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: P323034

Luminaire Tested: **GLEON-SA0A-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:	P323034
	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-SA0A-830-U-T4W-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	26567 lumens
Efficiency:	N/A
Efficacy:	82.3 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G5

Input Watts (W):	323
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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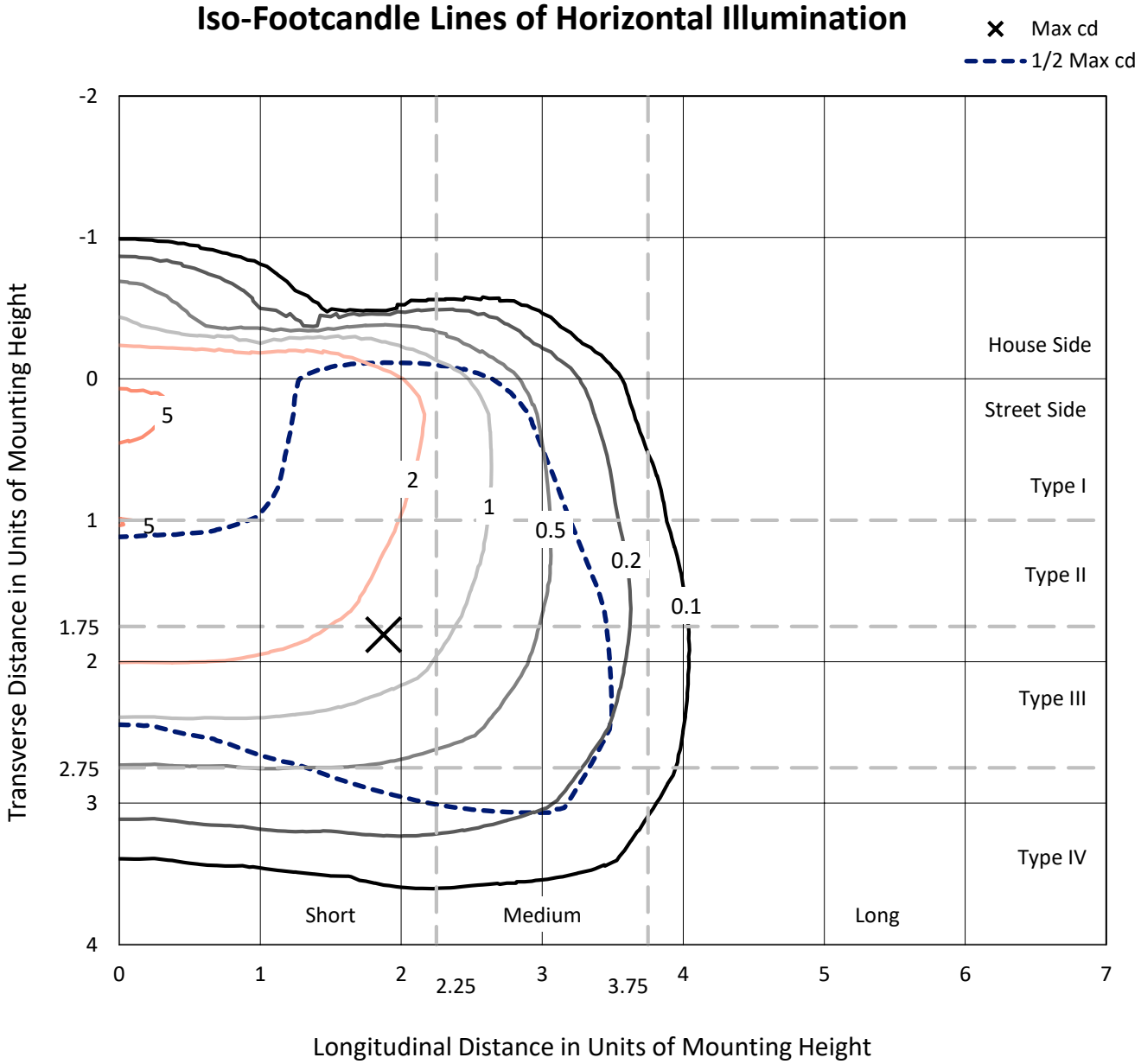
Scaled Data Report

REPORT NUMBER: P323034
CATALOG NUMBER: GLEON-SA0A-830-U-T4W-HSS

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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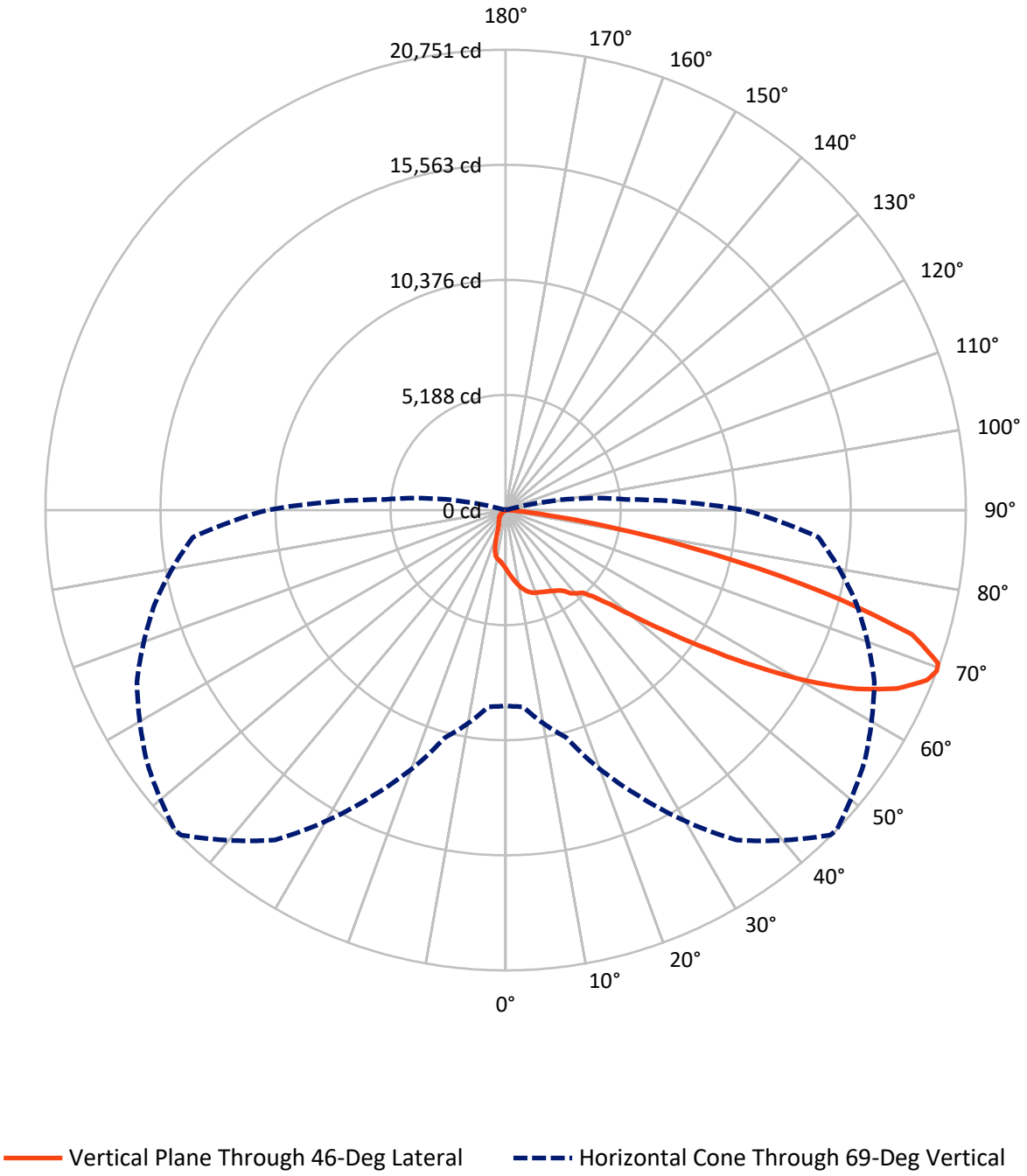
Luminous Intensity Polar Plot



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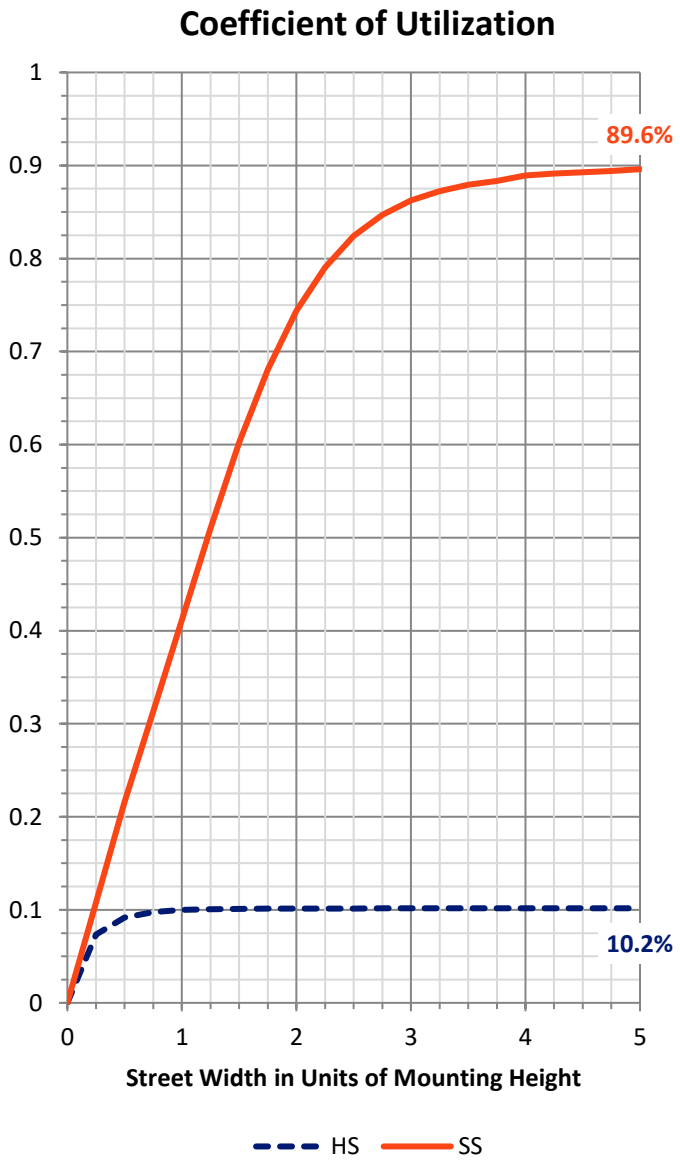
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2726.5	0.0	2726.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	23840.5	0.0	23840.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	26567.0	0.0	26567.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.0	1.0
10°-20°	803.8	3.0
20°-30°	1264.1	4.8
30°-40°	1812.7	6.8
40°-50°	3133.1	11.8
50°-60°	6189.7	23.3
60°-70°	8650.7	32.6
70°-80°	4179.2	15.7
80°-90°	268.6	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°	26567.0	100.0
0°-180°	26567.0	100.0



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REPORT NUMBER: P323034
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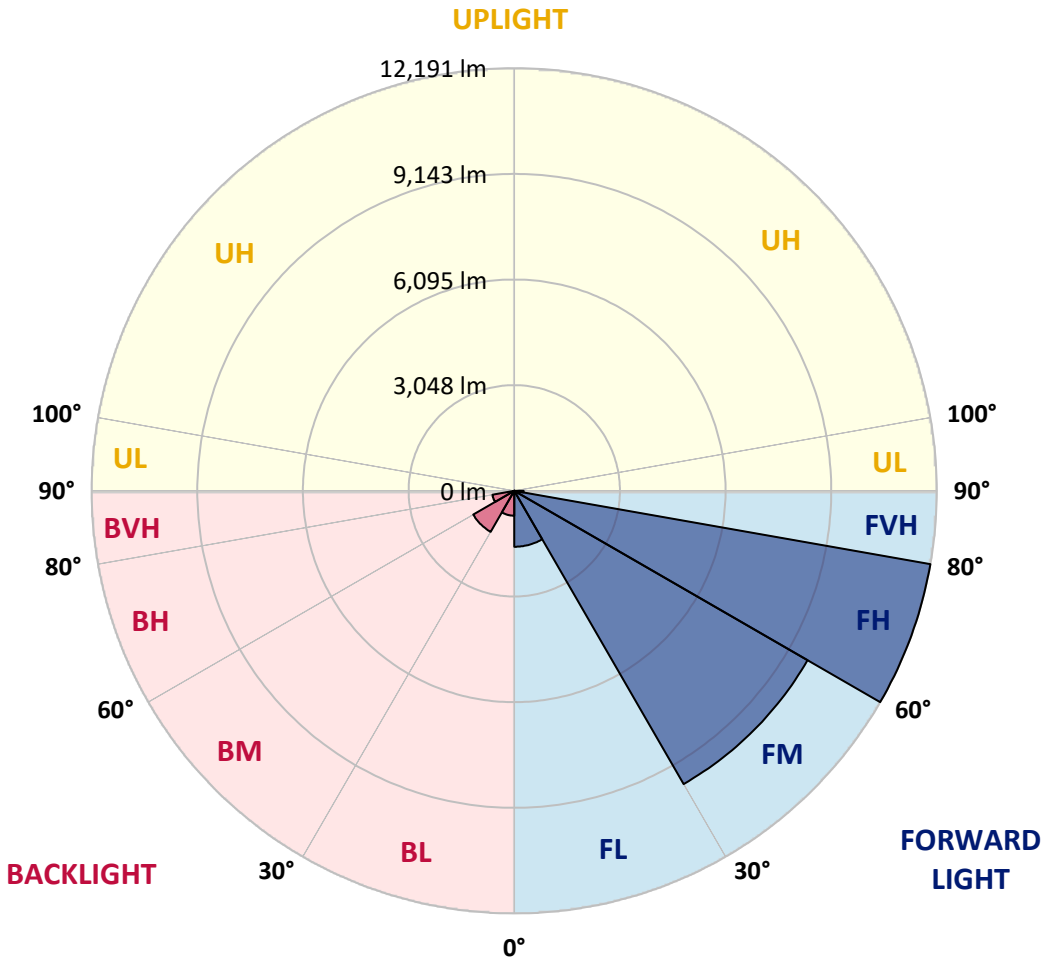
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1614.3	6.1			
FM	(30°-60°)	9769.3	36.8			
FH	(60°-80°)	12190.6	45.9			G5
FVH	(80°-90°)	266.4	1.0			G3/500
BL	(0°-30°)	718.6	2.7	B2/1000		
BM	(30°-60°)	1366.3	5.1	B2/2500		
BH	(60°-80°)	639.3	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.3	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-G5
Type IV Short



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REPORT NUMBER: P323034
CATALOG NUMBER: GLEON-SA0A-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2661.9	2661.9	2661.9	2661.9	2661.9	2661.9	*2661.9*	2661.9	2661.9	2661.9	2661.9
2.5°	2957.1	2953.4	2936.0	2928.5	2886.1	2861.2	*2851.3*	2820.1	2775.3	2730.4	2680.6
5°	3293.4	3292.2	3259.8	3228.7	3149.0	3074.2	*3060.5*	2988.3	2887.4	2792.7	2698.0
7.5°	3637.2	3621.1	3588.7	3528.9	3413.0	3293.4	*3282.2*	3180.1	3036.8	2899.8	2764.1
10°	3928.7	3918.8	3876.4	3785.5	3649.7	3513.9	*3500.2*	3374.4	3212.5	3044.3	2871.2
12.5°	4155.4	4148.0	4091.9	3978.5	3834.1	3693.3	*3674.6*	3562.5	3389.4	3201.3	2997.0
15°	4293.7	4290.0	4221.4	4100.6	3958.6	3836.5	*3820.4*	3721.9	3561.3	3364.5	3134.0
17.5°	4326.1	4327.3	4256.3	4134.3	4017.2	3930.0	*3917.5*	3842.8	3708.2	3512.7	3271.0
20°	4253.8	4268.8	4205.3	4099.4	4027.1	3981.0	*3971.1*	3926.2	3812.9	3628.5	3380.6
22.5°	4151.7	4159.2	4115.6	4044.6	4014.7	4023.4	*4018.4*	3993.5	3897.6	3728.2	3489.0
25°	4089.4	4089.4	4063.2	4003.5	4023.4	4077.0	*4078.2*	4073.2	3997.2	3850.2	3621.1
27.5°	4086.9	4079.4	4049.5	4004.7	4059.5	4141.7	*4146.7*	4180.3	4133.0	3998.5	3785.5
30°	4186.6	4177.8	4114.3	4055.8	4125.5	4214.0	*4226.4*	4299.9	4276.3	4159.2	3968.6
32.5°	4419.5	4388.4	4247.6	4151.7	4204.0	4309.9	*4326.1*	4443.2	4480.5	4357.2	4145.5
35°	4738.4	4640.0	4436.9	4333.6	4338.5	4449.4	*4464.3*	4636.2	4747.1	4539.1	4282.5
37.5°	5178.1	5129.5	4799.4	4522.9	4545.3	4713.5	*4757.1*	4943.9	4912.8	4638.7	4438.2
40°	6142.2	6066.2	5715.0	5053.5	4743.4	4927.7	*4941.4*	5041.1	5043.6	4864.2	4762.0
42.5°	7455.1	7424.0	7054.0	6016.4	5133.2	5071.0	*5095.9*	5264.0	5452.1	5340.0	5335.0
45°	8908.8	8892.6	8500.2	7294.4	5921.7	5540.6	*5571.7*	5797.2	6157.2	6182.1	6340.3
47.5°	10078.4	10070.9	9845.5	8720.7	7128.7	6336.5	*6346.5*	6585.7	7218.4	7531.1	7784.0
50°	11144.7	11180.8	11002.7	10264.0	8773.0	7583.4	*7559.7*	7719.2	8735.6	9247.6	9561.5
52.5°	12627.0	12678.0	12178.5	11704.0	10498.2	9130.5	*9111.8*	9278.7	10559.2	10942.9	10998.9
55°	13936.1	13848.9	13454.1	13317.0	12602.1	11041.3	*11036.3*	11183.3	12323.0	12486.2	12589.6
57.5°	14514.1	14480.5	14671.0	14984.9	14805.6	13299.6	*13288.4*	13176.3	13901.2	13918.7	14236.3
60°	14879.1	14920.2	15504.4	16472.2	16919.4	15729.8	*15657.6*	14973.7	15408.5	15369.8	15709.9
62.5°	14605.0	14686.0	15737.3	17350.4	18501.4	17851.1	*17749.0*	16620.5	16696.4	16563.2	16879.5
65°	13150.1	13275.9	14998.6	17184.7	19286.1	19509.1	*19405.7*	18074.1	17719.1	17499.9	17324.2
67.5°	10677.6	10752.3	12551.0	15743.5	18932.4	20498.1	*20476.9*	19348.4	18491.4	17341.7	15979.0
69°	*8824.1*	*8897.5*	*10629.0*	*14226.4*	*18153.8*	*20709.9*	*20751.0*	*19757.0*	*18344.4*	*16380.1*	*14157.8*
70°	7473.8	7552.3	9165.4	12925.9	17250.7	20611.5	*20685.0*	19718.3	17923.4	15266.5	12559.7
72.5°	3920.0	3987.3	5642.7	8905.0	14063.2	18926.1	*19149.1*	18051.7	15193.0	11087.4	7426.5
75°	1231.9	1270.5	2203.5	4654.9	9628.7	14715.9	*14767.0*	14160.3	10788.4	6098.6	3092.9
77.5°	469.6	458.4	733.7	1715.2	4867.9	9266.3	*9578.9*	8849.0	5661.4	2156.2	713.7
80°	252.9	254.1	381.2	710.0	2082.7	4762.0	*5026.1*	4288.7	2011.7	672.6	164.4
82.5°	109.6	114.6	214.2	376.2	956.6	1756.3	*1888.4*	1572.0	768.6	452.2	61.0
85°	23.7	26.2	103.4	204.3	389.9	493.3	*516.9*	509.5	489.5	351.3	23.7
87.5°	0.0	0.0	46.1	73.5	98.4	112.1	*98.4*	128.3	270.3	236.7	12.5
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: P323034
CATALOG NUMBER: GLEON-SA0A-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2661.9	2661.9	2661.9	2661.9	2661.9	2661.9	2661.9	2661.9	2661.9	2661.9	2661.9
2.5°	2664.4	2642.0	2603.4	2561.0	2531.1	2500.0	2475.1	2463.9	2451.4	2442.7	2453.9
5°	2659.4	2615.8	2541.1	2468.8	2416.5	2374.2	2339.3	2325.6	2311.9	2301.9	2300.7
7.5°	2703.0	2642.0	2527.4	2421.5	2340.5	2283.2	2235.9	2216.0	2199.8	2192.3	2186.1
10°	2786.5	2708.0	2554.8	2416.5	2311.9	2214.7	2112.6	2034.1	1983.0	1959.4	1950.7
12.5°	2894.8	2796.4	2607.1	2442.7	2290.7	2103.9	1887.1	1700.3	1579.5	1539.6	1515.9
15°	3021.9	2899.8	2675.6	2476.3	2213.5	1872.2	1504.7	1260.6	1148.5	1126.1	1101.1
17.5°	3144.0	3009.4	2757.8	2482.5	2044.1	1496.0	1102.4	936.7	893.1	908.1	911.8
20°	3251.1	3117.8	2838.8	2427.7	1736.4	1122.3	853.3	812.2	828.3	857.0	862.0
22.5°	3359.5	3222.4	2913.5	2283.2	1342.8	852.0	768.6	778.5	794.7	823.4	828.3
25°	3491.5	3349.5	2983.3	2017.9	1007.7	725.0	729.9	744.9	761.1	787.2	789.7
27.5°	3643.5	3510.2	3029.4	1672.9	747.4	666.4	682.6	705.0	721.2	746.1	751.1
30°	3845.3	3721.9	3044.3	1315.4	626.6	614.1	621.6	649.0	672.6	695.1	698.8
32.5°	4034.6	3931.2	2994.5	992.8	580.5	565.5	565.5	581.7	609.1	630.3	635.3
35°	4209.0	4141.7	2835.1	726.2	545.6	520.7	508.2	508.2	525.7	543.1	548.1
37.5°	4439.4	4436.9	2577.2	579.2	512.0	483.3	457.1	437.2	431.0	434.7	437.2
40°	4834.3	4838.0	2240.9	519.4	483.3	444.7	404.8	368.7	335.1	323.9	322.6
42.5°	5450.9	5394.8	1888.4	490.8	458.4	404.8	345.0	296.5	244.1	228.0	226.7
45°	6429.9	6097.4	1514.7	464.6	432.2	360.0	285.2	219.2	176.9	164.4	164.4
47.5°	7856.2	7020.4	1173.4	436.0	397.4	308.9	215.5	158.2	129.5	123.3	124.6
50°	9331.0	7924.7	899.3	399.8	355.0	255.4	159.4	114.6	98.4	98.4	99.7
52.5°	10638.9	8587.4	701.3	361.2	302.7	200.5	120.8	89.7	82.2	81.0	82.2
55°	11863.4	9014.6	536.9	316.4	240.4	149.5	92.2	73.5	68.5	66.0	64.8
57.5°	13044.3	9226.4	402.3	255.4	174.4	108.4	73.5	62.3	57.3	53.6	52.3
60°	13830.2	9054.5	276.5	188.1	120.8	78.5	61.0	53.6	47.3	43.6	42.4
62.5°	14273.7	8584.9	178.1	135.8	85.9	58.5	48.6	44.8	36.1	32.4	32.4
65°	14094.3	7810.1	124.6	97.2	62.3	43.6	36.1	36.1	26.2	21.2	19.9
67.5°	12489.9	6598.1	94.7	72.2	44.8	32.4	27.4	31.1	16.2	10.0	10.0
69°	*10746.1*	*5468.3*	*81.0*	*59.8*	*37.4*	*26.2*	*23.7*	*28.6*	*11.2*	*7.5*	*6.2*
70°	9339.7	4717.2	73.5	52.3	31.1	22.4	21.2	27.4	11.2	6.2	5.0
72.5°	5587.9	2630.8	56.1	37.4	19.9	17.4	17.4	31.1	11.2	6.2	5.0
75°	2258.3	926.7	41.1	26.2	14.9	14.9	21.2	39.9	10.0	5.0	3.7
77.5°	512.0	203.0	23.7	16.2	10.0	14.9	24.9	31.1	6.2	2.5	0.0
80°	124.6	49.8	14.9	10.0	6.2	11.2	18.7	17.4	1.2	0.0	0.0
82.5°	41.1	17.4	6.2	5.0	1.2	3.7	8.7	5.0	0.0	0.0	0.0
85°	17.4	10.0	2.5	1.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0
87.5°	11.2	3.7	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

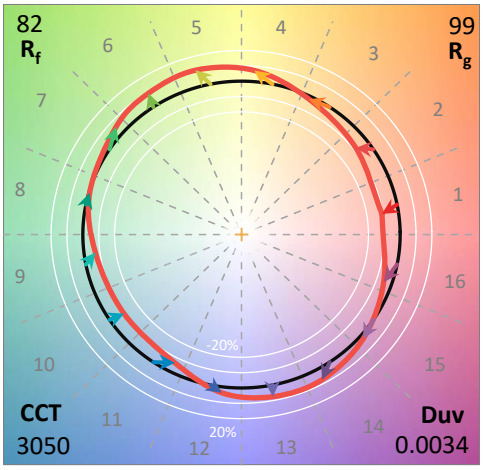
Test Information

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

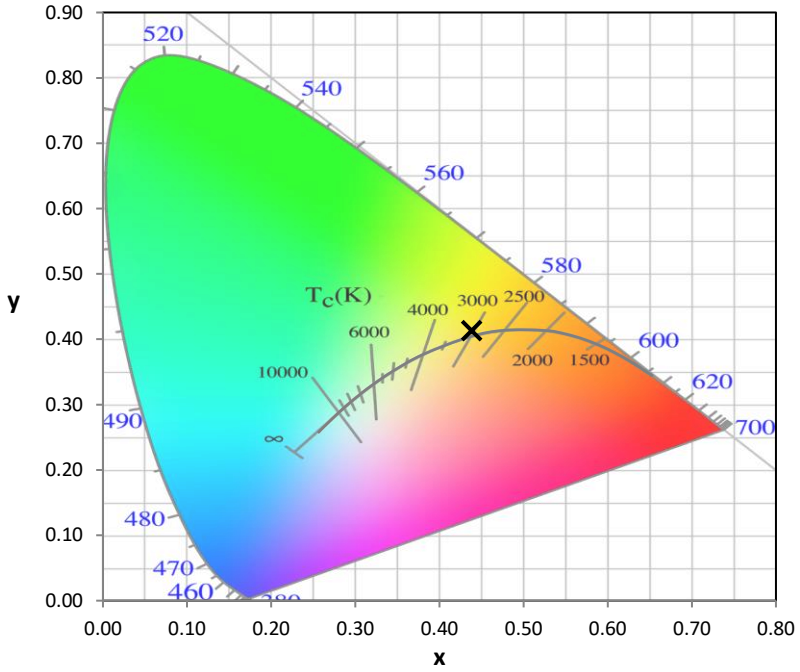
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

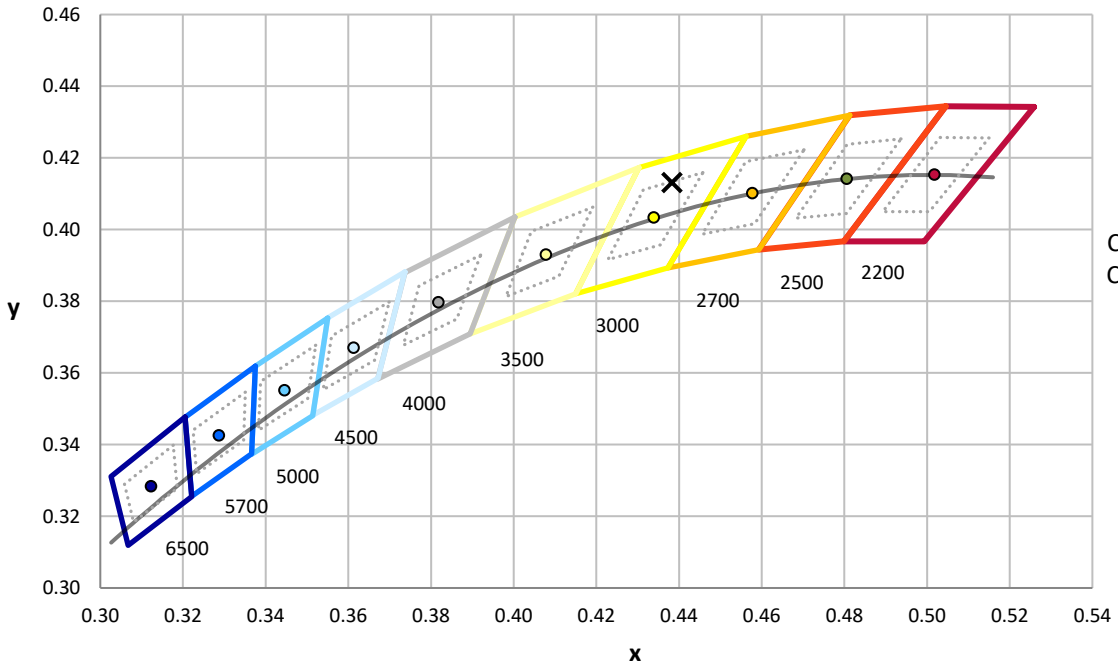
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

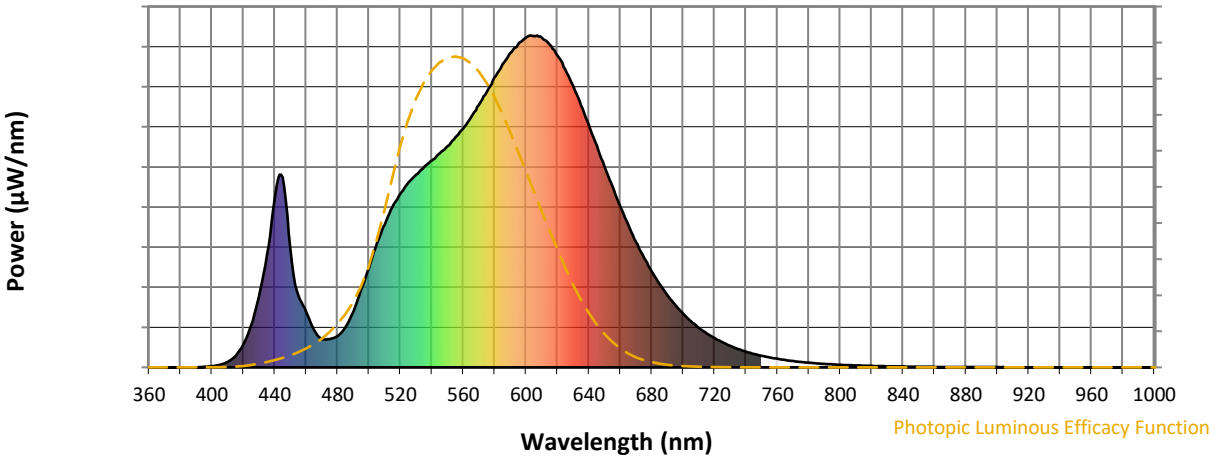


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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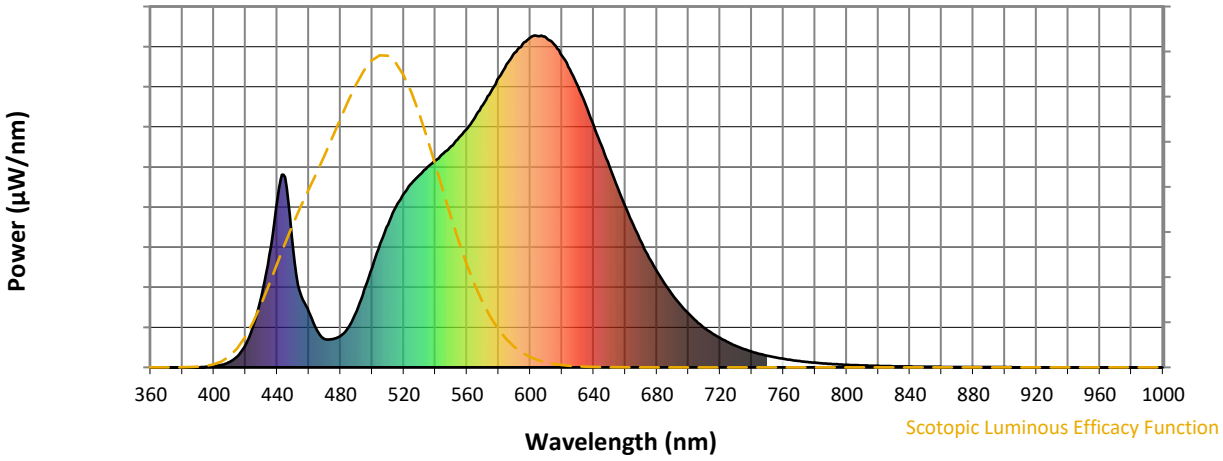
Scotopic Flux vs. Wavelength



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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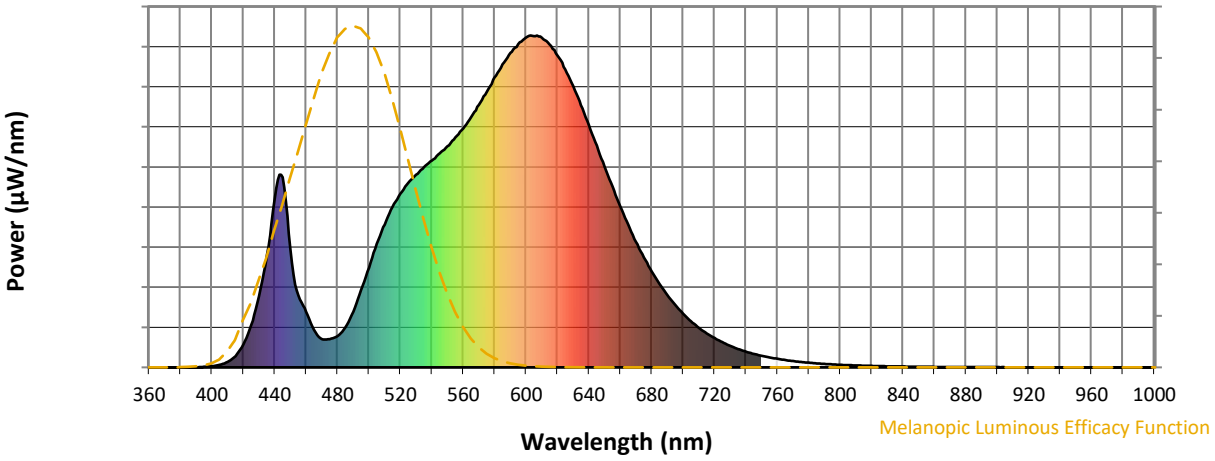
Melanopic Flux vs. Wavelength



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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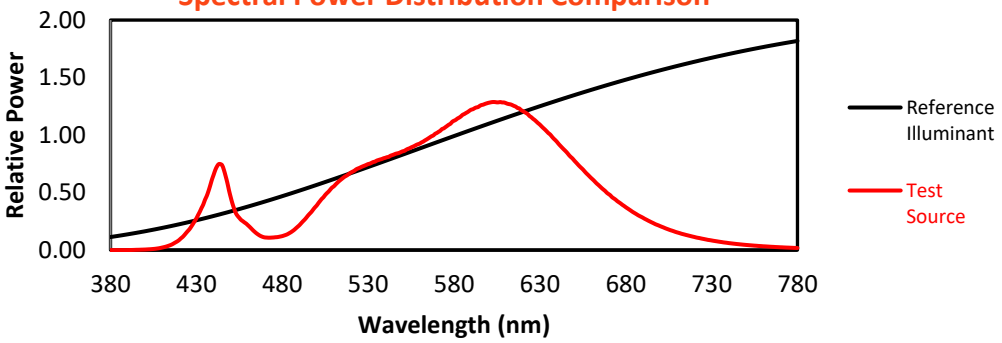
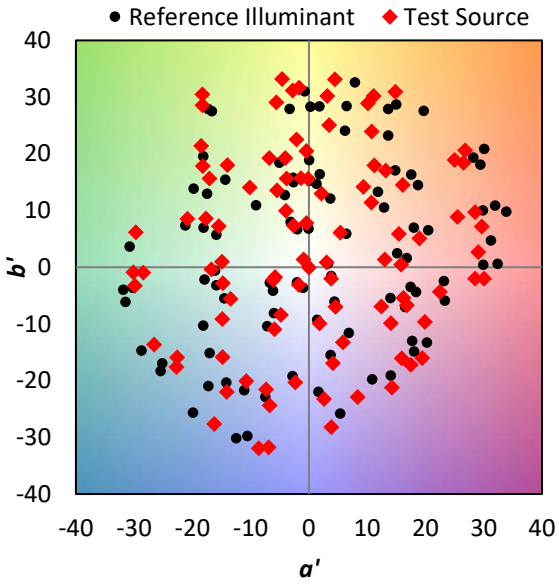
Summary

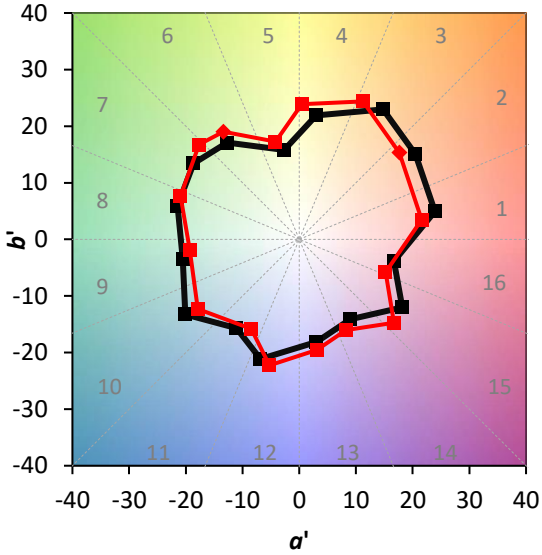
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

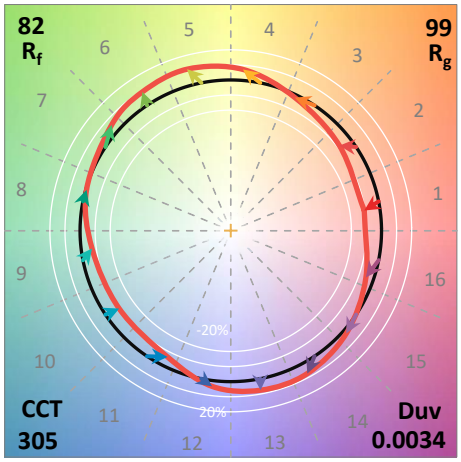
Spectral Power Distribution Comparison

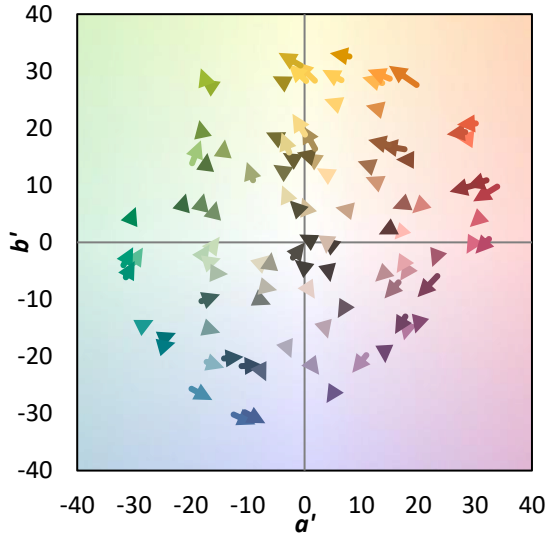


Color Vector Graphics









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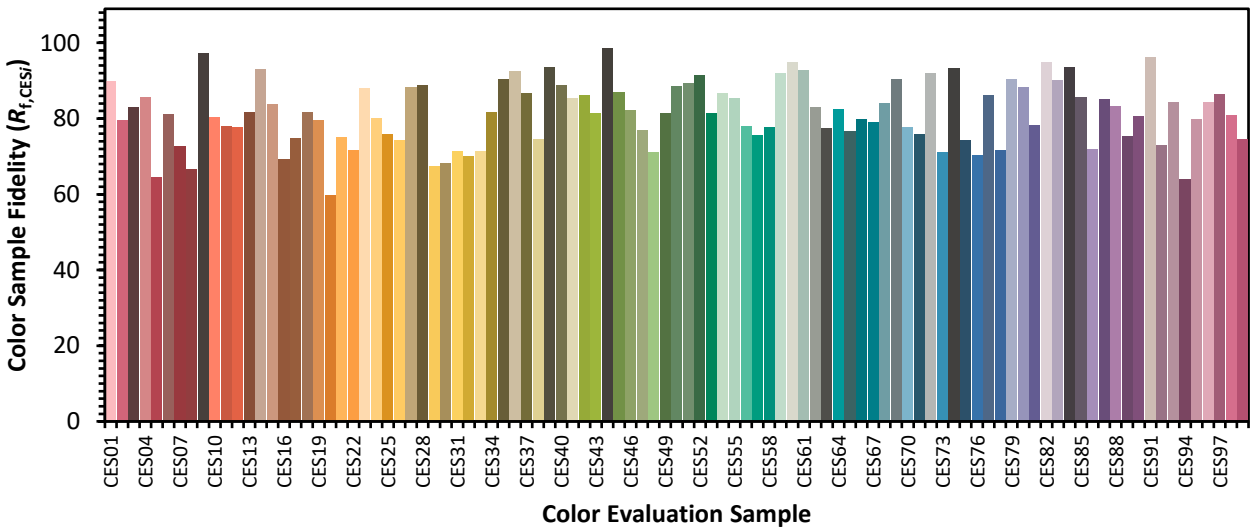
Individual Sample Fidelity Index ($R_{f,i}$)

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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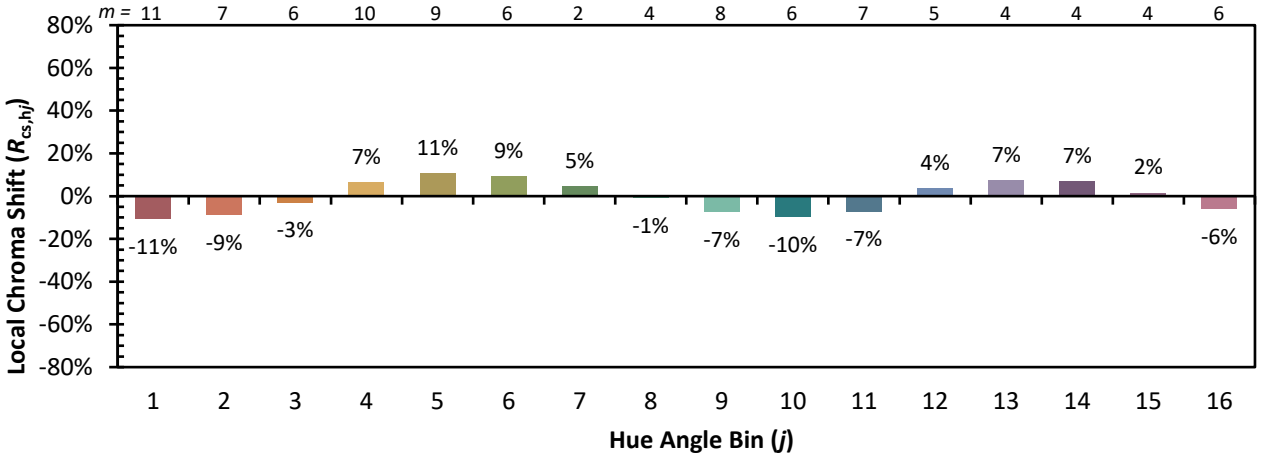
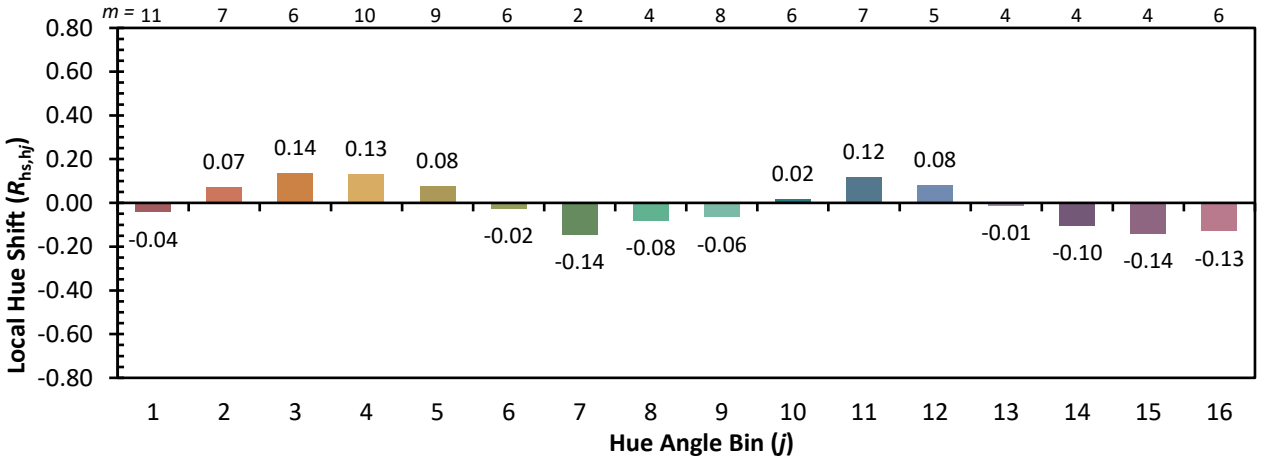
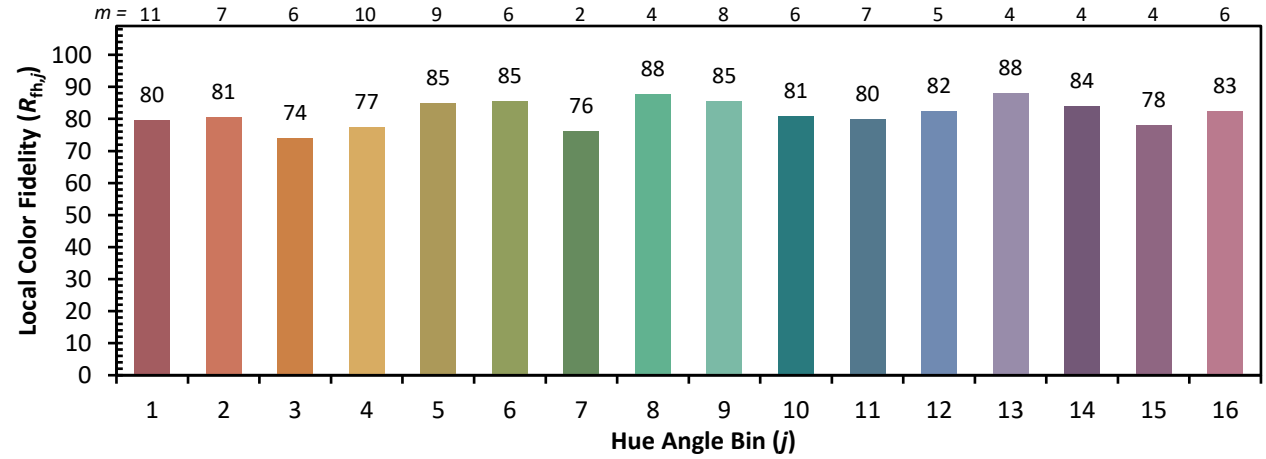
Color Rendition by Hue-Angle Bin







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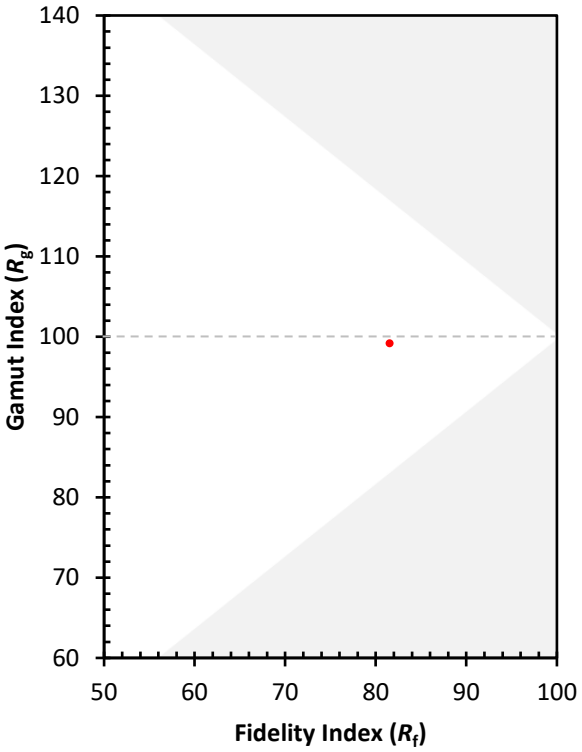
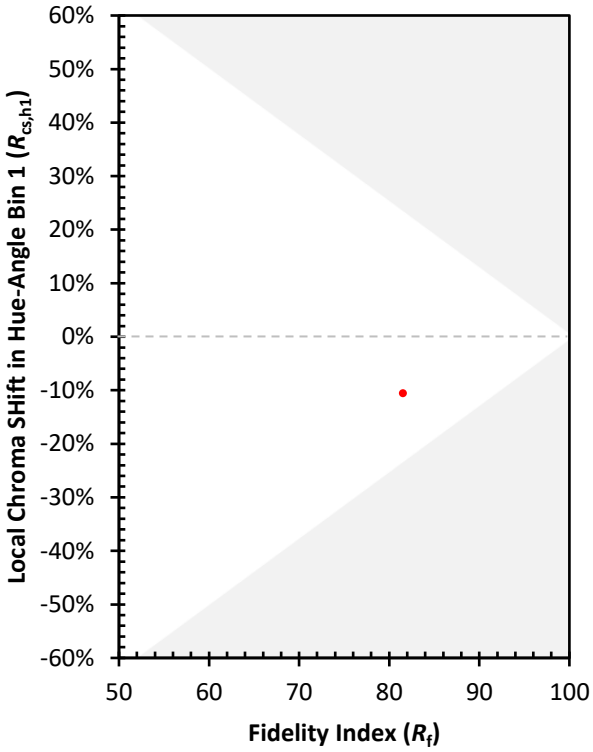
Measure Comparisons





(END OF REPORT)