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: P323368

Luminaire Tested: **GLEON-SA4C-830-U-SL2-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:	P323368
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
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-SL2-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
	SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	18779 lumens
Efficiency:	N/A
Efficacy:	83.5 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):	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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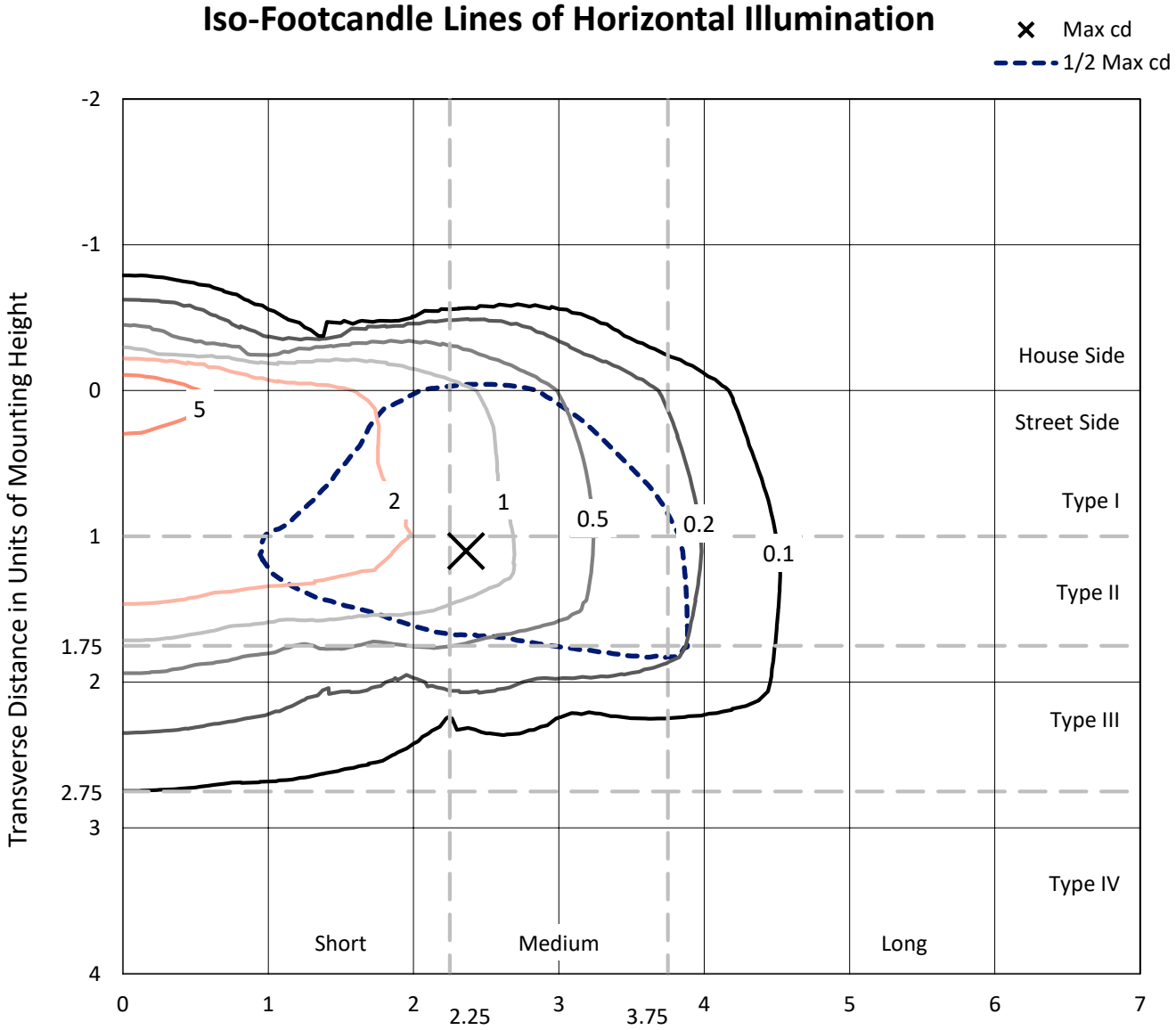
Scaled Data Report

REPORT NUMBER: P323368
CATALOG NUMBER: GLEON-SA4C-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type III - Medium - N/A

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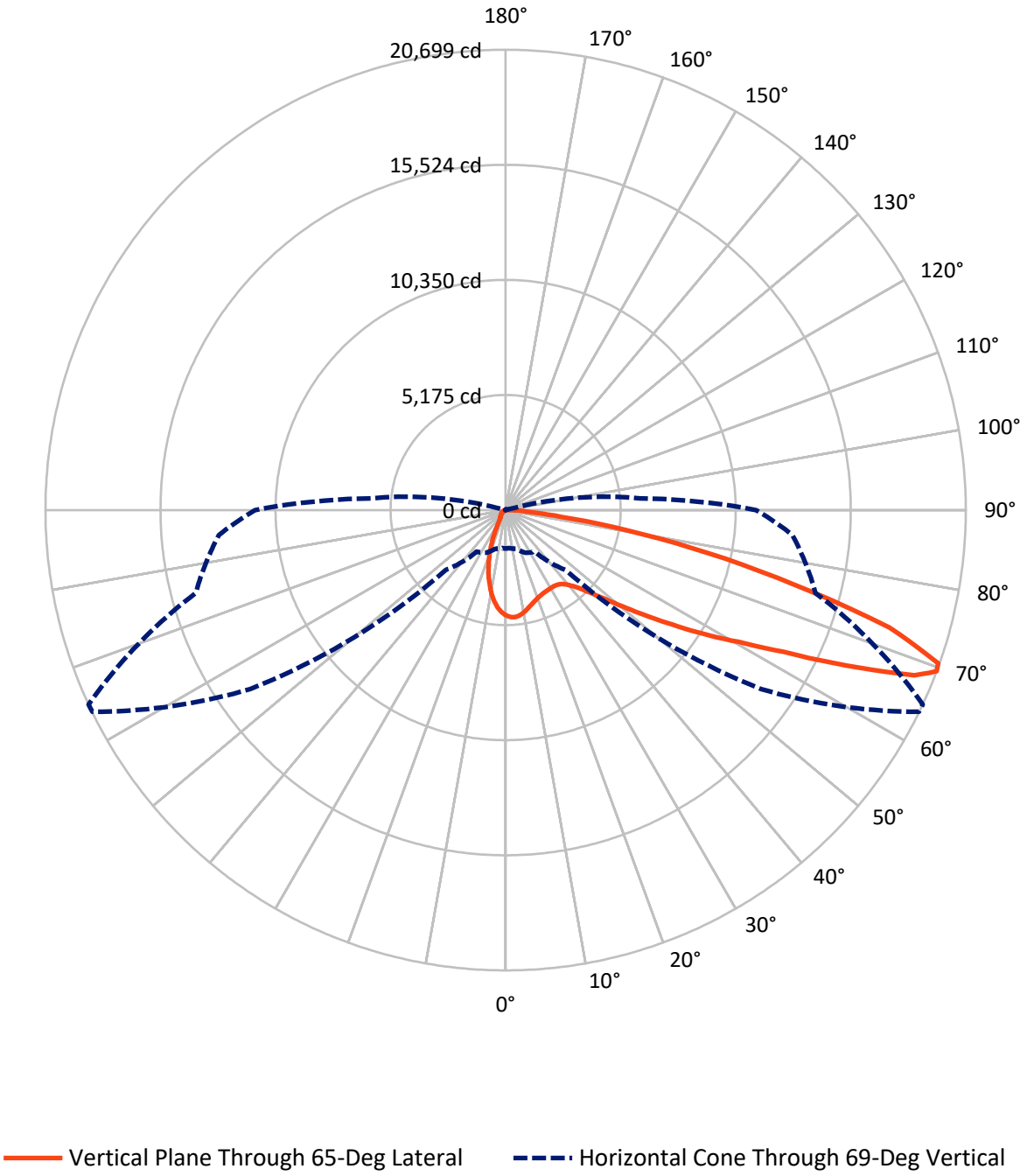
Luminous Intensity Polar Plot



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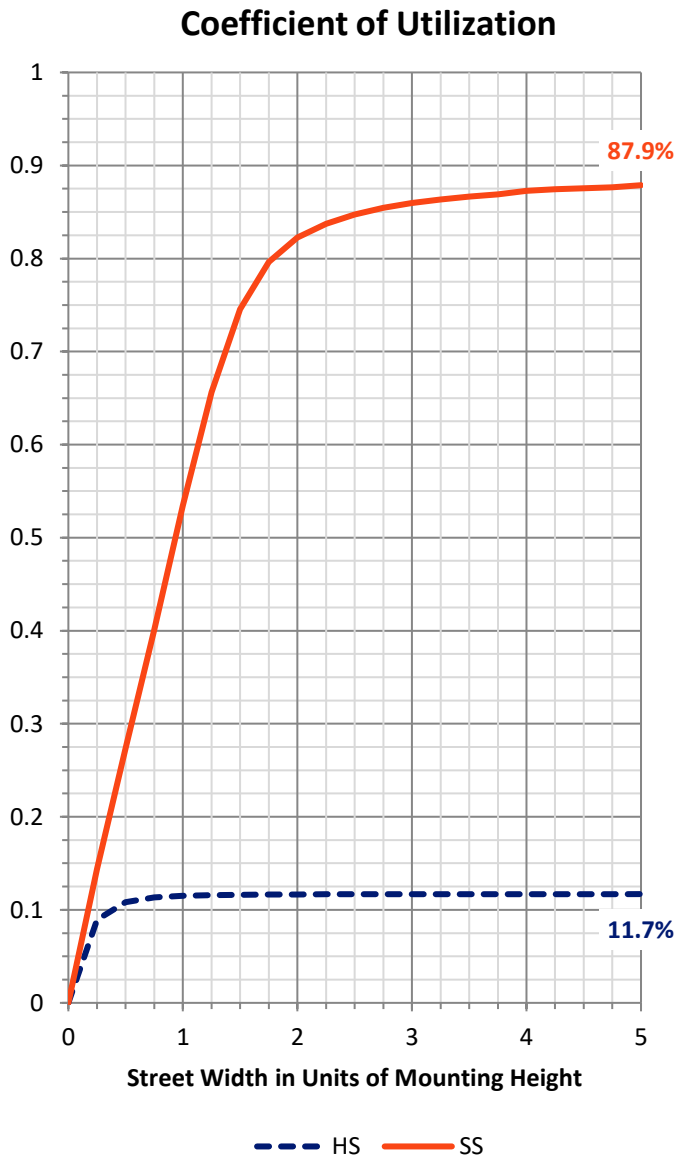
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2213.6	0.0	2213.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	16565.4	0.0	16565.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	18779.0	0.0	18779.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.8	2.1
10°-20°	868.7	4.6
20°-30°	1203.1	6.4
30°-40°	1677.5	8.9
40°-50°	2607.4	13.9
50°-60°	4186.0	22.3
60°-70°	4735.0	25.2
70°-80°	2780.9	14.8
80°-90°	323.5	1.7
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°	18779.0	100.0
0°-180°	18779.0	100.0



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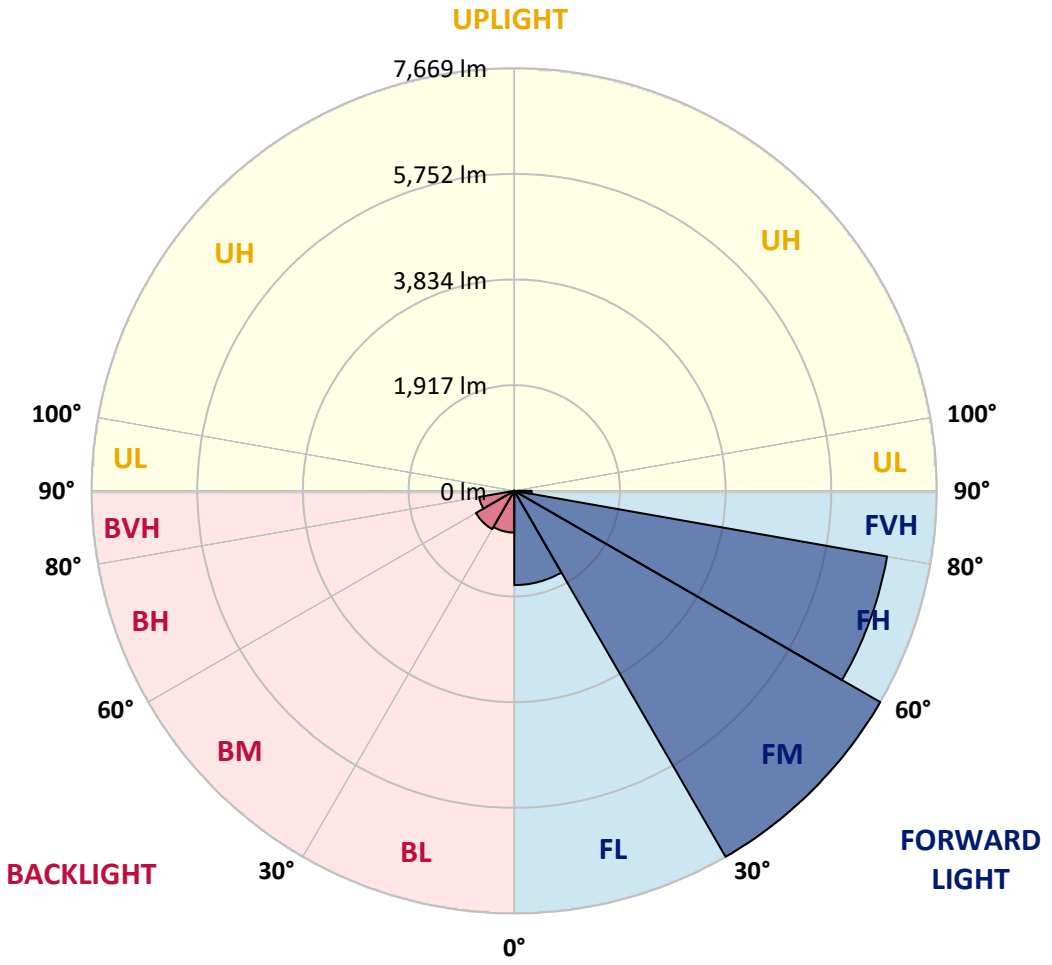
REPORT NUMBER: P323368
CATALOG NUMBER: GLEON-SA4C-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1711.2	9.1			
FM	(30°-60°)	7668.8	40.8			
FH	(60°-80°)	6869.2	36.6			G3/7500
FVH	(80°-90°)	316.2	1.7			G3/500
BL	(0°-30°)	757.4	4.0	B2/1000		
BM	(30°-60°)	802.2	4.3	B1/1000		
BH	(60°-80°)	646.8	3.4	B2/1000		G2/1000
BVH	(80°-90°)	7.3	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-G3
Type III Medium



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REPORT NUMBER: P323368
CATALOG NUMBER: GLEON-SA4C-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5	*4745.5*	4745.5	4745.5
2.5°	4787.6	4775.7	4785.2	4805.9	4816.2	4816.2	4824.2	4814.6	*4817.8*	4794.8	4761.4
5°	4488.0	4469.8	4496.0	4554.0	4625.5	4686.7	4777.3	4824.9	*4829.7*	4830.5	4791.6
7.5°	4165.4	4148.7	4187.7	4256.0	4348.2	4461.8	4619.9	4758.2	*4766.1*	4840.8	4812.2
10°	3903.2	3891.3	3936.6	4009.7	4117.7	4244.9	4438.8	4631.1	*4654.1*	4819.4	4809.1
12.5°	3695.0	3685.5	3728.4	3812.6	3923.1	4063.7	4266.3	4489.6	*4520.6*	4770.9	4793.2
15°	3543.2	3541.6	3577.4	3658.4	3780.8	3911.9	4119.3	4358.5	*4394.3*	4718.5	4790.8
17.5°	3463.8	3466.1	3492.4	3561.5	3666.4	3796.7	3995.4	4248.1	*4287.0*	4671.6	4802.7
20°	3455.8	3458.2	3472.5	3511.4	3596.5	3711.7	3894.4	4155.1	*4195.6*	4636.6	4821.8
22.5°	3525.7	3524.2	3528.1	3524.2	3571.8	3659.2	3827.7	4083.6	*4130.4*	4613.6	4836.9
25°	3660.0	3657.6	3656.1	3626.7	3594.9	3641.8	3799.9	4043.0	*4087.5*	4596.9	4845.6
27.5°	3846.8	3845.2	3842.8	3794.3	3699.0	3669.6	3803.1	4027.9	*4065.3*	4583.4	4844.0
30°	4092.3	4103.4	4100.3	4032.7	3884.1	3754.6	3836.4	4020.0	*4052.6*	4557.2	4827.3
32.5°	4380.8	4403.0	4420.5	4348.2	4162.2	3923.1	3913.5	4028.7	*4052.6*	4537.3	4797.1
35°	4680.3	4708.9	4773.3	4747.9	4503.1	4176.5	4046.2	4081.2	*4101.0*	4548.4	4782.8
37.5°	4975.1	5009.3	5149.2	5223.1	4949.7	4511.9	4252.8	4210.7	*4221.0*	4616.0	4798.7
40°	5317.6	5369.3	5581.4	5700.6	5482.9	4960.8	4561.9	4433.2	*4437.2*	4764.6	4872.6
42.5°	5767.4	5820.6	6050.3	6237.0	6083.6	5528.2	4981.5	4773.3	*4769.3*	5042.7	5046.6
45°	6315.7	6371.3	6608.9	6816.3	6747.1	6200.4	5518.7	5269.9	*5265.2*	5481.3	5376.4
47.5°	6937.1	6991.9	7204.0	7417.8	7492.5	6985.5	6202.8	5947.8	*5936.6*	6090.8	5885.8
50°	7470.2	7506.0	7701.5	7989.1	8326.1	7950.2	7053.9	6808.3	*6796.4*	6900.5	6633.5
52.5°	7664.1	7684.8	7883.5	8286.3	9127.0	9256.6	8171.9	7855.6	*7846.9*	7892.2	7629.2
55°	7271.6	7308.9	7552.9	8150.4	9560.9	10733.0	9583.1	9152.5	*9086.5*	8988.8	8670.1
57.5°	6202.0	6261.6	6523.9	7318.5	9358.3	11904.2	11657.1	10619.3	*10522.4*	9924.8	9516.4
60°	4647.0	4720.1	4937.8	5795.2	8276.8	12321.4	13923.4	12253.9	*12035.4*	10670.2	10294.3
62.5°	3188.8	3225.4	3373.2	3931.8	6095.6	11638.0	15819.3	14443.1	*14044.2*	11480.7	11135.8
65°	2435.5	2448.2	2508.6	2700.9	3629.8	9453.6	16573.4	17331.5	*16849.2*	12450.1	12009.1
67.5°	1962.7	1952.4	2035.8	2310.8	2430.8	5767.4	15693.8	20064.2	*19838.5*	13746.2	12888.0
69°	*1730.7*	*1716.4*	*1801.4*	*2120.8*	*2283.0*	*3812.6*	*14029.9*	*20684.8*	*20699.1*	*14430.3*	*12948.4*
70°	1557.5	1567.0	1651.2	2008.0	2232.9	2992.5	12440.6	20526.7	*20639.5*	14686.2	12586.0
72.5°	1040.2	1065.6	1234.8	1667.1	2147.1	2264.7	7511.6	17614.4	*18048.3*	14110.1	10798.1
75°	586.4	605.5	806.5	1257.1	2023.1	2156.6	3967.6	12977.0	*13396.5*	11799.4	8326.9
77.5°	287.7	298.0	456.1	811.3	1691.8	2054.9	2250.4	8814.7	*9293.9*	7701.5	4709.7
80°	121.6	127.1	228.1	500.6	1209.4	1961.1	1671.1	5424.9	*5484.5*	3017.2	1254.7
82.5°	46.9	48.5	96.1	312.3	768.4	1528.9	1397.7	2572.2	*2510.2*	568.2	286.1
85°	5.6	6.4	35.0	187.5	427.5	786.7	1135.5	1108.5	*1025.9*	112.8	147.0
87.5°	0.0	0.0	2.4	57.2	127.1	368.7	590.4	460.1	*414.8*	36.6	76.3
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: P323368
CATALOG NUMBER: GLEON-SA4C-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5	4745.5
2.5°	4733.6	4725.6	4682.7	4620.7	4561.9	4488.8	4418.9	4376.8	4343.4	4321.2	4347.4
5°	4746.3	4711.3	4581.0	4414.1	4250.4	4066.1	3894.4	3749.0	3691.8	3628.2	3656.9
7.5°	4742.3	4676.4	4441.9	4144.8	3844.4	3533.7	3239.7	3013.2	2895.6	2780.4	2809.8
10°	4722.4	4611.2	4256.0	3815.8	3366.0	2919.4	2502.3	2185.2	2008.0	1847.5	1870.5
12.5°	4678.7	4523.8	4036.7	3439.1	2837.6	2248.8	1760.1	1354.0	1136.3	1040.2	1052.1
15°	4652.5	4438.8	3804.7	3057.7	2273.4	1566.2	1075.9	800.2	700.9	669.1	673.0
17.5°	4639.8	4356.9	3564.7	2621.5	1696.5	997.3	695.3	613.4	592.0	586.4	588.0
20°	4627.1	4274.3	3317.5	2190.0	1168.9	670.7	571.3	547.5	539.5	532.4	534.0
22.5°	4605.6	4194.8	3052.1	1752.9	788.3	544.3	514.9	491.9	475.2	466.4	468.0
25°	4579.4	4111.4	2781.2	1305.6	575.3	485.5	457.7	425.1	405.3	389.4	390.2
27.5°	4537.3	4008.9	2501.5	950.4	483.1	434.7	397.3	361.6	328.2	309.9	309.9
30°	4478.5	3892.9	2190.8	680.2	433.1	384.6	339.3	294.8	259.0	242.4	240.8
32.5°	4413.3	3772.1	1876.9	515.7	393.3	337.7	286.1	239.2	207.4	193.9	193.1
35°	4357.7	3641.8	1563.8	432.3	353.6	292.4	236.0	196.3	170.8	159.7	158.9
37.5°	4322.0	3511.4	1258.7	386.2	317.8	250.3	197.9	162.1	143.8	135.1	134.3
40°	4316.4	3414.5	979.8	351.2	284.5	213.0	165.3	137.5	120.8	111.2	110.5
42.5°	4388.7	3358.9	751.7	321.8	250.3	180.4	140.6	117.6	100.1	90.6	89.8
45°	4578.6	3376.4	578.5	295.6	216.1	152.6	119.2	97.7	81.8	74.7	73.1
47.5°	4925.1	3497.1	460.1	269.4	183.6	129.5	101.7	81.1	67.5	60.4	59.6
50°	5541.7	3780.8	384.6	240.8	153.4	110.5	84.2	66.0	54.8	48.5	47.7
52.5°	6360.2	4286.2	343.3	213.0	127.1	93.8	69.1	52.4	42.9	38.1	37.3
55°	7262.9	4898.1	316.3	182.8	104.1	77.9	54.8	41.3	33.4	29.4	27.8
57.5°	8144.1	5428.1	290.8	153.4	86.6	63.6	43.7	32.6	26.2	22.2	21.5
60°	8953.8	5915.2	261.4	123.2	70.7	50.1	34.2	25.4	20.7	16.7	16.7
62.5°	9820.7	6291.8	220.9	96.1	58.0	38.1	27.8	23.0	16.7	14.3	13.5
65°	10739.3	6571.5	173.2	74.7	45.3	28.6	23.0	23.8	13.5	10.3	9.5
67.5°	11417.9	6515.9	127.9	58.8	35.0	22.2	22.2	25.4	11.9	7.9	7.2
69°	*11268.5*	*6063.8*	*107.3*	*50.9*	*30.2*	*19.1*	*20.7*	*25.4*	*11.1*	*7.2*	*6.4*
70°	10835.5	5563.2	94.6	45.3	27.0	17.5	19.9	24.6	10.3	7.2	6.4
72.5°	9023.7	4190.0	73.9	34.2	21.5	14.3	16.7	21.5	10.3	7.2	5.6
75°	6787.7	2681.9	56.4	24.6	15.9	11.1	12.7	15.9	10.3	6.4	5.6
77.5°	3693.4	967.1	40.5	16.7	11.1	8.7	8.7	11.9	9.5	4.8	3.2
80°	949.6	243.2	25.4	11.1	8.7	6.4	5.6	7.9	5.6	0.8	0.0
82.5°	234.4	54.8	13.5	7.9	6.4	2.4	2.4	4.0	2.4	0.0	0.0
85°	128.7	27.0	8.7	5.6	3.2	0.0	0.0	0.8	0.0	0.0	0.0
87.5°	66.0	7.9	2.4	1.6	0.8	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

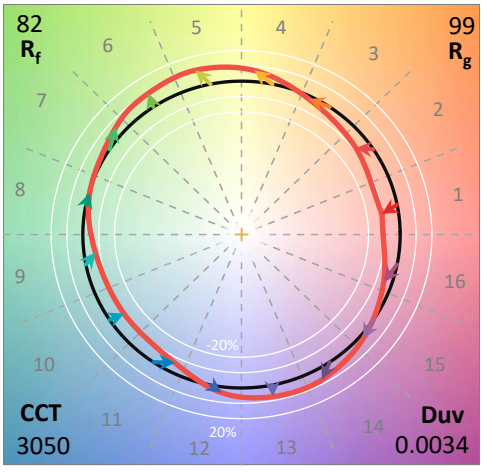
Test Information

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

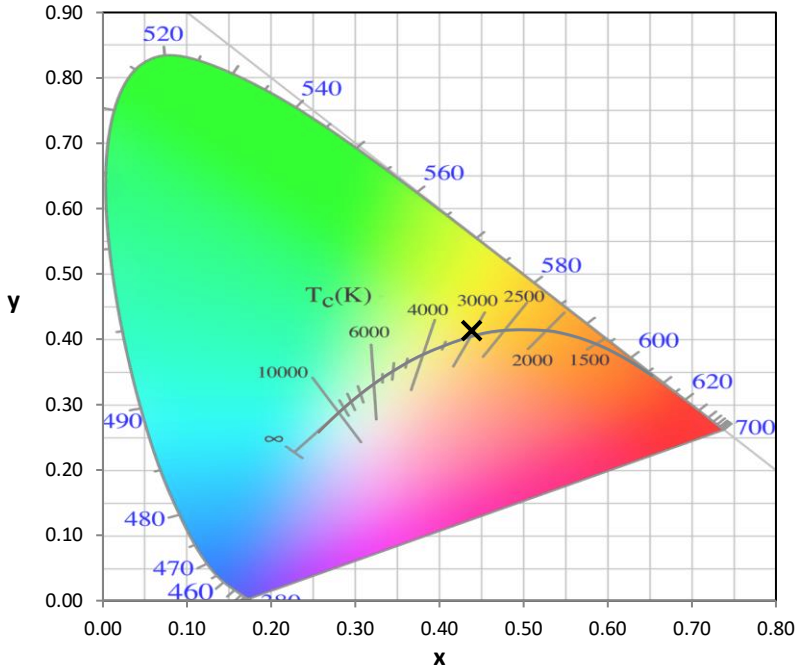
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

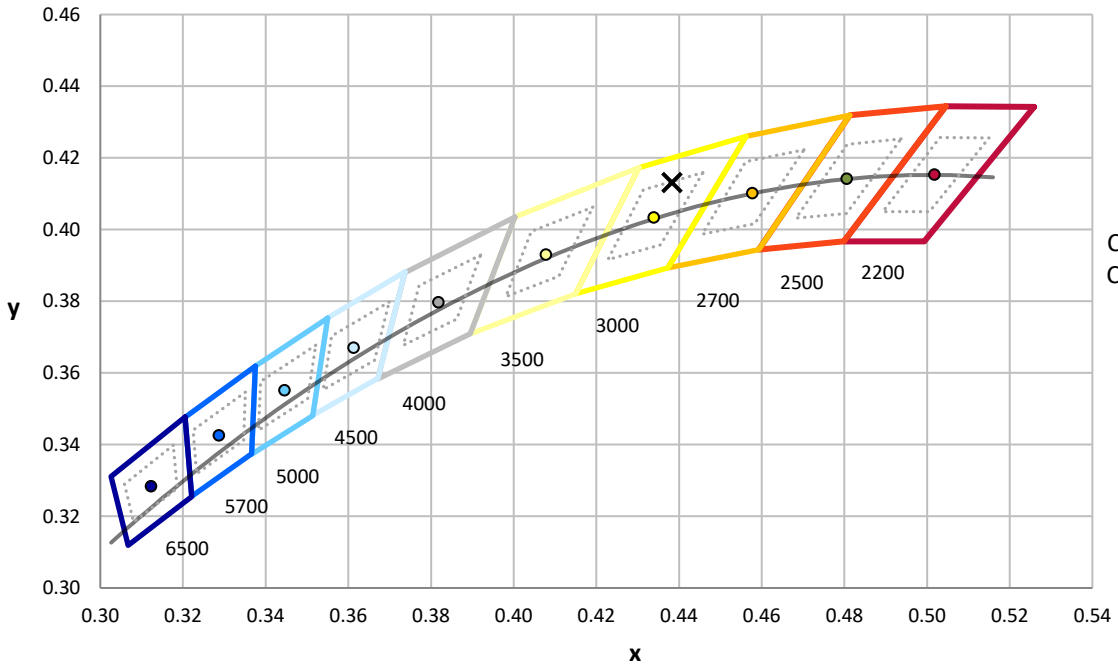
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

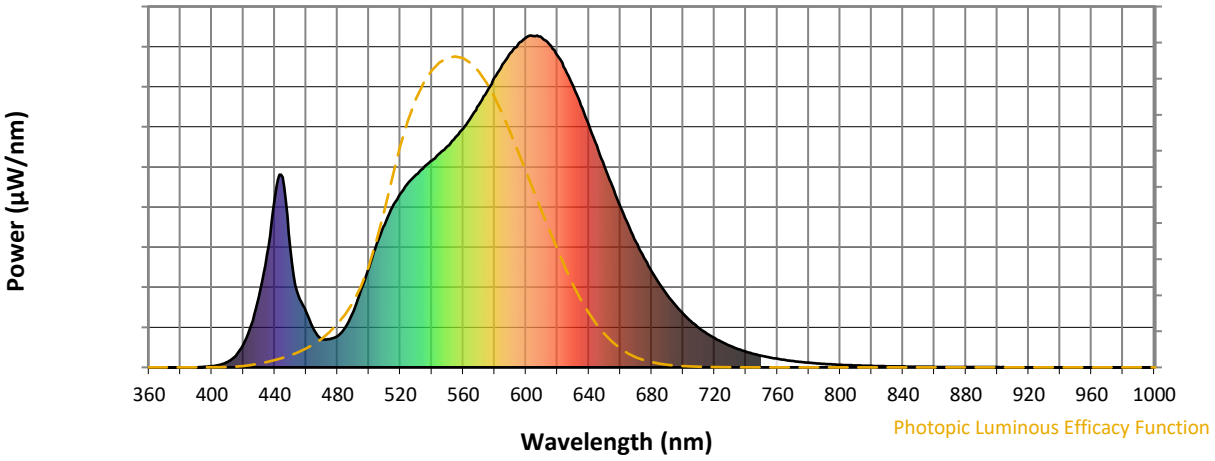


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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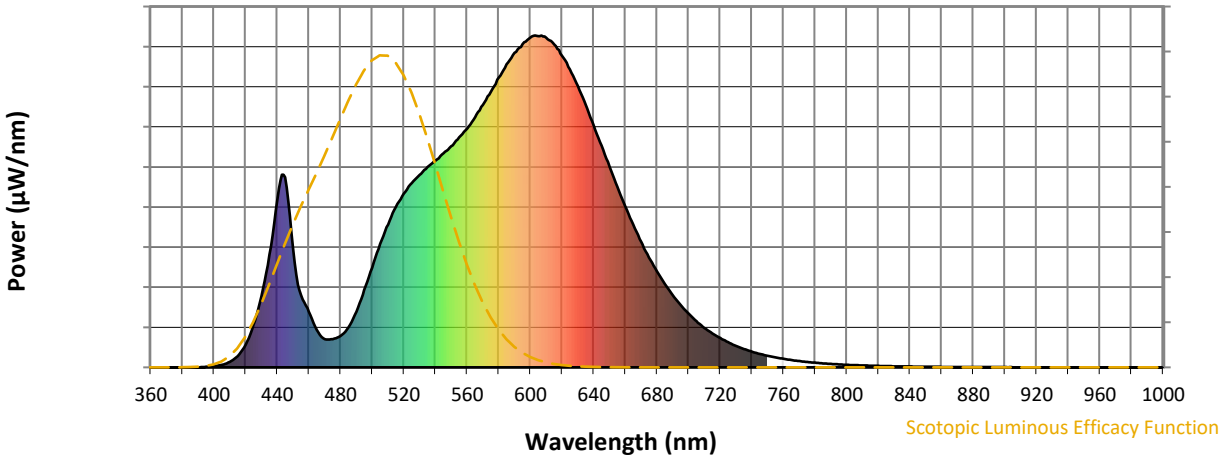
Scotopic Flux vs. Wavelength



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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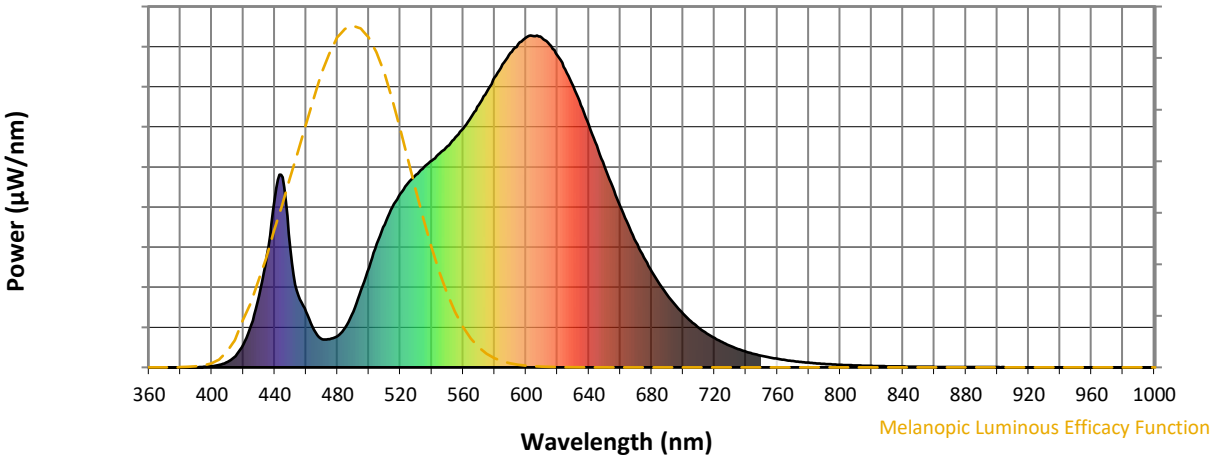
Melanopic Flux vs. Wavelength



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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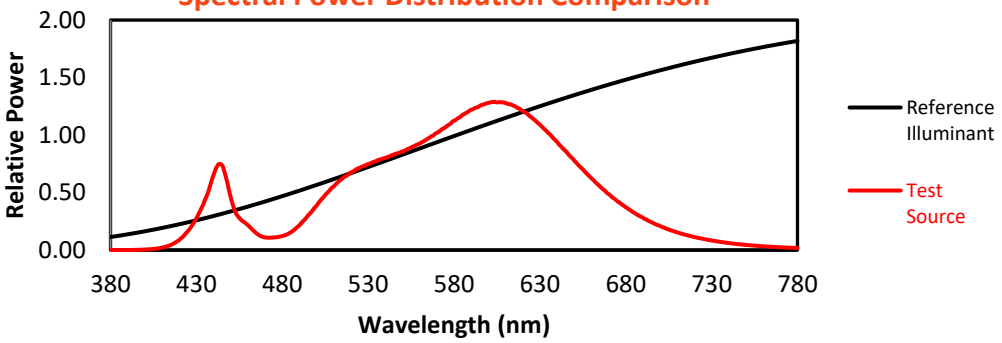
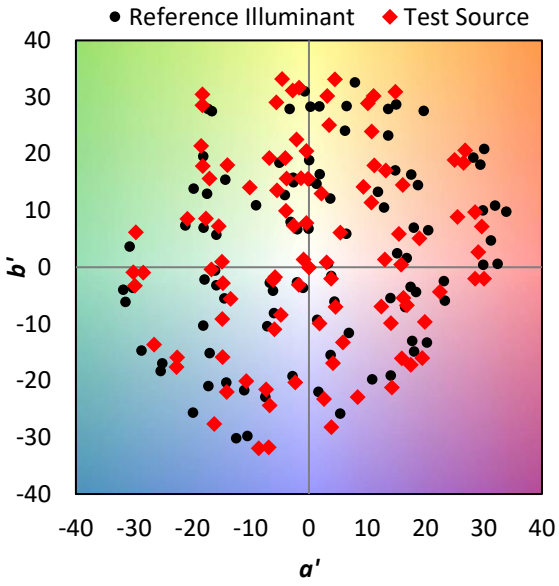
Summary

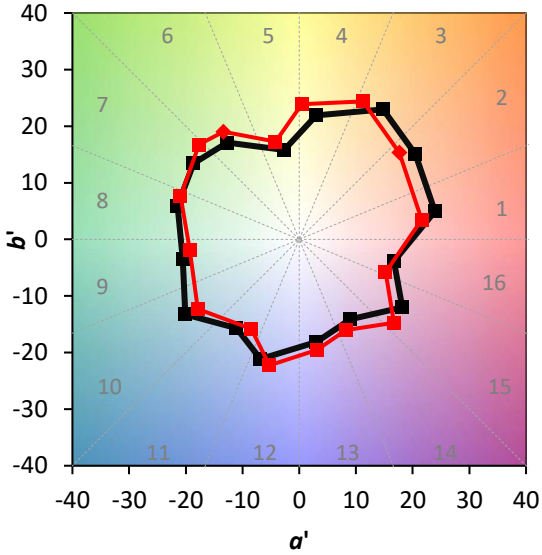
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

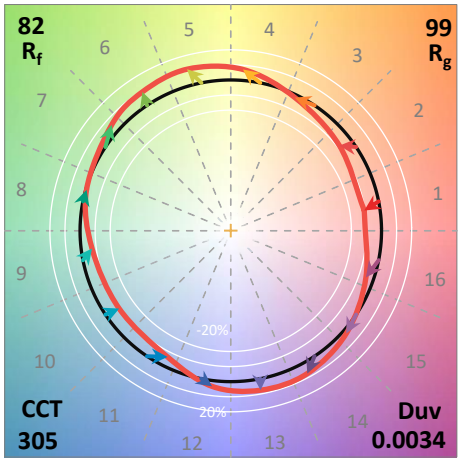
Spectral Power Distribution Comparison

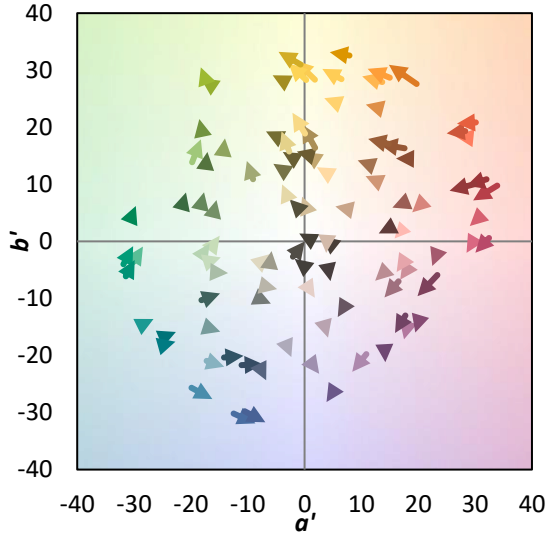


Color Vector Graphics









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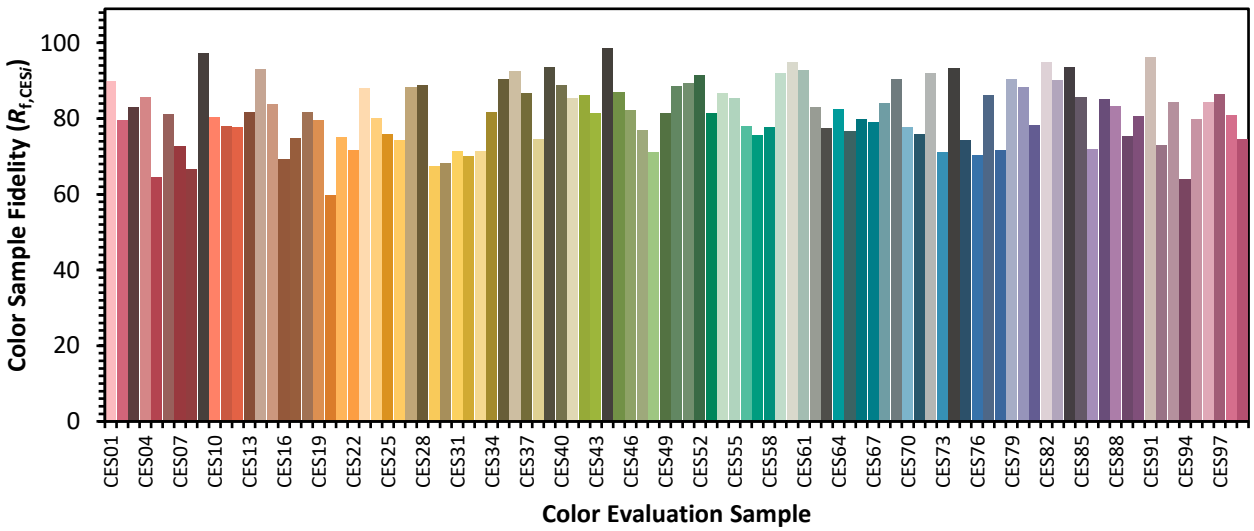
Individual Sample Fidelity Index ($R_{f,i}$)

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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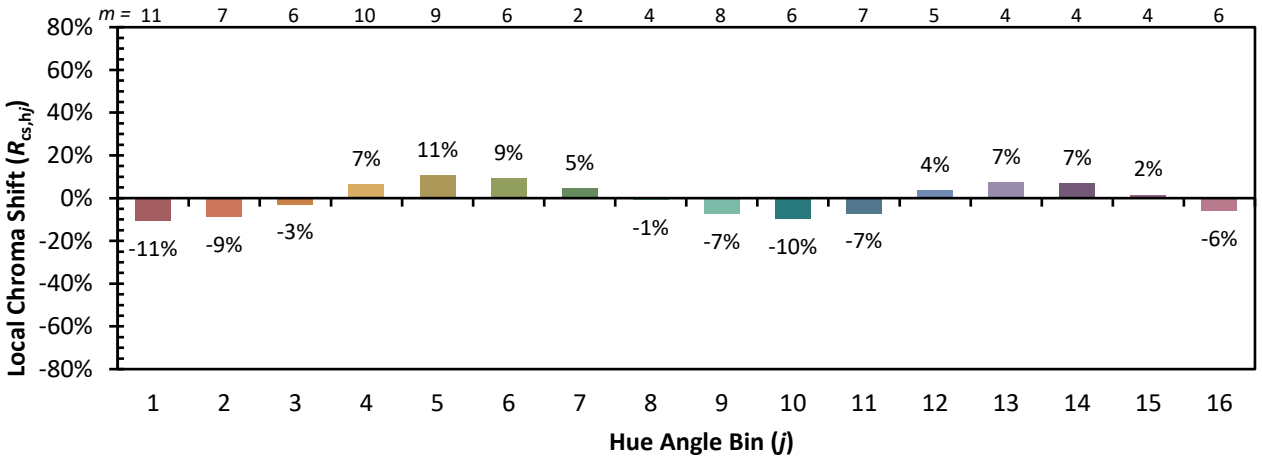
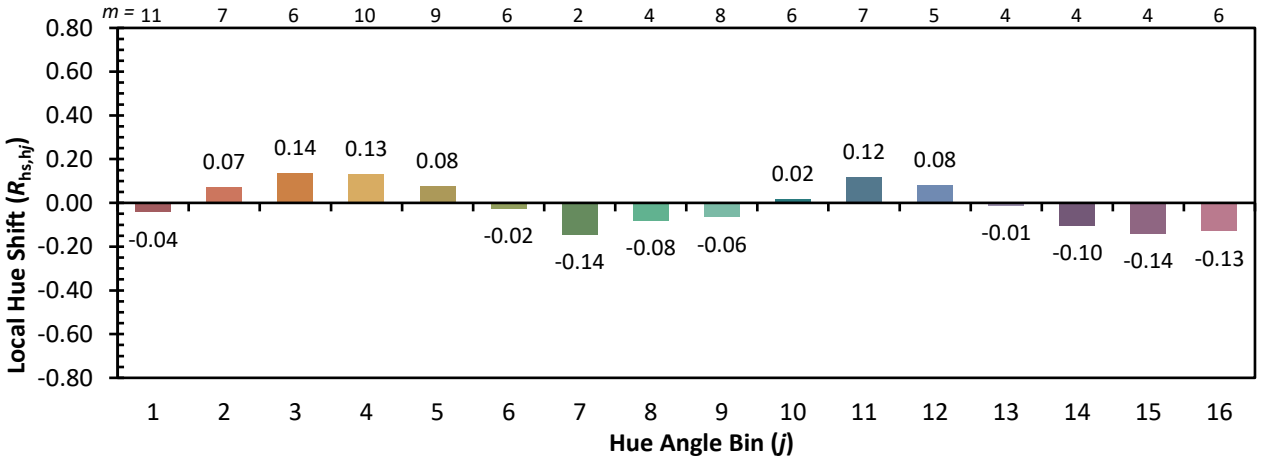
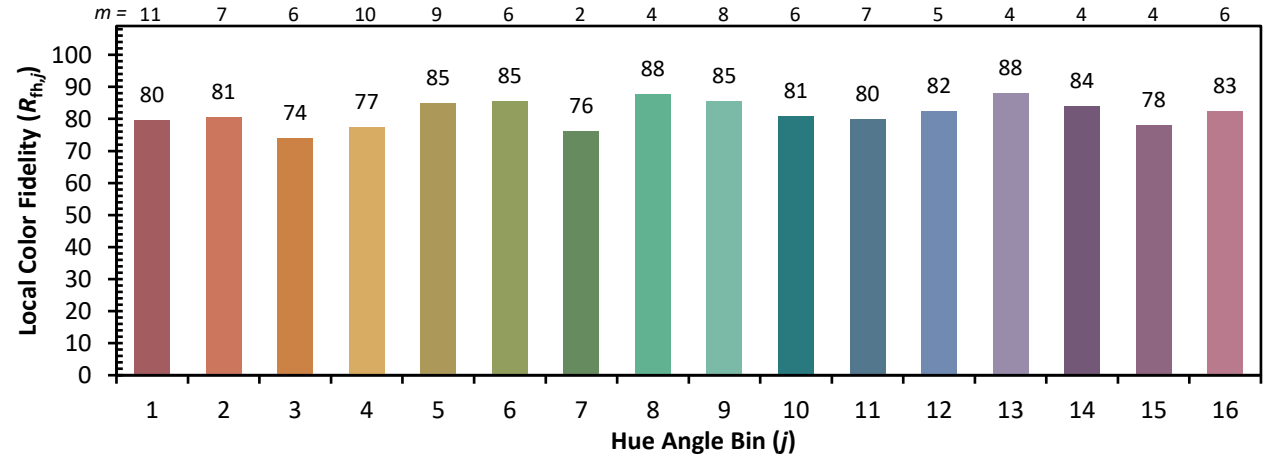
Color Rendition by Hue-Angle Bin







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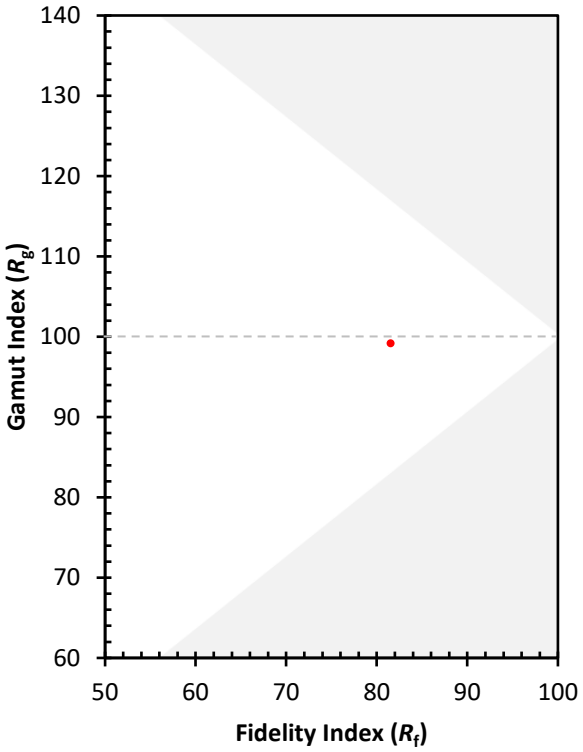
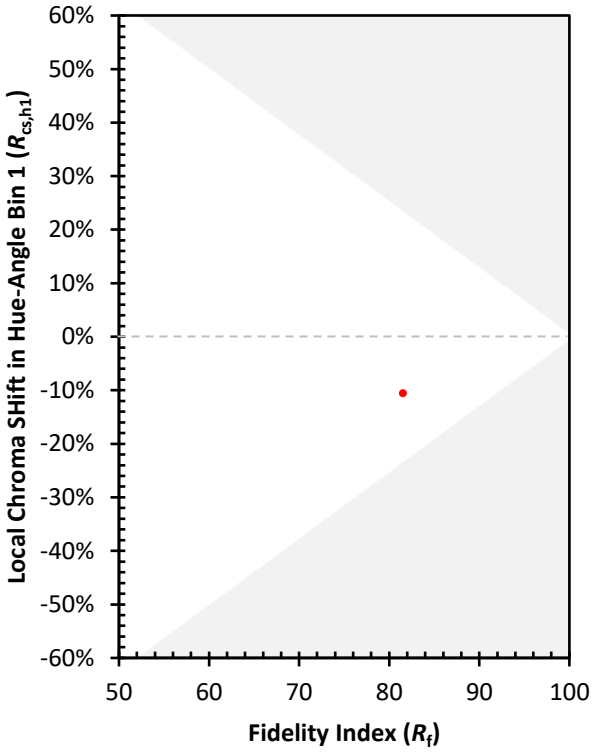
Measure Comparisons





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