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: P321459

Luminaire Tested: **GLEON-SA5D-830-U-T2R-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:	P321459
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA5D-830-U-T2R-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	24875 lumens
Efficiency:	N/A
Efficacy:	77.7 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B1 - U0 - G3

Input Watts (W):	320
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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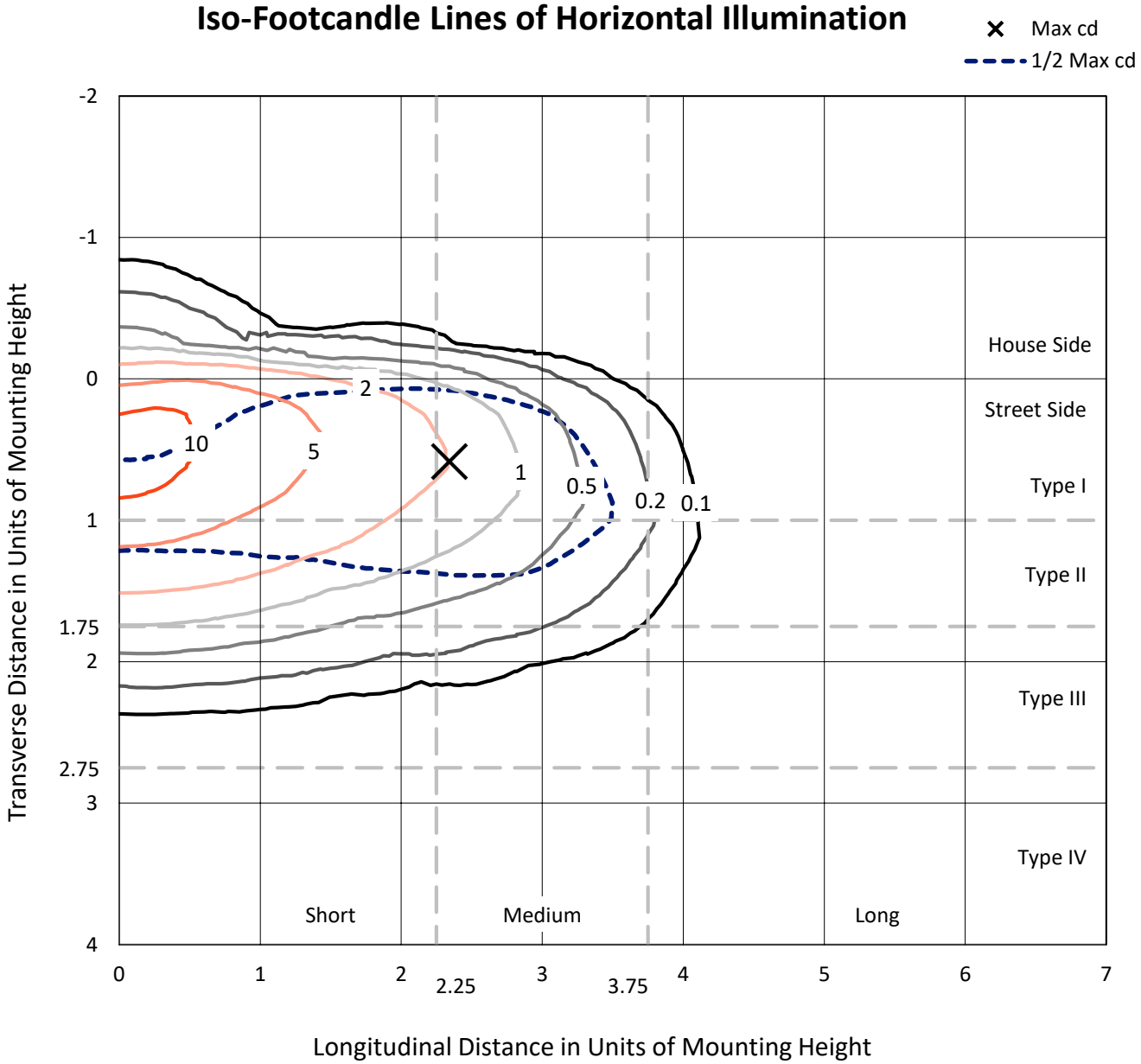
Scaled Data Report

REPORT NUMBER: P321459
CATALOG NUMBER: GLEON-SA5D-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
Type II - Medium - N/A

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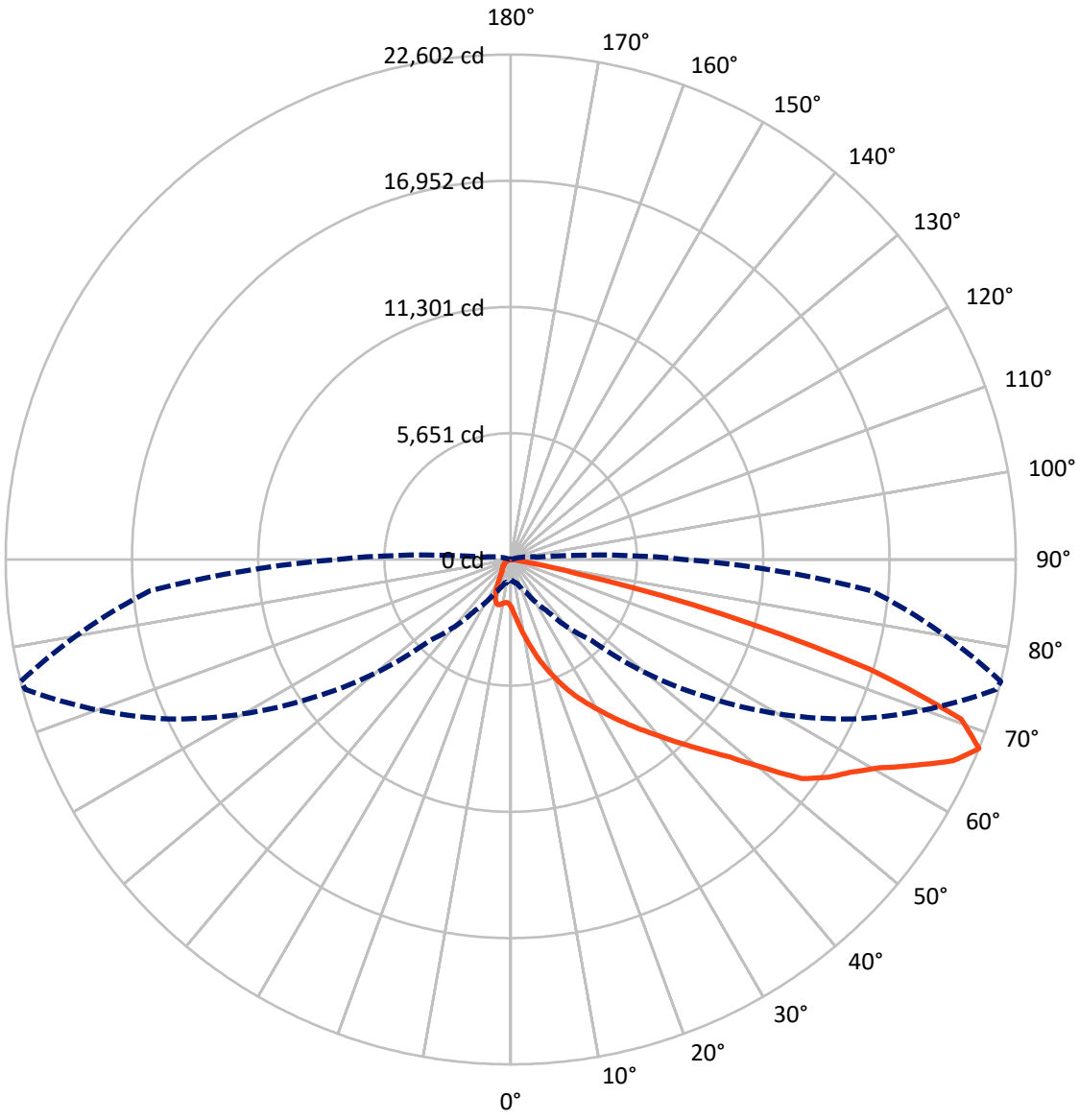
Luminous Intensity Polar Plot



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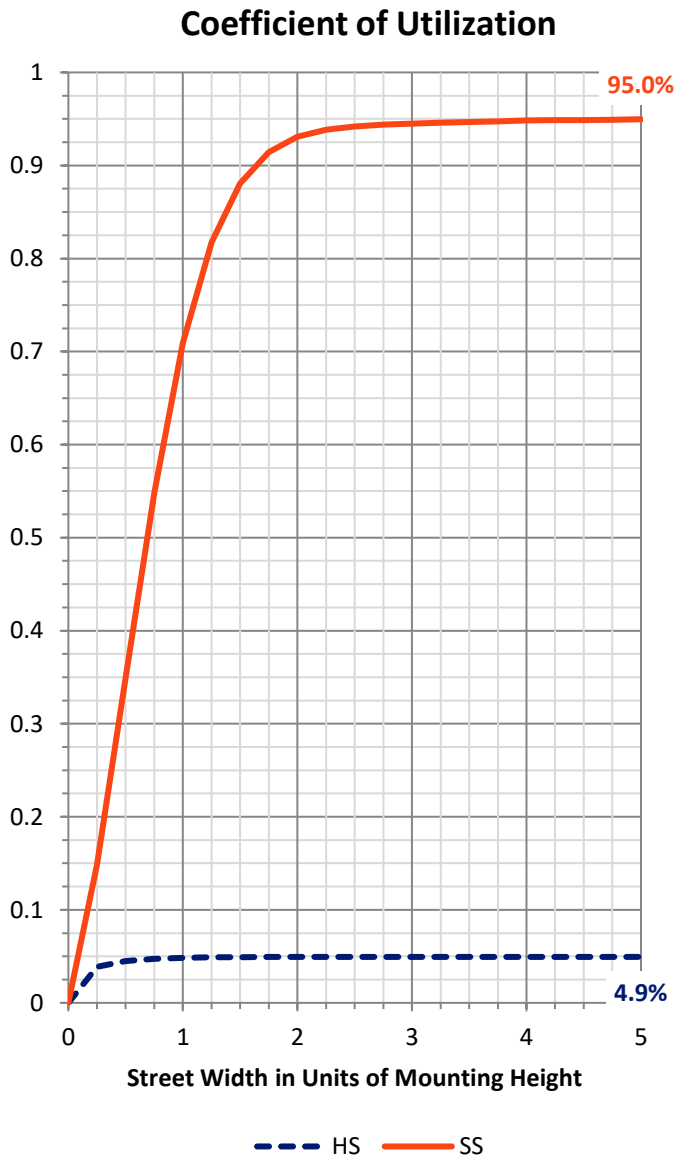
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1235.2	0.0	1235.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	23639.8	0.0	23639.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	24875.0	0.0	24875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.4	1.1
10°-20°	1040.2	4.2
20°-30°	2116.4	8.5
30°-40°	3673.3	14.8
40°-50°	5189.9	20.9
50°-60°	5885.6	23.7
60°-70°	4881.6	19.6
70°-80°	1768.3	7.1
80°-90°	57.3	0.2
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°	24875.0	100.0
0°-180°	24875.0	100.0



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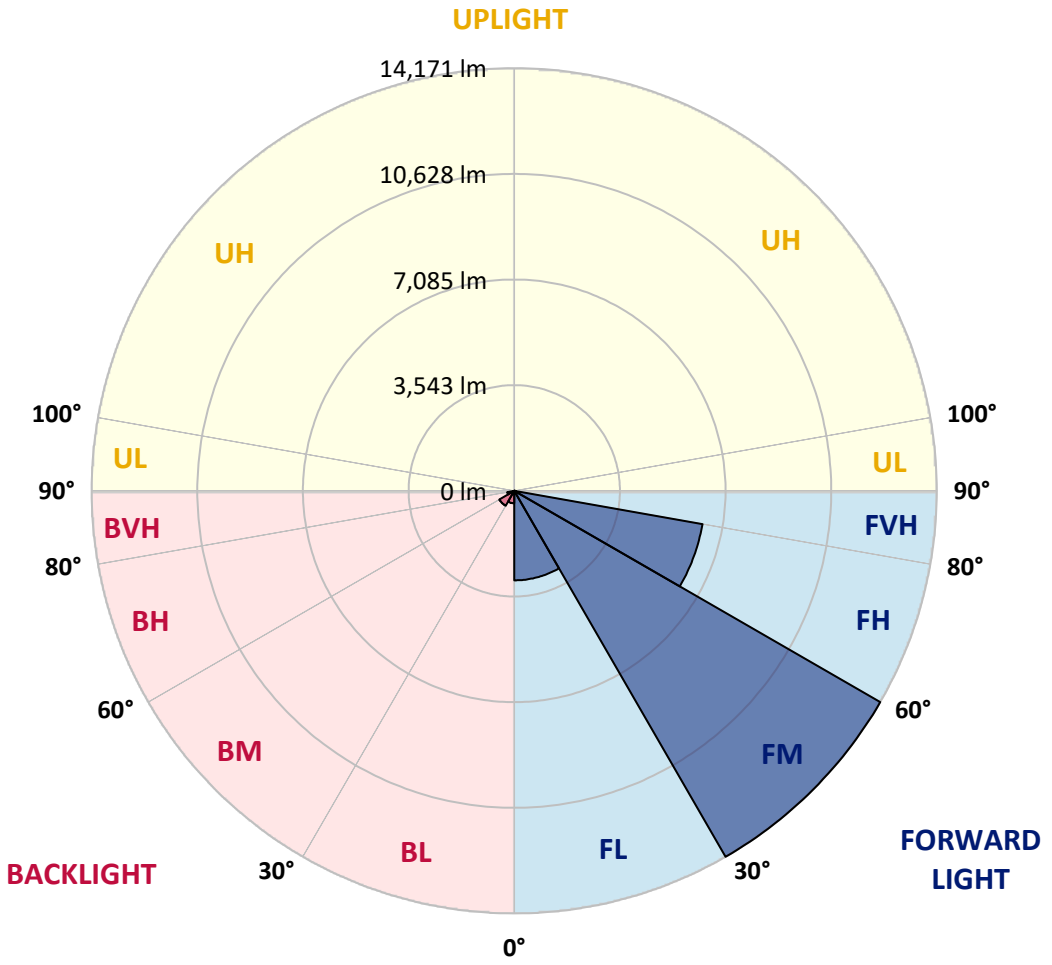
REPORT NUMBER: P321459
CATALOG NUMBER: GLEON-SA5D-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3002.3	12.1			
FM	(30°-60°)	14170.8	57.0			
FH	(60°-80°)	6411.1	25.8			G3/7500
FVH	(80°-90°)	55.5	0.2			G1/100
BL	(0°-30°)	416.6	1.7	B1/500		
BM	(30°-60°)	578.1	2.3	B1/1000		
BH	(60°-80°)	238.7	1.0	B1/500		G1/500
BVH	(80°-90°)	1.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
Type II Medium



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Scaled Data Report

REPORT NUMBER: P321459
CATALOG NUMBER: GLEON-SA5D-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2110.1	2110.1	2110.1	2110.1	2110.1	2110.1	2110.1	2110.1	2110.1	*2110.1*	2110.1
2.5°	3149.9	3079.1	3095.4	3049.6	2966.8	2796.8	2651.8	2514.5	2354.3	*2348.8*	2216.9
5°	4247.5	4187.5	4179.9	4087.3	3936.9	3648.0	3366.8	3046.4	2688.9	*2662.7*	2382.6
7.5°	5243.7	5195.7	5178.3	5068.2	4788.1	4506.9	4140.7	3669.8	3110.7	*3062.7*	2606.0
10°	6008.8	5985.9	5990.3	5911.8	5672.0	5410.5	4929.8	4329.2	3589.2	*3515.1*	2874.2
12.5°	6588.7	6594.1	6633.4	6585.4	6451.3	6257.3	5744.0	5032.2	4118.9	*4017.5*	3180.4
15°	7014.8	7042.1	7114.0	7174.0	7164.2	6996.3	6525.5	5746.2	4681.3	*4569.0*	3521.6
17.5°	7290.6	7321.1	7425.7	7558.7	7680.8	7641.6	7279.7	6435.0	5250.2	*5120.5*	3886.7
20°	7532.6	7568.5	7680.8	7856.3	8084.1	8133.1	7895.5	7103.1	5818.1	*5660.0*	4263.8
22.5°	8056.8	8055.7	8124.4	8226.9	8443.8	8570.2	8419.8	7723.3	6379.4	*6214.8*	4648.6
25°	9005.1	8969.1	8945.1	8864.5	8912.4	8990.9	8907.0	8303.1	6944.0	*6777.2*	5038.8
27.5°	10132.1	10153.9	9959.9	9743.0	9575.1	9494.5	9357.1	8840.5	7486.8	*7303.7*	5420.3
30°	11321.2	11327.7	11098.8	10822.0	10452.5	10146.2	9908.6	9353.9	8044.8	*7845.4*	5790.8
32.5°	12393.7	12351.2	12124.5	11747.4	11280.9	10936.4	10442.7	9927.2	8635.6	*8442.7*	6202.8
35°	13243.8	13193.7	12917.9	12574.6	12090.7	11744.1	11150.1	10499.4	9256.8	*9068.3*	6615.9
37.5°	13865.1	13806.2	13522.9	13169.7	12752.3	12550.6	11970.8	11121.7	9934.8	*9732.1*	7050.8
40°	14080.9	14029.7	13852.0	13593.7	13258.0	13212.2	12841.7	11837.8	10672.7	*10456.9*	7543.5
42.5°	13952.3	13902.2	13838.9	13751.8	13612.2	13655.8	13663.5	12654.2	11492.3	*11279.8*	8087.3
45°	13442.2	13397.5	13462.9	13590.4	13763.7	13979.5	14413.3	13531.6	12407.9	*12181.1*	8716.2
47.5°	12691.2	12658.5	12839.5	13157.7	13664.6	14259.7	15098.9	14453.7	13435.7	*13225.3*	9501.0
50°	11623.1	11617.7	11979.5	12560.4	13339.8	14394.8	15807.4	15502.2	14863.5	*14642.2*	10592.0
52.5°	9959.9	9970.8	10682.5	11612.2	12769.7	14303.3	16263.0	16849.4	16524.6	*16294.6*	11537.0
55°	8376.2	8441.6	8946.2	10286.8	11895.6	13963.2	16419.9	17478.2	17441.2	*17223.2*	12062.3
57.5°	6825.2	6944.0	7430.1	8682.4	10619.3	13179.5	16333.8	17750.7	18123.5	*17956.7*	12755.5
60°	5144.5	5199.0	5759.2	6929.8	8981.1	11749.5	15709.3	17899.0	19056.5	*18940.9*	13761.6
62.5°	3273.1	3409.3	3906.3	5035.5	6993.0	9763.7	14656.4	17896.8	20223.8	*20287.0*	15059.7
65°	1724.3	1883.4	2147.2	3120.5	4805.5	7545.6	13072.7	17728.9	21656.0	*21744.3*	16074.4
67.5°	*929.7*	*975.5*	*1115.0*	*1619.6*	*2787.0*	*5111.8*	*10745.7*	*16900.6*	*22485.4*	*22602.0*	*16216.1*
70°	680.1	705.2	757.5	895.9	1402.8	2969.0	7841.0	15022.6	21416.2	*21372.6*	14407.9
72.5°	522.1	561.3	600.6	656.1	806.6	1584.8	4881.8	11763.7	17088.1	*16800.3*	10769.7
75°	412.0	418.5	474.1	524.3	604.9	902.5	2167.9	6851.4	10429.6	*9748.4*	5584.8
77.5°	329.2	333.5	366.2	409.8	486.1	592.9	671.4	2695.4	3329.8	*2971.2*	1212.0
80°	195.1	206.0	272.5	316.1	403.3	373.8	245.2	585.3	519.9	*470.9*	203.8
82.5°	109.0	117.7	153.7	249.6	281.2	178.7	122.1	158.0	122.1	*118.8*	57.8
85°	0.0	5.4	99.2	154.8	114.4	39.2	51.2	52.3	36.0	*33.8*	22.9
87.5°	0.0	0.0	30.5	29.4	4.4	6.5	12.0	17.4	14.2	*14.2*	12.0
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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REPORT NUMBER: P321459
CATALOG NUMBER: GLEON-SA5D-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2110.1	2110.1	2110.1	2110.1	2110.1	2110.1	2110.1	2110.1	2110.1	2110.1	2110.1
2.5°	2151.5	2092.7	1981.5	1872.5	1781.0	1705.8	1638.2	1610.9	1589.1	1585.9	1568.4
5°	2247.5	2128.6	1916.1	1741.7	1625.1	1542.3	1471.4	1427.8	1394.0	1381.0	1369.0
7.5°	2392.4	2212.6	1907.4	1706.8	1567.3	1427.8	1297.0	1155.3	1067.0	1033.3	1013.6
10°	2569.0	2323.7	1940.1	1697.0	1452.9	1158.6	941.7	761.9	688.8	664.9	658.3
12.5°	2775.0	2462.2	1996.8	1636.0	1208.7	822.9	649.6	588.6	572.2	564.6	564.6
15°	3011.5	2613.7	2037.1	1459.4	893.7	622.4	562.4	534.1	516.6	506.8	507.9
17.5°	3253.5	2761.9	2017.5	1203.3	659.4	553.7	509.0	478.5	454.5	444.7	442.5
20°	3497.6	2899.2	1908.5	895.9	558.0	502.5	452.3	418.5	394.6	384.7	382.6
22.5°	3750.5	3015.9	1716.7	657.2	501.4	445.8	396.7	362.9	340.1	331.3	327.0
25°	3996.8	3110.7	1448.5	531.9	448.0	392.4	345.5	313.9	293.2	284.5	283.4
27.5°	4226.8	3170.6	1137.9	469.8	401.1	344.4	301.9	273.6	256.1	249.6	248.5
30°	4433.9	3176.1	841.4	424.0	359.7	303.0	263.8	238.7	223.4	216.9	214.7
32.5°	4643.1	3130.3	612.5	382.6	321.5	267.0	228.9	209.3	198.4	192.9	192.9
35°	4840.4	3024.6	477.4	346.6	284.5	232.2	201.6	187.5	180.9	175.5	175.5
37.5°	5033.3	2873.1	405.5	315.0	249.6	202.7	177.7	168.9	163.5	158.0	158.0
40°	5229.5	2682.3	368.4	285.6	221.3	179.8	158.0	150.4	145.0	140.6	139.5
42.5°	5470.4	2462.2	344.4	258.3	196.2	159.1	139.5	130.8	126.4	122.1	119.9
45°	5749.4	2272.5	324.8	231.1	175.5	141.7	121.0	112.3	105.7	100.3	99.2
47.5°	6151.6	2135.2	298.6	201.6	155.9	123.2	104.6	94.8	85.0	79.6	78.5
50°	6665.0	2021.8	264.9	175.5	136.2	104.6	87.2	75.2	66.5	61.0	61.0
52.5°	6920.0	1873.6	234.3	152.6	114.4	88.3	70.8	56.7	52.3	46.9	46.9
55°	7022.5	1760.3	203.8	129.7	94.8	73.0	55.6	43.6	40.3	37.1	36.0
57.5°	7310.2	1727.6	177.7	110.1	78.5	57.8	42.5	32.7	30.5	26.2	26.2
60°	7773.4	1743.9	153.7	93.7	63.2	44.7	31.6	25.1	22.9	18.5	18.5
62.5°	8273.7	1723.2	129.7	80.7	49.0	32.7	21.8	18.5	18.5	10.9	9.8
65°	8369.6	1534.6	111.2	66.5	38.1	24.0	14.2	12.0	16.3	2.2	0.0
67.5°	*7768.0*	*1190.2*	*95.9*	*51.2*	*28.3*	*18.5*	*10.9*	*5.4*	*14.2*	*0.0*	*0.0*
70°	6211.6	756.4	77.4	37.1	21.8	15.3	8.7	2.2	10.9	0.0	0.0
72.5°	4392.5	439.2	61.0	26.2	18.5	12.0	6.5	0.0	6.5	0.0	0.0
75°	2221.3	234.3	38.1	19.6	14.2	8.7	4.4	0.0	1.1	0.0	0.0
77.5°	480.7	109.0	24.0	14.2	9.8	5.4	2.2	0.0	0.0	0.0	0.0
80°	104.6	48.0	15.3	8.7	5.4	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	38.1	25.1	7.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.7	13.1	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.9	4.4	1.1	1.1	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

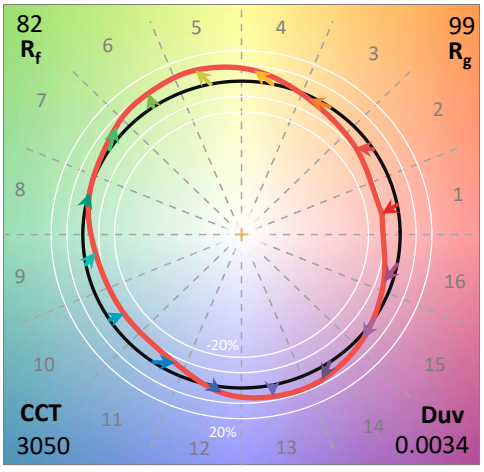
Test Information

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

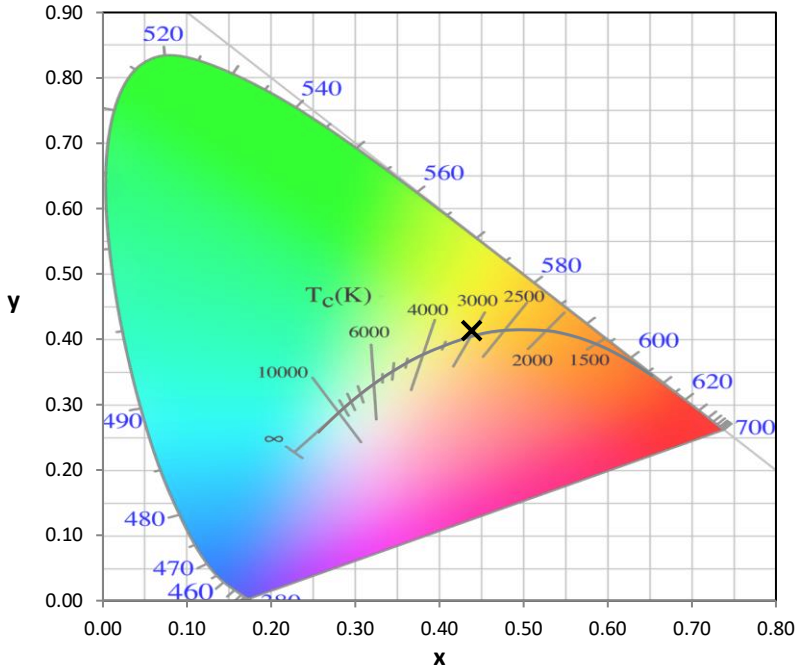
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

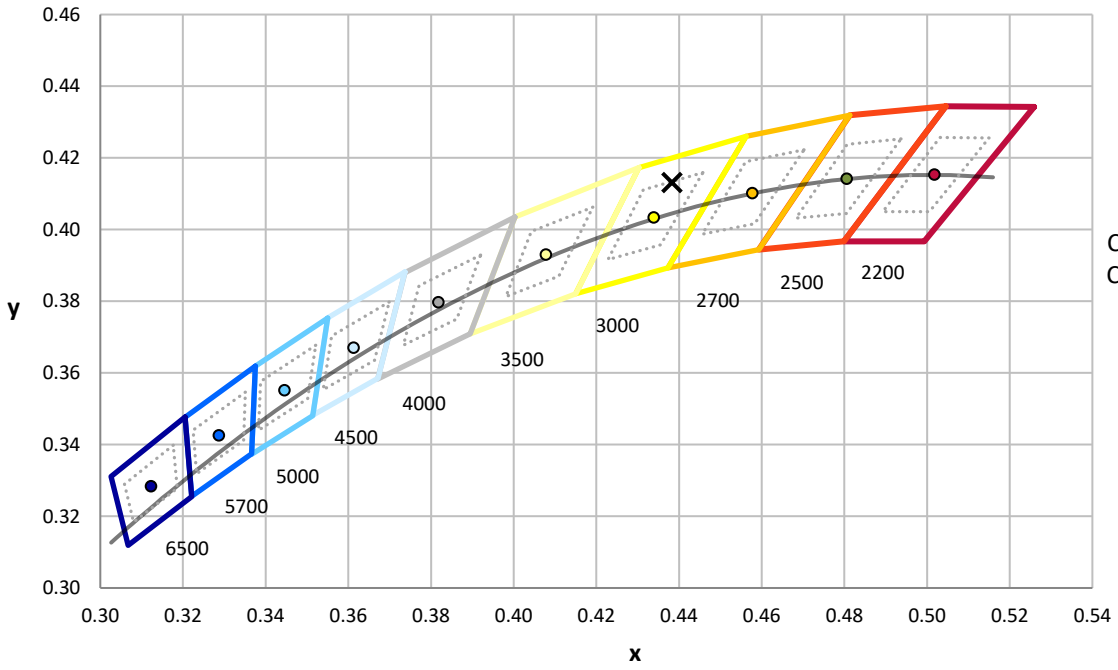
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

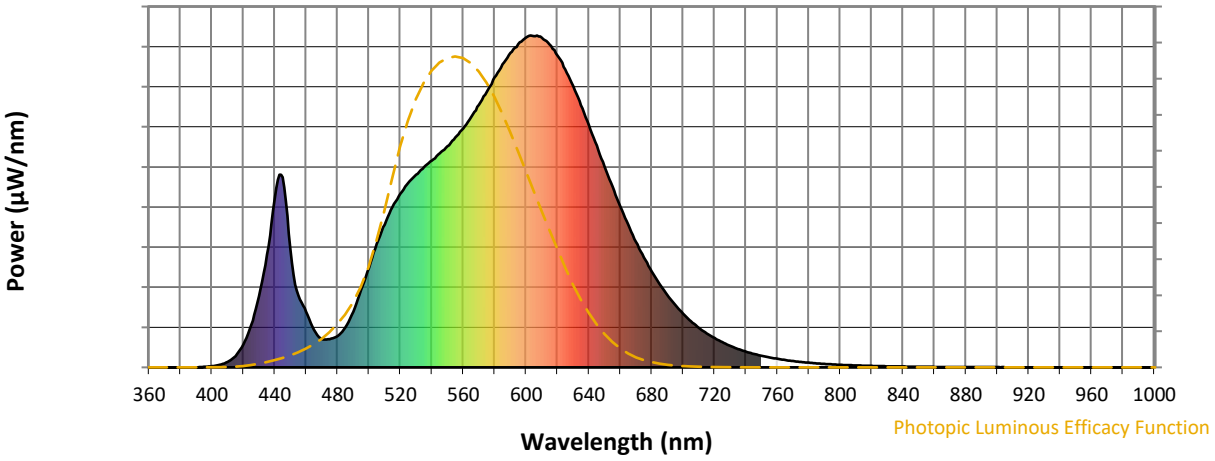


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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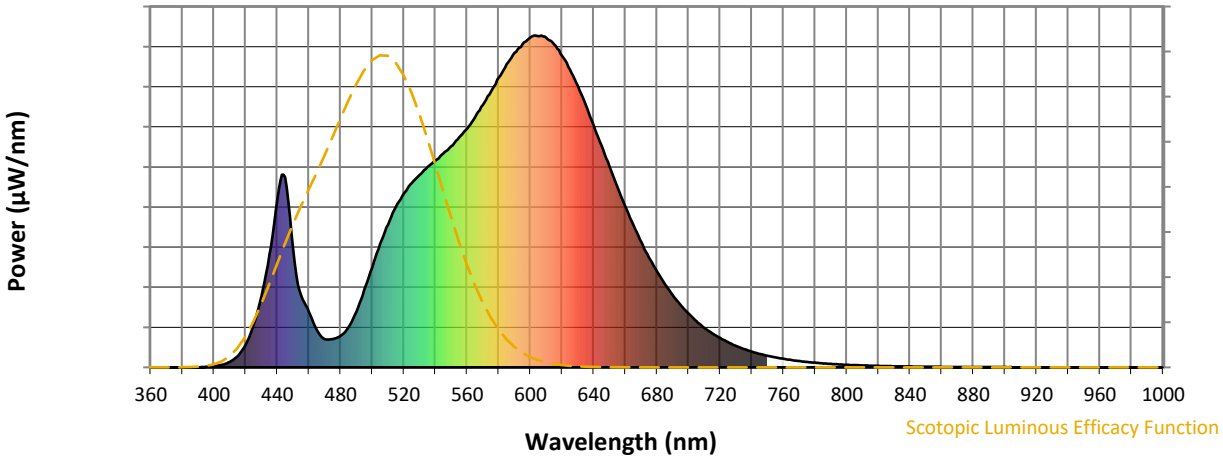
Scotopic Flux vs. Wavelength



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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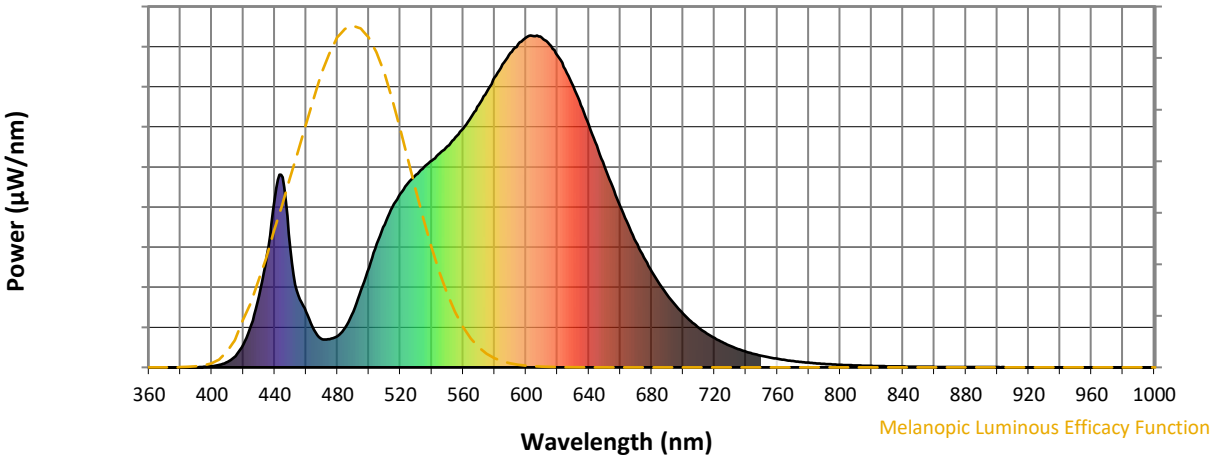
Melanopic Flux vs. Wavelength



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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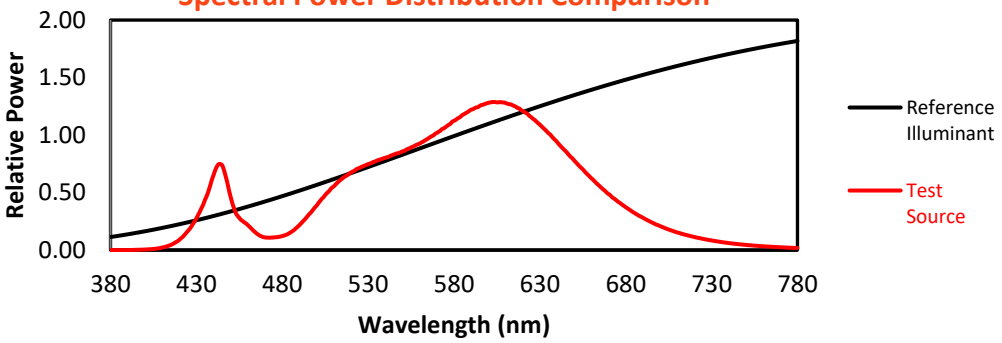
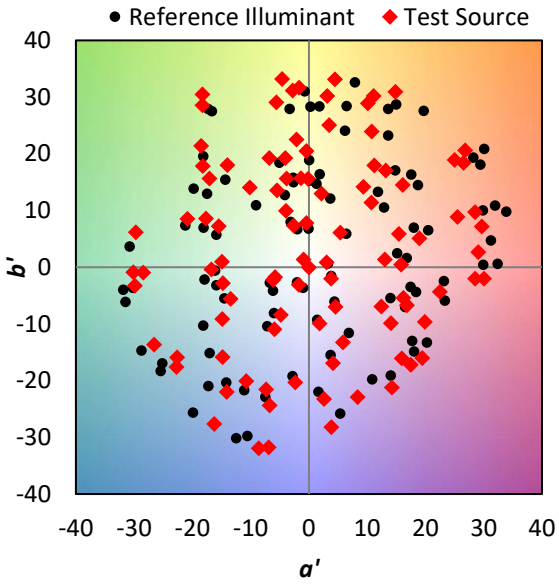
Summary

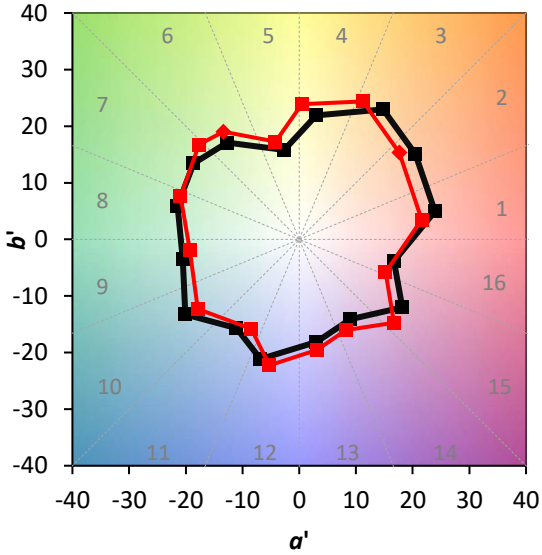
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

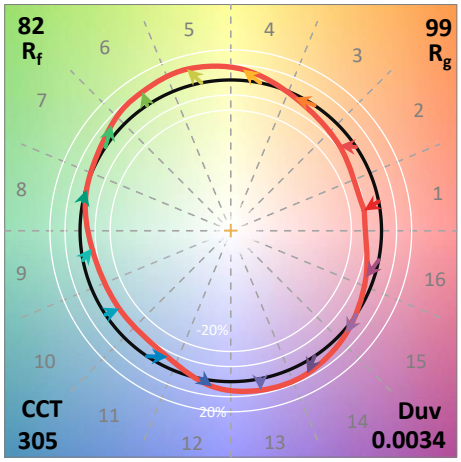
Spectral Power Distribution Comparison

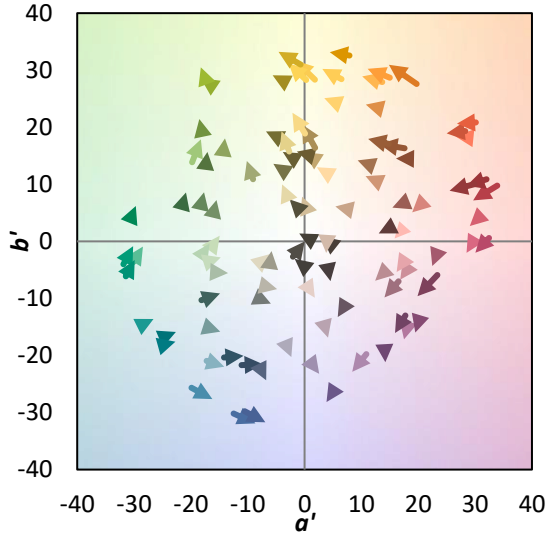


Color Vector Graphics









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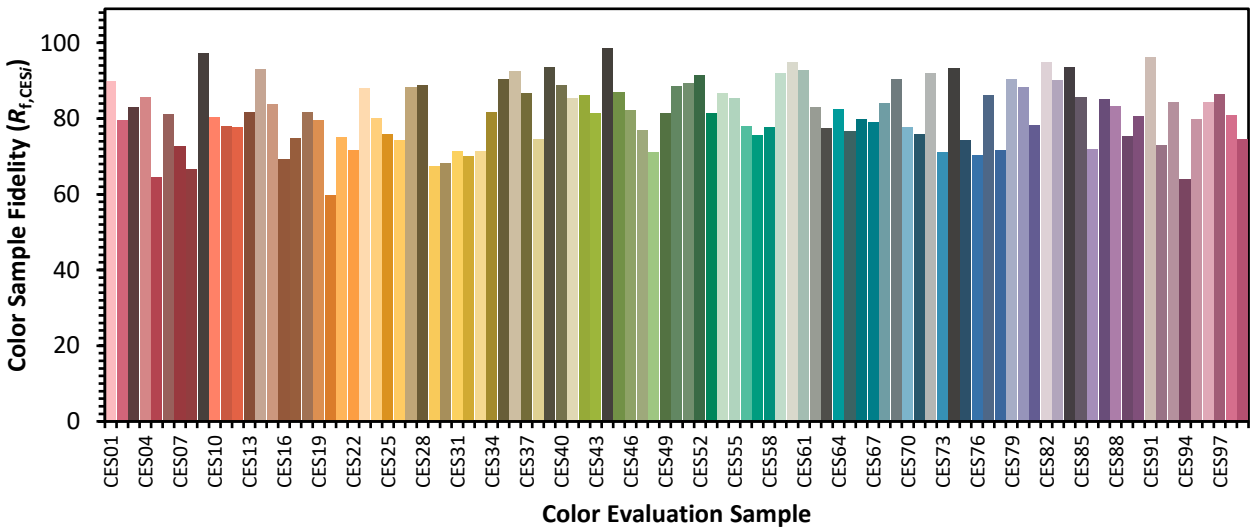
Individual Sample Fidelity Index ($R_{f,i}$)

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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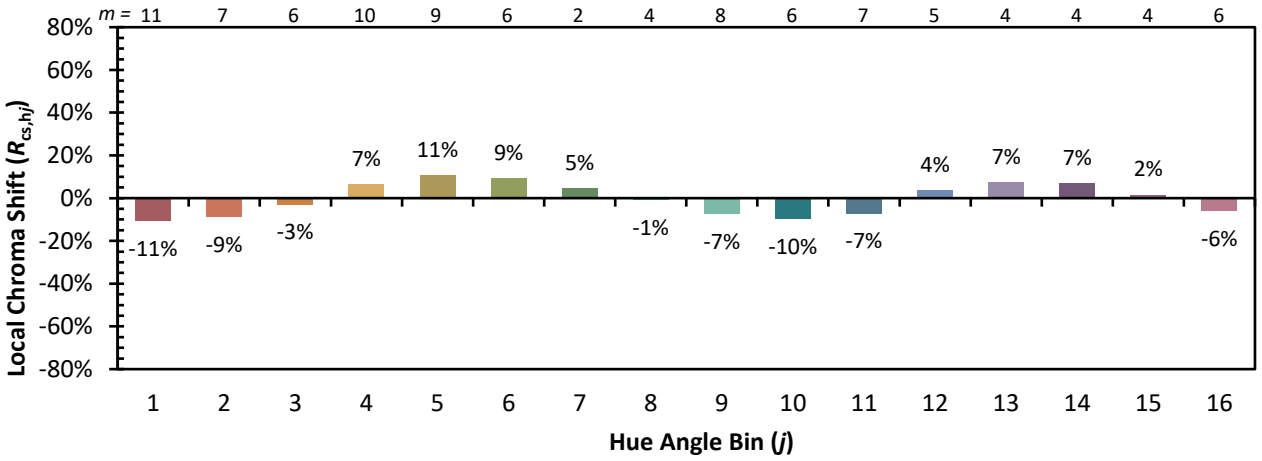
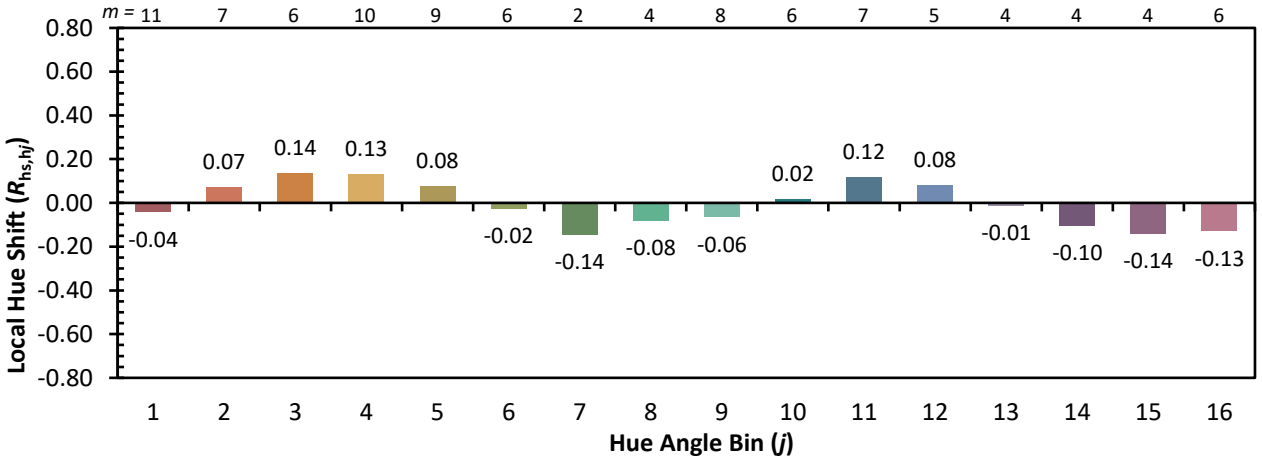
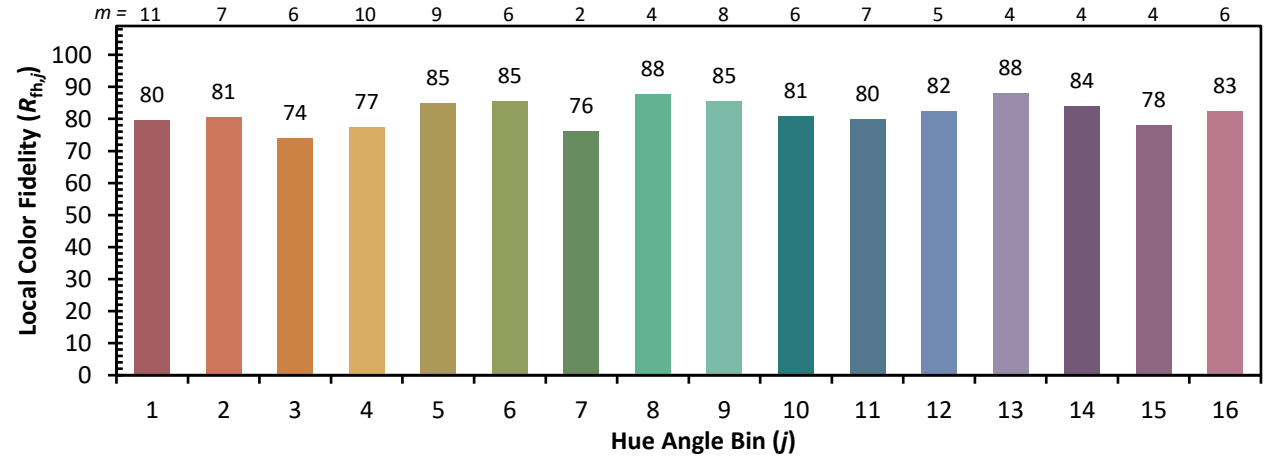
Color Rendition by Hue-Angle Bin







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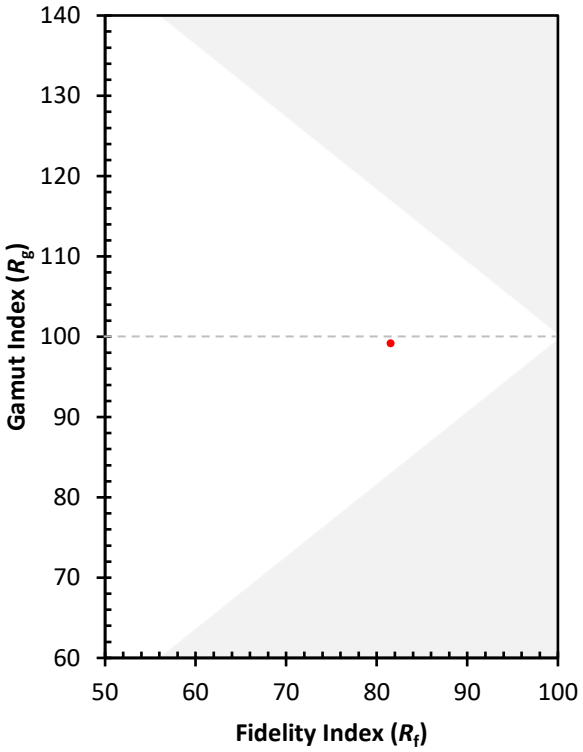
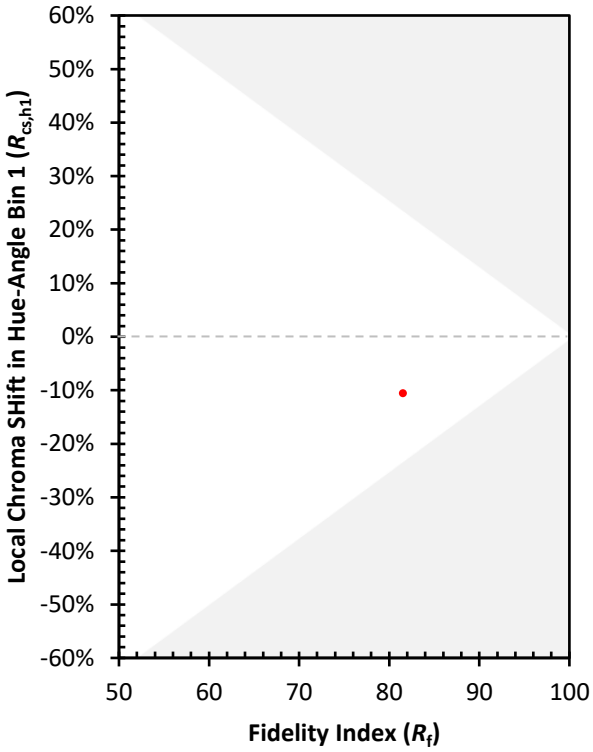
Measure Comparisons





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