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: P321773

Luminaire Tested: **GLEON-SA9C-830-U-T3R-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:	P321773
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA9C-830-U-T3R-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	38646 lumens
Efficiency:	N/A
Efficacy:	77.1 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):	501
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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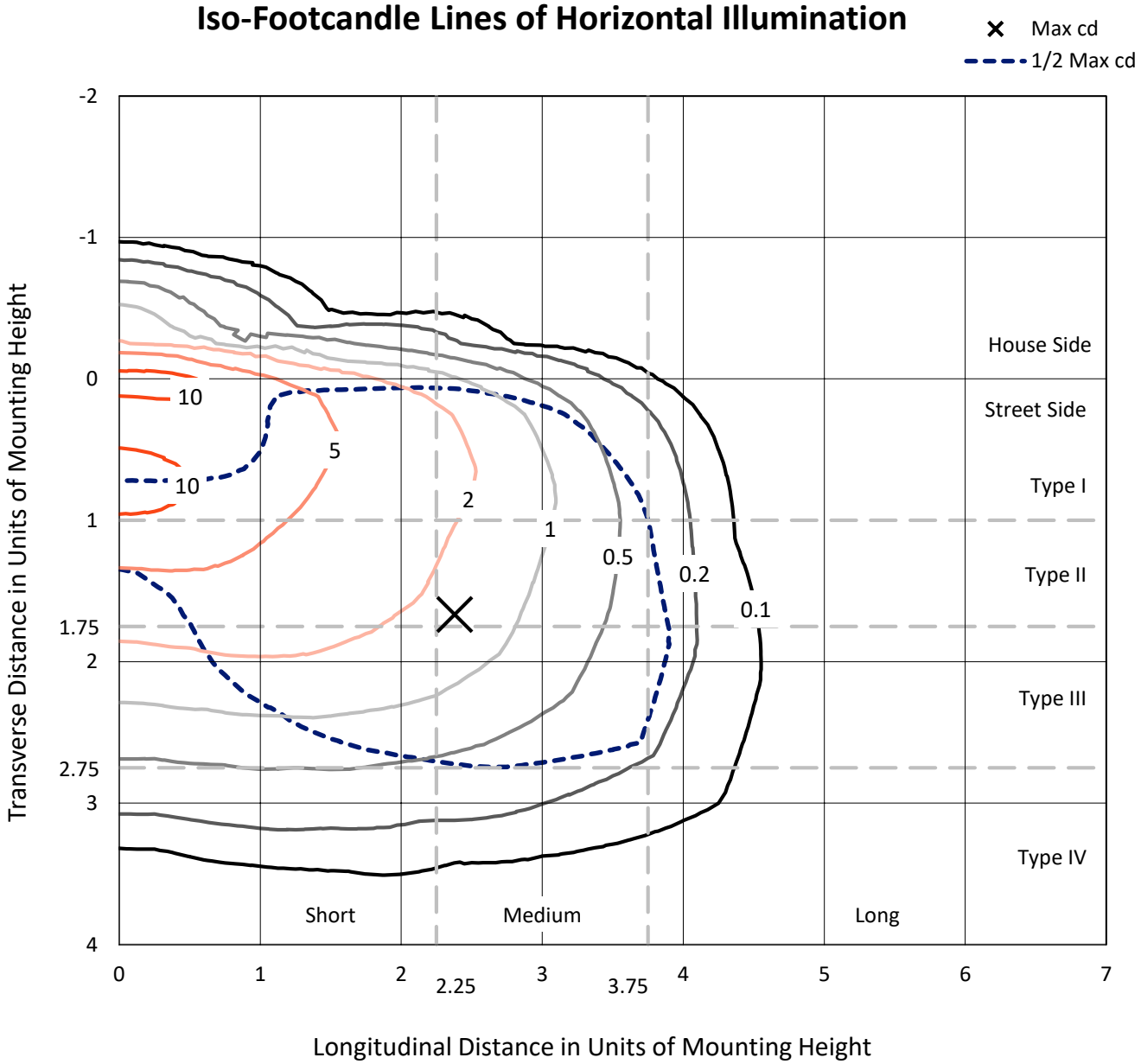
Scaled Data Report

REPORT NUMBER: P321773
CATALOG NUMBER: GLEON-SA9C-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
Type III - Medium - N/A

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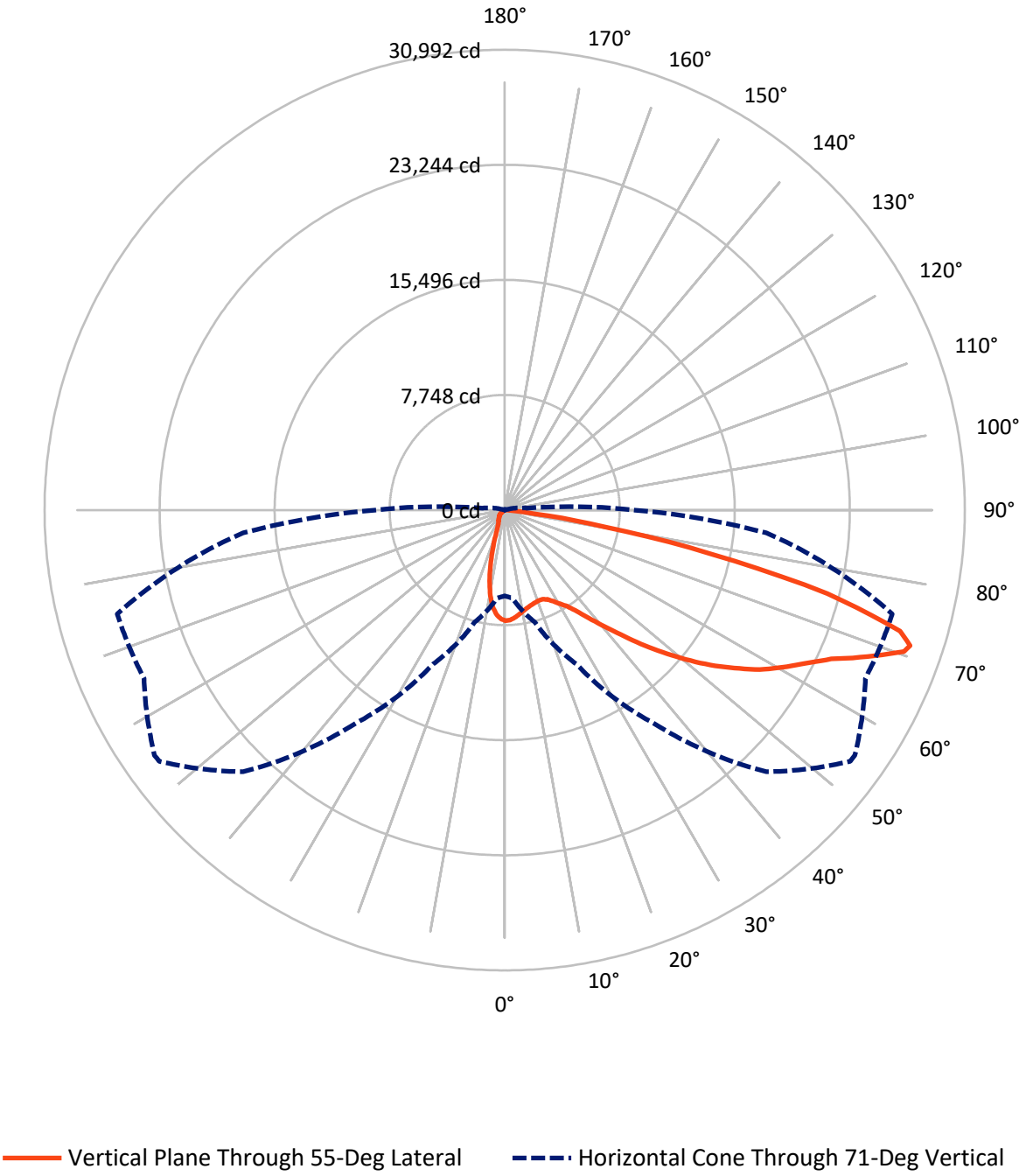
Luminous Intensity Polar Plot



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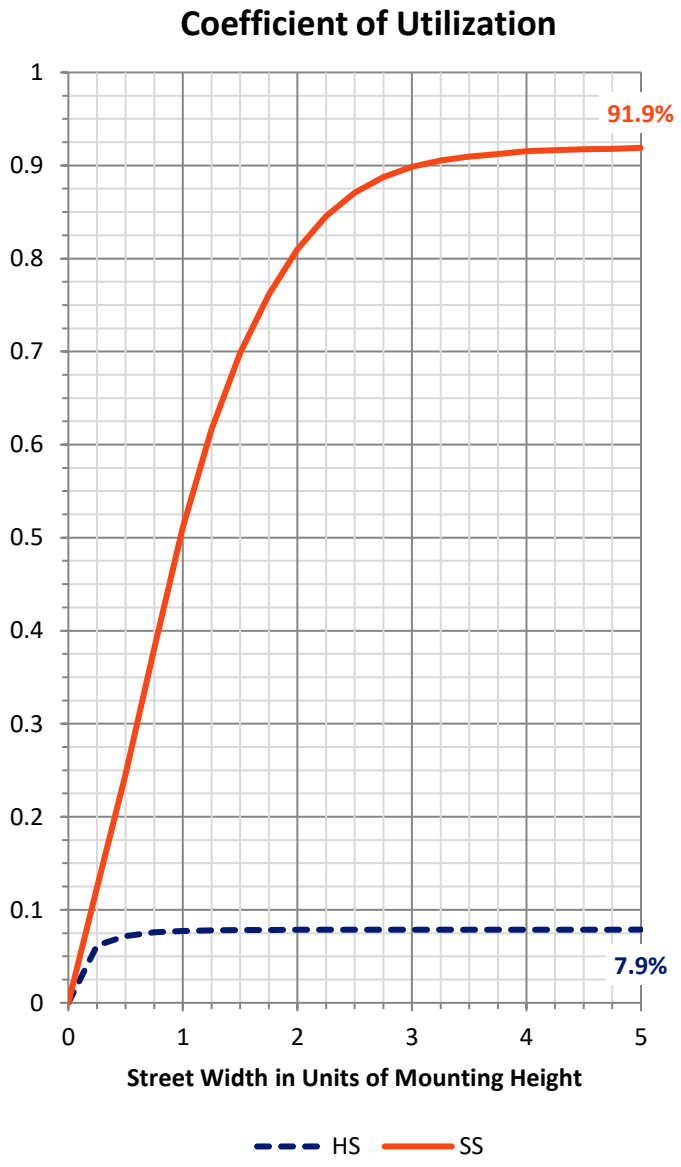
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3059.7	0.0	3059.7
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	35586.3	0.0	35586.3
	% Fixture	92.1	0.0	92.1
Total	Lumens	38646.0	0.0	38646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.5	1.6
10°-20°	1434.6	3.7
20°-30°	2305.5	6.0
30°-40°	3917.1	10.1
40°-50°	6079.9	15.7
50°-60°	8174.2	21.2
60°-70°	9999.8	25.9
70°-80°	5846.7	15.1
80°-90°	252.7	0.7
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°	38646.0	100.0
0°-180°	38646.0	100.0



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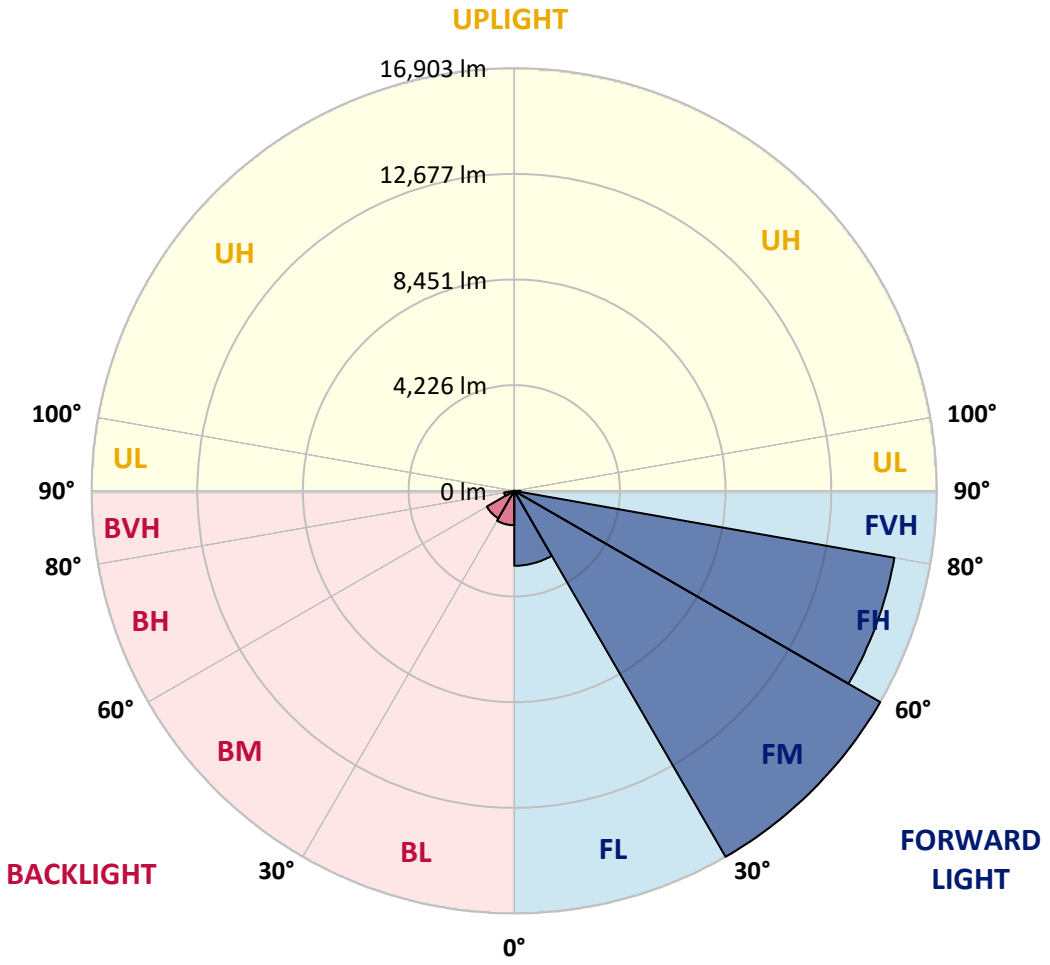
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2998.4	7.8			
FM	(30°-60°)	16902.6	43.7			
FH	(60°-80°)	15436.5	39.9			G5
FVH	(80°-90°)	248.7	0.6			G3/500
BL	(0°-30°)	1377.2	3.6	B3/2500		
BM	(30°-60°)	1268.6	3.3	B2/2500		
BH	(60°-80°)	409.9	1.1	B1/500		G1/500
BVH	(80°-90°)	4.0	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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REPORT NUMBER: P321773
CATALOG NUMBER: GLEON-SA9C-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7453.0	7453.0	7453.0	7453.0	7453.0	7453.0	7453.0	7453.0	7453.0	7453.0	7453.0
2.5°	7234.4	7243.1	7274.3	7288.2	7321.1	7376.7	7404.4	7406.2	7451.3	7468.6	7482.5
5°	6722.5	6774.5	6826.6	6882.1	6982.8	7116.4	7248.3	7260.4	7406.2	7513.8	7571.0
7.5°	6281.7	6328.6	6391.0	6479.5	6621.8	6831.8	7052.2	7078.2	7354.1	7598.8	7727.2
10°	5828.8	5867.0	5957.2	6087.4	6283.4	6564.6	6861.3	6904.7	7307.3	7713.3	7938.9
12.5°	5344.7	5367.2	5476.5	5663.9	5952.0	6309.5	6699.9	6757.2	7277.8	7845.2	8188.8
15°	4976.8	4987.2	5091.3	5285.7	5615.4	6080.4	6575.0	6644.4	7284.7	8003.1	8461.2
17.5°	4883.1	4888.3	4943.8	5077.4	5369.0	5875.7	6476.1	6561.1	7305.5	8157.5	8735.4
20°	5263.1	5226.7	5169.4	5148.6	5273.5	5752.4	6417.1	6512.5	7333.3	8294.6	8981.8
22.5°	6306.0	6198.4	5960.7	5643.1	5450.5	5761.1	6432.7	6528.1	7421.8	8463.0	9266.4
25°	7853.9	7704.6	7300.3	6675.6	6075.2	6011.0	6562.8	6660.0	7593.6	8664.2	9538.8
27.5°	9615.2	9467.7	8973.1	8081.2	7057.4	6505.6	6861.3	6951.5	7848.7	8843.0	9747.1
30°	11301.9	11260.2	10677.2	9663.8	8292.9	7307.3	7246.5	7322.9	8037.8	8950.6	9911.9
32.5°	12731.7	12665.8	12197.3	11211.6	9707.1	8270.3	7699.4	7722.0	8180.1	9089.4	10127.1
35°	14057.5	13975.9	13564.7	12632.8	11157.8	9446.9	8397.0	8364.0	8490.7	9368.8	10439.4
37.5°	15214.9	15289.5	14833.2	13946.4	12459.3	10670.2	9337.5	9238.6	8976.6	9823.4	10892.3
40°	16183.2	16183.2	15945.5	15206.2	13864.9	11935.2	10401.3	10271.1	9707.1	10524.5	11466.7
42.5°	16532.0	16606.6	16695.1	16276.9	15122.9	13250.6	11586.5	11451.1	10736.2	11518.8	12192.1
45°	16552.8	16670.8	17123.7	17122.0	16259.6	14557.2	12922.6	12858.4	12055.0	12795.9	13090.9
47.5°	16259.6	16407.1	17153.2	17576.6	17160.2	15773.7	14383.7	14303.9	13604.6	14361.2	14031.5
50°	15806.6	15969.8	16837.4	17755.4	17772.7	16832.2	15922.9	15803.2	15310.4	16150.2	15003.2
52.5°	14996.3	15312.1	16554.6	17797.0	18175.3	17746.7	17387.5	17335.4	17219.2	17873.4	15777.1
55°	13262.7	13613.3	15844.8	17810.9	18548.4	18557.1	18760.1	18774.0	19008.2	19483.7	16353.3
57.5°	12443.7	12641.5	14605.8	17876.8	19101.9	19476.8	20158.7	20266.3	20629.0	21012.5	17010.9
60°	11928.3	12162.6	13995.0	17786.6	19971.3	20682.8	21455.0	21491.4	21880.1	22589.9	17901.1
62.5°	11517.0	11747.8	13609.8	17439.5	20948.3	22133.5	22721.7	22725.2	23016.7	24469.2	18912.8
65°	10501.9	10696.3	12830.6	17049.1	21593.8	23568.5	24193.2	24170.7	24408.4	26450.8	20087.6
67.5°	9033.9	9183.1	11239.4	15568.9	21350.9	24873.5	26414.4	26339.8	26051.7	28163.6	20549.2
70°	6984.5	7038.3	8858.6	12974.7	19074.2	25375.0	28560.9	28522.8	27059.9	27856.4	18857.3
71°	5773.3	5950.3	7807.0	11451.1	17548.9	24911.7	28769.2	28791.7	26806.6	27020.0	17692.9
72.5°	3352.6	3503.5	5658.7	8794.4	14899.1	22978.6	27689.8	27852.9	25623.1	24576.7	15112.5
75°	718.4	768.7	2098.0	4256.6	8195.7	16105.1	21855.8	22437.1	20884.1	16719.4	9108.5
77.5°	499.8	539.7	898.9	1931.4	2708.8	7958.0	13576.8	14232.8	12476.7	6283.4	2915.3
80°	395.6	440.8	701.1	954.4	732.3	2566.5	6359.8	6760.6	4161.2	1402.1	491.1
82.5°	220.4	262.0	546.6	515.4	281.1	487.6	1780.4	2012.9	832.9	282.9	116.3
85°	64.2	78.1	352.3	374.8	119.7	93.7	303.7	376.6	157.9	74.6	52.1
87.5°	0.0	0.0	170.1	144.0	34.7	13.9	27.8	31.2	31.2	31.2	34.7
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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CATALOG NUMBER: GLEON-SA9C-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7453.0	7453.0	7453.0	7453.0	7453.0	7453.0	7453.0	7453.0	7453.0	7453.0	7453.0
2.5°	7482.5	7494.7	7451.3	7394.0	7333.3	7258.7	7180.6	7119.8	7118.1	7088.6	7059.1
5°	7574.5	7567.5	7447.8	7265.6	7050.4	6826.6	6613.1	6371.9	6292.1	6193.2	6160.2
7.5°	7744.5	7696.0	7442.6	7043.5	6571.5	6103.0	5618.8	5131.2	4923.0	4735.6	4702.6
10°	7958.0	7866.0	7409.6	6710.3	5844.4	4980.2	4249.7	3586.8	3295.3	3071.4	3061.0
12.5°	8180.1	8039.5	7317.7	6207.1	4891.7	3677.1	2835.4	2183.0	1940.0	1783.9	1797.7
15°	8412.6	8202.7	7119.8	5528.6	3807.2	2495.3	1742.2	1358.7	1261.5	1221.6	1232.0
17.5°	8650.4	8315.5	6843.9	4711.3	2736.5	1610.3	1206.0	1098.4	1098.4	1107.1	1110.6
20°	8856.9	8376.2	6437.9	3795.1	1855.0	1173.0	1055.0	1039.4	1048.1	1062.0	1063.7
22.5°	9061.6	8379.7	5908.6	2866.7	1298.0	1027.3	1004.7	997.8	1003.0	1018.6	1020.3
25°	9228.2	8338.0	5245.7	2039.0	1036.0	968.3	957.9	954.4	957.9	977.0	977.0
27.5°	9295.9	8187.0	4437.1	1433.3	928.4	902.3	898.9	902.3	907.6	921.4	923.2
30°	9302.8	7923.3	3555.6	1037.7	841.6	813.8	820.8	832.9	827.7	824.3	827.7
32.5°	9320.2	7617.9	2696.6	853.8	768.7	725.3	716.7	716.7	695.8	683.7	676.8
35°	9377.4	7258.7	1955.7	767.0	694.1	643.8	610.8	572.6	532.7	511.9	506.7
37.5°	9467.7	6882.1	1400.4	709.7	628.2	570.9	508.4	440.8	383.5	367.9	367.9
40°	9632.5	6493.4	1036.0	664.6	576.1	505.0	411.3	322.8	270.7	262.0	262.0
42.5°	9892.8	6083.9	826.0	624.7	531.0	437.3	314.1	234.3	196.1	190.9	189.1
45°	10163.5	5632.7	721.9	586.5	482.4	359.2	232.5	173.5	151.0	145.8	145.8
47.5°	10434.2	5152.0	671.6	550.1	435.6	279.4	173.5	137.1	126.7	126.7	128.4
50°	10663.3	4650.5	635.1	510.2	374.8	211.7	137.1	116.3	112.8	119.7	121.5
52.5°	10720.5	4157.7	590.0	459.8	300.2	161.4	112.8	102.4	102.4	102.4	102.4
55°	10685.8	3776.0	531.0	397.4	222.1	128.4	97.2	90.2	88.5	88.5	88.5
57.5°	10803.8	3550.4	425.1	308.9	159.6	104.1	85.0	79.8	76.4	74.6	74.6
60°	11041.6	3402.9	303.7	222.1	119.7	86.8	72.9	67.7	62.5	59.0	59.0
62.5°	11357.4	3274.5	225.6	164.9	92.0	69.4	60.7	55.5	48.6	45.1	45.1
65°	11600.3	3045.4	171.8	123.2	69.4	55.5	46.9	45.1	34.7	31.2	29.5
67.5°	11229.0	2542.2	138.8	90.2	52.1	43.4	36.4	34.7	20.8	17.4	17.4
70°	9630.8	1770.0	111.1	65.9	38.2	34.7	29.5	22.6	15.6	13.9	13.9
71°	*8733.7*	*1478.5*	*100.6*	*55.5*	*33.0*	*33.0*	*27.8*	*19.1*	*13.9*	*12.1*	*12.1*
72.5°	7255.2	1049.8	85.0	43.4	29.5	34.7	29.5	17.4	13.9	12.1	10.4
75°	4211.5	439.0	59.0	29.5	22.6	41.6	38.2	15.6	10.4	8.7	8.7
77.5°	1266.8	161.4	33.0	19.1	17.4	36.4	43.4	13.9	5.2	1.7	1.7
80°	230.8	69.4	20.8	12.1	12.1	22.6	33.0	6.9	0.0	0.0	0.0
82.5°	81.6	34.7	12.1	6.9	5.2	10.4	15.6	0.0	0.0	0.0	0.0
85°	46.9	24.3	6.9	3.5	0.0	1.7	3.5	0.0	0.0	0.0	0.0
87.5°	31.2	6.9	0.0	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

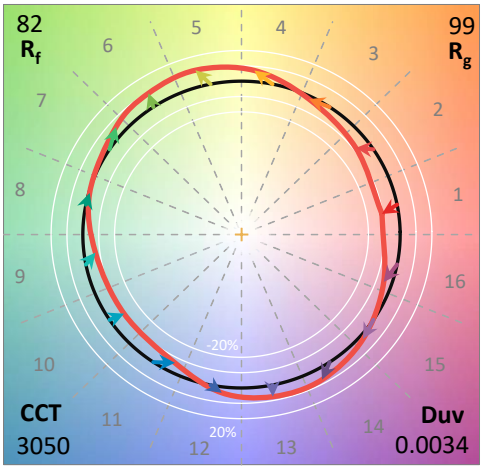
Test Information

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

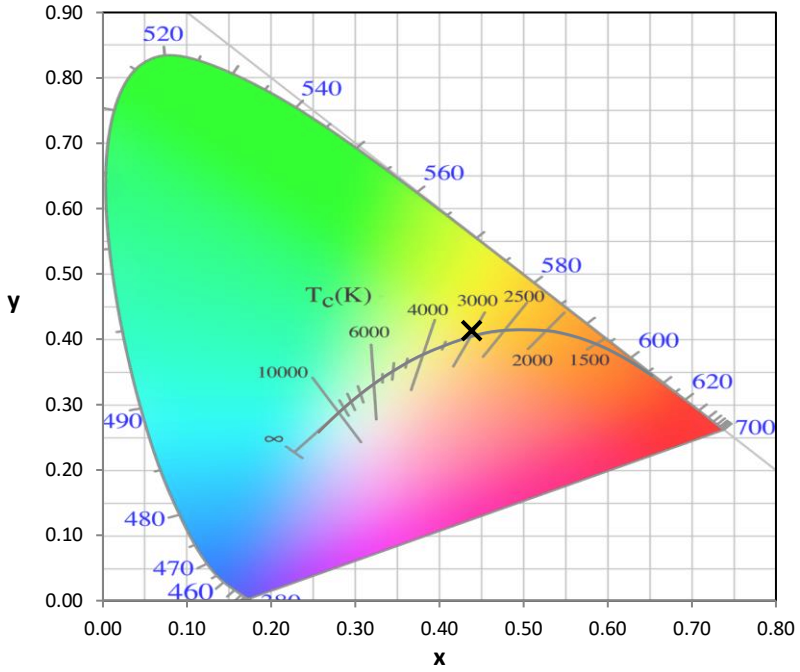
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

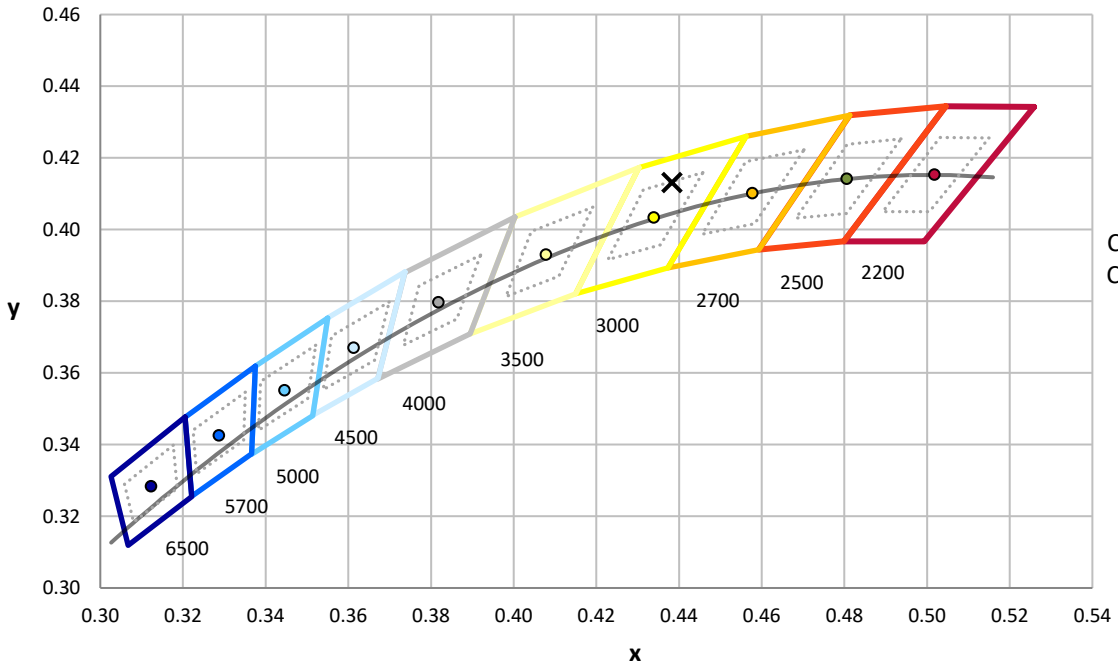
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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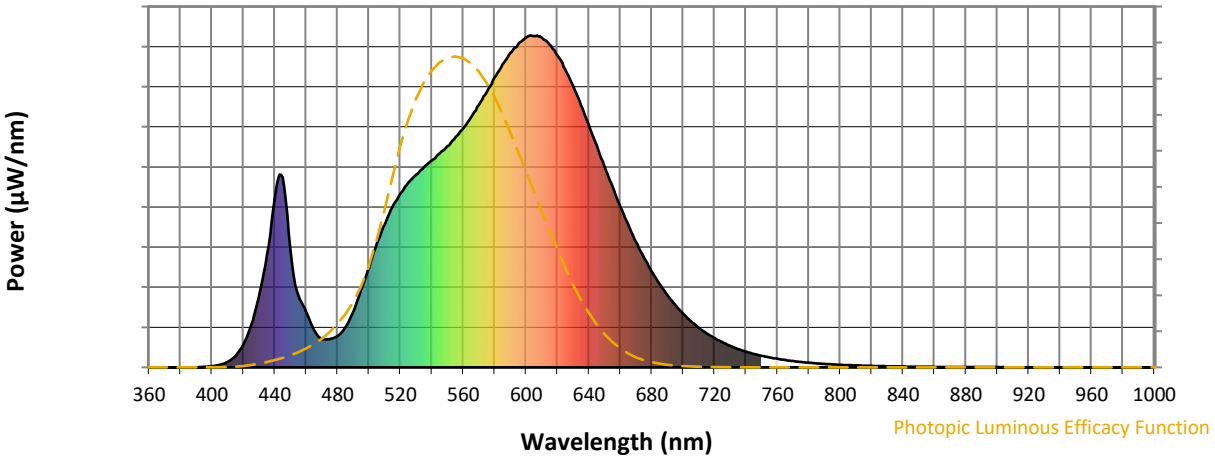
Photopic Flux vs. Wavelength



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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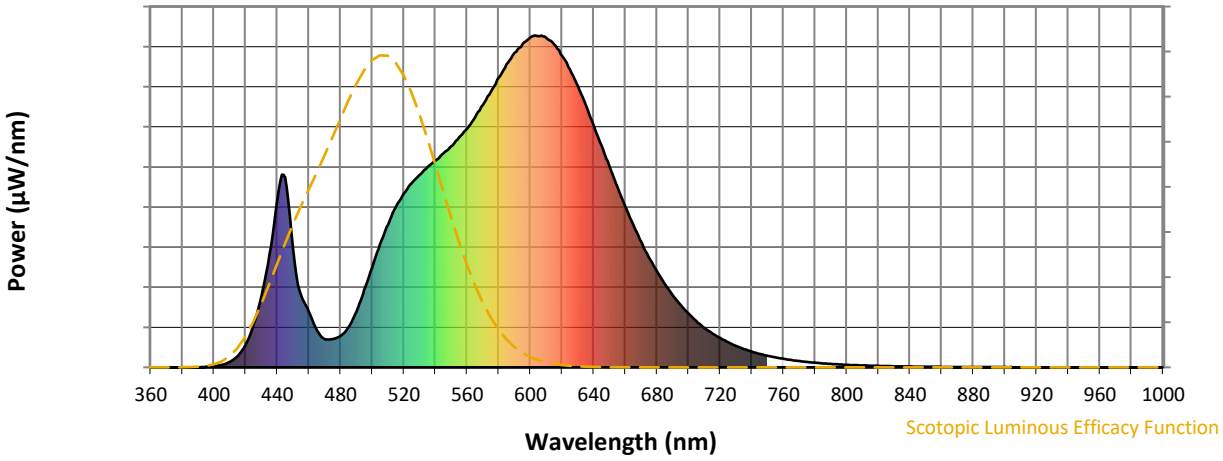
Scotopic Flux vs. Wavelength



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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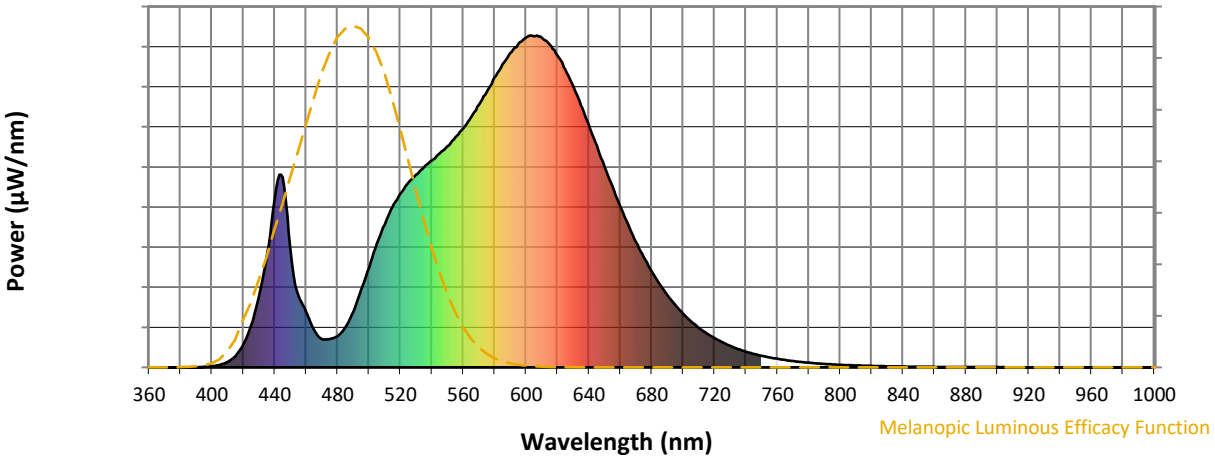
Melanopic Flux vs. Wavelength



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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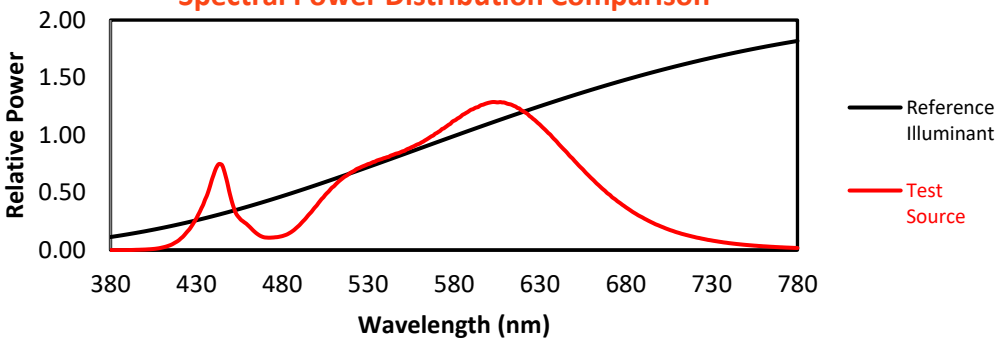
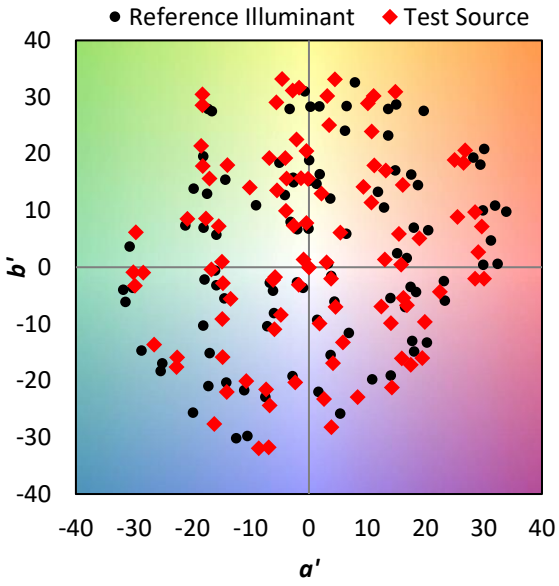
Summary

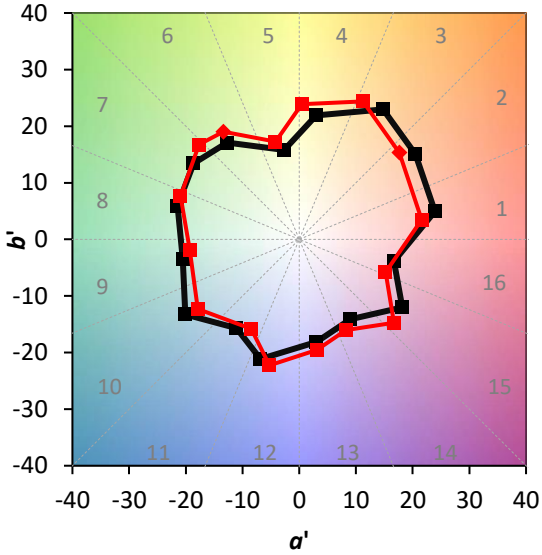
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

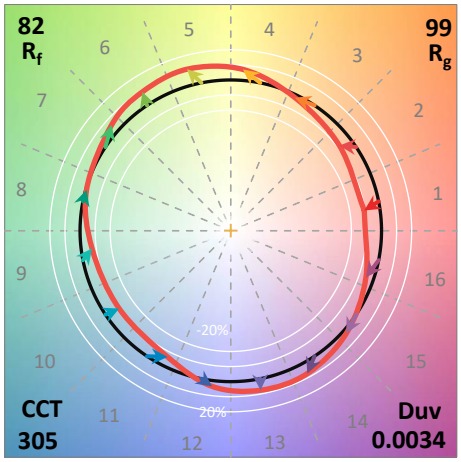
Spectral Power Distribution Comparison

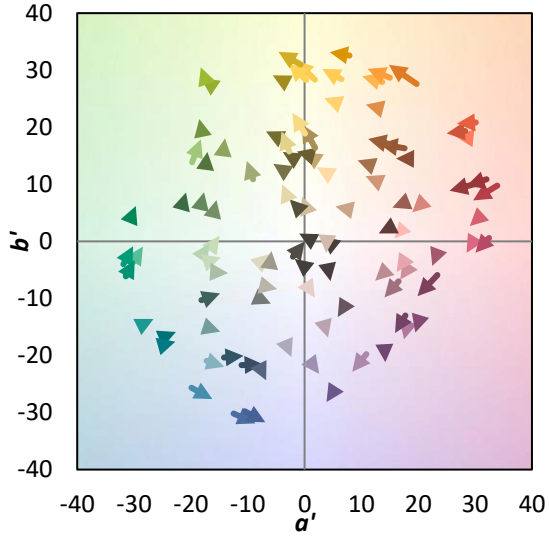


Color Vector Graphics









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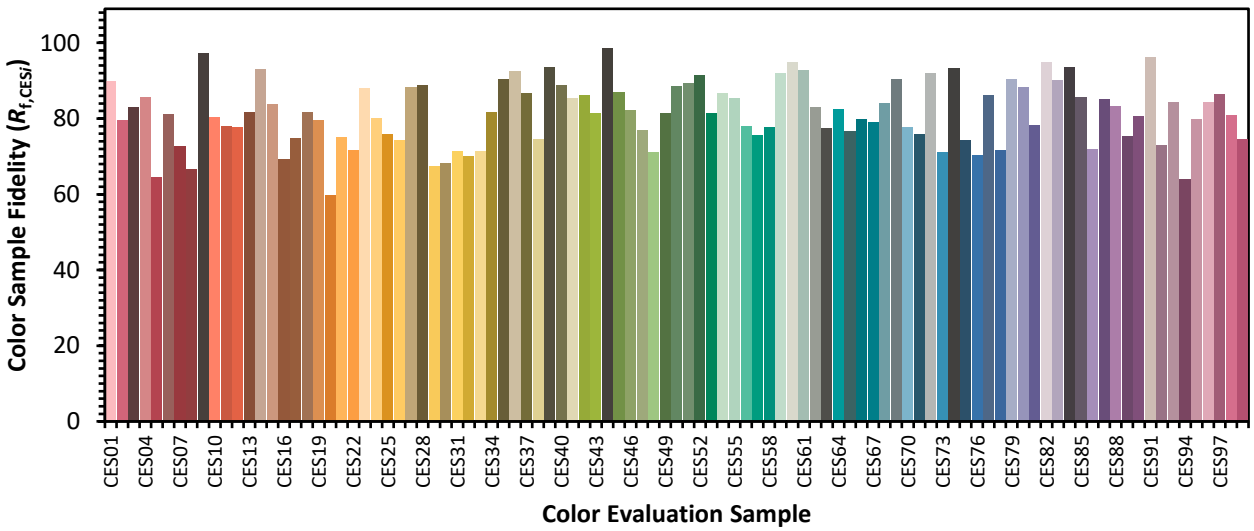
Individual Sample Fidelity Index ($R_{f,i}$)

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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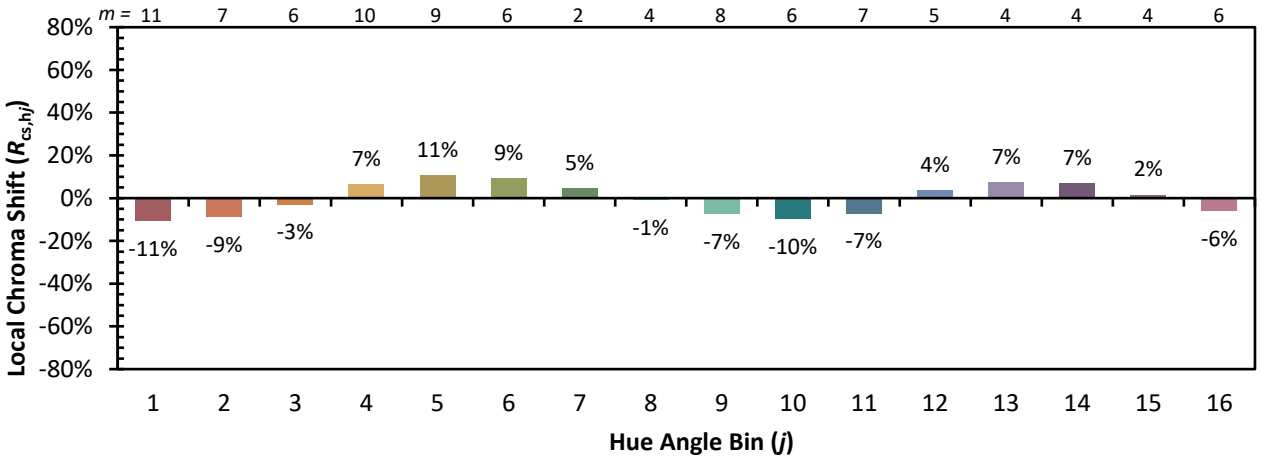
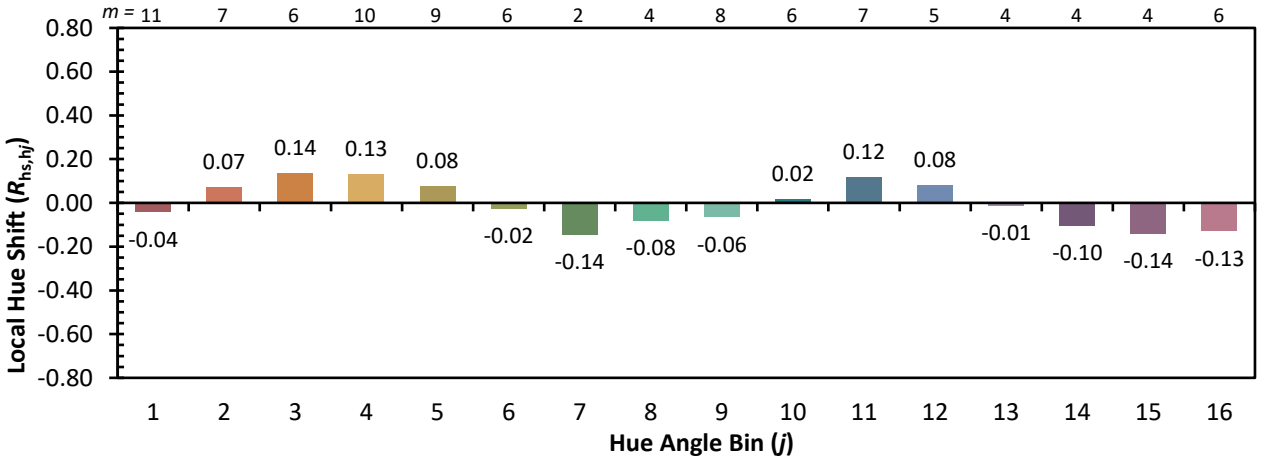
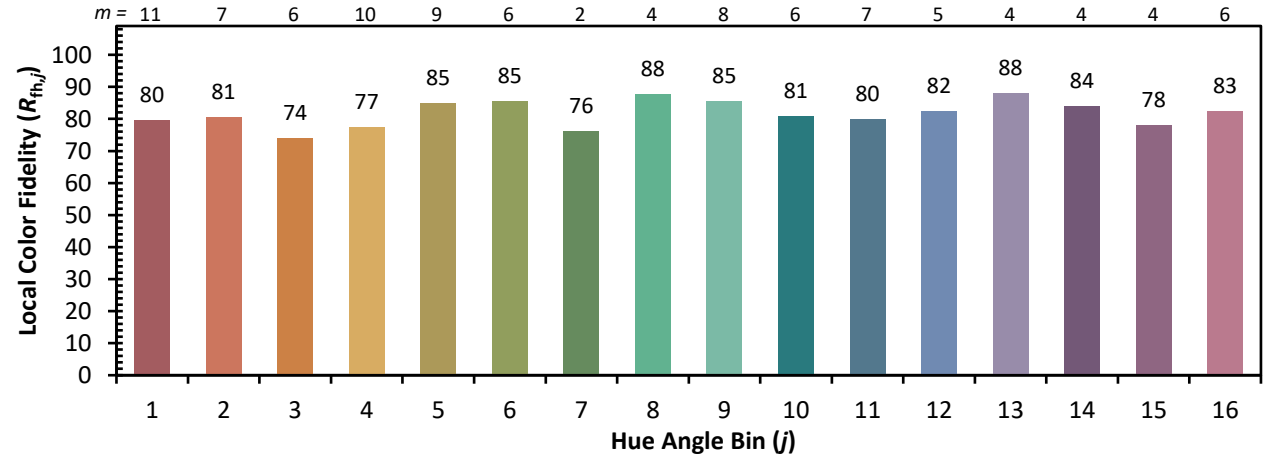
Color Rendition by Hue-Angle Bin







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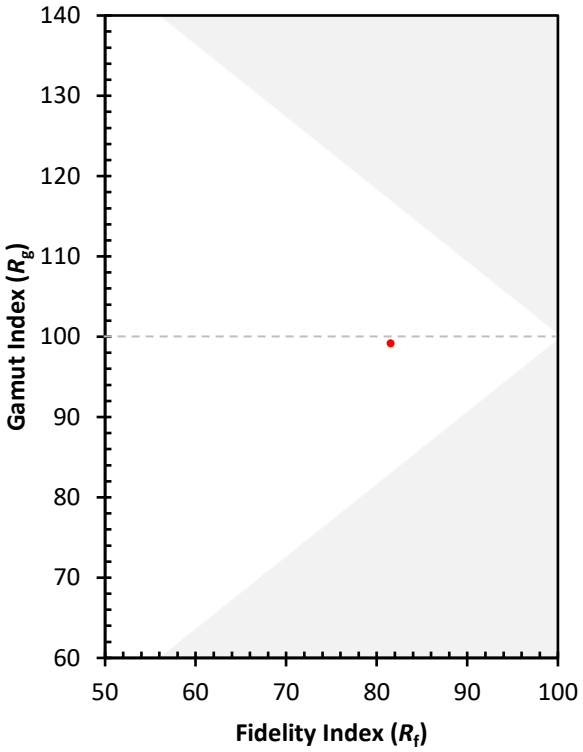
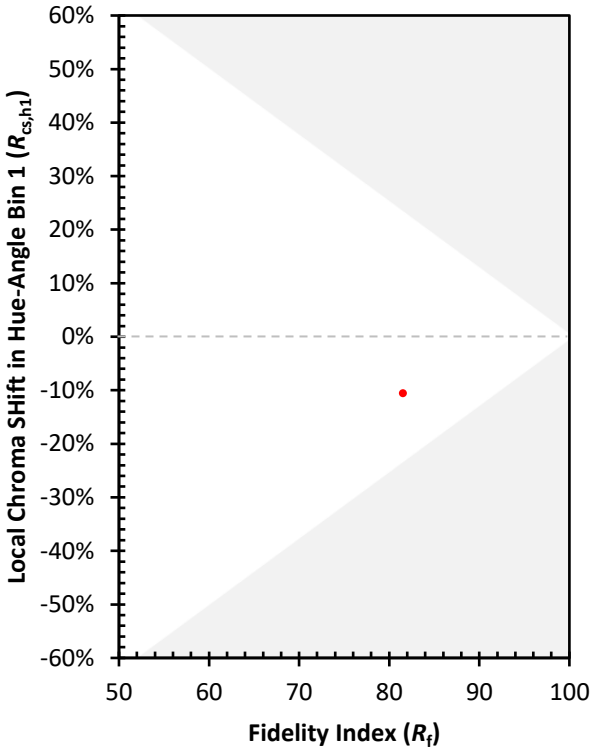
Measure Comparisons





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