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: P319538

Luminaire Tested: **GLEON-SA4D-830-U-SL2**

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:	P319538
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA4D-830-U-SL2
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	24365 lumens
Efficiency:	N/A
Efficacy:	94.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B3 - U0 - G4

Input Watts (W):	258
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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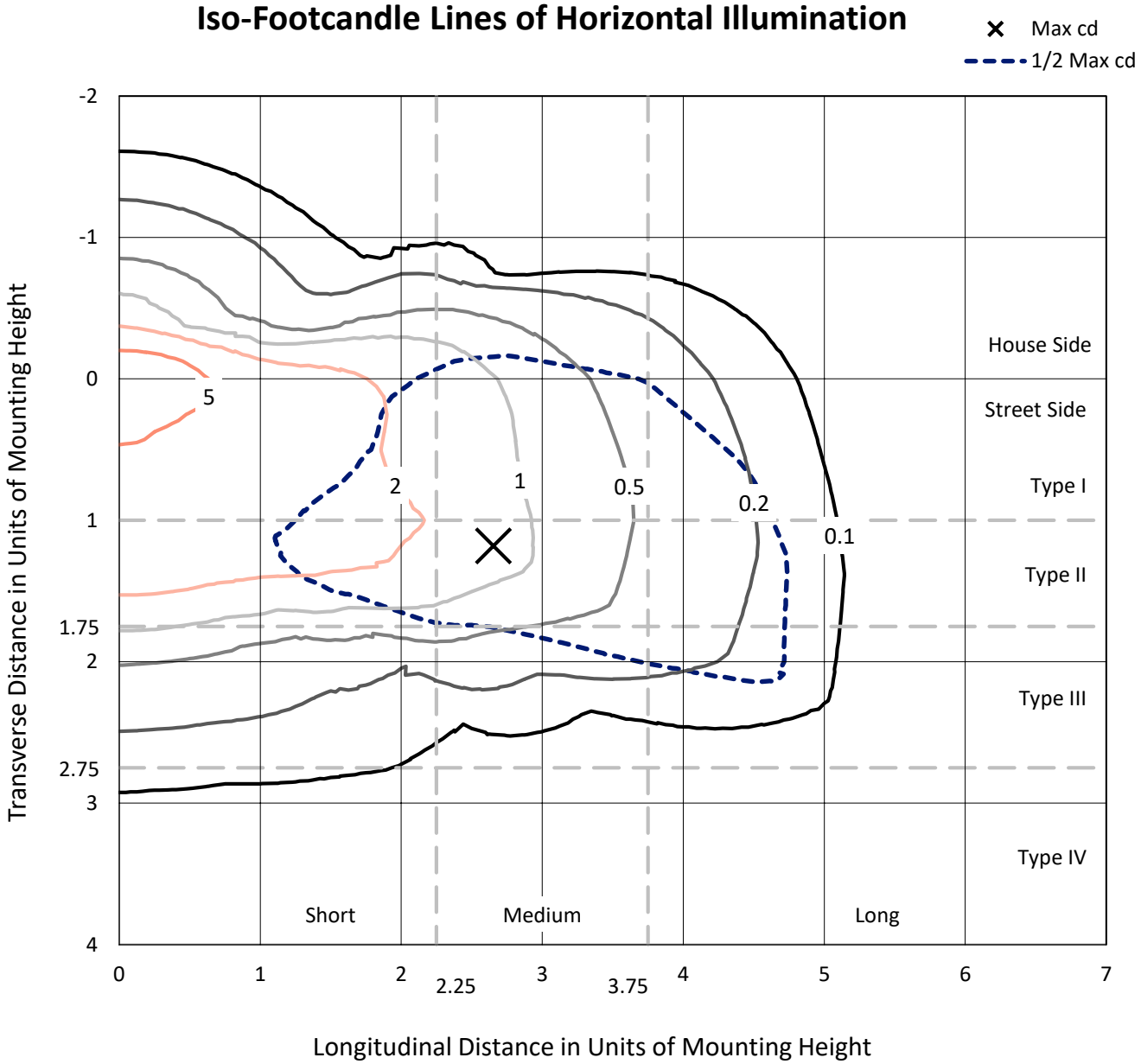
Scaled Data Report

REPORT NUMBER: P319538
CATALOG NUMBER: GLEON-SA4D-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
Type III - Medium - N/A

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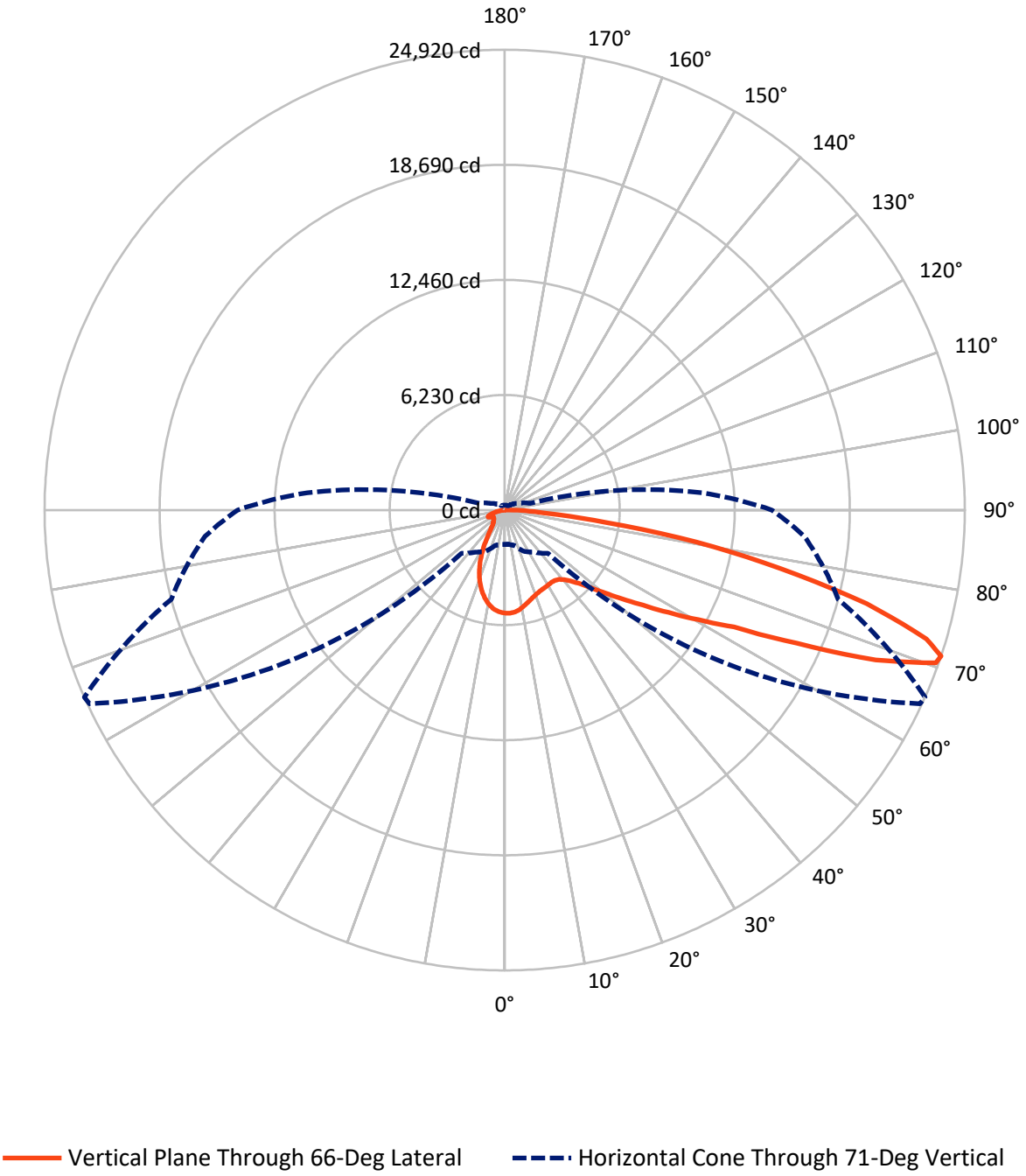
Luminous Intensity Polar Plot



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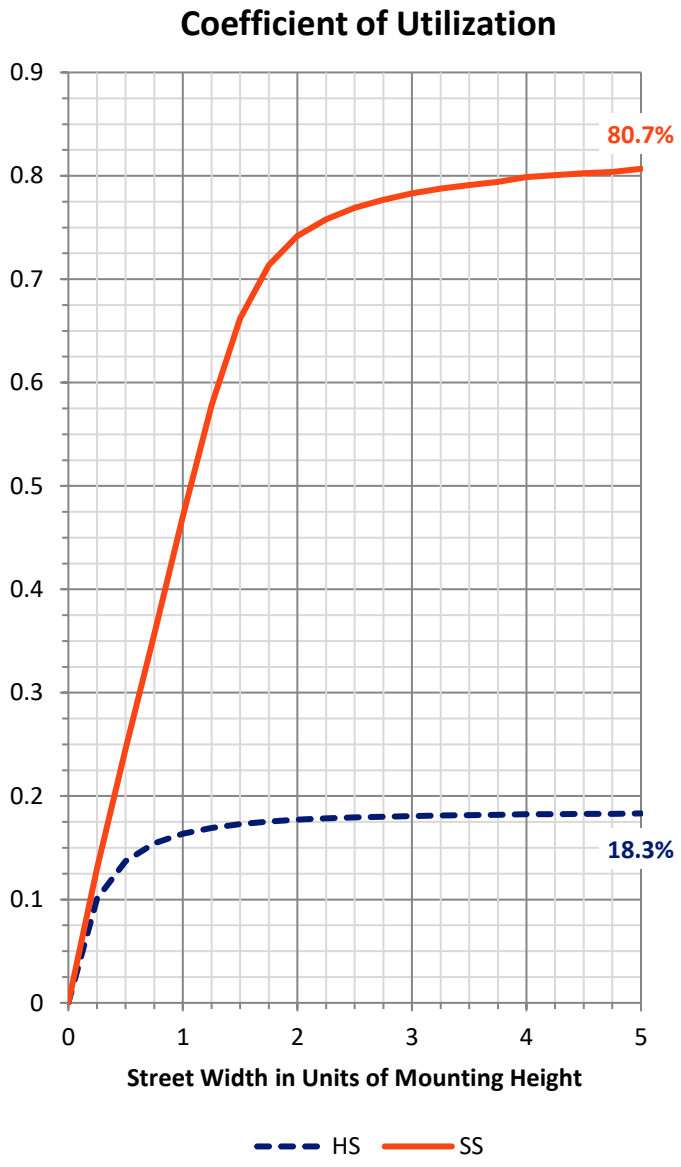
CATALOG NUMBER: GLEON-SA4D-830-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4515.5	0.0	4515.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	19849.5	0.0	19849.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	24365.0	0.0	24365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.3	2.0
10°-20°	1178.4	4.8
20°-30°	1582.9	6.5
30°-40°	2082.2	8.5
40°-50°	3029.1	12.4
50°-60°	4731.7	19.4
60°-70°	5927.3	24.3
70°-80°	4521.2	18.6
80°-90°	821.0	3.4
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°	24365.0	100.0
0°-180°	24365.0	100.0



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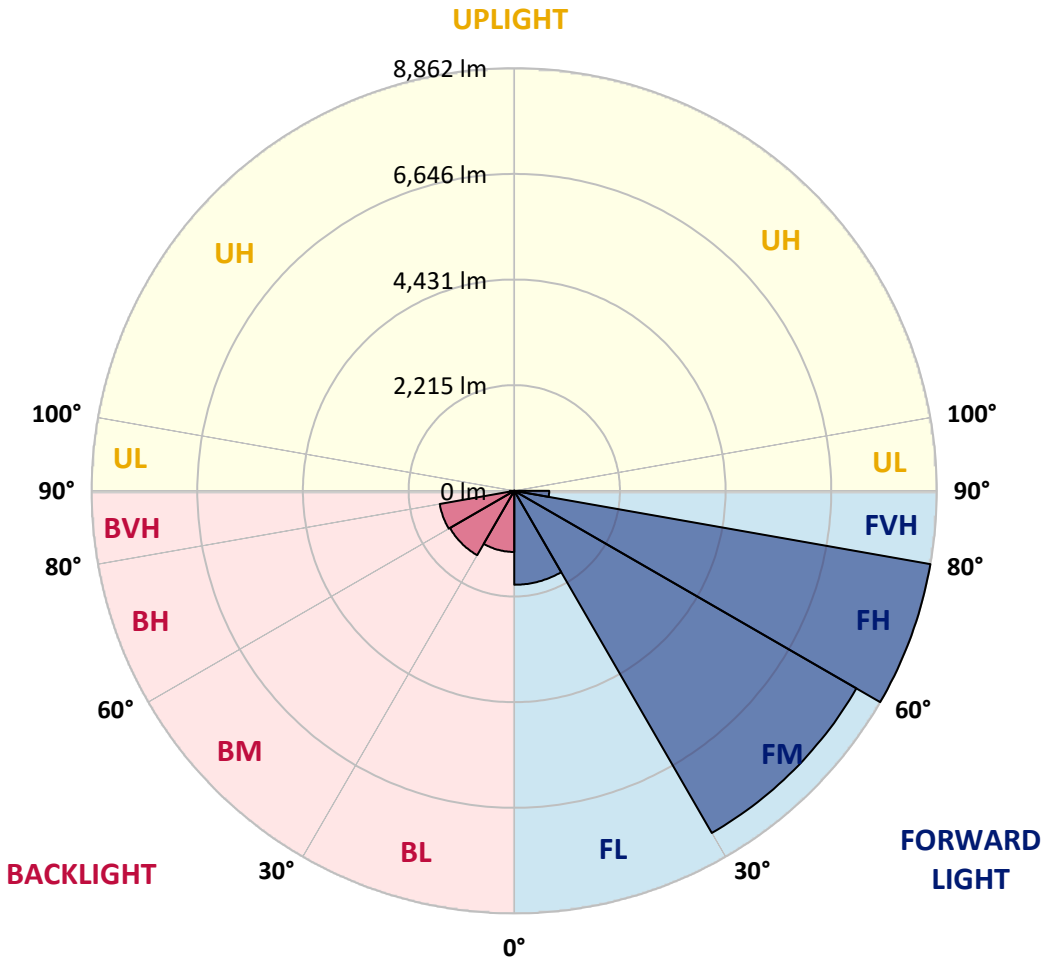
REPORT NUMBER: P319538
CATALOG NUMBER: GLEON-SA4D-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1970.2	8.1			
FM	(30°-60°)	8285.3	34.0			
FH	(60°-80°)	8861.8	36.4			G4/12000
FVH	(80°-90°)	732.1	3.0			G4/750
BL	(0°-30°)	1282.3	5.3	B3/2500		
BM	(30°-60°)	1557.7	6.4	B2/2500		
BH	(60°-80°)	1586.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	88.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
Type III Medium



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REPORT NUMBER: P319538
CATALOG NUMBER: GLEON-SA4D-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	*5581.5*	5581.5	5581.5
2.5°	5478.1	5469.7	5494.9	5521.0	5531.1	5547.9	5573.1	5587.4	*5586.6*	5589.1	5580.7
5°	5114.7	5103.7	5154.2	5195.4	5274.5	5363.7	5472.2	5549.6	*5551.3*	5595.0	5606.8
7.5°	4770.6	4763.0	4821.1	4887.5	4979.2	5115.5	5291.3	5457.9	*5468.0*	5586.6	5627.8
10°	4494.7	4493.0	4549.4	4621.7	4728.5	4880.8	5082.7	5326.7	*5341.8*	5546.2	5631.2
12.5°	4279.3	4282.7	4331.5	4413.9	4526.6	4685.6	4904.4	5179.4	*5203.8*	5482.3	5611.8
15°	4120.3	4133.8	4173.3	4256.6	4367.7	4529.2	4753.8	5043.2	*5080.2*	5410.8	5600.9
17.5°	4029.5	4044.6	4072.4	4141.4	4245.7	4401.3	4614.1	4931.3	*4964.9*	5356.1	5601.7
20°	4002.6	4015.2	4031.2	4073.2	4161.6	4302.9	4503.9	4830.3	*4866.5*	5312.4	5610.2
22.5°	4055.6	4064.8	4066.5	4063.1	4117.0	4232.2	4424.0	4756.3	*4795.0*	5283.8	5616.0
25°	4169.1	4181.7	4172.5	4141.4	4123.7	4194.4	4382.8	4707.5	*4746.2*	5262.7	5604.3
27.5°	4339.9	4341.6	4334.0	4293.6	4210.3	4198.6	4370.2	4678.9	*4715.9*	5238.3	5579.9
30°	4572.1	4583.0	4569.6	4514.9	4378.6	4265.9	4385.3	4651.2	*4684.8*	5207.2	5540.3
32.5°	4843.8	4870.7	4869.9	4812.7	4617.5	4416.4	4447.6	4634.3	*4660.4*	5174.4	5492.4
35°	5125.6	5162.6	5231.6	5207.2	4965.8	4654.5	4567.0	4661.2	*4678.9*	5170.2	5458.7
37.5°	5418.4	5455.4	5597.5	5663.1	5380.5	4995.2	4755.5	4756.3	*4764.7*	5221.5	5456.2
40°	5724.6	5764.1	5977.8	6148.5	5918.0	5426.8	5059.1	4954.8	*4945.6*	5347.7	5505.8
42.5°	6153.6	6188.9	6445.5	6663.4	6514.5	5979.5	5478.9	5261.0	*5241.7*	5595.0	5664.8
45°	6696.2	6726.5	6999.0	7232.0	7155.5	6610.4	6006.4	5682.5	*5679.1*	6007.2	5987.0
47.5°	7341.4	7365.0	7609.8	7835.2	7863.0	7336.4	6669.3	6332.8	*6278.1*	6572.5	6485.9
50°	8013.5	8039.6	8206.2	8448.5	8654.6	8308.0	7522.3	7129.4	*7056.2*	7318.7	7192.5
52.5°	8458.6	8493.0	8637.7	8944.8	9544.6	9373.0	8530.9	8095.1	*7984.1*	8223.0	8126.3
55°	8260.0	8337.4	8558.7	9050.8	10256.3	10999.9	9775.1	9221.5	*9096.2*	9294.7	9237.5
57.5°	7357.4	7463.4	7765.4	8525.0	10356.4	12433.4	11656.1	10548.2	*10459.8*	10402.6	10428.7
60°	5707.7	5809.5	6183.9	7174.0	9659.0	13479.8	14486.8	12183.5	*12055.6*	11514.7	11538.3
62.5°	4039.6	3988.3	4244.8	4969.1	7848.7	13602.7	17707.9	14370.7	*13950.1*	12689.1	12585.6
65°	3080.6	3068.8	3184.0	3414.5	4753.8	12133.0	19626.7	18046.9	*17389.9*	14070.4	13826.4
67.5°	2531.3	2510.2	2623.8	2959.4	3061.2	7827.6	19668.8	22311.9	*21666.7*	15789.9	15261.6
70°	2081.2	2057.6	2163.6	2596.9	2829.1	3969.8	16553.7	24809.5	*24775.0*	17967.0	16345.1
71°	*1865.8*	*1849.0*	*1976.0*	*2457.2*	*2779.4*	*3308.6*	*14292.5*	*24816.2*	*24919.7*	*18703.9*	*16281.1*
72.5°	1519.3	1525.1	1659.7	2187.2	2742.4	2921.6	10504.4	23659.5	*23878.3*	19406.3	15699.8
75°	1009.5	1014.5	1191.2	1682.5	2659.1	2858.5	5773.3	19853.0	*20255.1*	18985.7	14326.1
77.5°	678.0	676.3	796.6	1154.2	2316.7	2858.5	3385.1	14848.5	*15290.2*	15106.8	11044.5
80°	466.9	463.5	548.5	796.6	1754.0	2893.0	2617.1	10406.0	*10539.7*	8158.2	4488.8
82.5°	286.0	288.5	358.4	562.8	1193.7	2603.6	2470.7	5674.1	*5528.6*	2288.1	1121.4
85°	164.0	163.2	228.8	381.1	766.4	2197.3	2409.3	2442.1	*2240.2*	689.0	405.5
87.5°	58.9	63.1	122.8	211.1	439.1	1530.2	2044.2	1270.3	*1144.9*	311.3	183.4
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: P319538
CATALOG NUMBER: GLEON-SA4D-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5	5581.5
2.5°	5574.8	5579.9	5574.0	5540.3	5511.7	5465.5	5439.4	5403.2	5392.3	5387.2	5400.7
5°	5595.9	5597.5	5547.9	5459.6	5360.3	5243.4	5159.3	5055.8	5007.0	4986.0	4999.4
7.5°	5615.2	5607.6	5499.1	5330.0	5146.6	4943.1	4762.2	4596.5	4499.7	4460.2	4463.6
10°	5617.7	5585.8	5411.6	5150.0	4865.7	4567.0	4289.4	4033.7	3872.2	3767.0	3799.0
12.5°	5591.6	5537.8	5282.9	4917.0	4522.4	4115.3	3740.1	3356.5	3126.0	3019.2	3022.5
15°	5571.5	5473.9	5124.8	4642.7	4112.8	3573.5	3061.2	2610.3	2364.7	2255.3	2204.0
17.5°	5554.6	5404.9	4941.4	4334.0	3629.1	2945.1	2329.4	1927.3	1792.7	1760.7	1747.2
20°	5531.1	5331.7	4737.0	3976.5	3078.1	2241.9	1701.0	1502.4	1503.3	1540.3	1545.3
22.5°	5498.3	5248.4	4519.1	3575.2	2486.7	1632.8	1333.3	1276.1	1334.2	1404.9	1417.5
25°	5449.5	5150.0	4276.8	3131.9	1896.1	1255.1	1139.0	1136.5	1207.2	1281.2	1292.1
27.5°	5380.5	5021.3	4007.6	2655.8	1397.3	1066.7	1020.4	1038.1	1090.2	1144.1	1148.3
30°	5288.0	4871.6	3710.7	2153.5	1095.3	949.7	944.7	960.7	992.6	1030.5	1033.9
32.5°	5186.2	4719.3	3393.5	1667.3	938.0	886.7	891.7	899.3	914.4	929.6	932.9
35°	5093.6	4563.7	3068.8	1266.9	863.1	845.4	842.1	840.4	842.1	837.0	837.9
37.5°	5033.9	4435.0	2730.6	1008.6	820.2	809.3	799.2	786.5	772.2	763.8	765.5
40°	5012.0	4339.1	2388.2	871.5	784.9	777.3	757.9	731.0	714.2	709.2	709.2
42.5°	5070.9	4289.4	2057.6	802.5	755.4	742.8	710.8	679.7	667.1	666.3	665.4
45°	5250.9	4309.6	1743.0	764.7	728.5	704.1	662.0	636.0	627.6	629.2	628.4
47.5°	5574.0	4436.6	1473.8	739.4	701.6	669.6	622.5	601.5	591.4	591.4	592.2
50°	6123.3	4733.6	1259.3	718.4	678.9	637.7	593.9	567.8	554.4	553.5	553.5
52.5°	6923.3	5265.2	1125.6	700.7	653.6	609.0	565.3	532.5	516.5	513.1	511.5
55°	7926.1	6027.4	1088.5	689.0	620.0	577.9	530.8	498.0	480.3	472.8	471.9
57.5°	9047.4	6954.4	1161.7	674.7	585.5	540.9	493.0	461.8	443.3	434.1	433.2
60°	10182.2	7966.4	1460.4	654.5	556.9	500.5	454.3	425.7	407.2	397.1	395.4
62.5°	11318.7	9033.1	2070.3	652.8	536.7	461.8	414.7	390.3	372.7	361.7	359.2
65°	12600.8	10200.7	2763.4	697.4	530.0	426.5	374.3	355.0	339.9	329.8	328.9
67.5°	14072.9	11518.9	2697.0	789.1	552.7	394.5	336.5	321.3	310.4	302.0	301.2
70°	14763.6	11312.8	1676.6	853.8	584.7	363.4	300.3	289.4	281.0	275.1	272.6
71°	*14474.2*	*10741.6*	*1405.7*	*846.3*	*581.3*	*350.0*	*286.0*	*277.6*	*269.2*	*264.1*	*261.6*
72.5°	13685.1	9796.1	1172.7	787.4	543.4	325.6	267.5	259.1	251.5	245.6	244.0
75°	12280.3	8748.8	938.8	629.2	433.2	275.1	234.7	225.4	219.6	216.2	212.8
77.5°	9027.2	6243.6	726.0	497.2	318.8	224.6	200.2	193.5	187.6	182.5	180.0
80°	3458.3	2418.5	488.8	371.0	233.9	177.5	161.5	158.2	152.3	148.9	148.9
82.5°	931.2	722.6	260.8	224.6	156.5	129.5	123.7	122.0	116.9	110.2	111.0
85°	376.9	318.8	146.4	123.7	95.9	76.6	83.3	84.1	78.2	69.8	70.7
87.5°	165.7	135.4	81.6	54.7	42.1	29.4	37.9	37.9	34.5	28.6	26.1
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

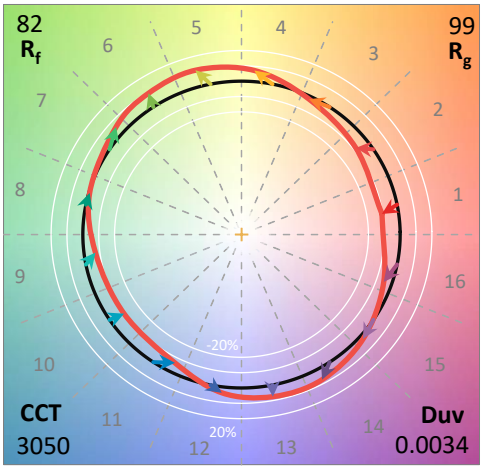
Test Information

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

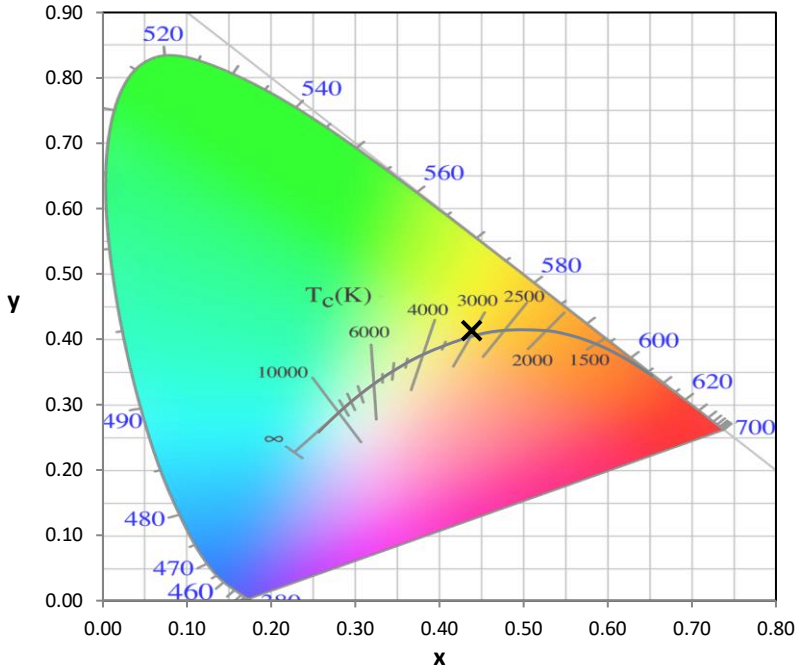
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

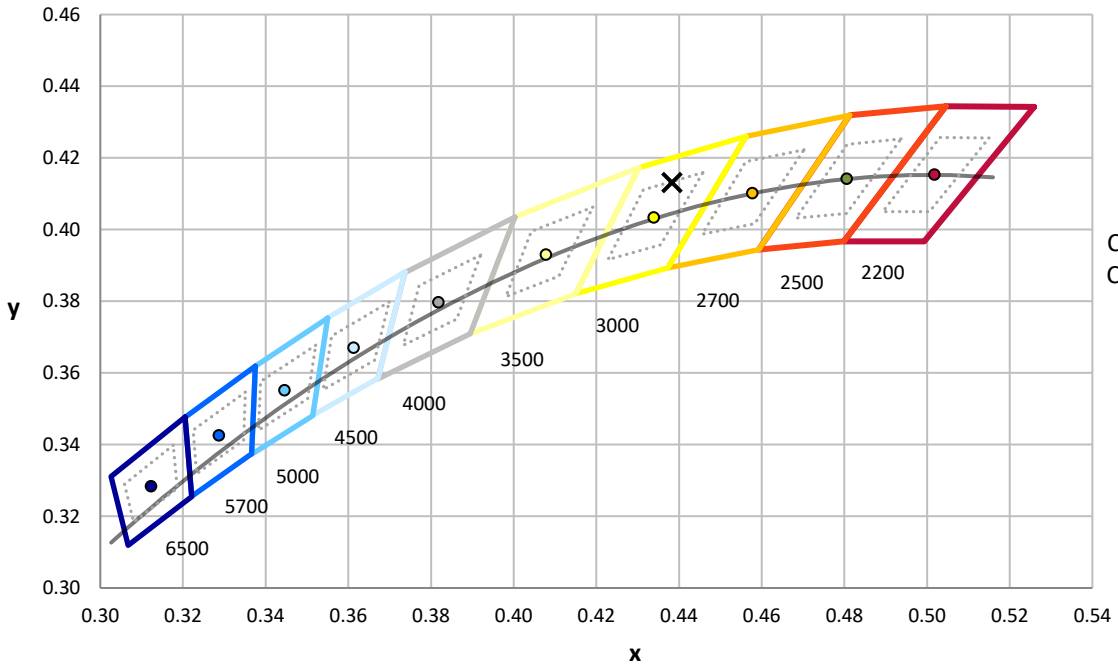
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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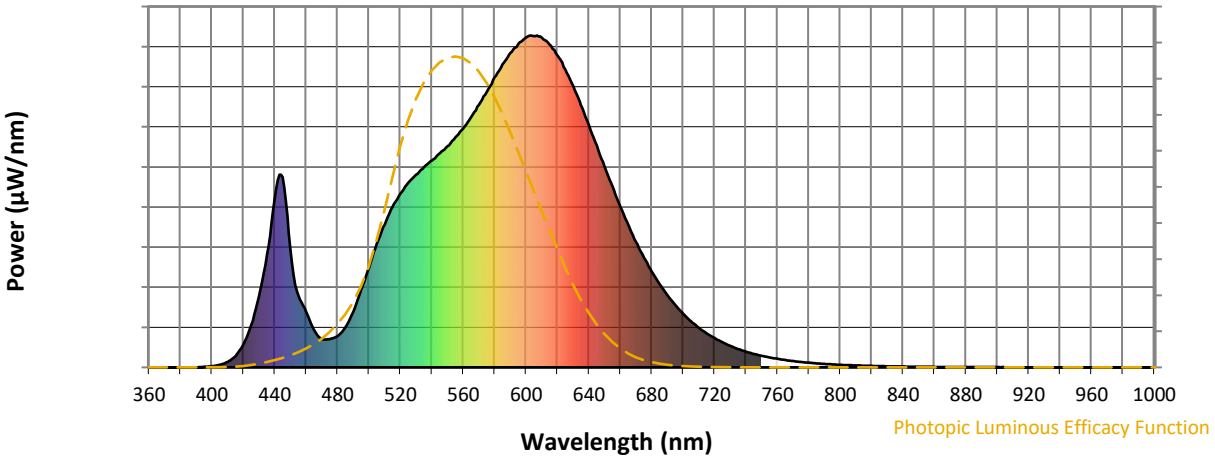
Photopic Flux vs. Wavelength



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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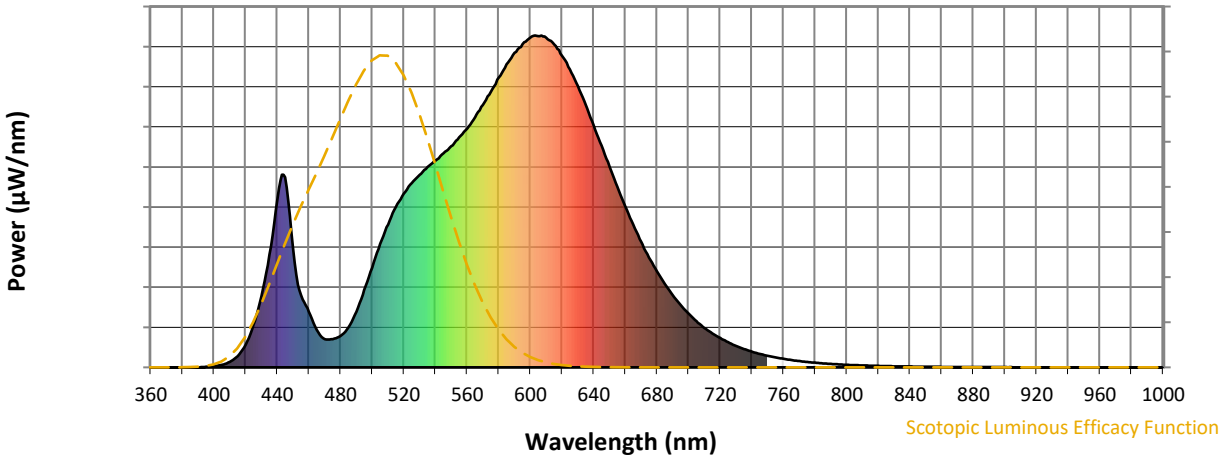
Scotopic Flux vs. Wavelength



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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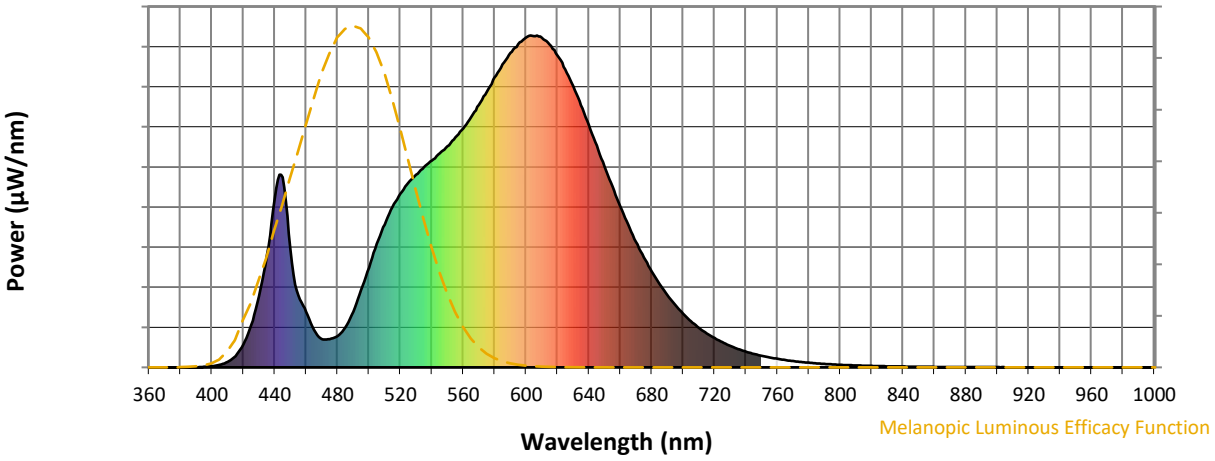
Melanopic Flux vs. Wavelength



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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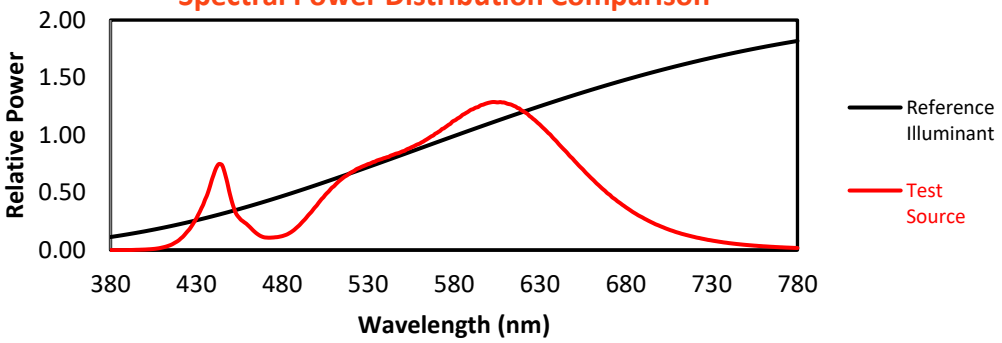
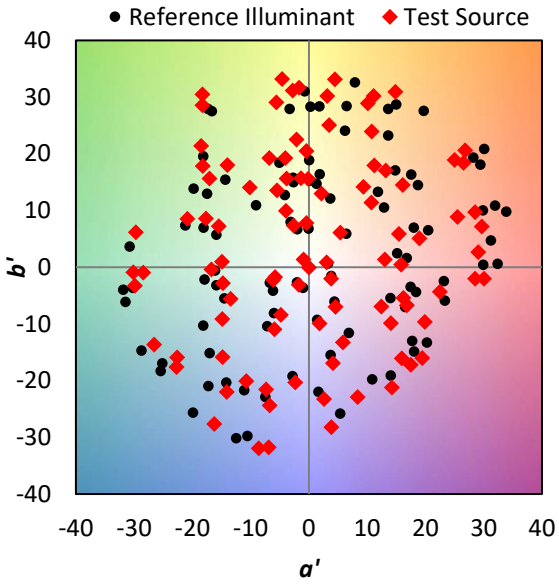
Summary

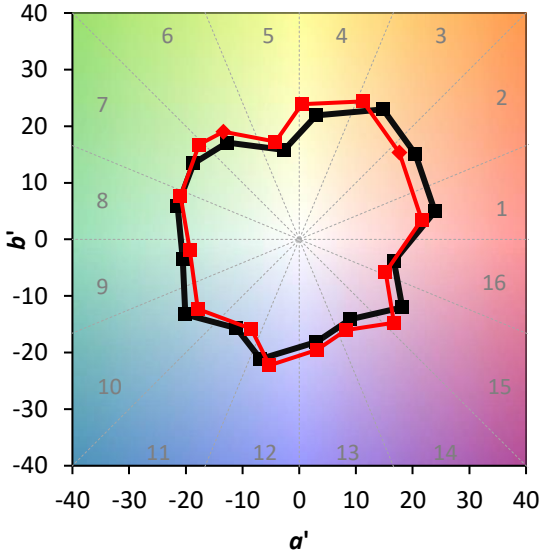
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

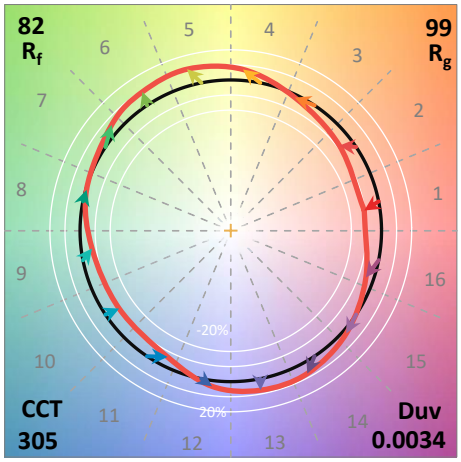
Spectral Power Distribution Comparison

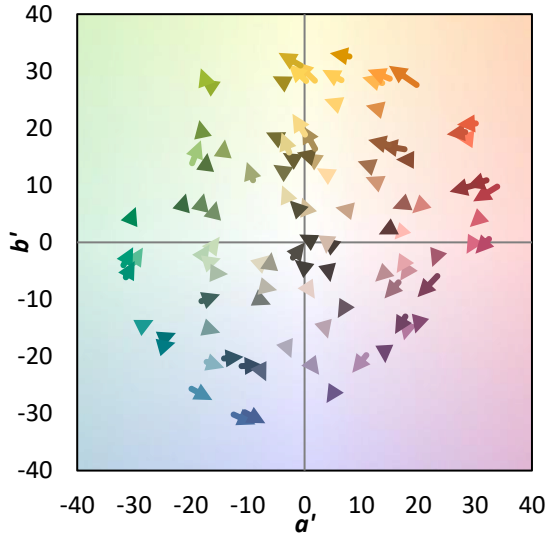


Color Vector Graphics









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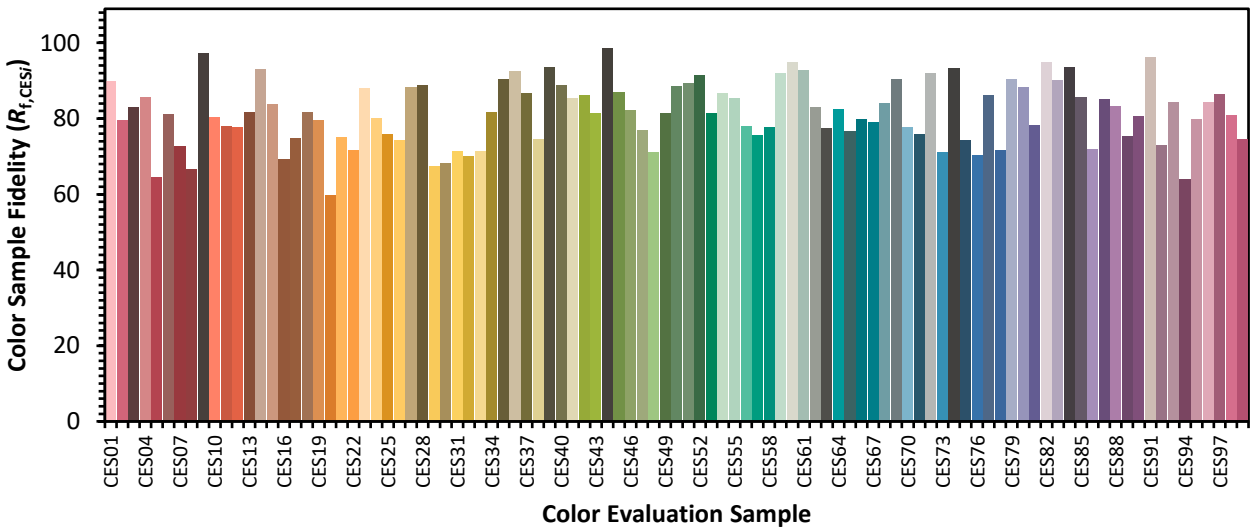
Individual Sample Fidelity Index ($R_{f,i}$)

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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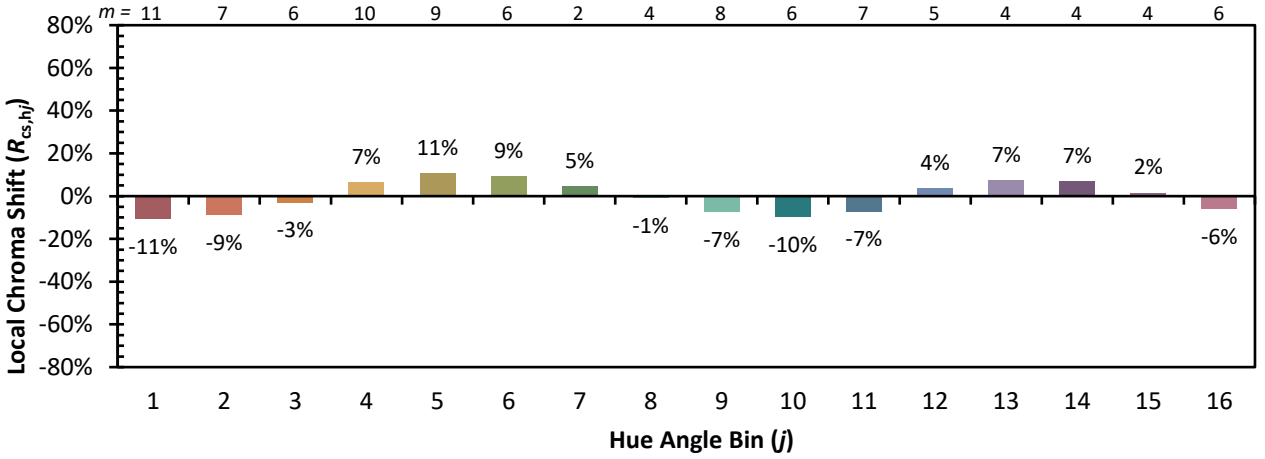
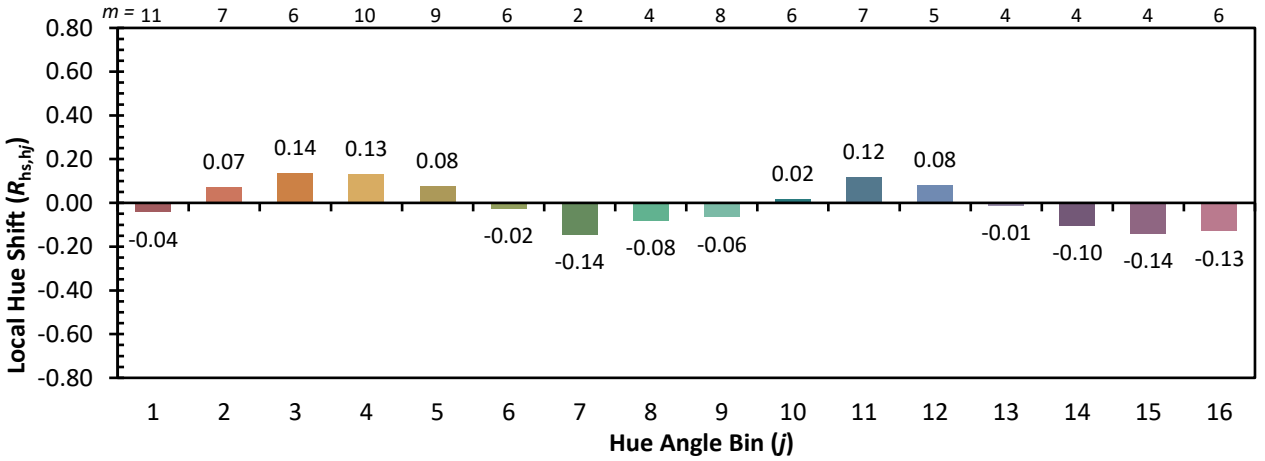
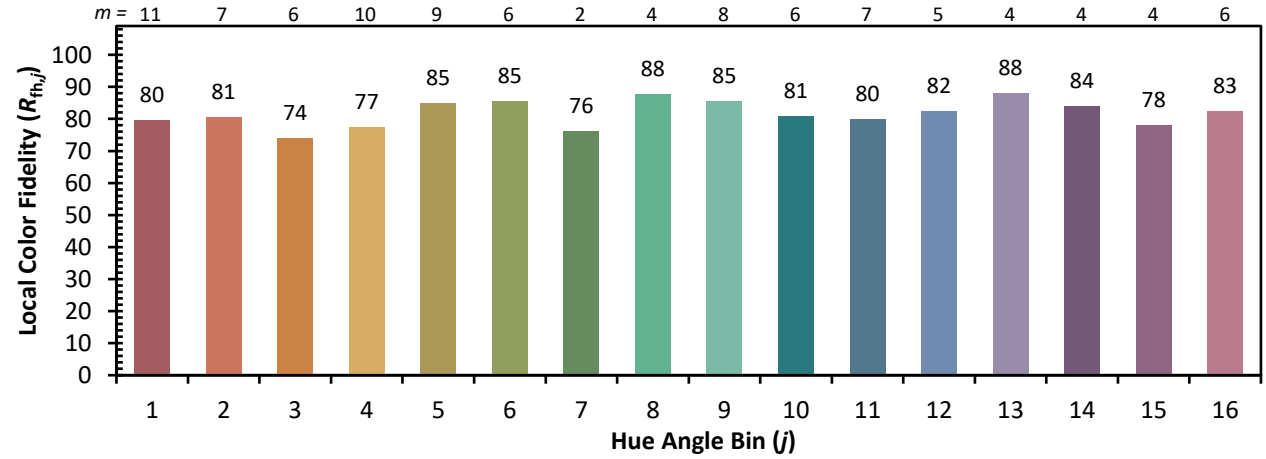
Color Rendition by Hue-Angle Bin







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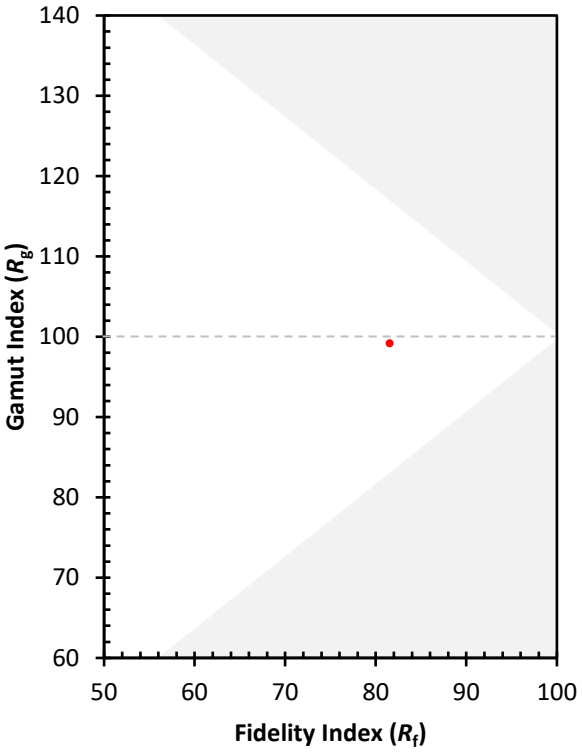
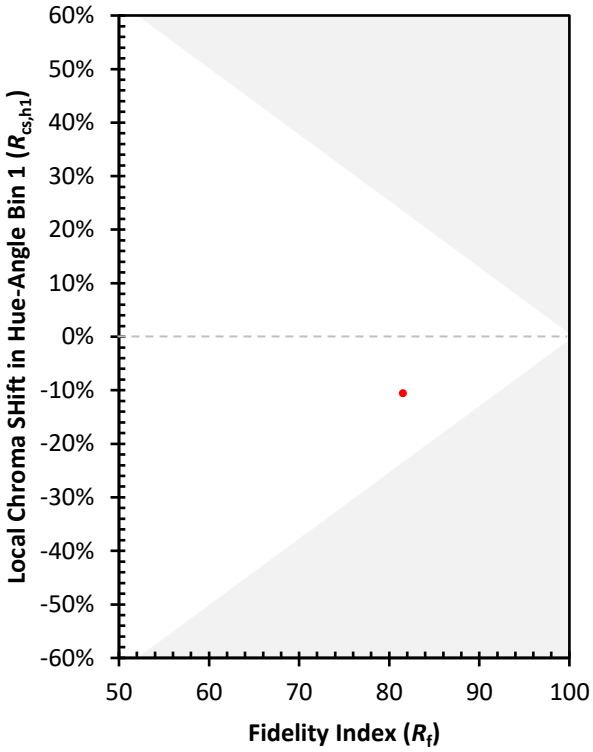
Measure Comparisons





(END OF REPORT)