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: P323703

Luminaire Tested: **GLEON-SA9D-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:	P323703
	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-SA9D-830-U-SL3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(9) 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:	47091 lumens
Efficiency:	N/A
Efficacy:	81.9 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B3 - U0 - G5

Input Watts (W):	575
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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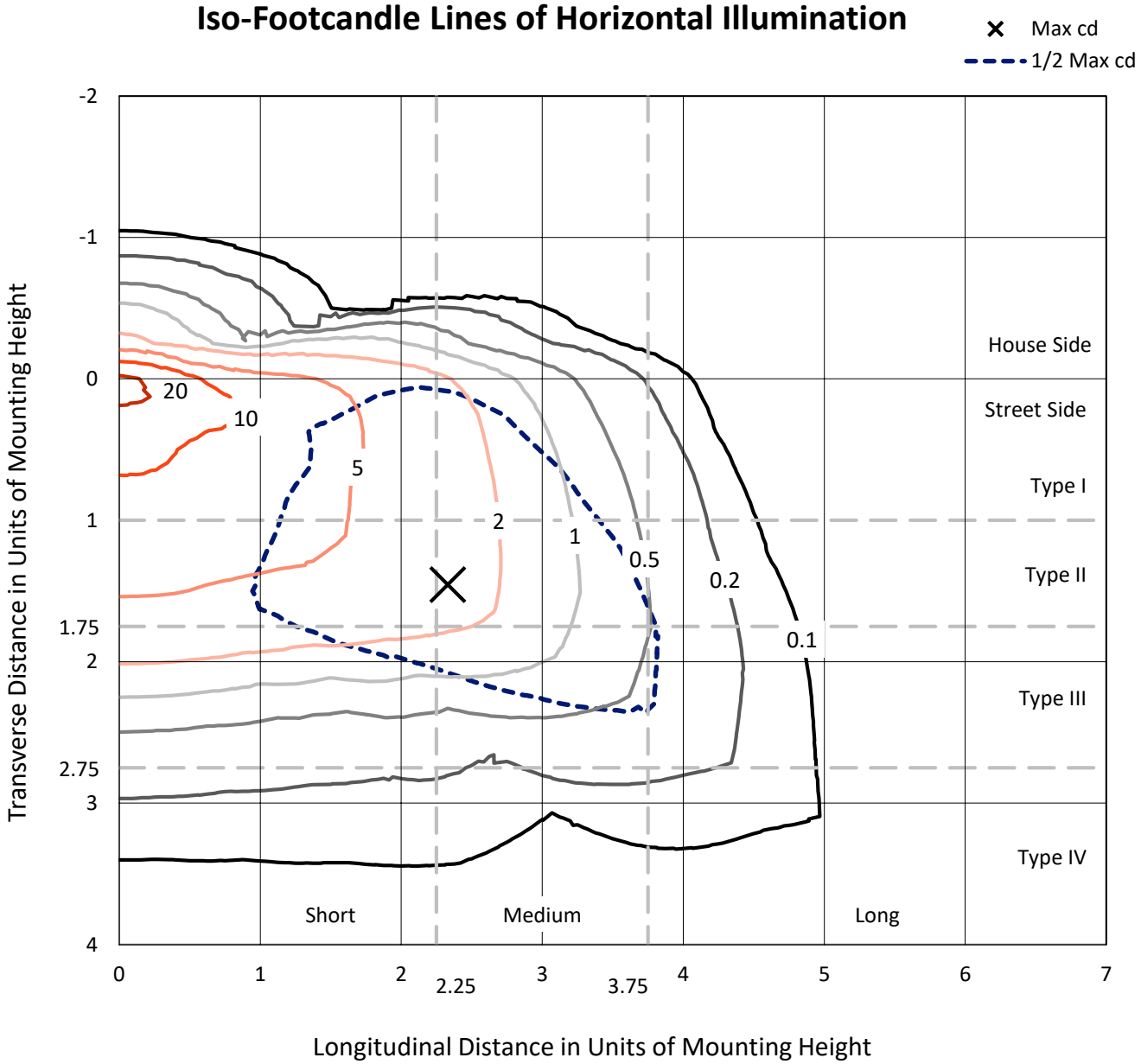
Scaled Data Report

REPORT NUMBER: P323703
CATALOG NUMBER: GLEON-SA9D-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 22.6 fc
Type III - Medium - N/A

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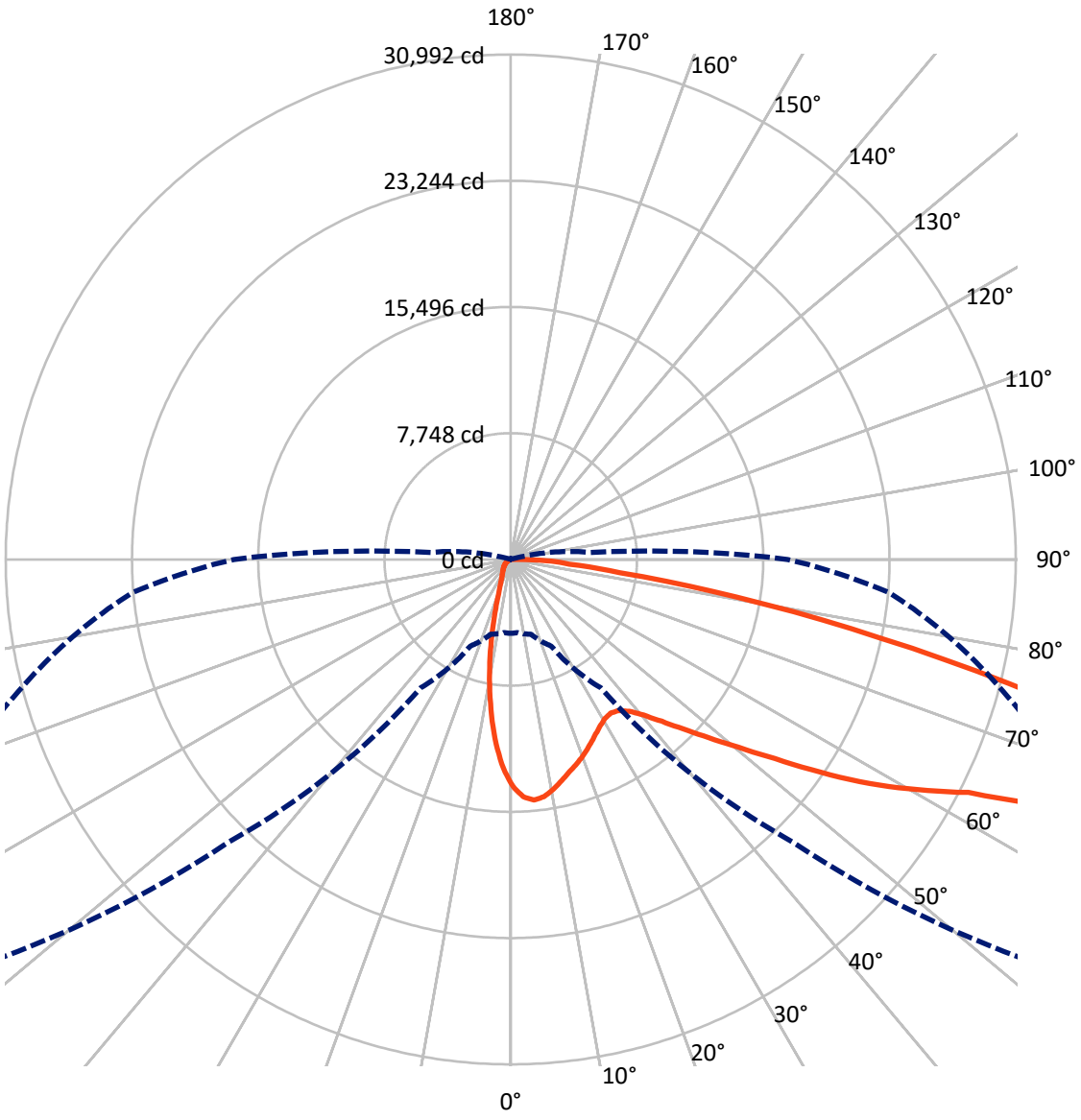
Luminous Intensity Polar Plot



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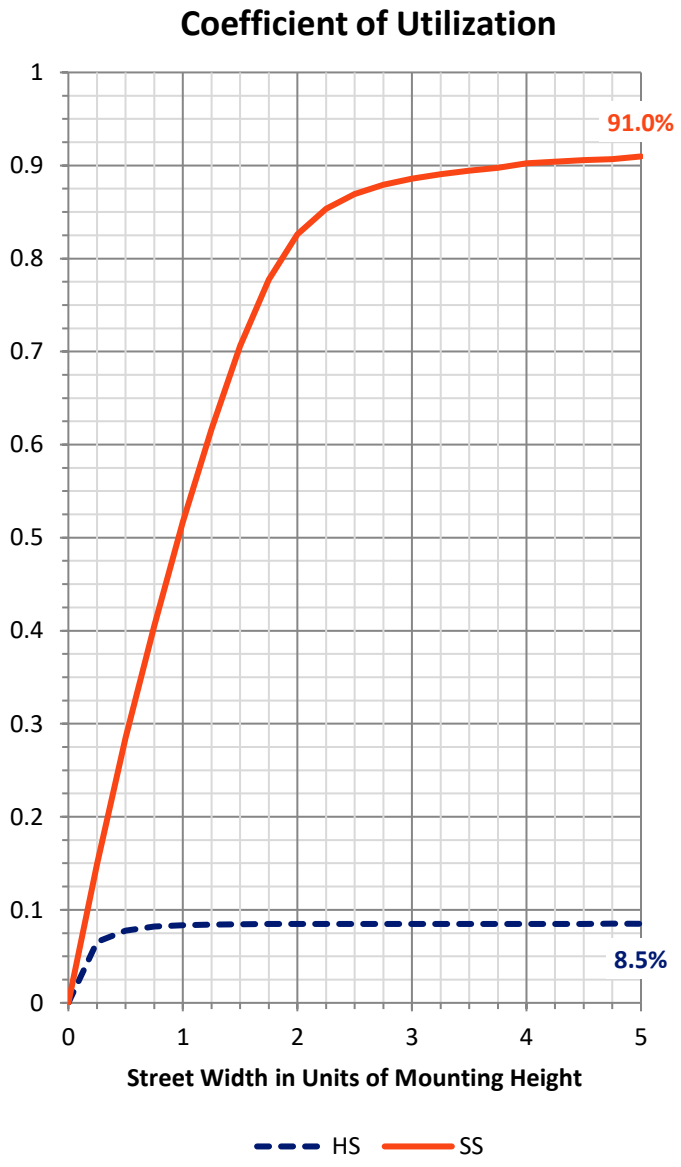
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4030.0	0.0	4030.0
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	43061.1	0.0	43061.1
	% Fixture	91.4	0.0	91.4
Total	Lumens	47091.0	0.0	47091.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1137.5	2.4
10°-20°	2387.4	5.1
20°-30°	3138.6	6.7
30°-40°	4156.7	8.8
40°-50°	6213.0	13.2
50°-60°	9953.0	21.1
60°-70°	12545.6	26.6
70°-80°	6767.1	14.4
80°-90°	792.1	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°	47091.0	100.0
0°-180°	47091.0	100.0



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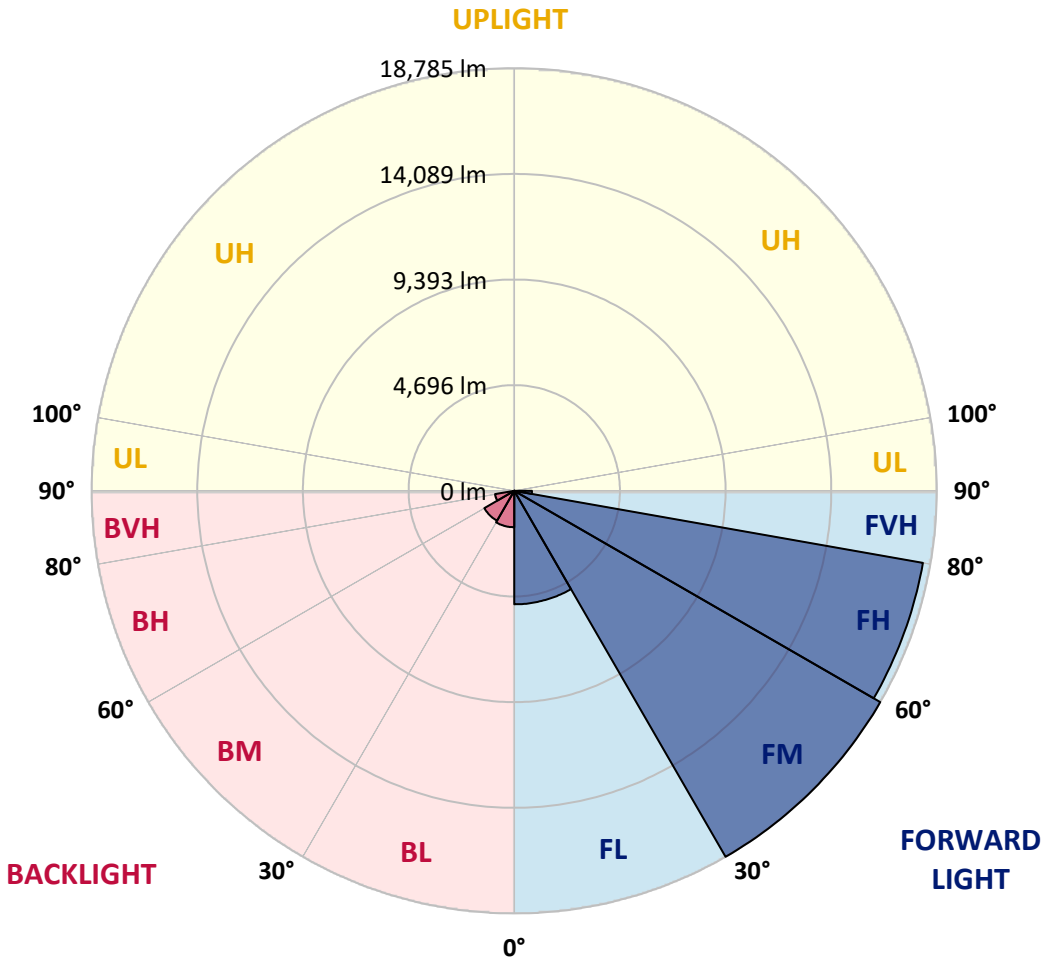
REPORT NUMBER: P323703
CATALOG NUMBER: GLEON-SA9D-830-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	5044.4	10.7			
FM	(30°-60°)	18785.3	39.9			
FH	(60°-80°)	18446.0	39.2			G5
FVH	(80°-90°)	785.3	1.7			G5
BL	(0°-30°)	1619.1	3.4	B3/2500		
BM	(30°-60°)	1537.4	3.3	B2/2500		
BH	(60°-80°)	866.7	1.8	B2/1000		G2/1000
BVH	(80°-90°)	6.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type III Medium



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Scaled Data Report

REPORT NUMBER: P323703
CATALOG NUMBER: GLEON-SA9D-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13910.5	13910.5	13910.5	13910.5	13910.5	13910.5	13910.5	13910.5	13910.5	13910.5	13910.5
2.5°	15063.8	15026.6	15012.9	14989.4	14899.3	14811.2	14636.9	14588.0	14478.3	14217.9	13941.8
5°	15075.5	15073.6	15114.7	15104.9	15073.6	15032.5	14907.1	14842.5	14656.5	14284.5	13779.3
7.5°	14349.1	14386.3	14478.3	14552.7	14638.9	14750.5	14766.2	14703.5	14550.8	14149.3	13479.7
10°	13373.9	13432.7	13561.9	13708.8	13934.0	14157.2	14356.9	14349.1	14296.2	13900.7	13119.4
12.5°	12396.8	12465.4	12614.2	12831.5	13150.7	13514.9	13871.3	13920.2	14008.4	13677.4	12786.5
15°	11541.1	11599.9	11746.7	12013.0	12408.6	12898.1	13420.9	13511.0	13738.1	13503.2	12508.4
17.5°	10814.7	10851.9	10959.6	11255.3	11713.5	12306.8	12986.2	13162.5	13501.2	13366.1	12267.6
20°	10307.5	10313.4	10383.9	10591.5	11049.7	11713.5	12535.9	12788.5	13250.6	13248.6	12018.9
22.5°	10056.9	10037.3	10051.0	10170.5	10507.3	11147.6	12085.5	12385.1	13025.4	13148.8	11766.3
25°	10009.9	9994.2	9955.1	9970.7	10174.4	10652.2	11631.2	11977.8	12827.6	13088.0	11547.0
27.5°	10156.7	10172.4	10105.8	10035.3	10051.0	10331.0	11227.8	11629.3	12667.1	13088.0	11392.3
30°	10452.4	10460.3	10411.3	10319.3	10195.9	10240.9	10947.8	11349.2	12586.8	13178.1	11294.4
32.5°	10779.4	10822.5	10816.6	10742.2	10566.0	10383.9	10881.3	11247.4	12580.9	13377.9	11284.6
35°	11184.8	11233.7	11316.0	11300.3	11116.2	10816.6	11108.4	11396.2	12696.4	13706.8	11390.4
37.5°	11615.5	11690.0	11866.2	11950.4	11830.9	11492.2	11617.5	11823.1	13005.8	14239.4	11658.6
40°	12032.6	12116.8	12438.0	12768.9	12678.8	12330.3	12389.0	12553.5	13556.0	15005.0	12167.7
42.5°	12441.9	12567.2	13039.1	13583.5	13691.1	13413.1	13444.4	13575.6	14372.6	16058.5	12999.9
45°	12931.4	13072.4	13771.4	14443.1	14730.9	14609.5	14742.7	14828.8	15439.7	17450.7	14121.9
47.5°	13650.0	13812.6	14670.2	15435.8	15941.0	16019.3	16287.6	16344.4	16788.9	19072.1	15584.6
50°	15052.0	15097.1	15872.5	16567.6	17296.0	17766.0	18071.5	18114.5	18422.0	20844.1	17411.6
52.5°	16816.3	16845.7	17284.3	17750.3	18578.6	19538.1	20252.8	20313.5	20378.1	22571.2	19215.0
55°	18568.8	18564.9	18854.7	19128.8	20076.6	21470.7	23021.6	23058.8	22594.7	24210.2	20593.5
57.5°	19663.4	19769.1	20209.7	20562.2	21885.9	23673.6	25825.6	25962.7	24922.9	25424.2	21956.4
60°	19314.9	19365.8	20342.9	21647.0	24139.7	26804.7	28662.9	28698.2	26673.5	26636.3	23679.5
62.5°	16456.0	16483.4	18018.6	20707.1	25281.2	30865.8	32085.7	31512.0	28686.4	28318.3	25741.4
65°	11278.8	11456.9	12739.5	16062.4	23184.1	33413.3	37384.4	36434.7	31754.8	30742.4	27605.5
67.5°	6641.9	6604.7	7239.2	9686.8	17027.8	31721.5	44087.0	43143.2	35939.3	32365.7	27059.2
70°	4537.0	4511.5	4754.3	5864.6	9612.4	24607.6	46195.9	48101.1	39634.2	31273.1	23287.9
72.5°	3238.7	3252.4	3610.8	4556.5	6034.9	14337.3	39726.3	44235.8	38477.0	27262.9	17701.4
75°	2199.0	2236.2	2749.2	3738.0	5290.8	7294.0	28191.0	33626.7	31331.8	19814.2	10174.4
77.5°	1182.7	1223.8	1828.9	3011.6	4783.7	5067.6	18134.1	23143.0	19681.0	8907.5	2948.9
80°	493.4	516.9	855.7	2189.2	4133.6	4450.8	10669.8	14033.8	8386.6	1756.4	657.9
82.5°	213.4	225.2	356.4	1306.1	3089.9	3757.6	5649.2	6751.6	2541.6	385.7	330.9
85°	41.1	43.1	146.9	691.2	1971.8	2120.6	3661.7	3589.2	1141.6	166.4	240.8
87.5°	0.0	0.0	35.2	217.4	579.6	1155.3	2234.2	2206.8	387.7	80.3	90.1
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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Scaled Data Report

REPORT NUMBER: P323703
CATALOG NUMBER: GLEON-SA9D-830-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13910.5	13910.5	13910.5	13910.5	13910.5	13910.5	13910.5	13910.5	13910.5	13910.5	13910.5
2.5°	13800.8	13665.7	13381.8	13031.3	12763.0	12467.3	12232.4	11934.7	11805.5	11811.4	11740.9
5°	13491.4	13213.4	12584.8	11791.8	11180.8	10550.3	10007.9	9467.5	9148.3	9044.5	8946.6
7.5°	13048.9	12608.3	11605.8	10383.9	9350.0	8339.6	7460.4	6687.0	6197.4	5958.5	5870.4
10°	12549.6	11930.8	10479.8	8870.3	7393.8	6027.1	4887.5	3896.7	3501.1	3232.9	3164.3
12.5°	12110.9	11272.9	9379.4	7317.5	5565.0	3916.2	2829.5	2212.7	1944.4	1838.7	1821.0
15°	11697.8	10658.0	8320.0	5911.6	3853.6	2410.4	1799.5	1590.0	1527.3	1509.7	1509.7
17.5°	11308.1	10072.6	7284.2	4527.2	2549.5	1689.9	1490.1	1443.1	1423.6	1421.6	1423.6
20°	10900.8	9487.1	6266.0	3317.0	1779.9	1431.4	1376.6	1351.1	1345.2	1345.2	1345.2
22.5°	10511.2	8901.6	5275.2	2369.3	1427.5	1306.1	1278.6	1261.0	1255.2	1253.2	1249.3
25°	10137.2	8345.5	4307.9	1674.2	1253.2	1196.4	1172.9	1149.4	1131.8	1122.0	1116.1
27.5°	9829.7	7850.1	3407.1	1343.3	1131.8	1082.8	1053.5	1018.2	975.1	955.6	947.7
30°	9585.0	7397.8	2625.8	1133.7	1018.2	969.3	924.2	863.5	800.9	767.6	765.6
32.5°	9393.1	6953.3	1993.4	1002.6	916.4	855.7	791.1	714.7	642.3	605.1	603.1
35°	9299.1	6561.6	1523.4	906.6	826.3	750.0	669.7	585.5	515.0	479.7	475.8
37.5°	9361.8	6230.7	1188.6	826.3	750.0	661.8	567.9	479.7	417.1	385.7	383.8
40°	9590.9	6019.2	965.4	757.8	685.3	577.6	475.8	393.6	340.7	315.3	313.3
42.5°	10078.4	5940.9	824.4	701.0	622.7	499.3	395.5	325.0	276.1	258.5	254.6
45°	10893.0	6056.5	728.4	646.2	558.1	424.9	327.0	266.3	223.2	209.5	207.6
47.5°	11977.8	6360.0	659.9	593.3	499.3	358.3	272.2	215.4	182.1	168.4	166.4
50°	13375.9	6841.7	603.1	540.4	444.5	303.5	225.2	170.4	141.0	131.2	131.2
52.5°	14897.3	7415.4	552.2	491.5	389.7	252.6	182.1	131.2	111.6	99.9	99.9
55°	16154.5	7916.7	497.4	454.3	323.1	209.5	139.0	99.9	82.2	76.4	76.4
57.5°	17409.6	8451.2	434.7	389.7	258.5	170.4	105.7	74.4	60.7	56.8	56.8
60°	19036.8	9105.2	374.0	317.2	203.6	129.2	78.3	52.9	45.0	43.1	43.1
62.5°	20826.5	9489.0	319.2	254.6	158.6	95.9	56.8	35.2	33.3	33.3	31.3
65°	21921.1	8946.6	268.3	203.6	123.4	72.5	37.2	25.5	29.4	27.4	23.5
67.5°	20525.0	7004.2	219.3	158.6	95.9	54.8	23.5	17.6	31.3	25.5	19.6
70°	*16994.5*	*4903.1*	*170.4*	*111.6*	*76.4*	*47.0*	*15.7*	*11.7*	*33.3*	*25.5*	*15.7*
72.5°	12718.0	3281.8	135.1	74.4	56.8	41.1	13.7	5.9	29.4	21.5	13.7
75°	6949.4	1321.7	107.7	47.0	35.2	29.4	9.8	3.9	19.6	15.7	9.8
77.5°	1828.9	348.5	78.3	31.3	19.6	11.7	5.9	2.0	9.8	7.8	3.9
80°	466.0	135.1	50.9	21.5	13.7	5.9	0.0	0.0	2.0	0.0	0.0
82.5°	248.7	56.8	31.3	15.7	7.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	188.0	37.2	17.6	9.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	72.5	11.7	5.9	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

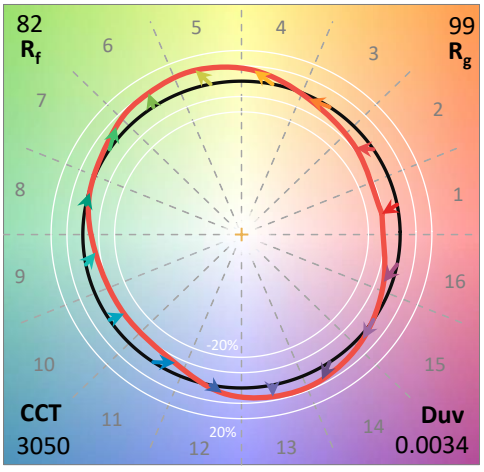
Test Information

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

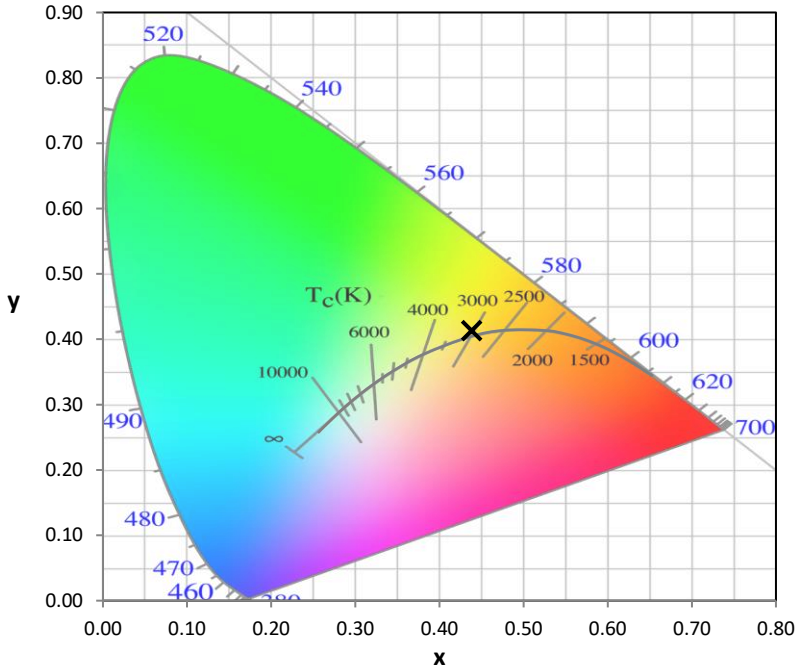
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

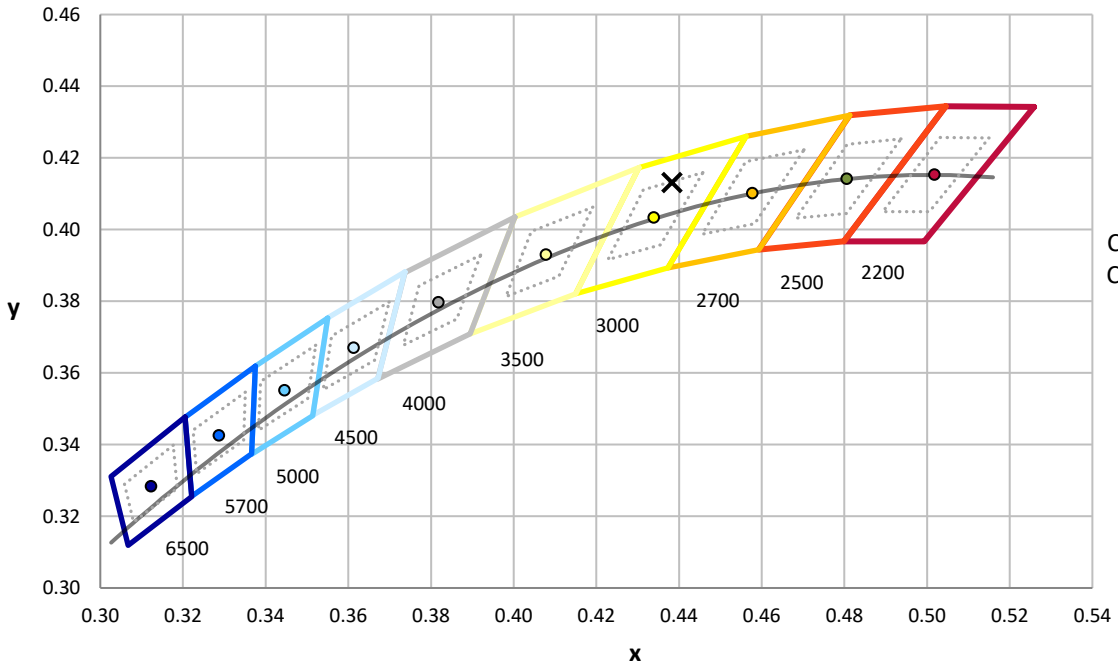
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

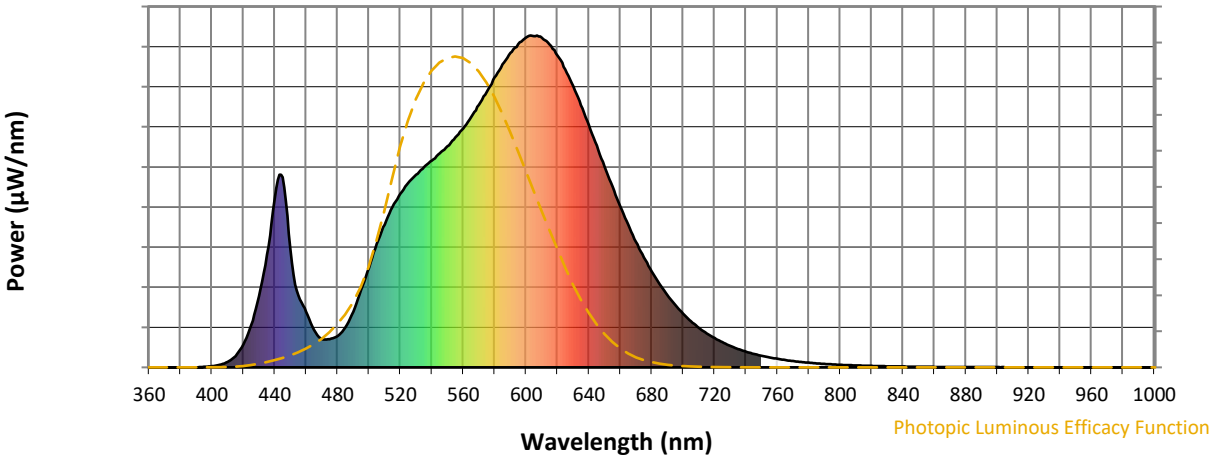


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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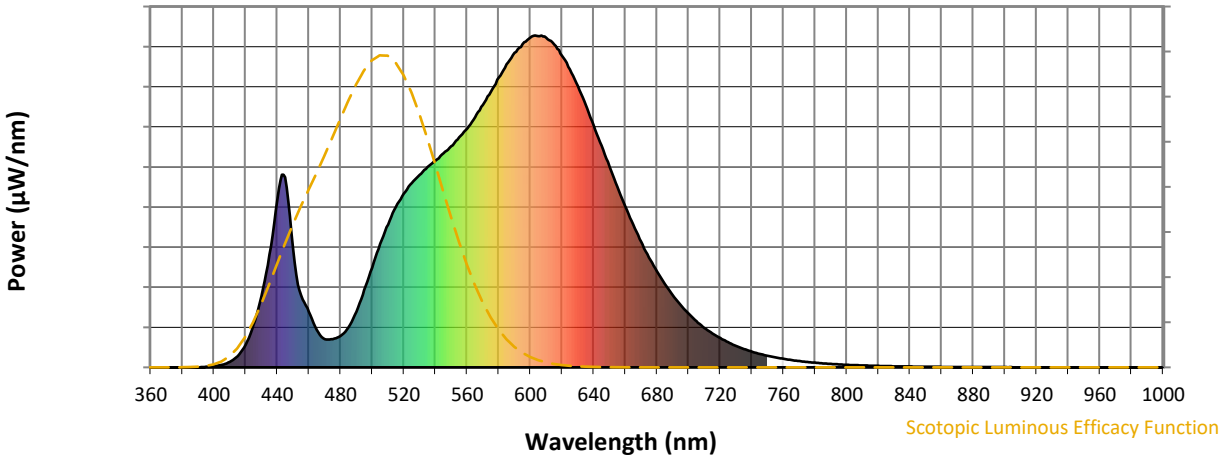
Scotopic Flux vs. Wavelength



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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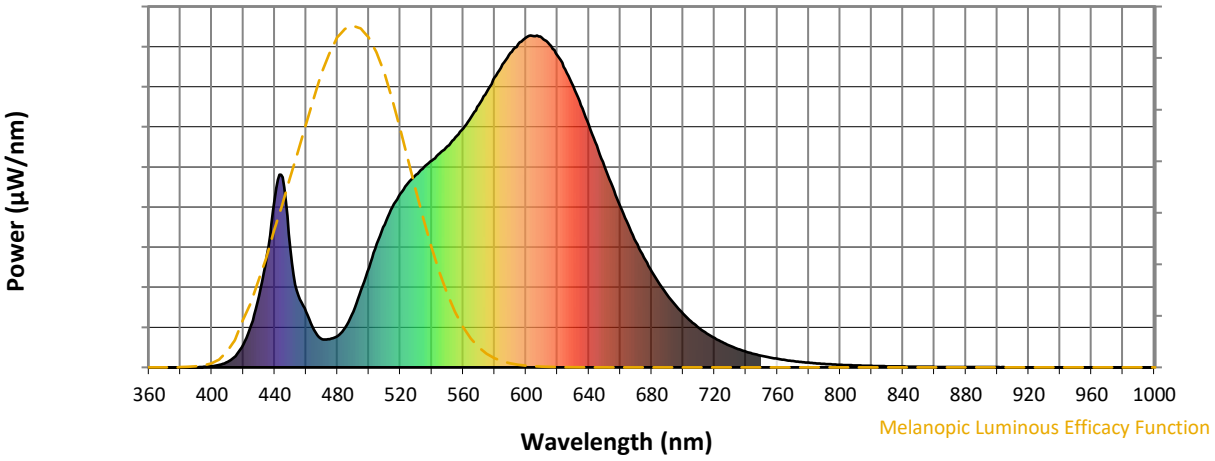
Melanopic Flux vs. Wavelength



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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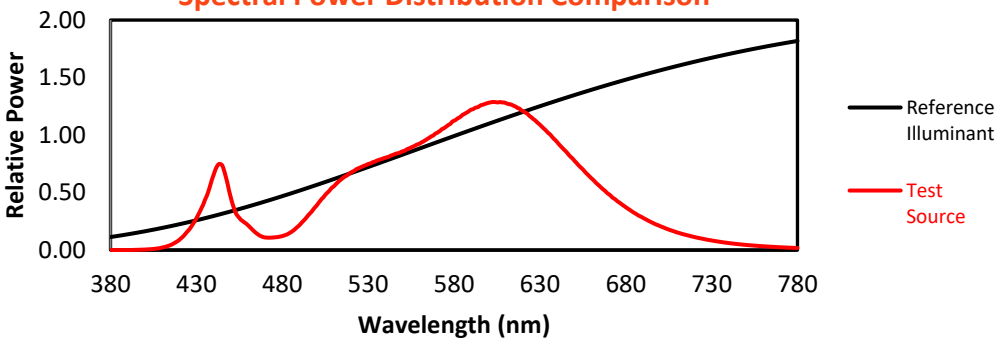
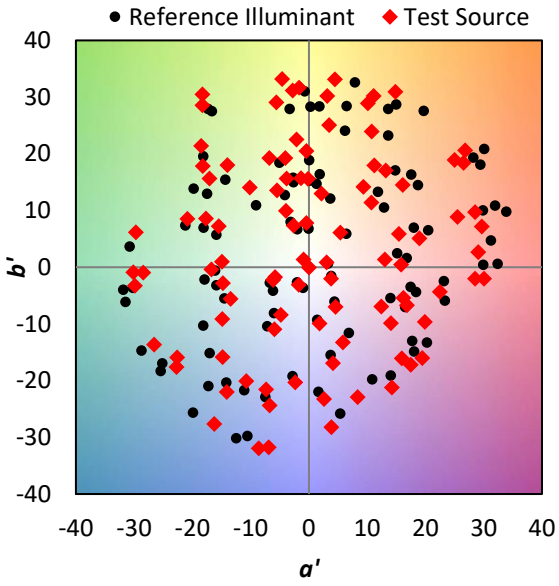
Summary

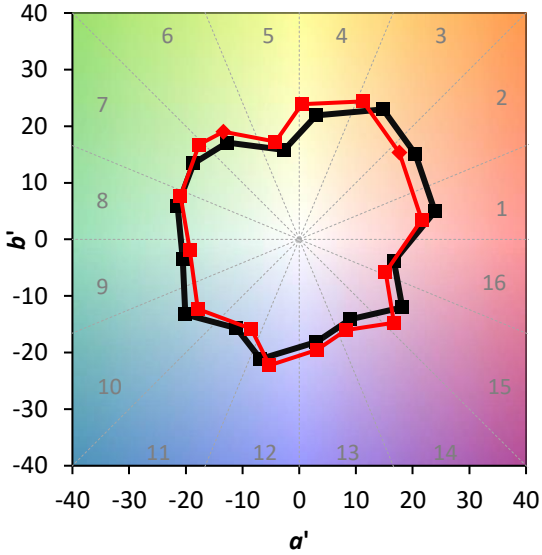
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

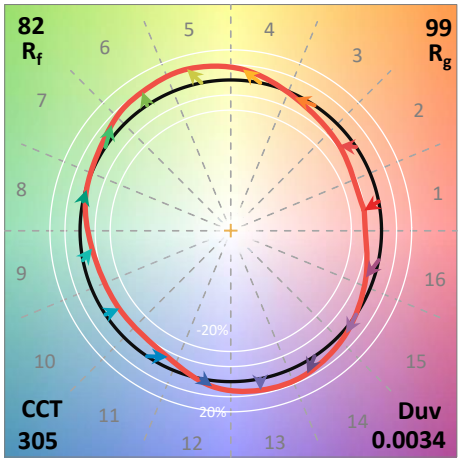
Spectral Power Distribution Comparison

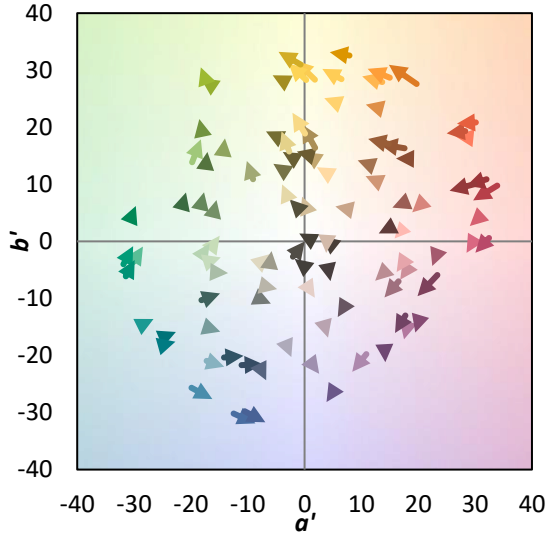


Color Vector Graphics









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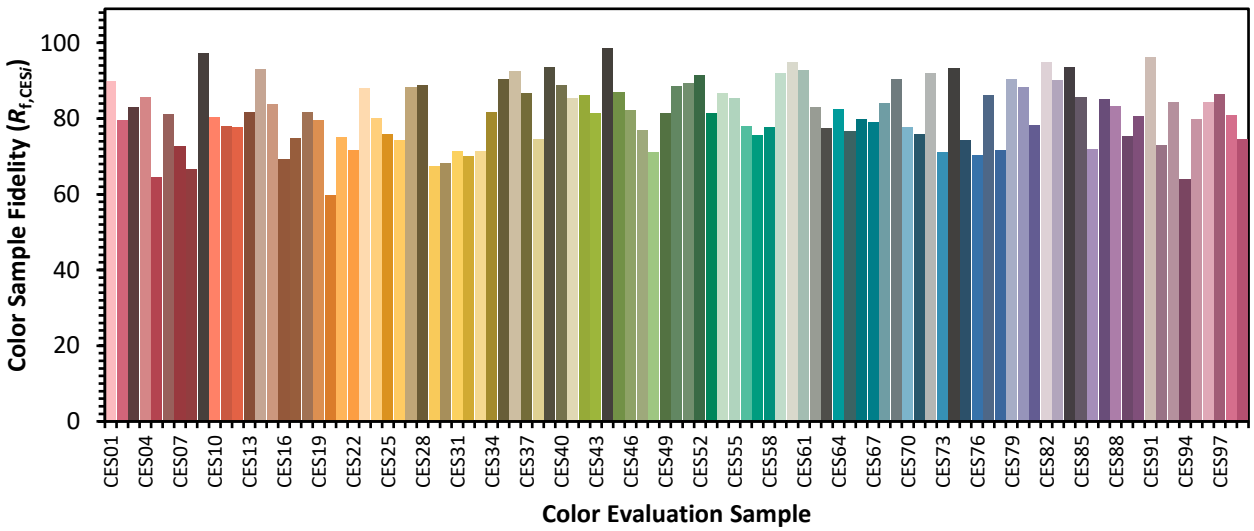
Individual Sample Fidelity Index ($R_{f,i}$)

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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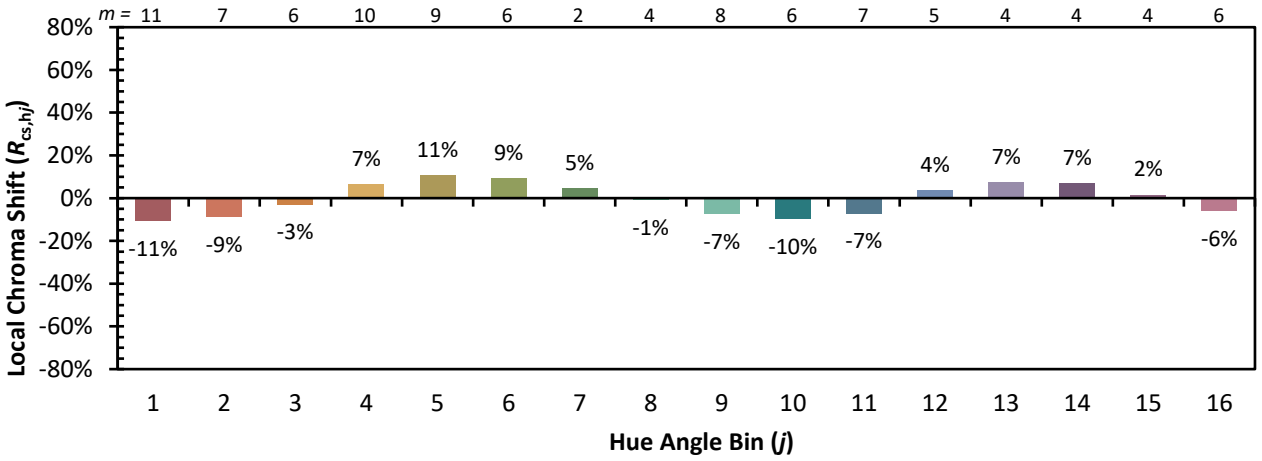
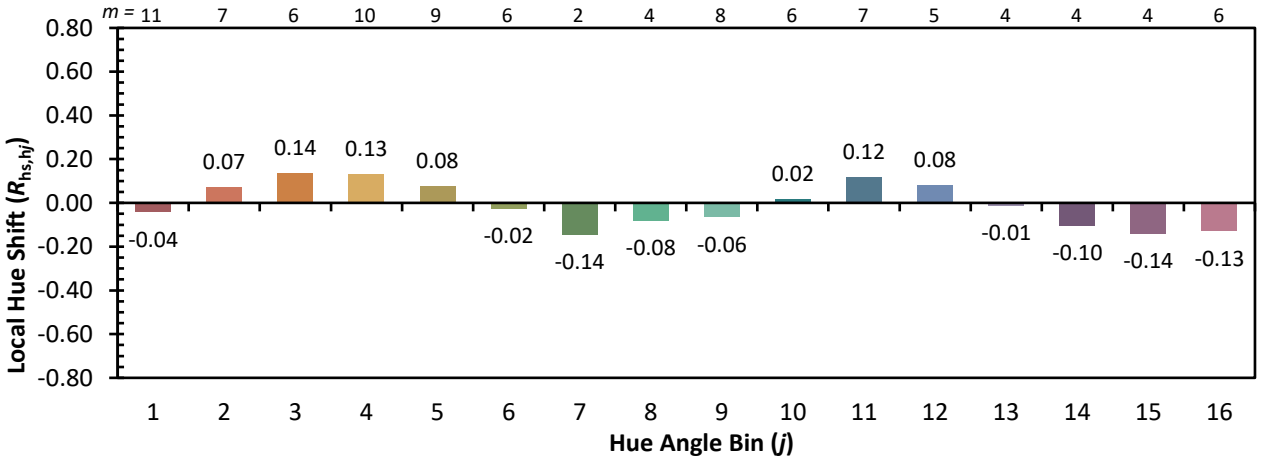
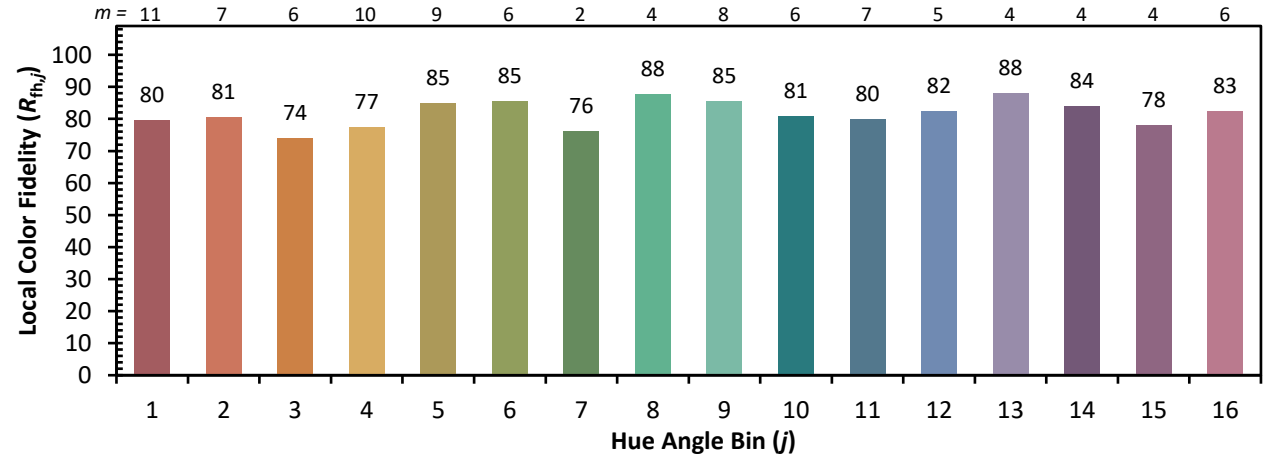
Color Rendition by Hue-Angle Bin







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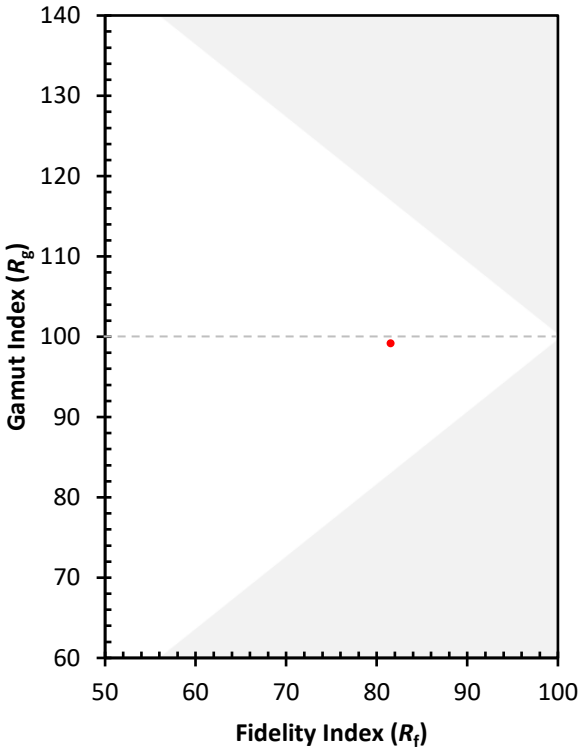
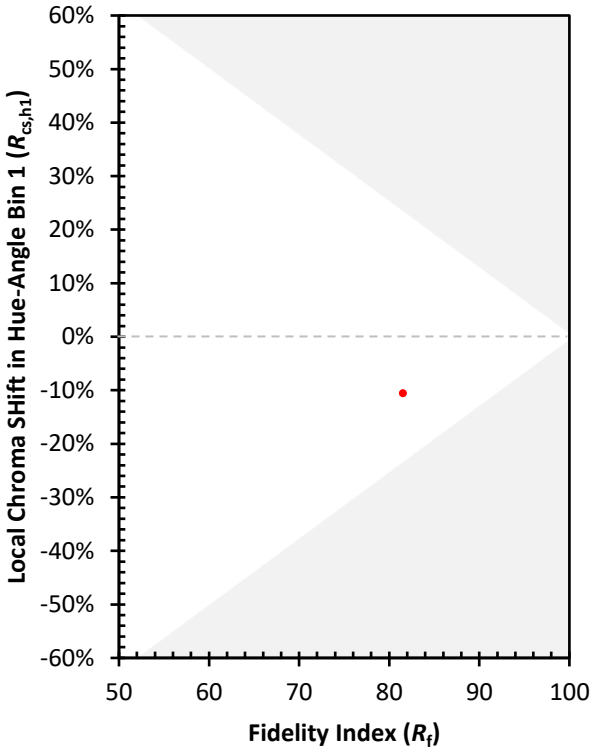
Measure Comparisons





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