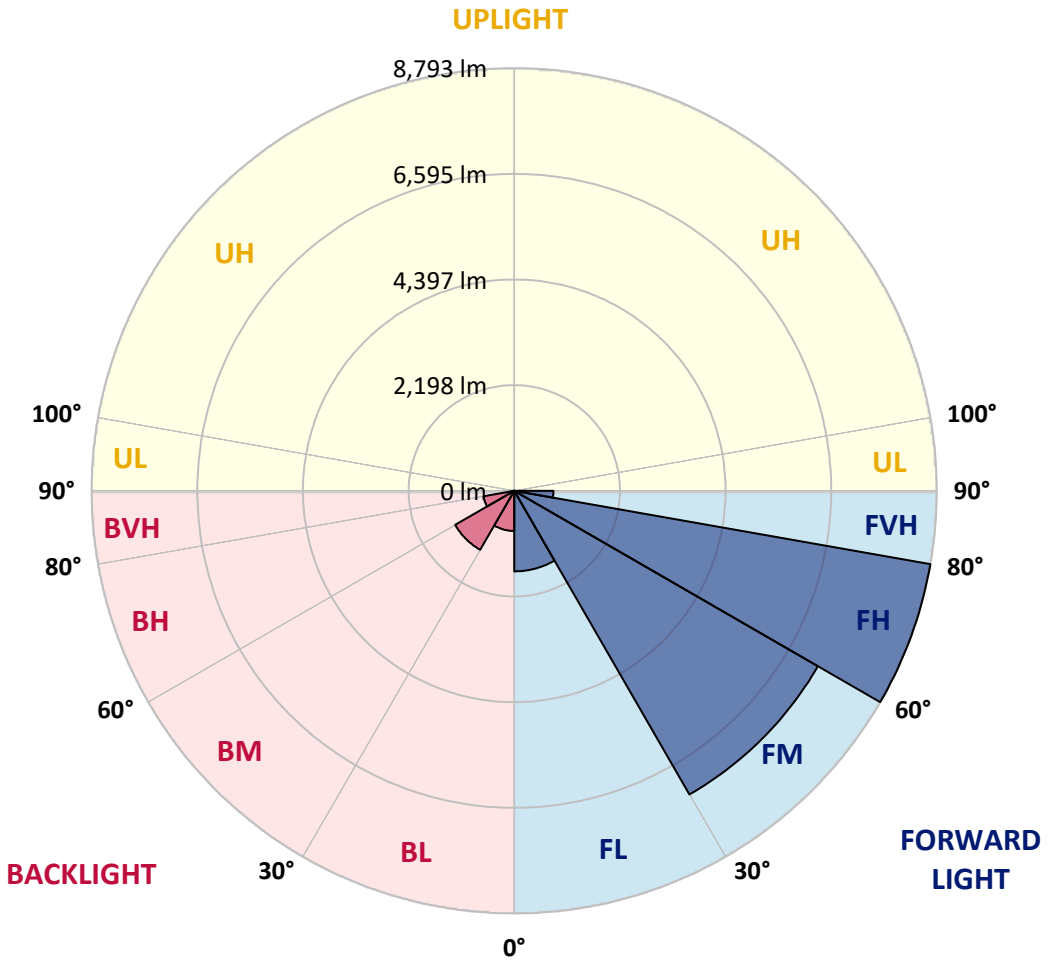
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1676.4	7.8			
FM	(30°-60°)	7295.0	33.9			
FH	(60°-80°)	8793.2	40.8			G4/12000
FVH	(80°-90°)	815.2	3.8			G5
BL	(0°-30°)	835.0	3.9	B2/1000		
BM	(30°-60°)	1418.5	6.6	B2/2500		
BH	(60°-80°)	651.6	3.0	B2/1000		G2/1000
BVH	(80°-90°)	59.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
Type IV Short



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REPORT NUMBER: P320168
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0
2.5°	3925.7	3926.5	3925.7	3919.7	3905.2	3893.1	3883.2	3868.8	3836.9	3812.7	3776.2
5°	3962.9	3958.4	3955.3	3944.0	3921.2	3907.5	3888.6	3861.2	3808.9	3760.3	3701.1
7.5°	3945.5	3940.2	3933.3	3919.7	3893.9	3882.5	3855.9	3820.3	3757.3	3693.5	3608.5
10°	3891.6	3890.1	3887.0	3884.0	3862.0	3852.9	3828.6	3790.7	3728.4	3651.0	3551.6
12.5°	3831.6	3835.4	3847.6	3863.5	3853.6	3849.1	3833.9	3808.1	3744.4	3660.9	3541.0
15°	3793.7	3804.3	3836.9	3878.7	3887.0	3885.5	3881.7	3865.0	3797.5	3704.9	3565.3
17.5°	3780.8	3798.2	3860.5	3929.5	3953.8	3959.1	3960.6	3931.8	3856.7	3758.8	3590.3
20°	3804.3	3826.3	3917.4	4012.3	4051.0	4054.0	4047.2	3997.1	3912.8	3805.1	3604.0
22.5°	3875.7	3895.4	4009.2	4116.2	4160.2	4164.8	4144.3	4068.4	3972.0	3859.7	3622.9
25°	4013.0	4037.3	4151.1	4258.1	4280.9	4281.7	4252.1	4158.0	4049.4	3936.4	3663.9
27.5°	4192.1	4216.4	4318.8	4423.6	4411.4	4404.6	4364.4	4270.3	4150.4	4041.8	3736.8
30°	4391.7	4418.3	4515.4	4589.8	4560.9	4547.3	4514.6	4393.2	4290.8	4186.0	3848.3
32.5°	4598.1	4622.4	4707.4	4758.2	4721.8	4715.7	4666.4	4555.6	4473.7	4406.1	4028.9
35°	4809.8	4827.3	4910.8	4939.6	4891.0	4889.5	4875.9	4774.2	4722.6	4754.4	4291.5
37.5°	5026.1	5030.7	5102.0	5103.5	5089.1	5095.2	5109.6	5045.9	5060.3	5159.7	4633.0
40°	5218.9	5231.0	5282.6	5298.6	5323.6	5344.9	5417.0	5375.2	5486.8	5662.8	5058.0
42.5°	5361.6	5385.1	5467.8	5508.8	5590.0	5623.4	5725.1	5763.8	5988.4	6252.5	5563.4
45°	5482.2	5518.7	5651.5	5735.7	5873.1	5931.5	6077.2	6207.0	6555.3	6892.2	6095.4
47.5°	5612.8	5659.0	5825.2	5986.1	6172.8	6238.8	6503.7	6698.0	7160.1	7535.8	6597.0
50°	5804.8	5840.4	6002.8	6255.5	6488.5	6573.5	6940.1	7218.6	7774.8	8149.0	7031.9
52.5°	6072.6	6059.0	6196.3	6550.7	6863.4	6968.1	7406.0	7772.6	8397.9	8703.7	7399.2
55°	6342.0	6319.3	6415.7	6859.6	7300.5	7410.6	7919.0	8328.8	8990.6	9203.1	7680.7
57.5°	6641.8	6598.6	6679.8	7207.9	7798.4	7929.6	8493.5	8920.0	9573.4	9606.8	7859.8
60°	6950.7	6892.2	6983.3	7639.7	8430.5	8585.3	9165.9	9496.8	10122.8	9930.1	7917.5
62.5°	7220.8	7179.9	7320.3	8121.6	9143.1	9313.1	9826.1	10109.9	10664.7	10064.4	7709.6
65°	7456.9	7463.7	7706.5	8663.5	9937.7	10119.0	10583.5	10865.8	11091.2	9984.7	7223.1
67.5°	7738.4	7777.1	8191.5	9376.8	10937.9	11136.7	11685.4	11689.9	11329.5	9517.2	6265.4
70°	8149.0	8228.6	8858.5	10366.4	12360.0	12633.2	13056.7	12174.1	10994.8	8249.9	4929.8
72.5°	8513.2	8662.0	9568.1	11498.7	14093.4	14300.5	13858.9	11894.8	9596.2	6182.7	3071.2
74°	8365.2	8549.7	9697.1	12056.5	14746.0	14845.4	13587.9	11079.8	8001.0	4281.7	1784.9
75°	8046.5	8246.9	9508.9	12051.2	14663.3	14607.9	12933.8	10148.6	6589.4	2920.2	1187.7
77.5°	6493.8	6705.6	8012.4	10328.5	12023.1	11970.7	9935.4	6808.0	2886.1	957.7	603.3
80°	3775.5	3937.1	4973.8	6559.1	8107.2	8202.1	6534.0	3368.7	1135.3	538.1	409.0
82.5°	1677.1	1788.7	2402.6	3348.2	4892.6	5014.7	3421.8	1765.2	701.2	327.1	245.9
85°	1100.4	1183.1	1458.6	1594.4	2329.8	2413.3	1674.9	1374.4	462.9	179.9	180.6
87.5°	791.5	871.2	1083.7	946.3	1069.3	1012.4	911.4	1271.9	185.9	102.5	60.7
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: P320168
CATALOG NUMBER: GLEON-SA4C-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0	3796.0
2.5°	3760.3	3748.2	3720.8	3669.2	3640.4	3616.1	3575.9	3552.4	3541.7	3541.0	3545.5
5°	3667.0	3638.9	3568.3	3481.8	3412.7	3349.7	3271.6	3224.5	3191.1	3171.4	3176.7
7.5°	3558.4	3514.4	3403.6	3265.5	3154.7	3032.5	2911.9	2839.8	2783.6	2741.9	2749.5
10°	3484.1	3423.4	3261.7	3062.9	2878.5	2700.9	2534.7	2435.3	2356.4	2295.6	2300.2
12.5°	3459.0	3377.1	3153.2	2887.6	2628.8	2386.0	2168.9	2016.4	1935.2	1866.1	1871.4
15°	3462.8	3352.8	3062.1	2729.7	2404.2	2098.3	1835.0	1656.7	1546.6	1498.8	1499.6
17.5°	3465.9	3324.7	2966.5	2560.5	2181.8	1829.7	1543.6	1363.0	1259.0	1215.0	1215.7
20°	3456.0	3279.2	2848.1	2366.2	1949.6	1583.0	1306.1	1152.8	1073.8	1039.7	1039.7
22.5°	3443.1	3225.3	2714.6	2171.2	1720.4	1369.0	1136.1	1019.2	973.7	950.9	950.1
25°	3449.2	3185.1	2578.0	1970.8	1509.4	1198.3	1023.0	945.6	915.2	900.8	900.0
27.5°	3481.8	3166.1	2452.0	1771.2	1325.0	1070.0	947.1	892.5	872.7	863.6	863.6
30°	3541.0	3166.1	2320.7	1601.3	1171.7	975.2	888.7	851.5	837.8	831.7	831.7
32.5°	3644.2	3183.5	2194.0	1432.8	1049.5	900.8	840.1	815.0	804.4	801.4	801.4
35°	3821.8	3242.7	2070.3	1273.4	950.9	840.1	793.8	779.4	771.8	771.0	773.3
37.5°	4071.4	3363.4	1954.1	1155.8	881.1	790.8	755.1	743.7	739.2	743.0	746.0
40°	4385.6	3527.3	1848.7	1049.5	827.9	751.3	719.4	711.8	709.6	714.9	719.4
42.5°	4765.1	3748.9	1762.1	972.9	787.0	717.9	689.1	680.0	677.7	683.8	689.8
45°	5175.6	3987.2	1701.4	916.0	755.1	692.9	662.5	652.6	648.1	651.1	658.0
47.5°	5549.0	4212.6	1677.1	875.8	724.7	671.6	639.0	626.8	619.3	617.7	623.0
50°	5863.9	4380.3	1688.5	851.5	700.5	648.1	616.2	602.6	591.2	584.3	588.1
52.5°	6093.1	4485.8	1699.2	840.9	681.5	622.3	591.2	578.3	563.1	551.7	551.7
55°	6259.3	4510.1	1675.6	832.5	667.1	594.2	563.1	551.0	535.8	522.9	521.4
57.5°	6324.6	4441.8	1588.4	820.4	657.2	567.6	533.5	524.4	511.5	496.3	495.6
60°	6236.6	4230.8	1419.9	794.6	644.3	545.6	503.9	497.8	491.8	477.3	476.6
62.5°	5882.9	3767.9	1202.1	742.2	618.5	522.1	476.6	479.6	480.4	470.5	469.0
65°	5241.7	3131.9	989.6	673.9	579.8	494.0	448.5	462.9	471.3	469.8	467.5
67.5°	4309.7	2437.6	838.6	601.8	528.9	455.3	418.1	434.8	441.7	447.0	445.5
70°	3198.7	1718.9	693.6	525.9	467.5	409.8	378.7	387.0	382.5	388.6	390.8
72.5°	1783.4	1031.3	565.4	450.0	403.7	356.7	334.7	333.2	323.3	323.3	323.3
74°	*1070.0*	*756.6*	*497.1*	*403.0*	*365.0*	*321.8*	*302.8*	*296.0*	*286.9*	*287.6*	*286.9*
75°	860.6	650.4	456.1	371.9	337.7	301.3	282.3	273.2	266.4	266.4	265.6
77.5°	543.4	494.0	367.3	296.0	270.2	248.2	235.3	223.1	223.1	222.4	221.6
80°	410.6	393.1	286.1	223.9	207.2	190.5	182.1	176.8	176.8	179.1	178.3
82.5°	281.5	296.0	201.1	156.3	148.0	135.8	134.3	135.1	132.8	129.8	129.0
85°	205.7	222.4	135.8	98.7	90.3	82.7	88.8	91.8	88.0	81.2	78.2
87.5°	78.9	145.7	72.9	41.0	37.9	32.6	37.9	39.5	42.5	33.4	34.2
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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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

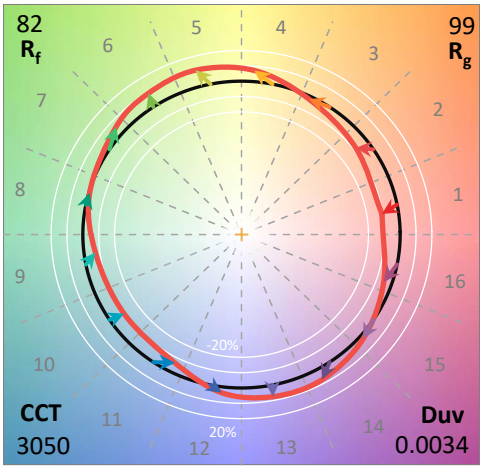
Test Information

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

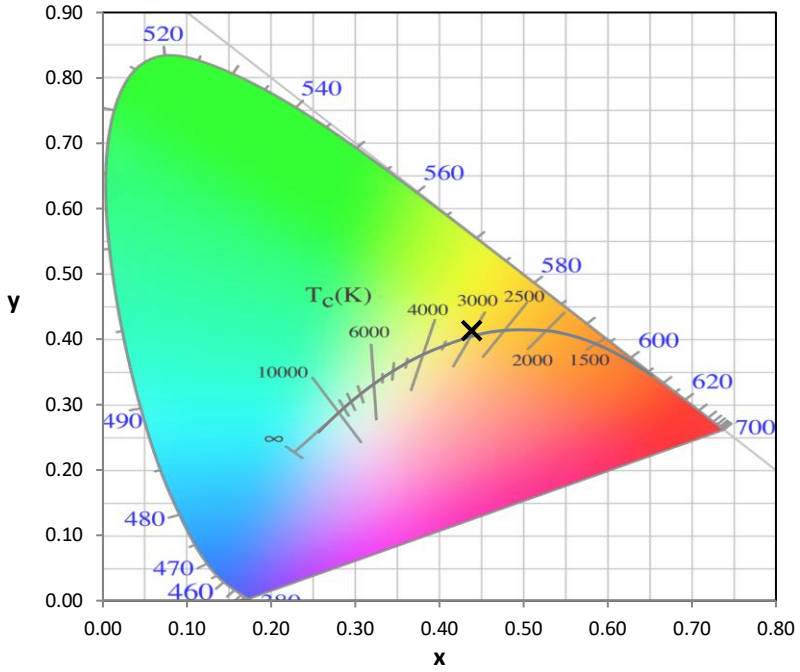
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

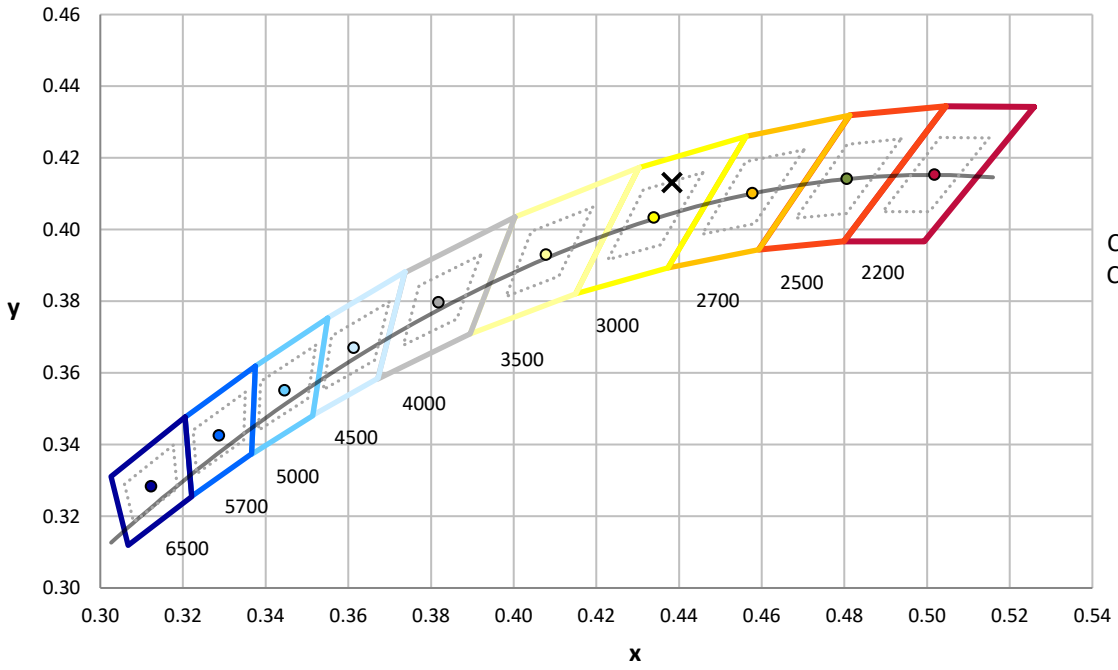
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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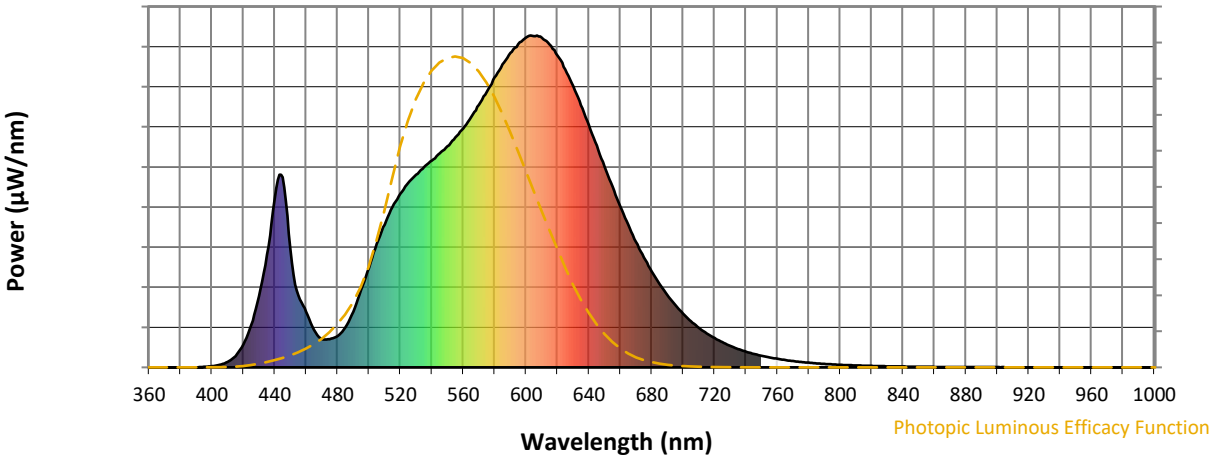
Photopic Flux vs. Wavelength



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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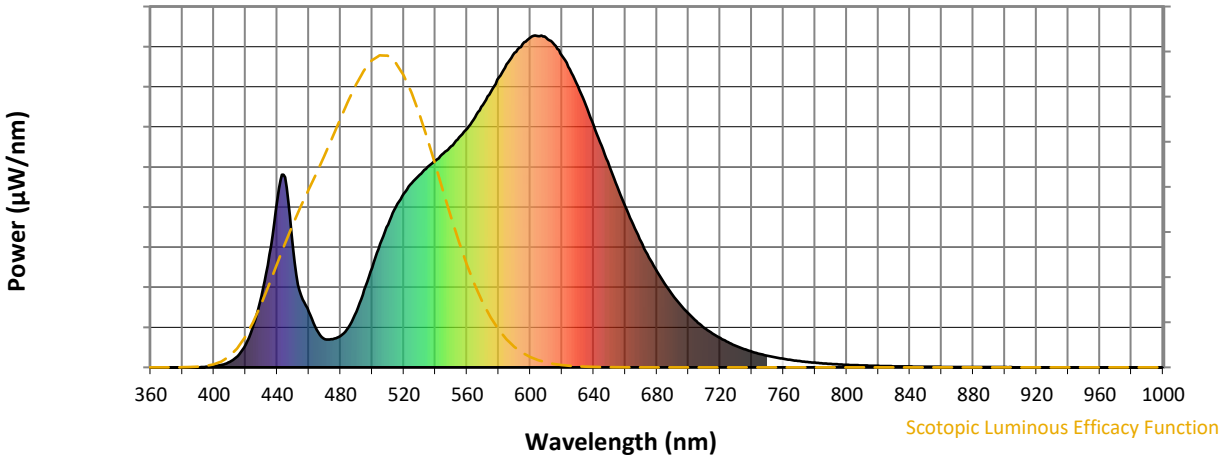
Scotopic Flux vs. Wavelength



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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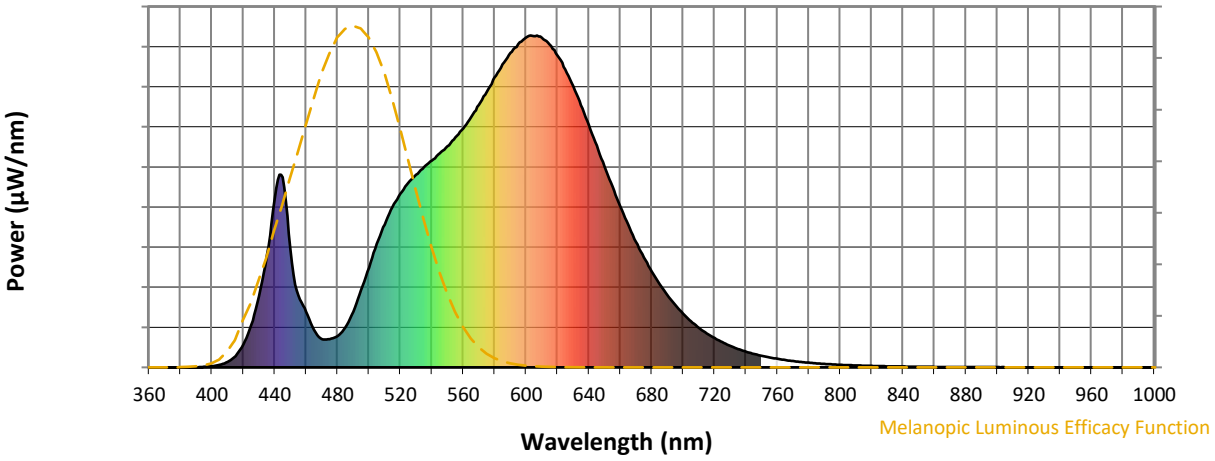
Melanopic Flux vs. Wavelength



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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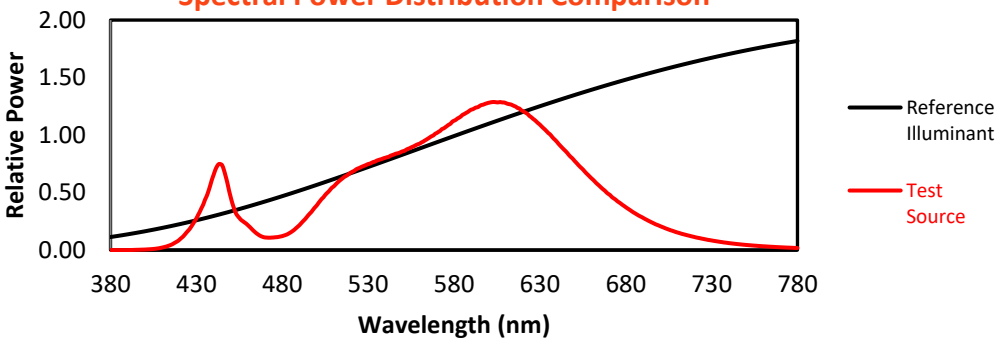
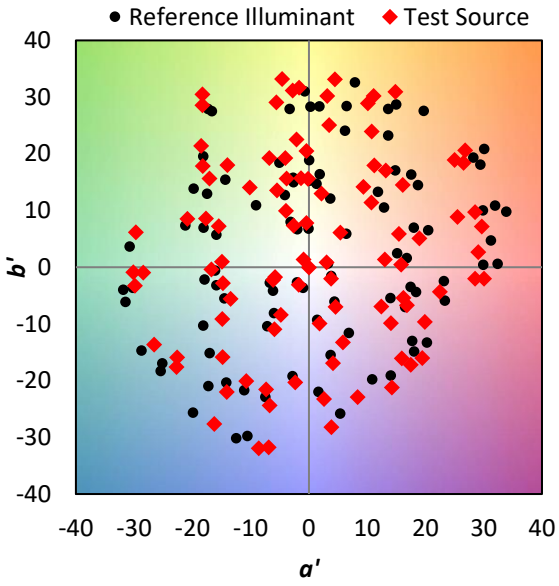
Summary

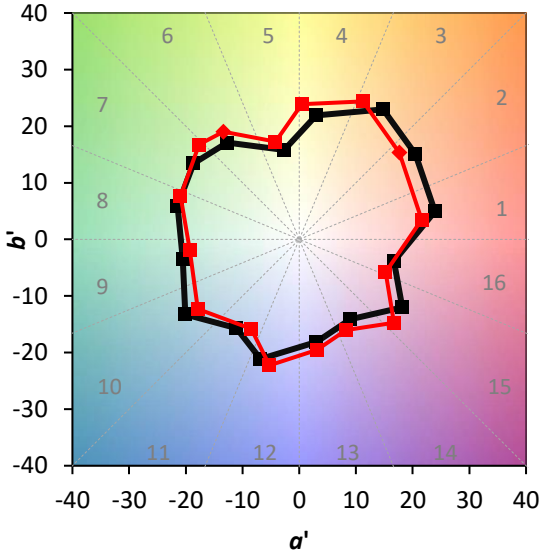
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

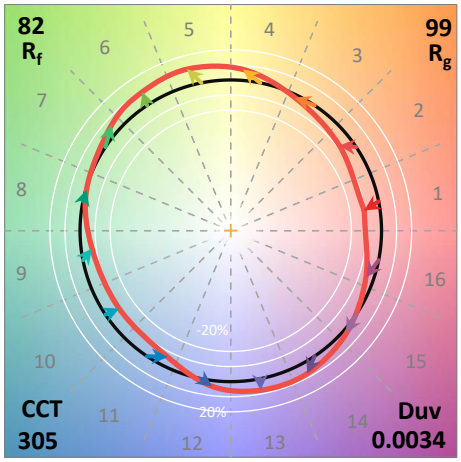
Spectral Power Distribution Comparison

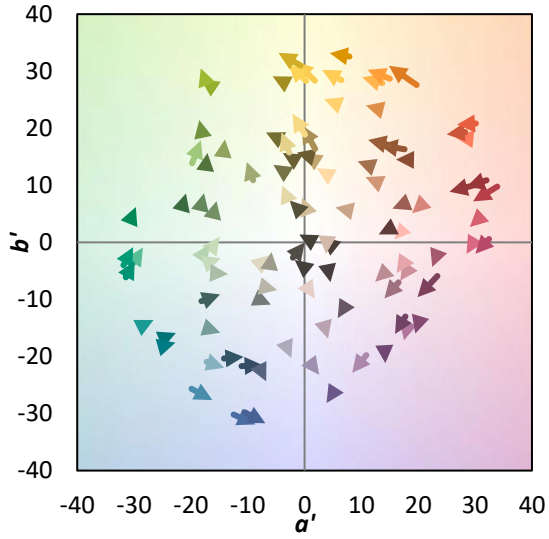


Color Vector Graphics









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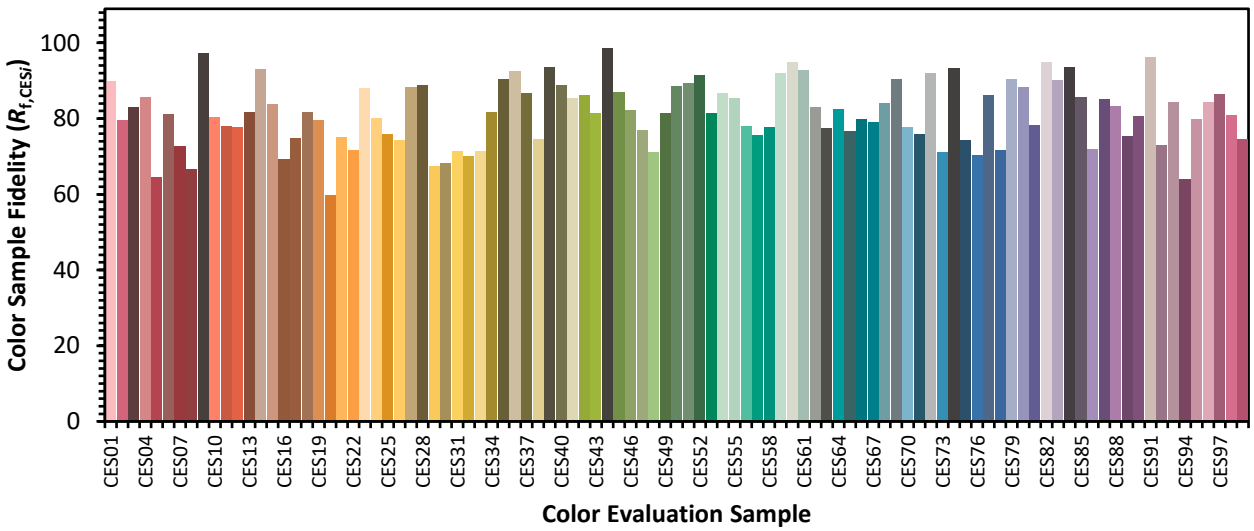
Individual Sample Fidelity Index ($R_{f,i}$)

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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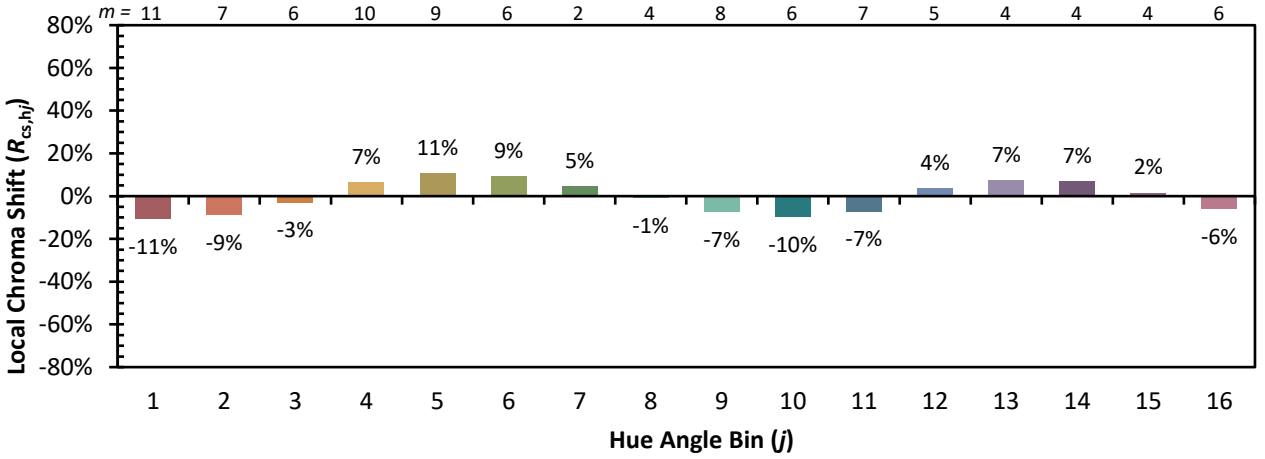
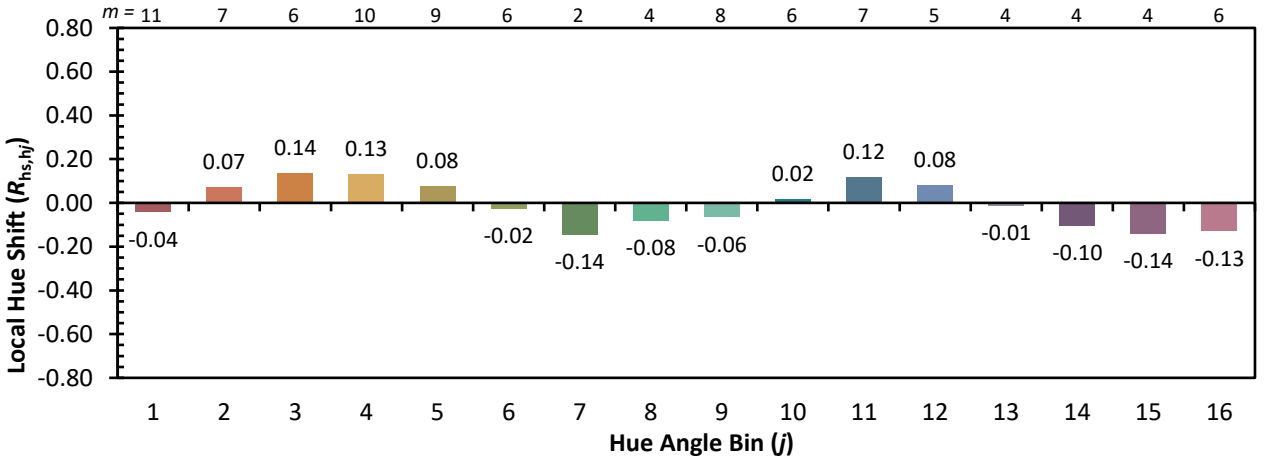
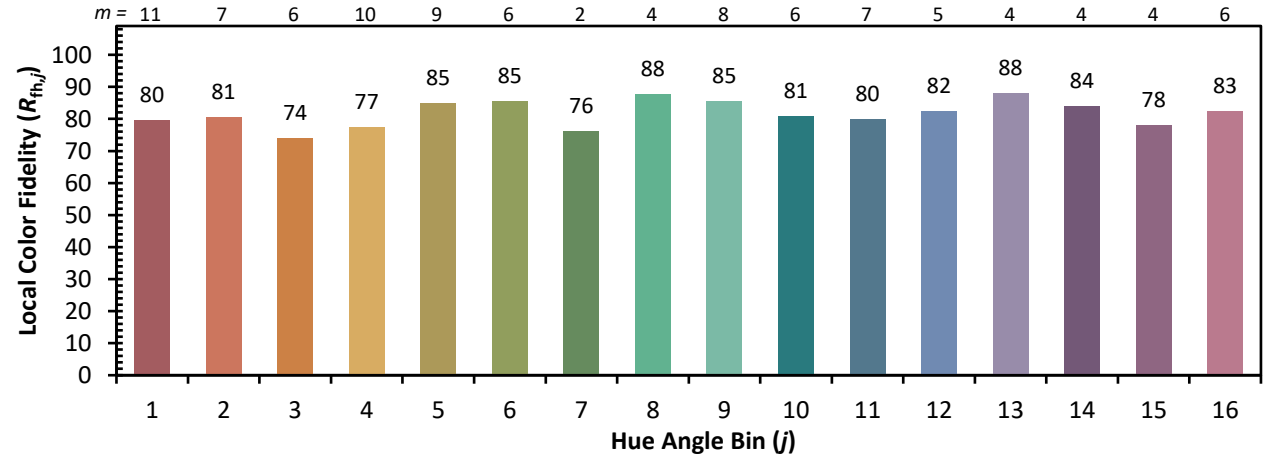
Color Rendition by Hue-Angle Bin







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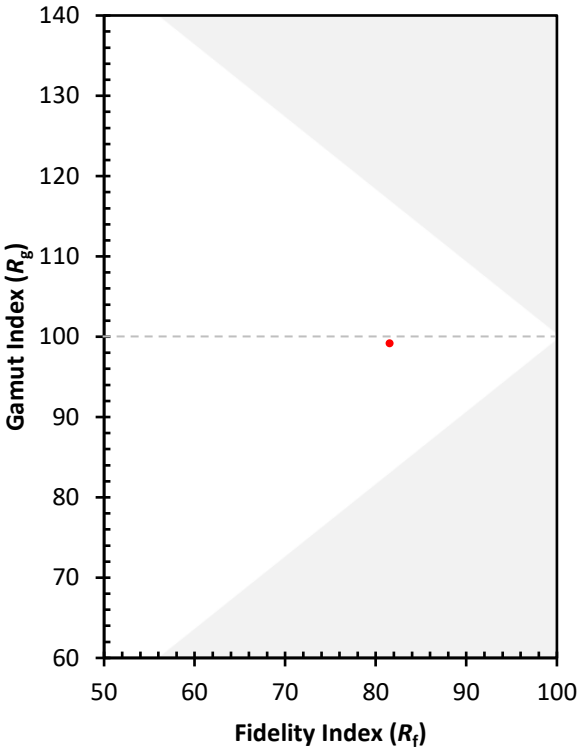
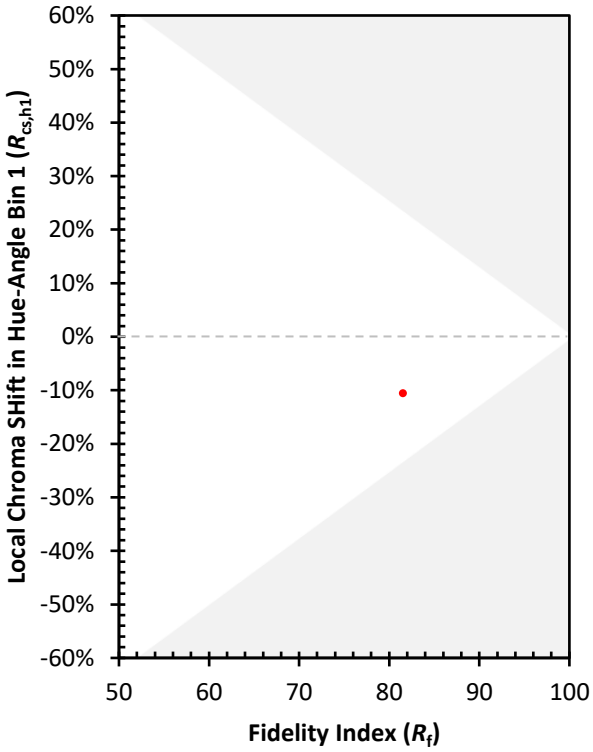
Measure Comparisons





(END OF REPORT)