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: P322095

Luminaire Tested: **GLEON-SA1D-830-U-T2-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:	P322095
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA1D-830-U-T2-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
	WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4593 lumens
Efficiency:	N/A
Efficacy:	68.6 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B0 - U0 - G1

Input Watts (W):	67
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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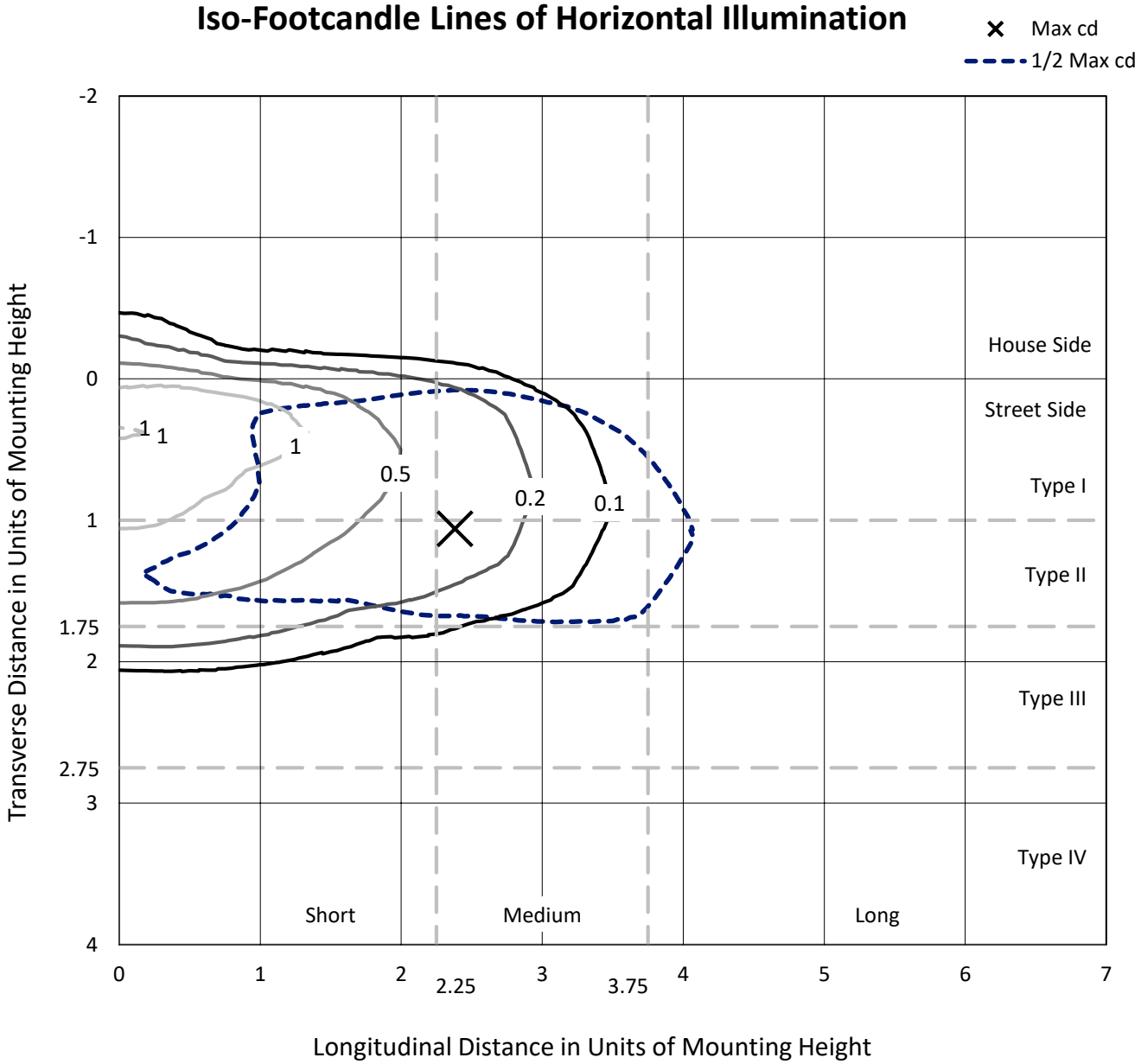
REPORT NUMBER: P322095
CATALOG NUMBER: GLEON-SA1D-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type II - Medium - N/A

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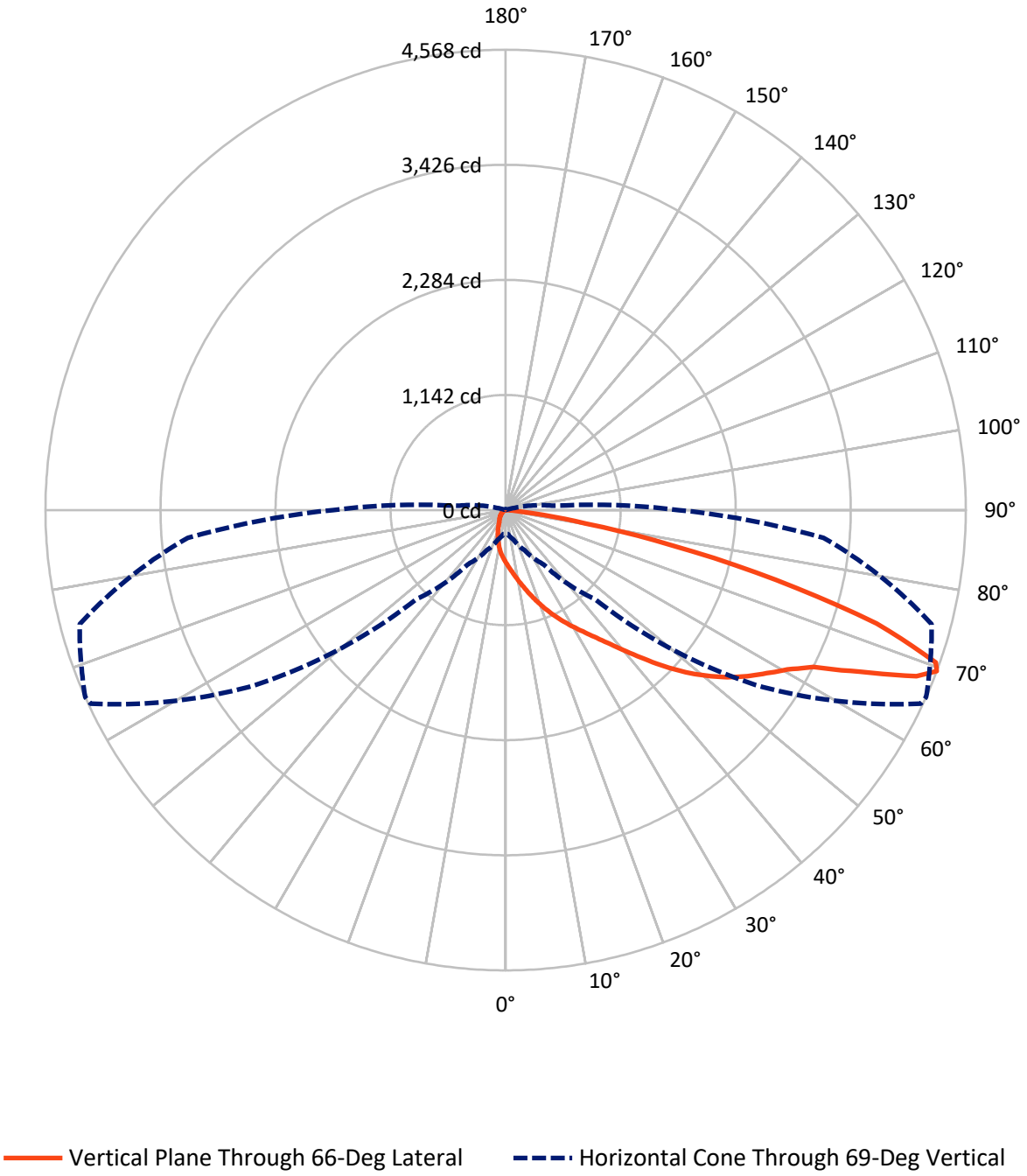
Luminous Intensity Polar Plot



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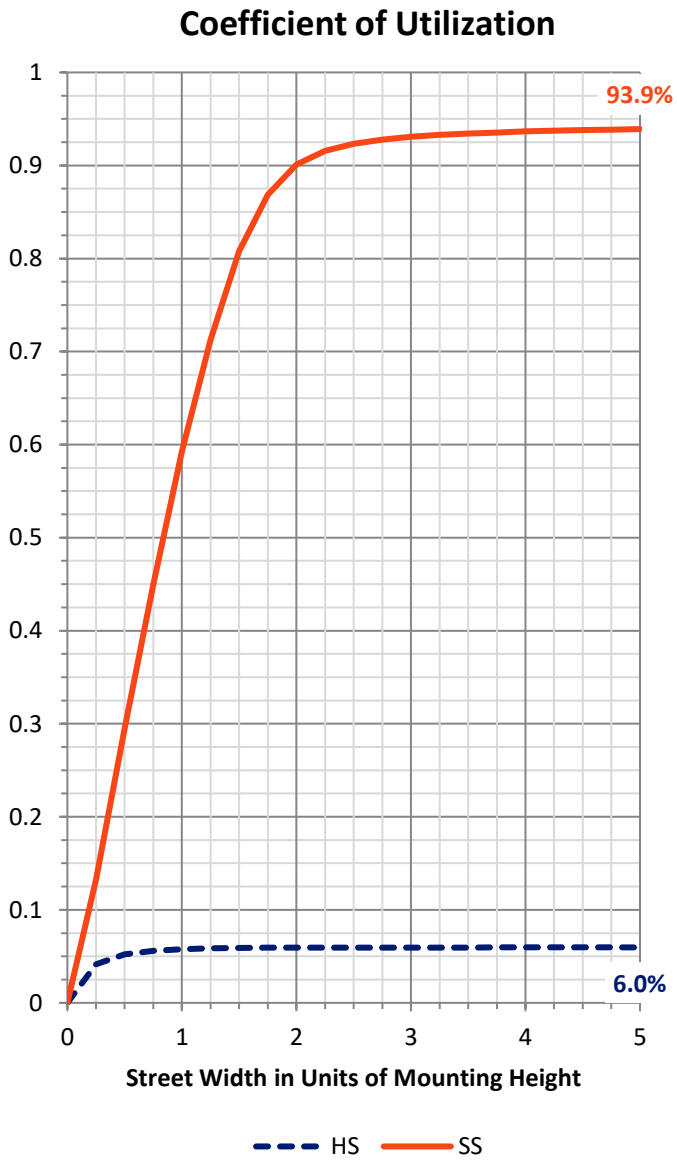
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	275.5	0.0	275.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	4317.5	0.0	4317.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	4593.0	0.0	4593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	1.1
10°-20°	150.4	3.3
20°-30°	261.9	5.7
30°-40°	459.4	10.0
40°-50°	769.0	16.7
50°-60°	1130.4	24.6
60°-70°	1160.6	25.3
70°-80°	573.0	12.5
80°-90°	37.9	0.8
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°	4593.0	100.0
0°-180°	4593.0	100.0



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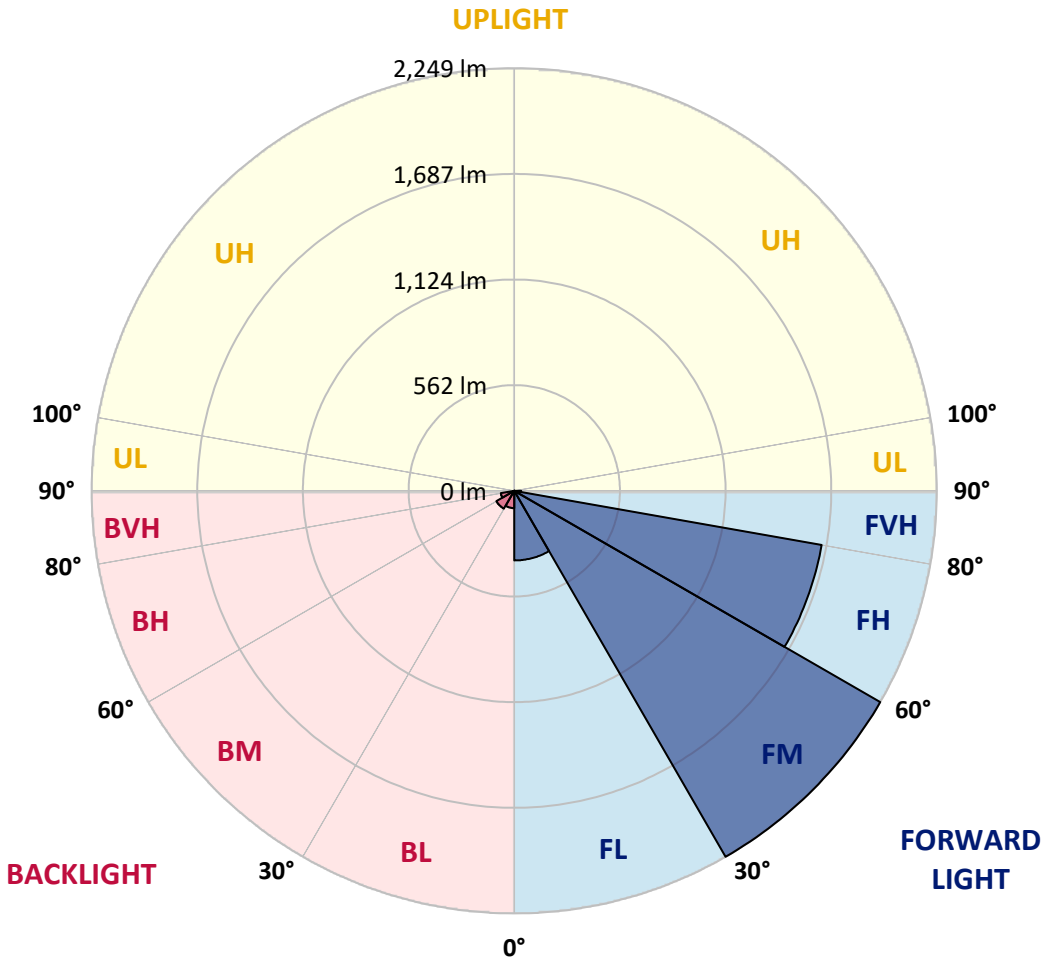
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	370.6	8.1			
FM	(30°-60°)	2249.0	49.0			
FH	(60°-80°)	1661.0	36.2			G1/1800
FVH	(80°-90°)	37.0	0.8			G1/100
BL	(0°-30°)	92.1	2.0	B0/110		
BM	(30°-60°)	109.9	2.4	B0/220		
BH	(60°-80°)	72.6	1.6	B0/110		G0/110
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
Type II Medium



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Scaled Data Report

REPORT NUMBER: P322095
CATALOG NUMBER: GLEON-SA1D-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	522.7	522.7	522.7	522.7	522.7	522.7	522.7	522.7	*522.7*	522.7	522.7
2.5°	615.2	612.6	611.5	606.7	598.4	592.1	579.9	565.7	*563.1*	549.3	532.5
5°	695.0	692.9	691.3	684.6	676.1	660.1	637.9	611.5	*606.5*	580.3	546.7
7.5°	750.7	754.6	754.6	750.2	739.5	727.5	700.3	664.3	*658.0*	617.8	565.7
10°	783.2	788.0	791.7	795.4	793.9	789.1	763.3	722.7	*715.1*	661.9	587.7
12.5°	786.2	791.0	801.5	817.0	832.0	842.9	826.8	787.5	*778.8*	712.9	613.9
15°	769.2	774.2	790.4	820.5	856.9	888.8	894.0	859.3	*850.4*	773.8	646.6
17.5°	739.5	742.8	765.9	807.6	864.8	923.2	954.9	936.3	*928.0*	843.4	683.0
20°	717.5	719.9	740.2	784.9	860.0	944.8	1012.5	1018.1	*1009.4*	918.0	722.5
22.5°	755.3	759.6	760.3	781.4	846.9	955.5	1063.1	1098.6	*1092.1*	997.2	761.4
25°	858.4	863.5	846.9	833.8	858.0	960.3	1106.5	1181.1	*1175.9*	1082.5	800.4
27.5°	994.8	1000.0	978.6	939.6	916.2	978.4	1145.1	1264.9	*1264.6*	1172.8	842.5
30°	1128.7	1134.0	1112.2	1073.1	1019.4	1029.7	1178.5	1352.6	*1353.9*	1266.0	887.2
32.5°	1269.2	1275.8	1253.3	1203.1	1147.1	1118.3	1225.4	1440.7	*1448.1*	1373.9	937.6
35°	1428.9	1429.8	1398.2	1345.6	1281.0	1236.7	1300.6	1539.5	*1557.2*	1507.7	1001.5
37.5°	1585.5	1591.9	1565.9	1483.0	1423.7	1373.5	1412.6	1663.0	*1688.1*	1671.1	1085.1
40°	1701.6	1714.9	1711.2	1621.8	1565.5	1529.7	1551.5	1809.8	*1841.7*	1861.3	1190.5
42.5°	1774.5	1784.5	1801.5	1747.6	1696.6	1702.5	1715.6	1980.8	*2020.1*	2078.1	1311.5
45°	1858.0	1862.8	1877.0	1853.2	1818.8	1878.1	1889.7	2173.5	*2214.7*	2311.3	1445.9
47.5°	1960.1	1971.5	1975.4	1953.6	1937.9	2033.4	2057.4	2348.7	*2406.5*	2561.1	1588.2
50°	2090.1	2093.2	2100.0	2085.8	2070.1	2166.9	2207.9	2532.6	*2585.1*	2811.8	1728.4
52.5°	2217.3	2228.2	2251.8	2242.8	2236.5	2280.6	2342.1	2698.4	*2757.0*	3020.8	1868.5
55°	2254.0	2263.4	2344.7	2400.4	2451.8	2420.6	2470.4	2846.9	*2910.4*	3207.5	2003.3
57.5°	2107.6	2126.6	2267.5	2412.4	2625.9	2638.4	2646.7	2999.4	*3056.3*	3350.6	2143.6
60°	1737.6	1741.3	1972.6	2221.0	2597.1	2828.4	2904.1	3163.2	*3211.0*	3483.9	2311.6
62.5°	1105.2	1142.9	1396.6	1747.4	2292.6	2800.9	3215.4	3411.1	*3428.5*	3643.8	2552.4
65°	526.4	550.8	733.7	1079.6	1660.6	2449.0	3430.3	3859.4	*3867.2*	3960.8	2874.2
67.5°	291.5	303.2	390.3	581.2	970.8	1731.9	3343.4	4390.4	*4397.8*	4284.6	3156.5
69°	*228.0*	*238.0*	*306.5*	*438.1*	*658.2*	*1244.8*	*3025.6*	*4545.9*	*4567.9*	*4377.3*	*3166.5*
70°	193.5	203.3	264.0	370.0	529.2	961.8	2693.1	4507.3	*4530.6*	4368.5	3091.7
72.5°	118.5	124.1	175.8	260.5	354.7	483.9	1660.8	3811.8	*3851.3*	4007.3	2657.1
75°	79.8	82.9	109.9	179.8	253.7	249.1	862.8	2686.8	*2772.3*	3117.2	1962.5
77.5°	57.2	60.0	73.7	116.3	177.8	164.5	390.7	1669.8	*1688.1*	1869.6	1070.3
80°	32.5	35.1	52.1	69.2	120.6	109.7	155.3	797.6	*806.7*	801.7	357.3
82.5°	17.0	19.2	28.6	45.6	77.4	71.8	64.6	267.0	*268.3*	223.2	78.3
85°	3.3	3.9	14.2	31.2	39.9	31.2	26.4	62.6	*63.9*	56.5	19.4
87.5°	0.0	0.2	5.7	7.0	7.9	8.1	8.5	12.2	*13.1*	17.7	5.2
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: P322095
CATALOG NUMBER: GLEON-SA1D-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	522.7	522.7	522.7	522.7	522.7	522.7	522.7	522.7	522.7	522.7	522.7
2.5°	525.1	517.2	502.2	484.7	471.2	457.9	447.4	436.5	432.6	430.6	430.4
5°	530.3	513.8	481.9	449.2	422.3	397.0	378.9	361.7	353.6	349.9	348.4
7.5°	539.1	512.4	461.2	411.2	372.6	341.0	315.9	297.1	287.7	283.8	282.3
10°	549.3	510.7	437.0	371.1	321.8	289.1	264.2	245.6	235.4	231.0	228.8
12.5°	561.3	507.6	409.0	330.5	278.4	245.6	215.5	192.6	180.9	175.8	173.4
15°	576.1	504.6	379.8	292.3	240.2	200.3	167.3	151.8	149.4	148.6	148.8
17.5°	590.8	499.8	348.0	254.6	200.0	156.4	139.6	138.7	139.2	139.2	139.2
20°	603.9	488.9	313.3	222.3	161.9	132.0	128.5	127.0	125.9	125.0	123.9
22.5°	614.1	474.3	279.9	190.2	132.2	120.9	115.4	110.6	106.7	104.1	102.8
25°	621.1	454.9	249.4	159.5	118.9	109.9	100.1	92.1	86.0	82.2	80.7
27.5°	626.3	433.9	222.1	133.5	109.7	97.3	84.4	74.8	68.5	65.2	63.9
30°	630.0	410.1	198.1	117.4	99.5	84.0	70.2	60.9	56.3	54.5	53.7
32.5°	633.5	383.7	175.4	109.7	89.9	71.8	58.9	51.7	48.9	46.7	46.0
35°	642.2	359.3	153.8	101.7	80.1	61.3	50.6	45.4	42.5	41.2	40.8
37.5°	663.0	341.2	133.1	93.4	70.2	53.0	44.3	40.6	38.0	36.6	36.2
40°	696.3	332.0	115.6	84.4	60.6	46.7	40.1	36.6	33.8	31.9	31.4
42.5°	745.4	333.3	103.4	75.5	53.0	41.7	36.2	32.1	29.0	27.3	26.8
45°	805.0	342.9	94.9	66.8	46.7	37.7	31.9	27.5	24.7	23.1	22.7
47.5°	869.6	358.4	87.9	58.9	41.7	34.0	27.5	22.9	20.5	19.2	19.0
50°	937.6	373.5	80.7	51.3	37.3	30.3	23.1	19.0	17.0	15.9	15.5
52.5°	1006.6	390.9	74.2	44.3	33.6	26.0	19.2	15.5	14.0	13.1	12.7
55°	1080.7	404.0	67.8	38.8	29.9	22.0	15.9	12.9	11.6	10.5	10.3
57.5°	1168.0	424.3	61.3	33.6	25.5	18.3	13.1	10.3	9.2	8.1	7.9
60°	1285.8	448.1	54.3	29.7	20.9	15.1	10.7	8.3	7.0	6.1	5.9
62.5°	1441.1	474.5	45.6	26.0	17.0	12.2	8.5	6.5	5.0	3.9	3.9
65°	1638.1	517.5	37.3	21.8	14.0	10.0	6.5	4.8	2.8	1.7	1.7
67.5°	1753.1	524.9	30.1	17.9	11.3	8.5	5.5	3.3	0.9	0.2	0.0
69°	*1716.2*	*481.9*	*25.5*	*15.3*	*9.8*	*8.1*	*5.0*	*2.4*	*0.4*	*0.0*	*0.0*
70°	1646.8	440.7	22.5	13.5	8.9	7.6	4.8	1.7	0.4	0.0	0.0
72.5°	1360.8	313.7	17.0	10.0	6.5	6.8	4.4	1.1	0.4	0.0	0.0
75°	991.3	190.7	12.2	7.0	4.1	5.0	3.1	0.4	0.2	0.0	0.0
77.5°	551.5	89.9	7.6	3.9	2.6	3.1	1.5	0.0	0.0	0.0	0.0
80°	179.1	24.4	3.5	2.2	1.5	1.7	0.7	0.0	0.0	0.0	0.0
82.5°	33.2	7.0	2.0	1.1	0.4	0.4	0.0	0.0	0.0	0.0	0.0
85°	7.2	2.8	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.9	0.2	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

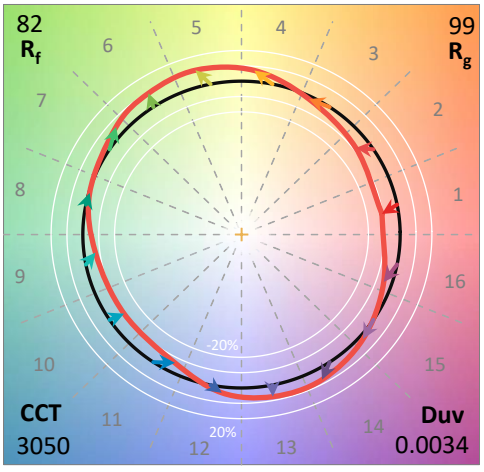
Test Information

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

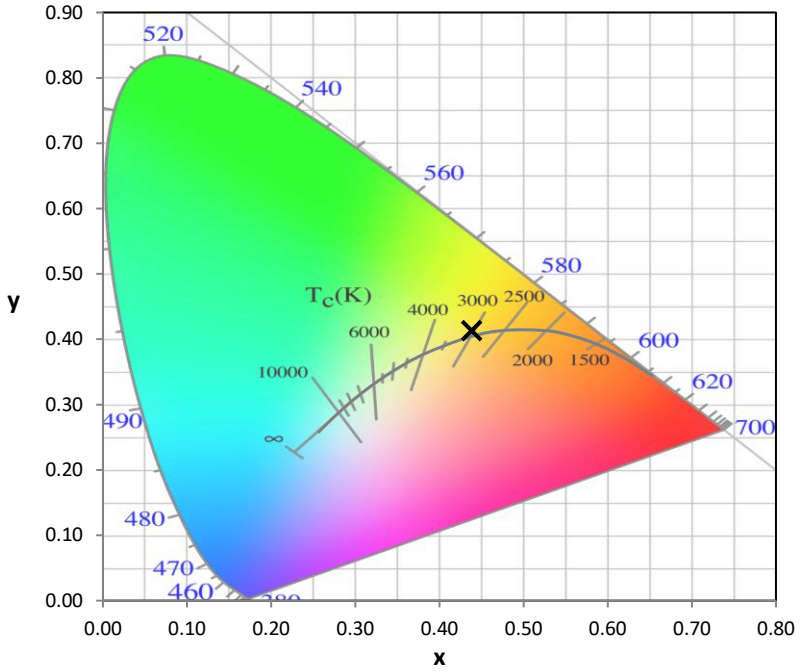
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

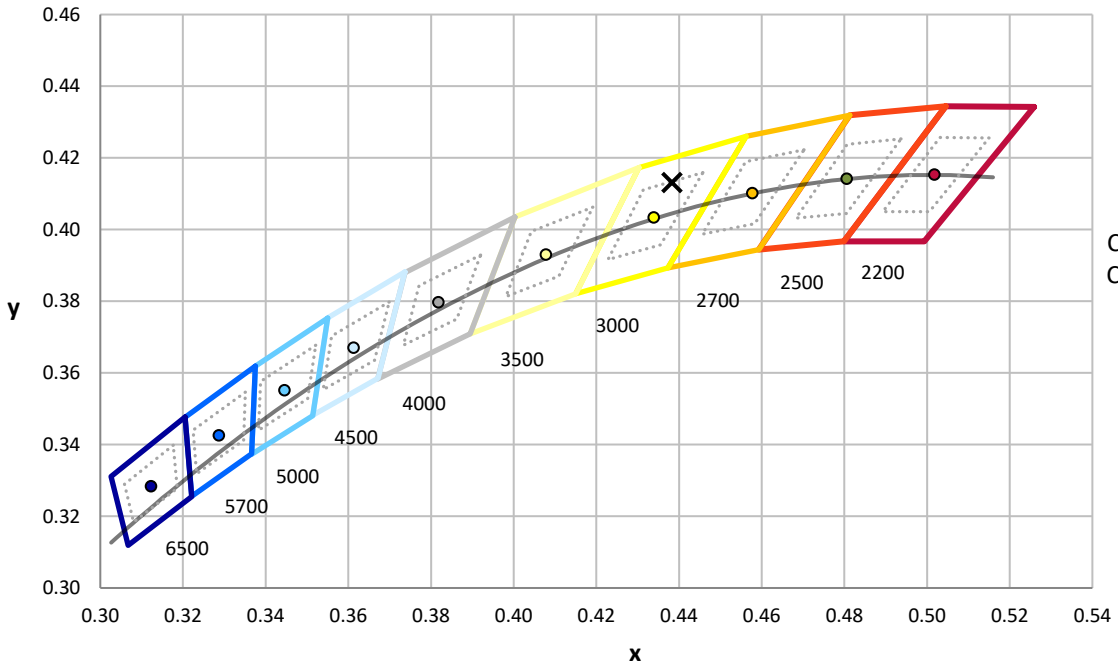
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

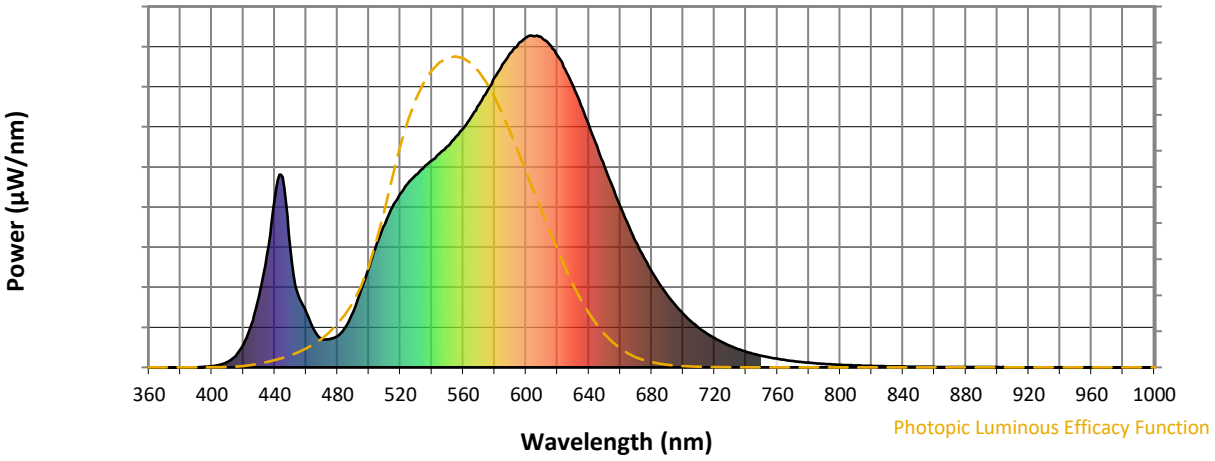


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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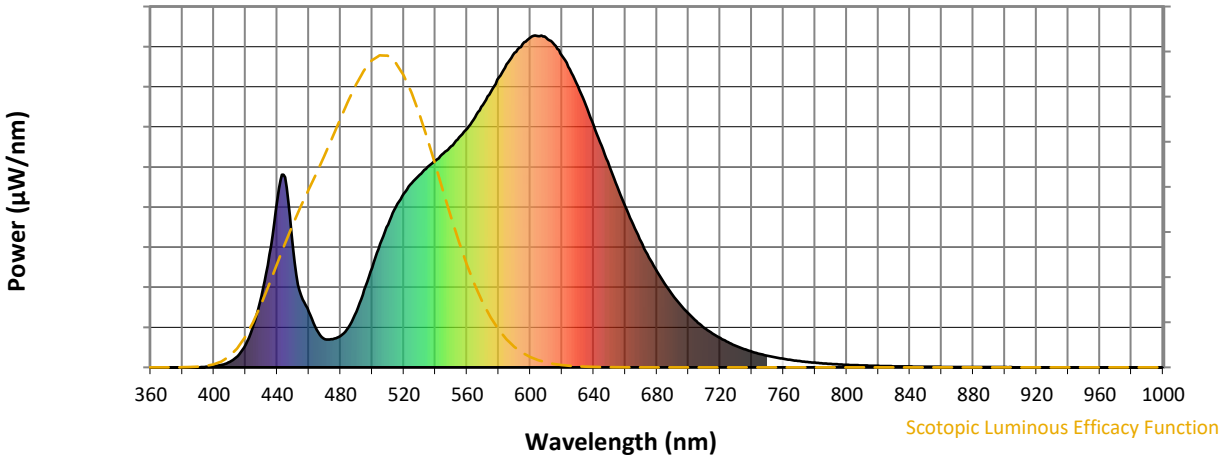
Scotopic Flux vs. Wavelength



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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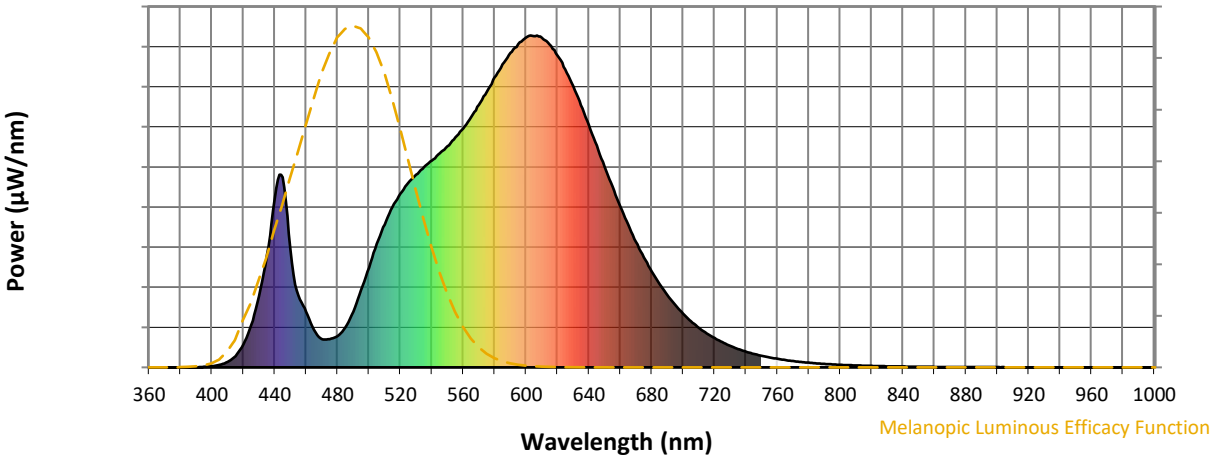
Melanopic Flux vs. Wavelength



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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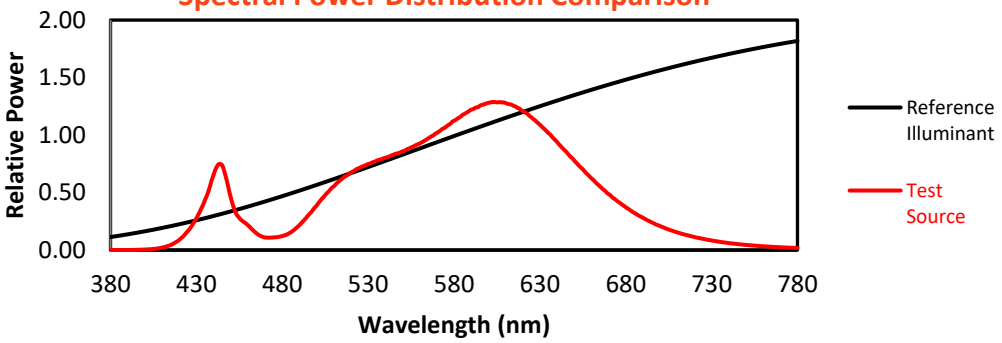
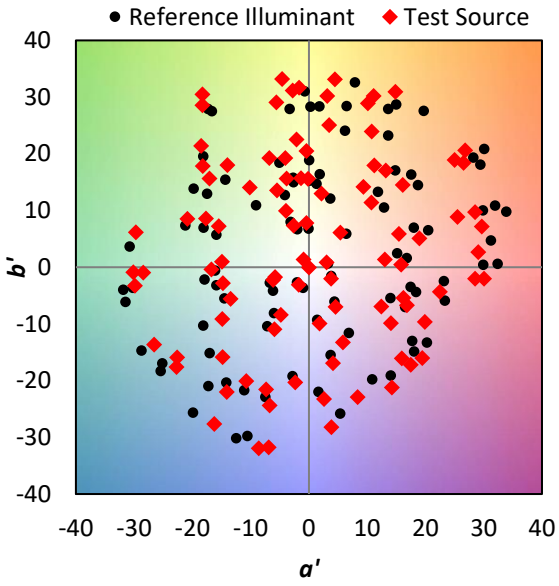
Summary

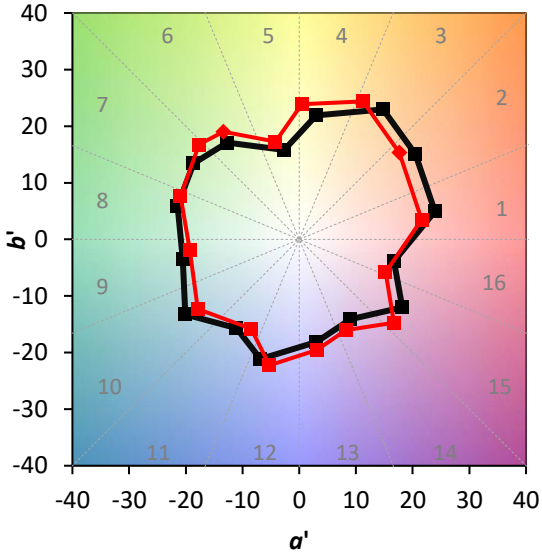
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

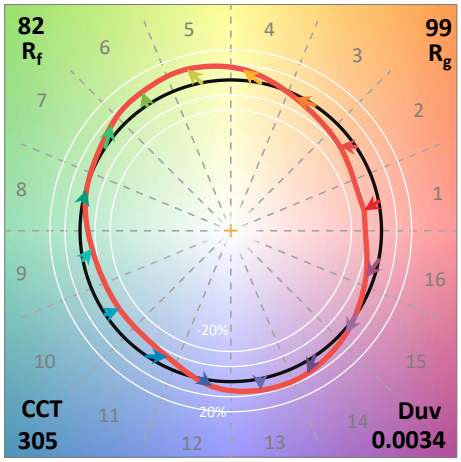
Spectral Power Distribution Comparison

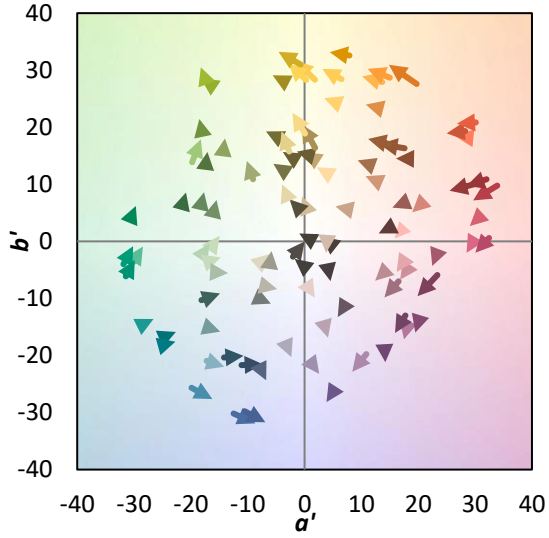


Color Vector Graphics









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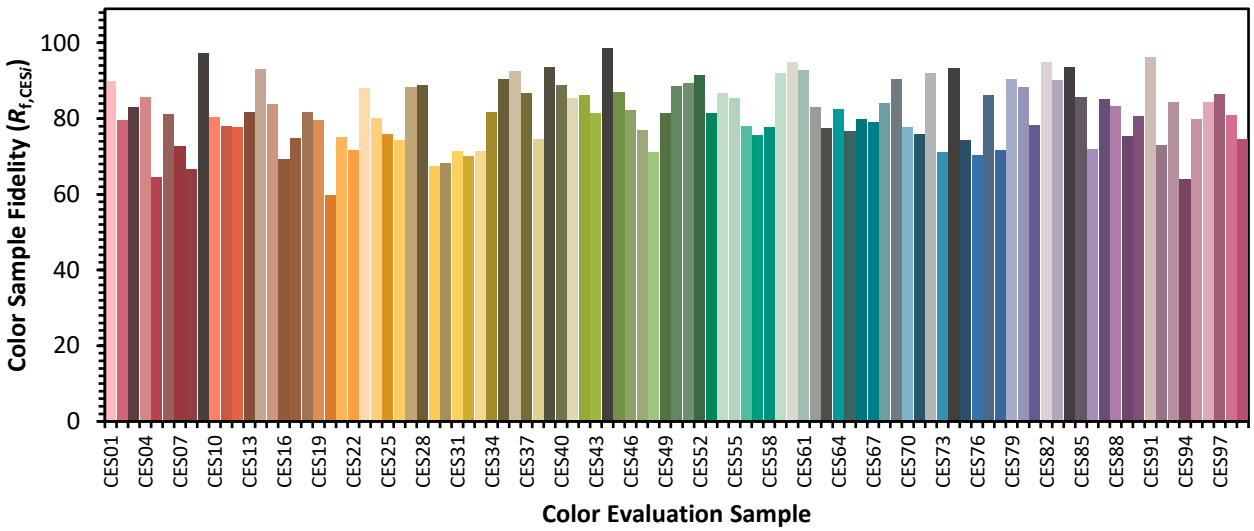
Individual Sample Fidelity Index ($R_{f,i}$)

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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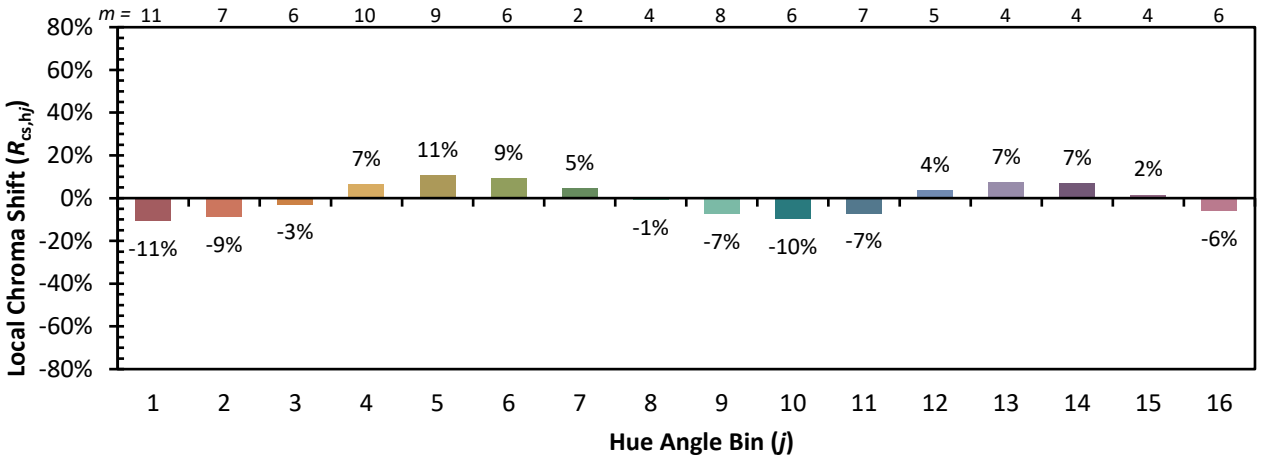
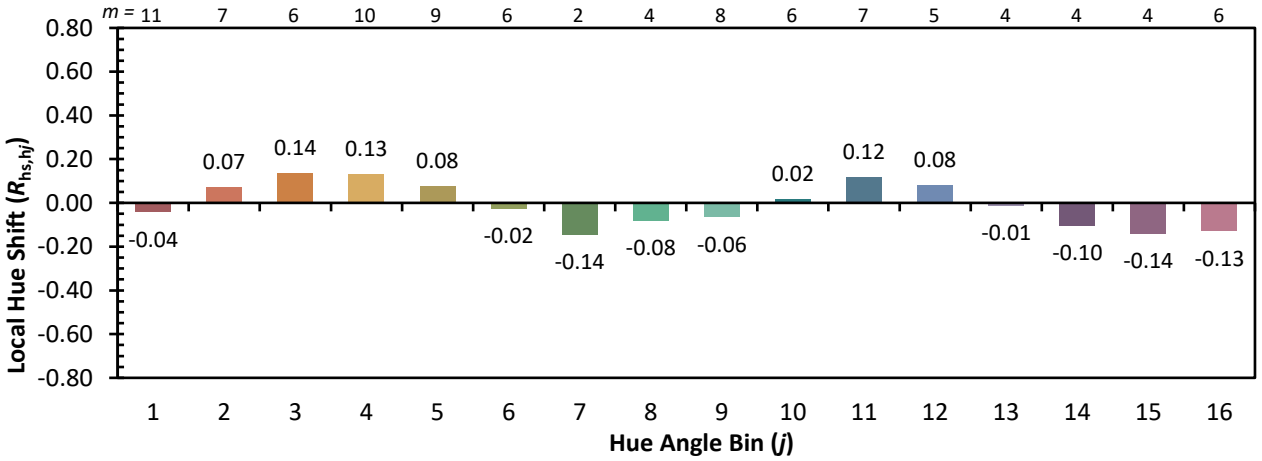
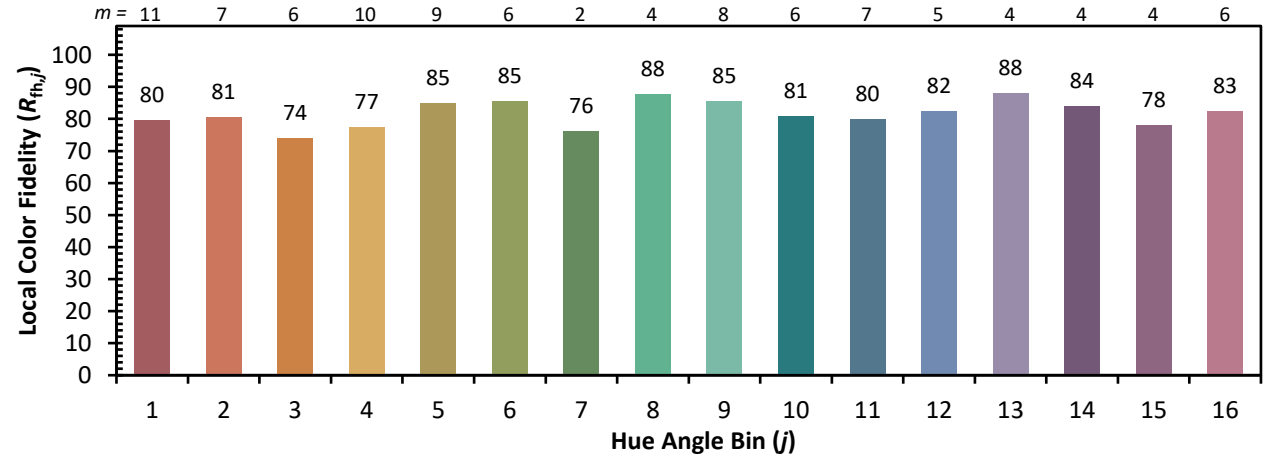
Color Rendition by Hue-Angle Bin







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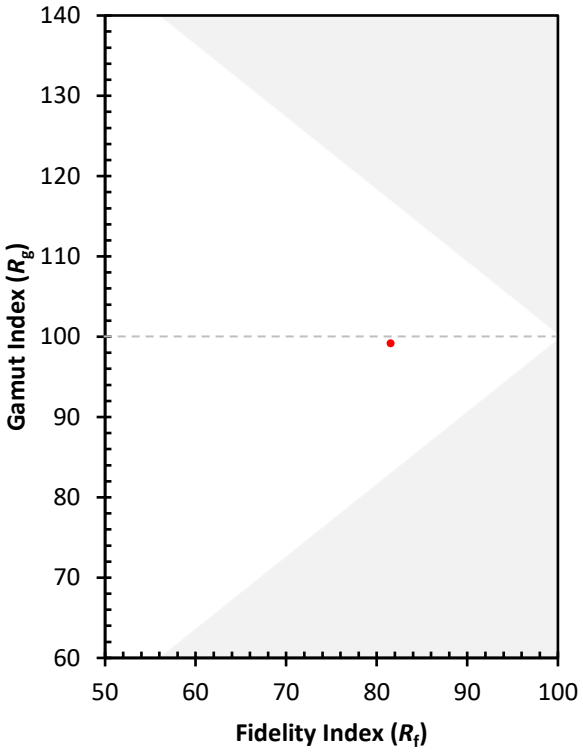
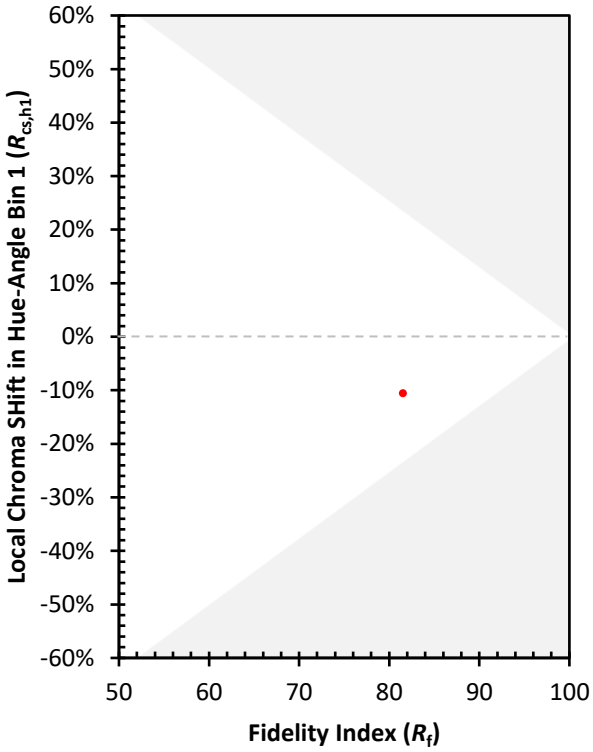
Measure Comparisons





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