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: P323698

Luminaire Tested: **GLEON-SA4D-830-U-SL3-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:	P323698
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
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-SL3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
	SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	21248 lumens
Efficiency:	N/A
Efficacy:	82.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - 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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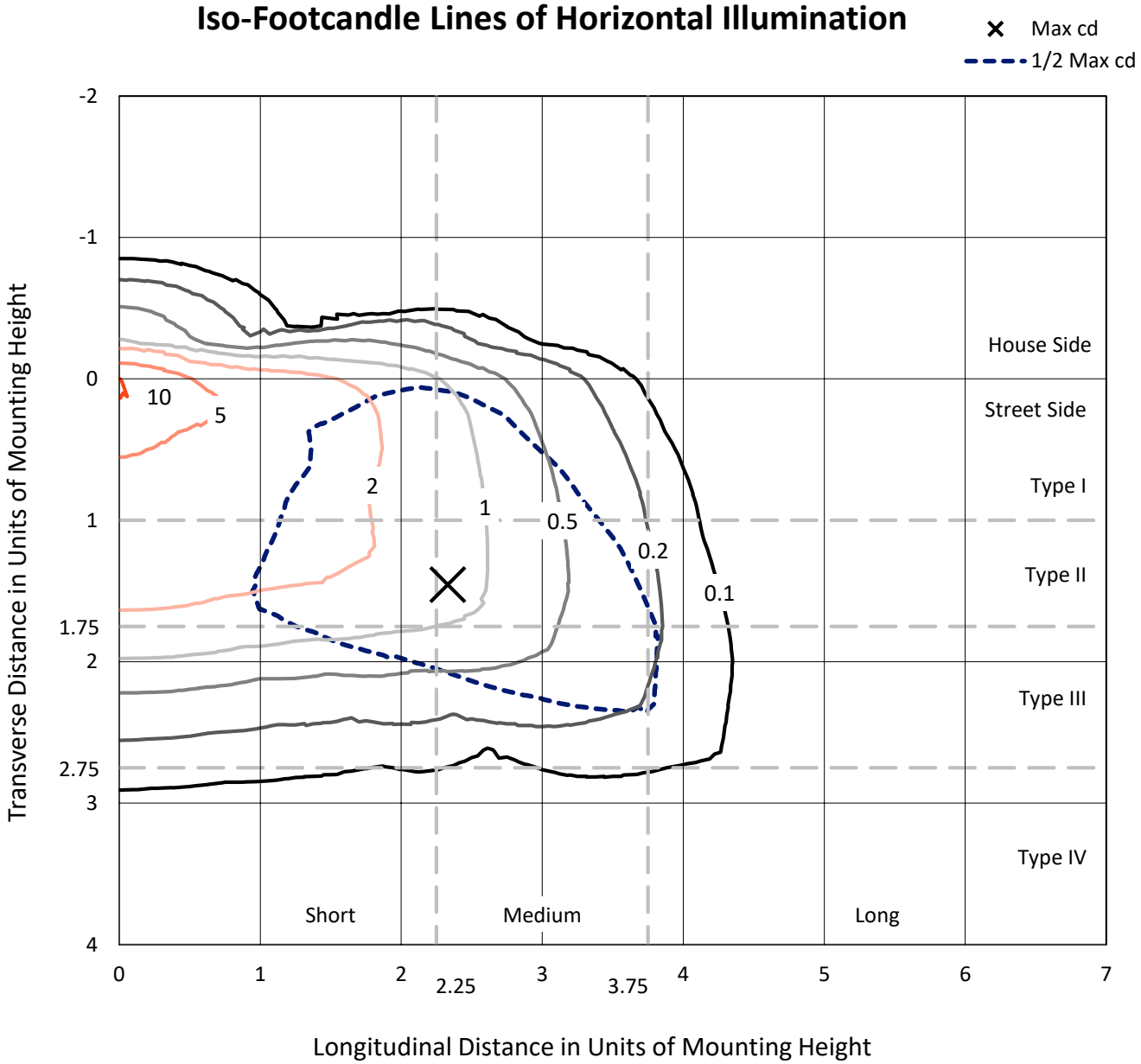
Scaled Data Report

REPORT NUMBER: P323698
CATALOG NUMBER: GLEON-SA4D-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type III - Medium - N/A

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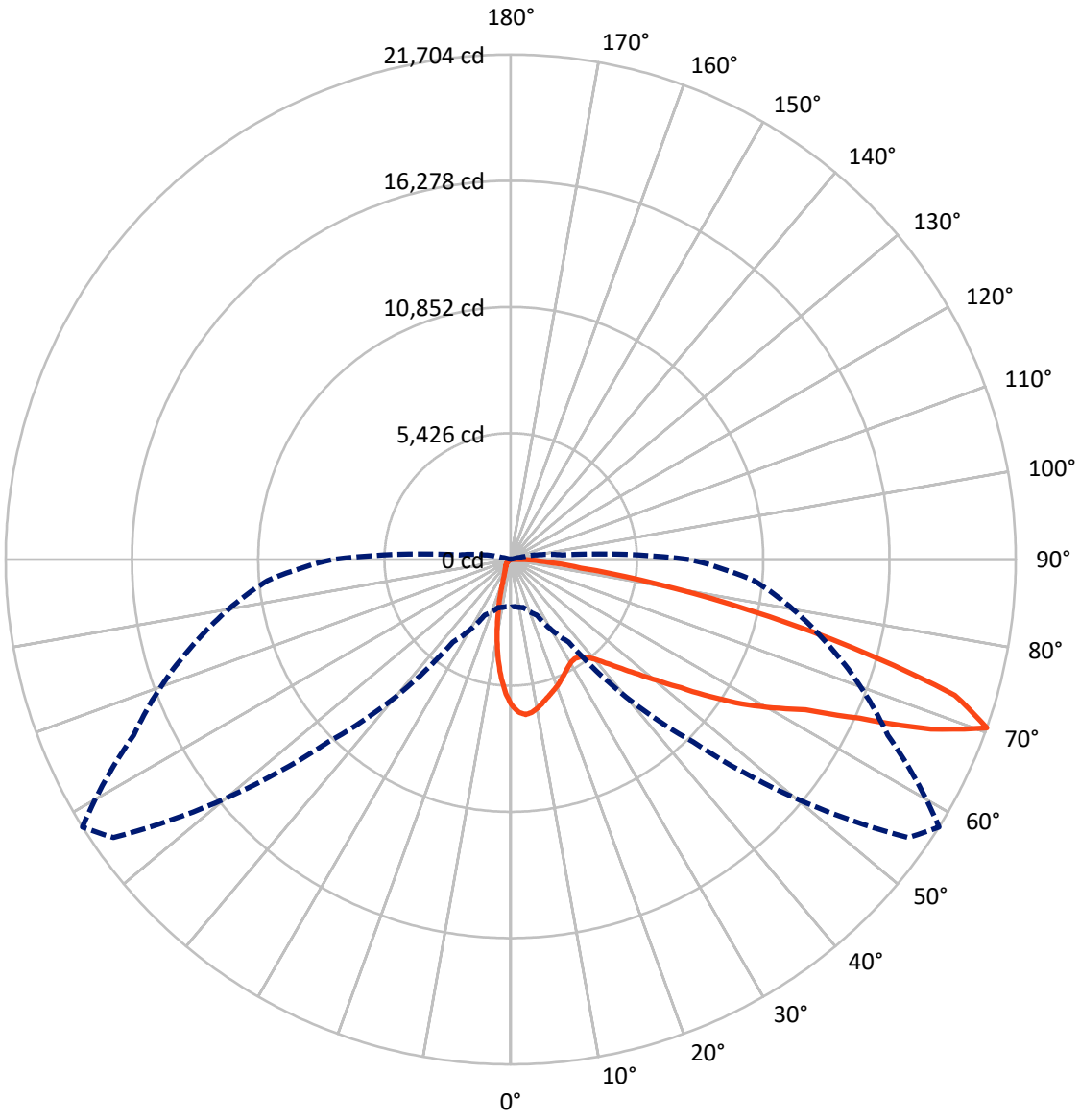
CATALOG NUMBER: GLEON-SA4D-830-U-SL3-HSS

Luminous Intensity Polar Plot



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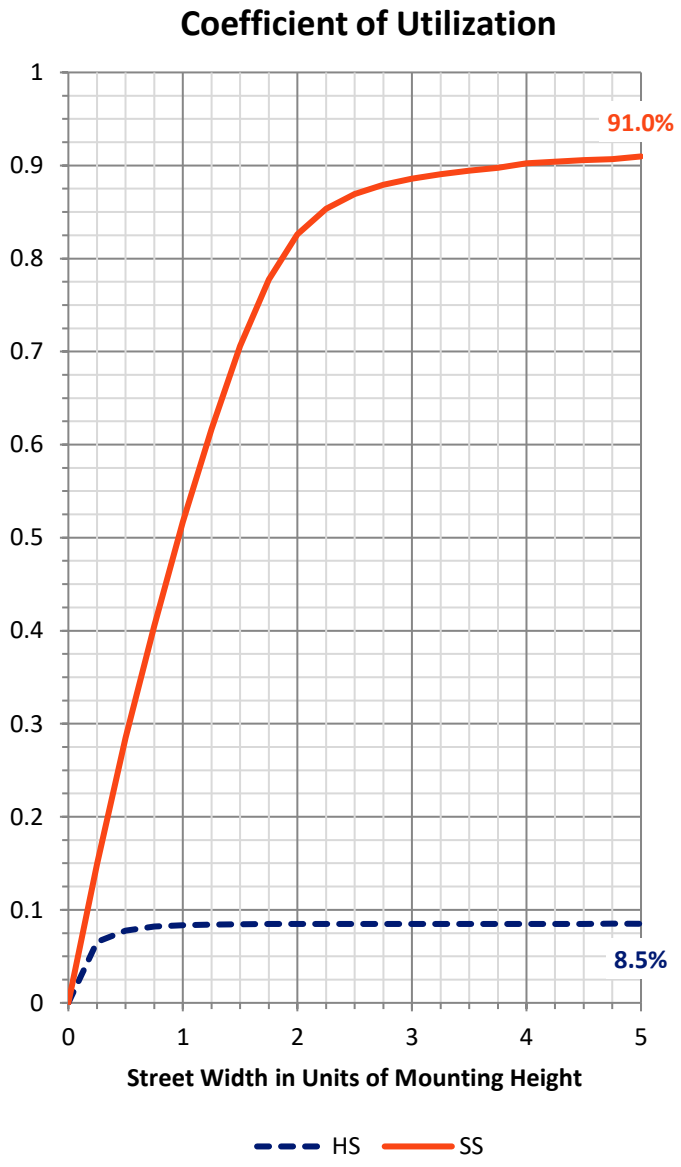
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1818.4	0.0	1818.4
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	19429.7	0.0	19429.7
	% Fixture	91.4	0.0	91.4
Total	Lumens	21248.0	0.0	21248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.3	2.4
10°-20°	1077.2	5.1
20°-30°	1416.2	6.7
30°-40°	1875.6	8.8
40°-50°	2803.4	13.2
50°-60°	4490.9	21.1
60°-70°	5660.7	26.6
70°-80°	3053.4	14.4
80°-90°	357.4	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°	21248.0	100.0
0°-180°	21248.0	100.0



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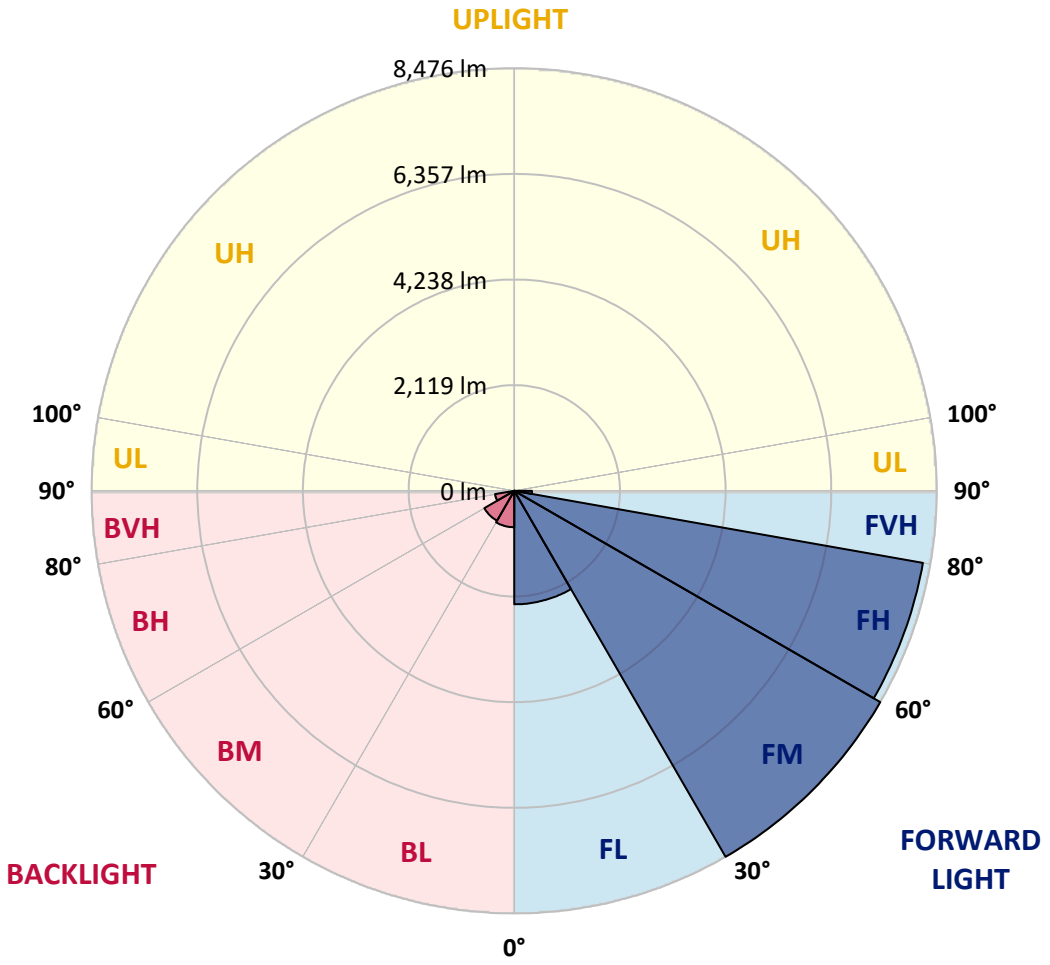
REPORT NUMBER: P323698
CATALOG NUMBER: GLEON-SA4D-830-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2276.1	10.7			
FM	(30°-60°)	8476.2	39.9			
FH	(60°-80°)	8323.1	39.2			G4/12000
FVH	(80°-90°)	354.3	1.7			G3/500
BL	(0°-30°)	730.5	3.4	B2/1000		
BM	(30°-60°)	693.7	3.3	B1/1000		
BH	(60°-80°)	391.1	1.8	B1/500		G1/500
BVH	(80°-90°)	3.1	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-G4
Type III Medium



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Scaled Data Report

REPORT NUMBER: P323698
CATALOG NUMBER: GLEON-SA4D-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6
2.5°	6797.0	6780.2	6774.0	6763.4	6722.7	6683.0	6604.3	6582.3	6532.8	6415.3	6290.7
5°	6802.3	6801.4	6819.9	6815.5	6801.4	6782.8	6726.3	6697.1	6613.2	6445.3	6217.4
7.5°	6474.5	6491.3	6532.8	6566.4	6605.2	6655.6	6662.7	6634.4	6565.5	6384.3	6082.2
10°	6034.5	6061.0	6119.3	6185.6	6287.2	6387.9	6478.0	6474.5	6450.6	6272.1	5919.6
12.5°	5593.6	5624.5	5691.7	5789.7	5933.8	6098.1	6258.9	6281.0	6320.7	6171.4	5769.4
15°	5207.5	5234.0	5300.3	5420.4	5598.9	5819.8	6055.7	6096.3	6198.8	6092.8	5644.0
17.5°	4879.7	4896.5	4945.1	5078.5	5285.2	5553.0	5859.5	5939.1	6091.9	6030.9	5535.3
20°	4650.9	4653.5	4685.3	4779.0	4985.7	5285.2	5656.3	5770.3	5978.8	5977.9	5423.1
22.5°	4537.8	4528.9	4535.1	4589.0	4741.0	5029.9	5453.1	5588.3	5877.2	5932.9	5309.1
25°	4516.6	4509.5	4491.8	4498.9	4590.8	4806.4	5248.1	5404.5	5788.0	5905.5	5210.1
27.5°	4582.8	4589.9	4559.9	4528.1	4535.1	4661.5	5066.1	5247.3	5715.5	5905.5	5140.3
30°	4716.3	4719.8	4697.7	4656.2	4600.5	4620.8	4939.8	5120.9	5679.3	5946.1	5096.2
32.5°	4863.8	4883.2	4880.6	4847.0	4767.5	4685.3	4909.7	5075.0	5676.6	6036.2	5091.8
35°	5046.7	5068.8	5105.9	5098.8	5015.8	4880.6	5012.2	5142.1	5728.8	6184.7	5139.5
37.5°	5241.1	5274.6	5354.2	5392.2	5338.3	5185.4	5242.0	5334.7	5868.4	6425.0	5260.5
40°	5429.3	5467.3	5612.1	5761.5	5720.8	5563.6	5590.1	5664.3	6116.6	6770.4	5490.2
42.5°	5613.9	5670.5	5883.4	6129.0	6177.6	6052.1	6066.3	6125.5	6485.1	7245.8	5865.7
45°	5834.8	5898.4	6213.8	6516.9	6646.8	6592.0	6652.1	6690.9	6966.6	7874.0	6372.0
47.5°	6159.0	6232.4	6619.4	6964.8	7192.8	7228.1	7349.2	7374.8	7575.3	8605.5	7032.0
50°	6791.7	6812.0	7161.9	7475.5	7804.2	8016.2	8154.0	8173.5	8312.2	9405.1	7856.3
52.5°	7587.7	7601.0	7798.9	8009.2	8382.9	8815.8	9138.3	9165.7	9194.8	10184.4	8670.0
55°	8378.5	8376.7	8507.5	8631.2	9058.8	9687.8	10387.6	10404.4	10195.0	10923.9	9292.0
57.5°	8872.4	8920.1	9118.9	9277.9	9875.2	10681.8	11652.8	11714.7	11245.5	11471.7	9907.0
60°	8715.1	8738.1	9178.9	9767.4	10892.1	12094.6	12933.0	12948.9	12035.4	12018.6	10684.5
62.5°	7425.1	7437.5	8130.2	9343.3	11407.2	13927.0	14477.4	14218.6	12943.6	12777.5	11614.8
65°	5089.1	5169.5	5748.2	7247.6	10460.9	15076.5	16868.3	16439.7	14328.1	13871.3	12455.9
67.5°	2996.9	2980.1	3266.4	4370.8	7683.1	14313.1	19892.6	19466.7	16216.2	14603.8	12209.4
70°	2047.1	2035.6	2145.2	2646.2	4337.2	11103.3	20844.1	21703.8	17883.4	14110.8	10507.8
72.5°	1461.3	1467.5	1629.2	2056.0	2723.0	6469.2	17924.9	19959.7	17361.3	12301.3	7987.1
75°	992.2	1009.0	1240.5	1686.6	2387.3	3291.1	12720.1	15172.8	14137.3	8940.4	4590.8
77.5°	533.6	552.2	825.2	1358.9	2158.5	2286.6	8182.3	10442.4	8880.3	4019.2	1330.6
80°	222.6	233.3	386.1	987.8	1865.1	2008.3	4814.3	6332.2	3784.1	792.5	296.9
82.5°	96.3	101.6	160.8	589.3	1394.2	1695.5	2549.0	3046.4	1146.8	174.1	149.3
85°	18.6	19.4	66.3	311.9	889.7	956.9	1652.2	1619.5	515.1	75.1	108.7
87.5°	0.0	0.0	15.9	98.1	261.5	521.3	1008.1	995.7	174.9	36.2	40.6
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: P323698
CATALOG NUMBER: GLEON-SA4D-830-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6
2.5°	6227.1	6166.1	6038.0	5879.9	5758.8	5625.4	5519.4	5385.1	5326.8	5329.4	5297.6
5°	6087.5	5962.0	5678.4	5320.6	5044.9	4760.4	4515.7	4271.8	4127.8	4081.0	4036.8
7.5°	5887.8	5689.0	5236.7	4685.3	4218.8	3762.9	3366.2	3017.2	2796.4	2688.6	2648.8
10°	5662.5	5383.3	4728.6	4002.4	3336.2	2719.5	2205.3	1758.2	1579.7	1458.7	1427.8
12.5°	5464.6	5086.5	4232.1	3301.7	2511.0	1767.0	1276.7	998.4	877.3	829.6	821.7
15°	5278.2	4809.0	3754.1	2667.4	1738.8	1087.6	812.0	717.4	689.1	681.2	681.2
17.5°	5102.4	4544.9	3286.7	2042.7	1150.3	762.5	672.4	651.2	642.3	641.4	642.3
20°	4918.6	4280.7	2827.3	1496.7	803.1	645.9	621.1	609.6	607.0	607.0	607.0
22.5°	4742.8	4016.5	2380.2	1069.1	644.1	589.3	576.9	569.0	566.3	565.5	563.7
25°	4574.0	3765.6	1943.8	755.4	565.5	539.8	529.2	518.6	510.7	506.3	503.6
27.5°	4435.3	3542.1	1537.3	606.1	510.7	488.6	475.3	459.4	440.0	431.2	427.6
30°	4324.9	3338.0	1184.8	511.6	459.4	437.3	417.0	389.6	361.4	346.3	345.5
32.5°	4238.3	3137.4	899.4	452.4	413.5	386.1	356.9	322.5	289.8	273.0	272.1
35°	4195.9	2960.7	687.4	409.1	372.8	338.4	302.2	264.2	232.4	216.5	214.7
37.5°	4224.1	2811.4	536.3	372.8	338.4	298.6	256.2	216.5	188.2	174.1	173.2
40°	4327.5	2716.0	435.6	341.9	309.2	260.6	214.7	177.6	153.7	142.2	141.4
42.5°	4547.5	2680.6	372.0	316.3	281.0	225.3	178.5	146.7	124.6	116.6	114.9
45°	4915.0	2732.7	328.7	291.6	251.8	191.7	147.5	120.2	100.7	94.5	93.7
47.5°	5404.5	2869.7	297.7	267.7	225.3	161.7	122.8	97.2	82.2	76.0	75.1
50°	6035.4	3087.0	272.1	243.9	200.6	136.9	101.6	76.9	63.6	59.2	59.2
52.5°	6721.9	3345.9	249.2	221.8	175.8	114.0	82.2	59.2	50.4	45.1	45.1
55°	7289.1	3572.1	224.4	205.0	145.8	94.5	62.7	45.1	37.1	34.5	34.5
57.5°	7855.4	3813.3	196.1	175.8	116.6	76.9	47.7	33.6	27.4	25.6	25.6
60°	8589.6	4108.4	168.8	143.1	91.9	58.3	35.3	23.9	20.3	19.4	19.4
62.5°	9397.2	4281.6	144.0	114.9	71.6	43.3	25.6	15.9	15.0	15.0	14.1
65°	9891.1	4036.8	121.0	91.9	55.7	32.7	16.8	11.5	13.3	12.4	10.6
67.5°	9261.1	3160.4	99.0	71.6	43.3	24.7	10.6	8.0	14.1	11.5	8.8
70°	*7668.1*	*2212.3*	*76.9*	*50.4*	*34.5*	*21.2*	*7.1*	*5.3*	*15.0*	*11.5*	*7.1*
72.5°	5738.5	1480.8	61.0	33.6	25.6	18.6	6.2	2.7	13.3	9.7	6.2
75°	3135.6	596.4	48.6	21.2	15.9	13.3	4.4	1.8	8.8	7.1	4.4
77.5°	825.2	157.3	35.3	14.1	8.8	5.3	2.7	0.9	4.4	3.5	1.8
80°	210.3	61.0	23.0	9.7	6.2	2.7	0.0	0.0	0.9	0.0	0.0
82.5°	112.2	25.6	14.1	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	84.8	16.8	8.0	4.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	32.7	5.3	2.7	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

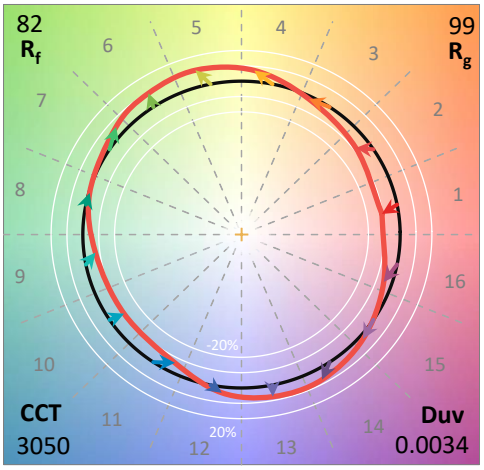
Test Information

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

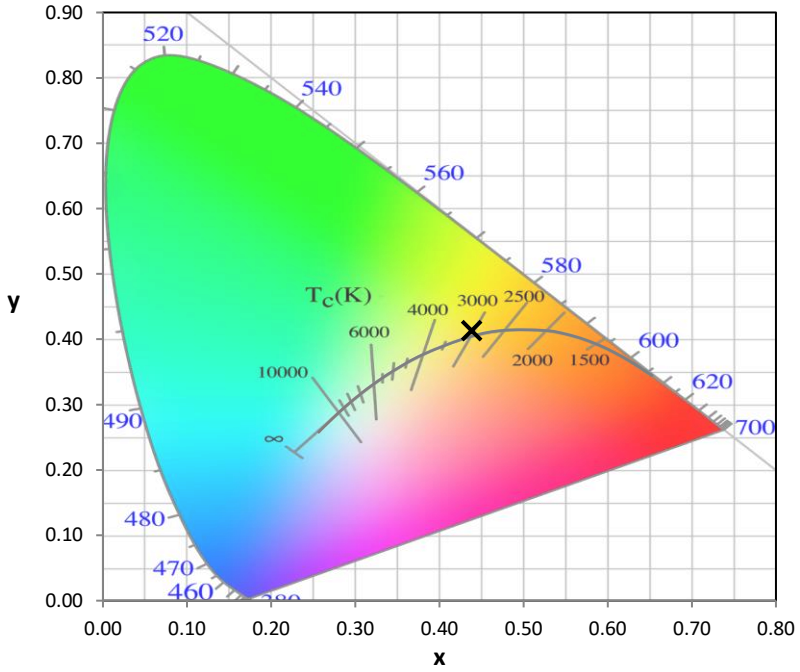
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

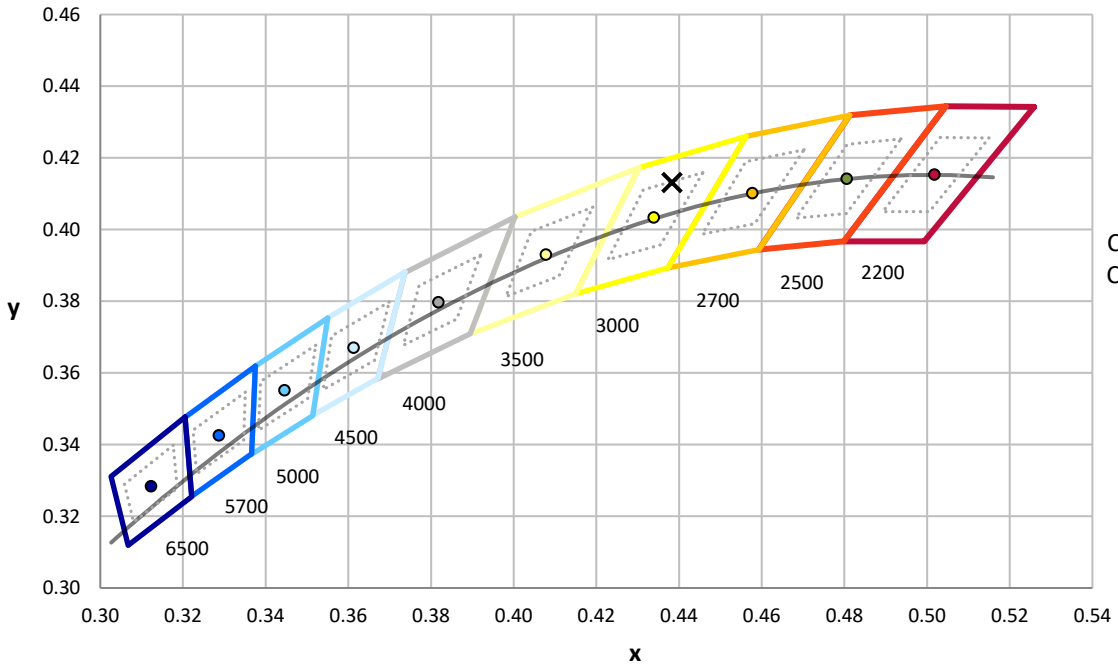
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

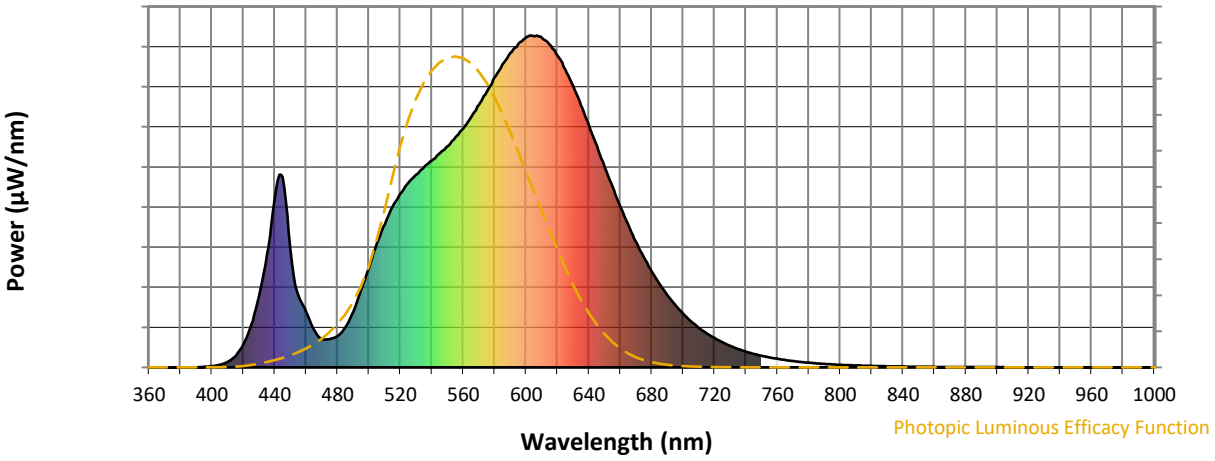


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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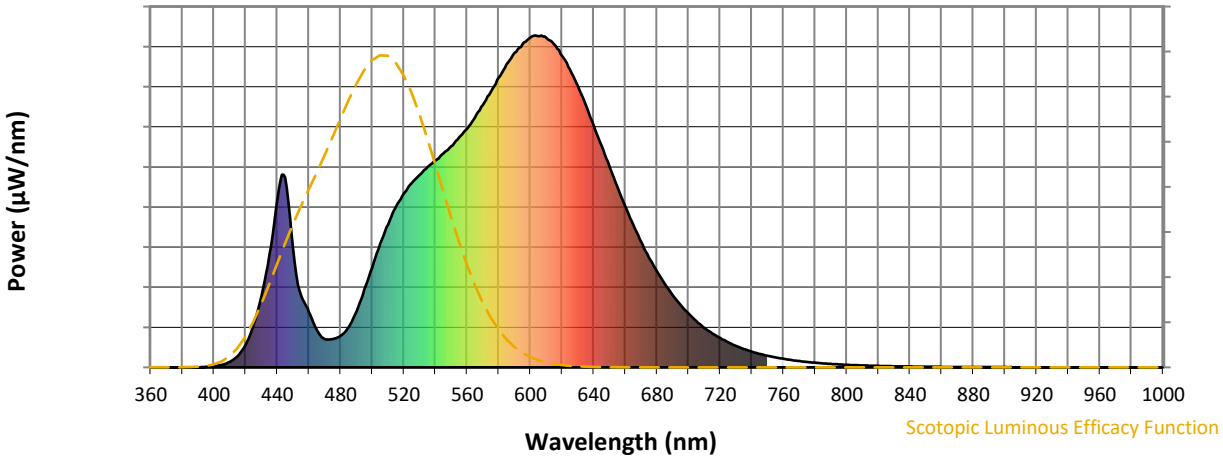
Scotopic Flux vs. Wavelength



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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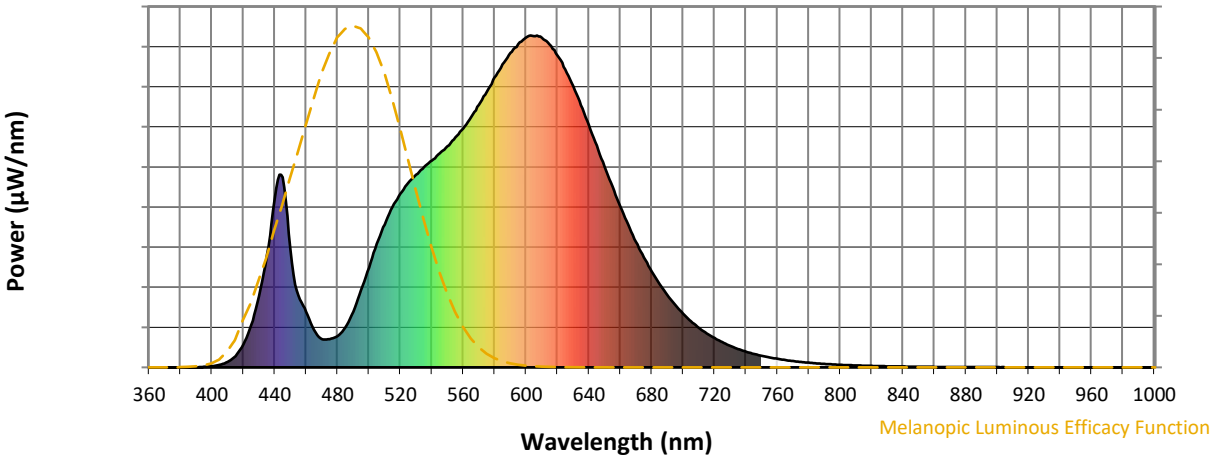
Melanopic Flux vs. Wavelength



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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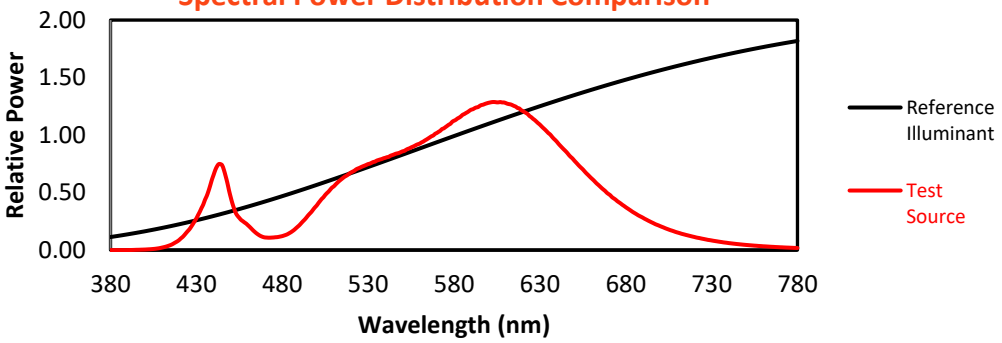
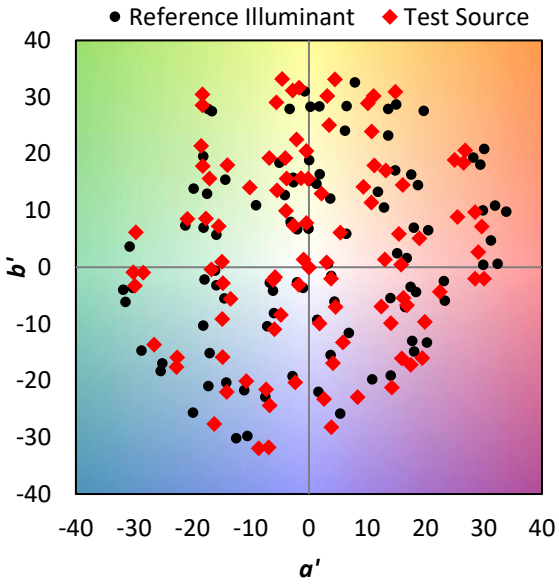
Summary

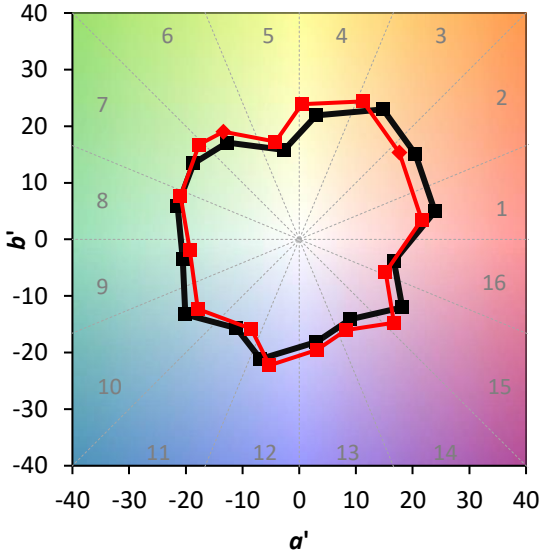
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

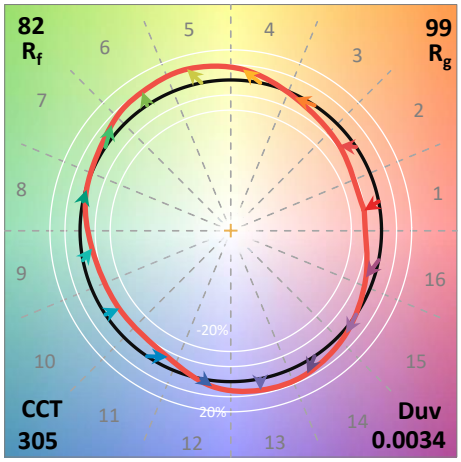
Spectral Power Distribution Comparison

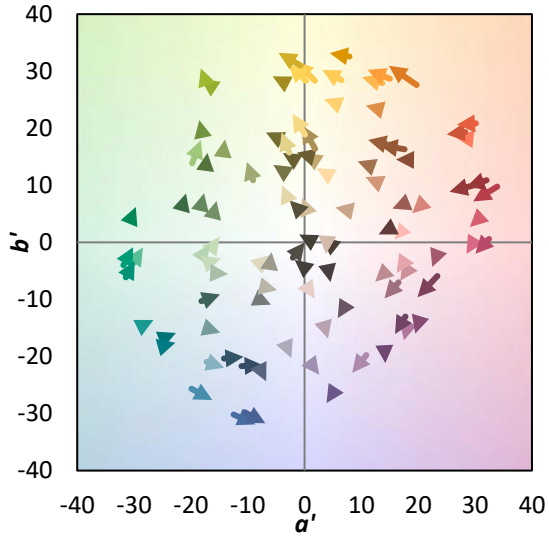


Color Vector Graphics









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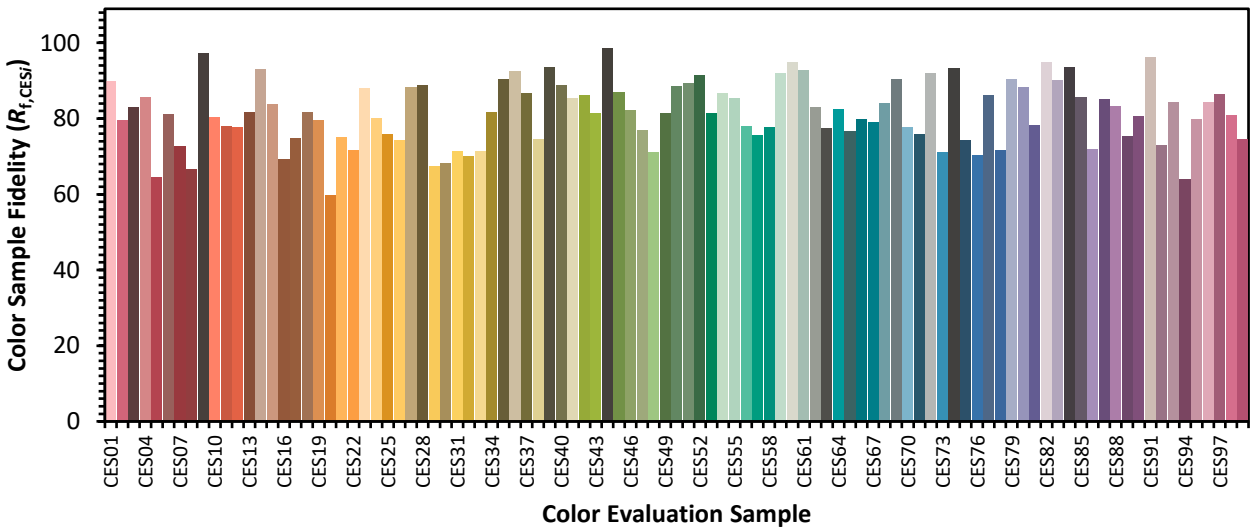
Individual Sample Fidelity Index ($R_{f,i}$)

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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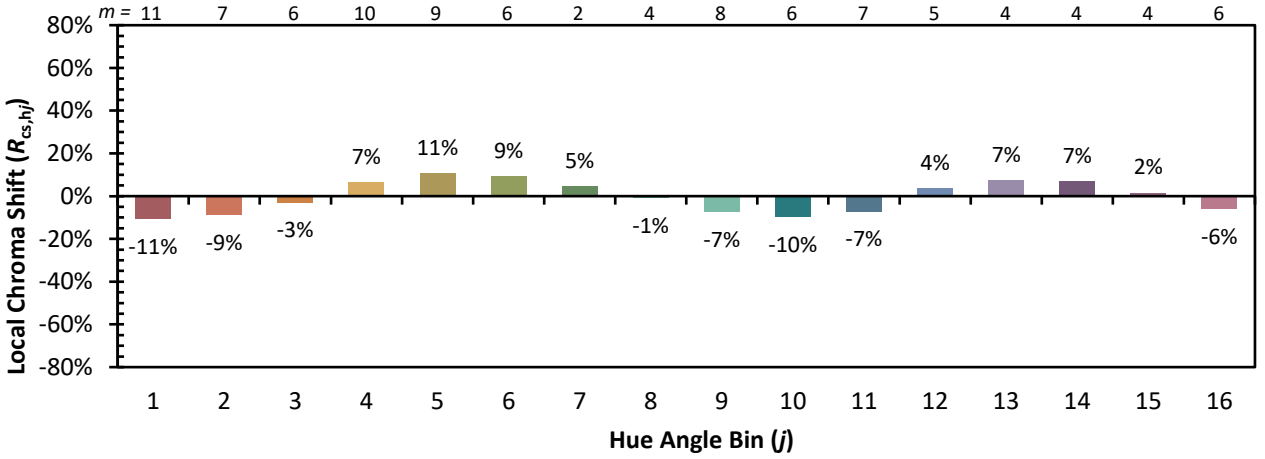
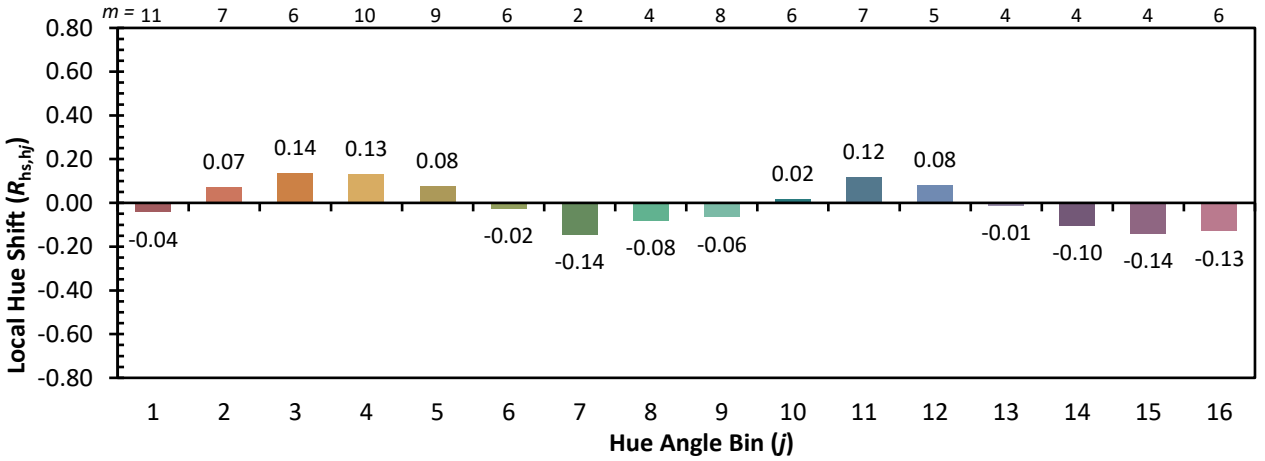
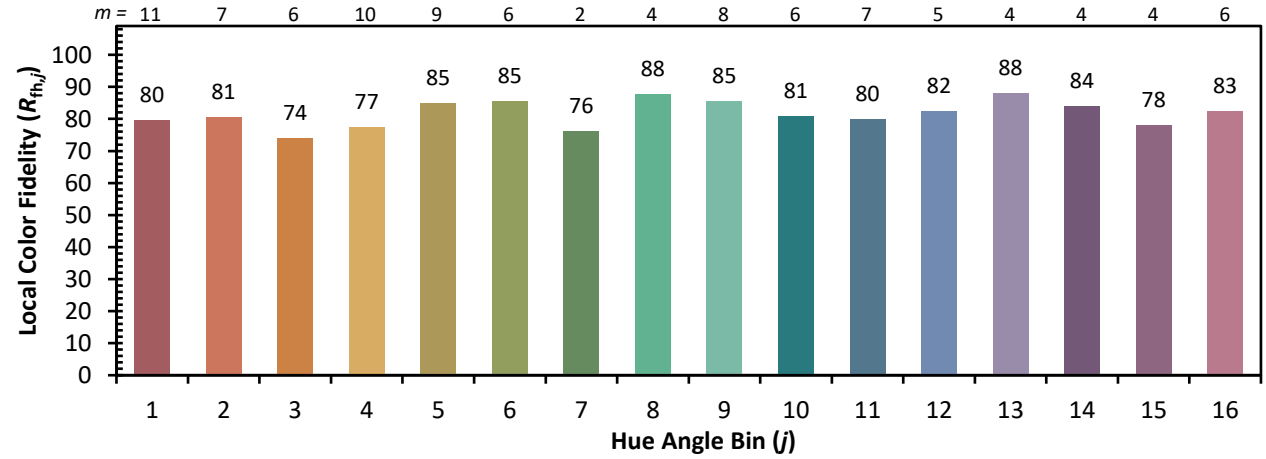
Color Rendition by Hue-Angle Bin







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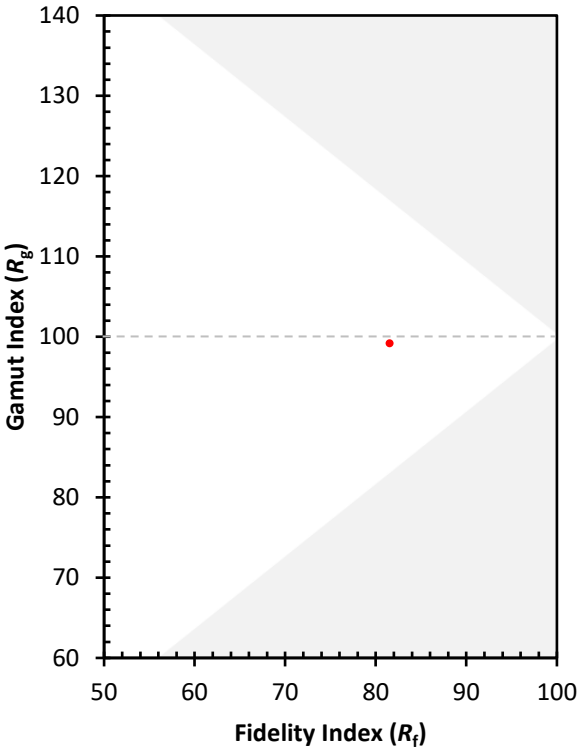
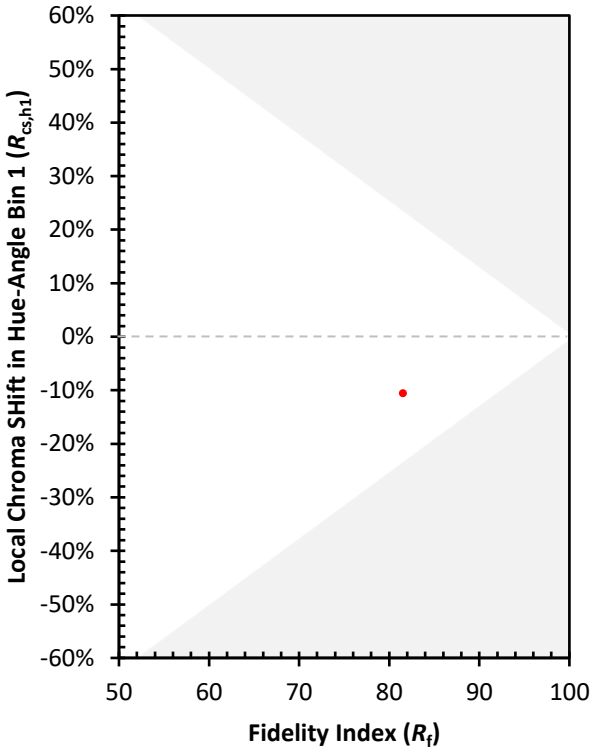
Measure Comparisons





(END OF REPORT)