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: P324957

Luminaire Tested: **GLEON-SA3B-830-U-AFL-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:	P324957
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA3B-830-U-AFL-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11349 lumens
Efficiency:	N/A
Efficacy:	91.5 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	124
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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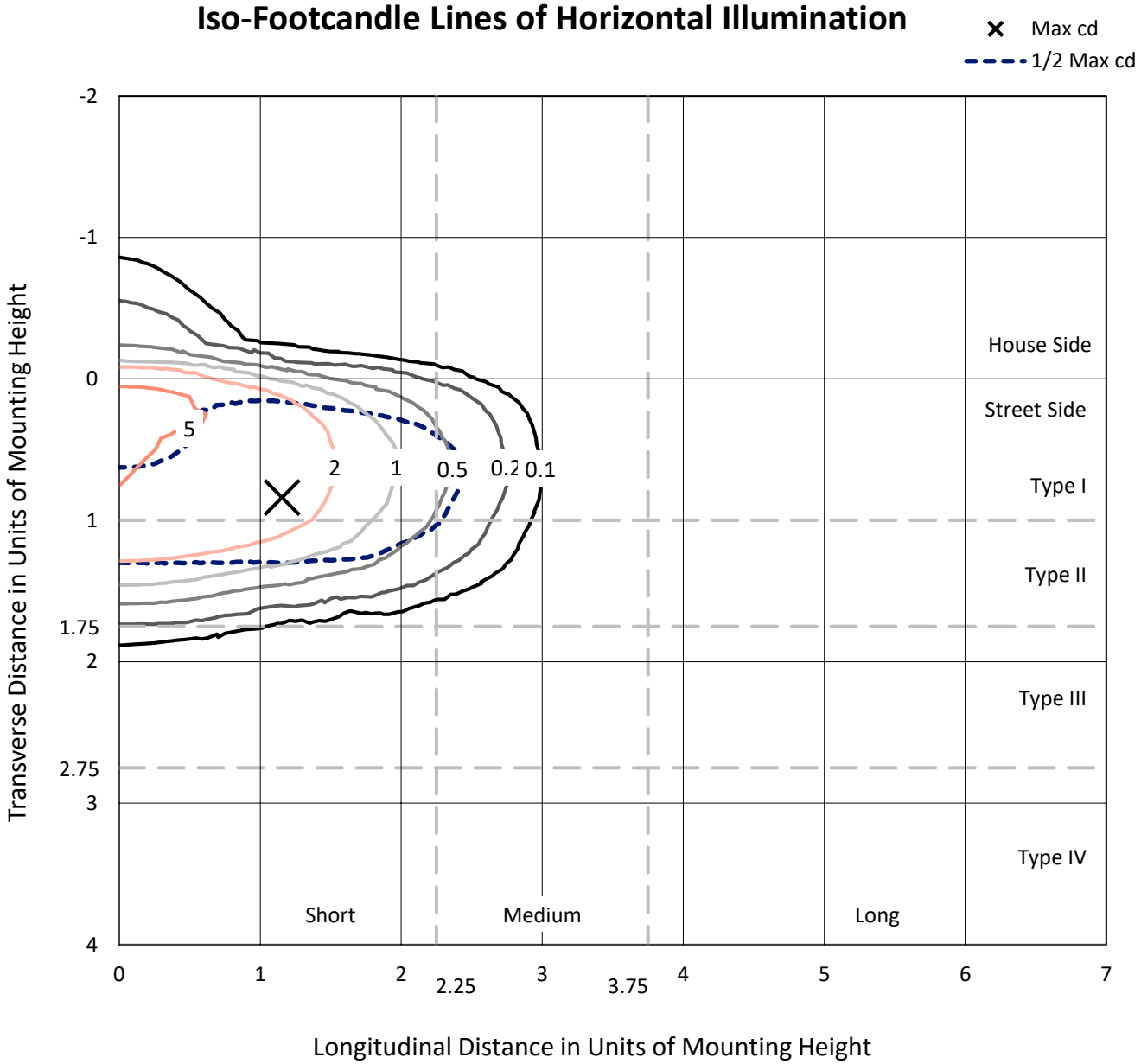
REPORT NUMBER: P324957
CATALOG NUMBER: GLEON-SA3B-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type II - Short - N/A

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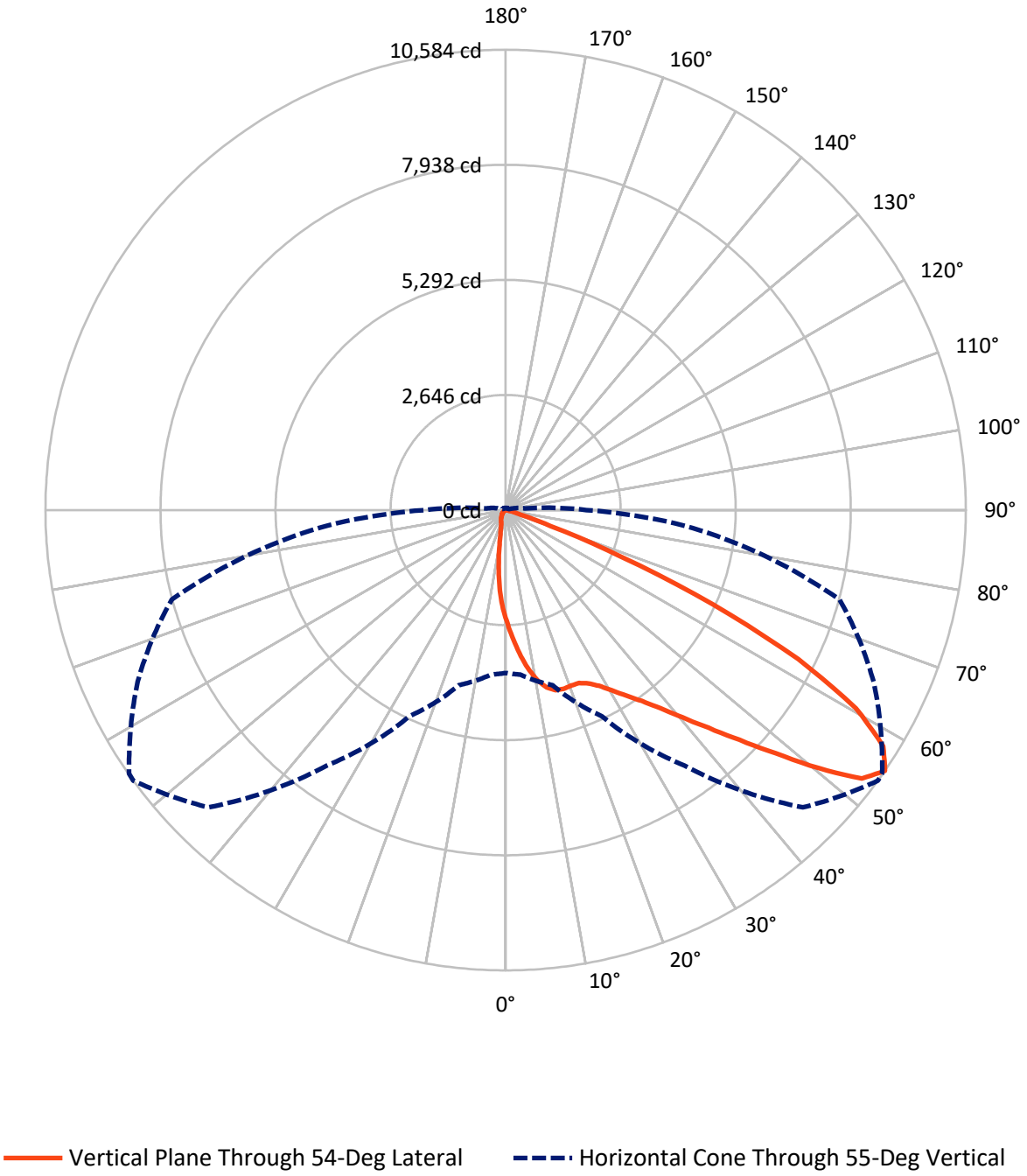
Luminous Intensity Polar Plot



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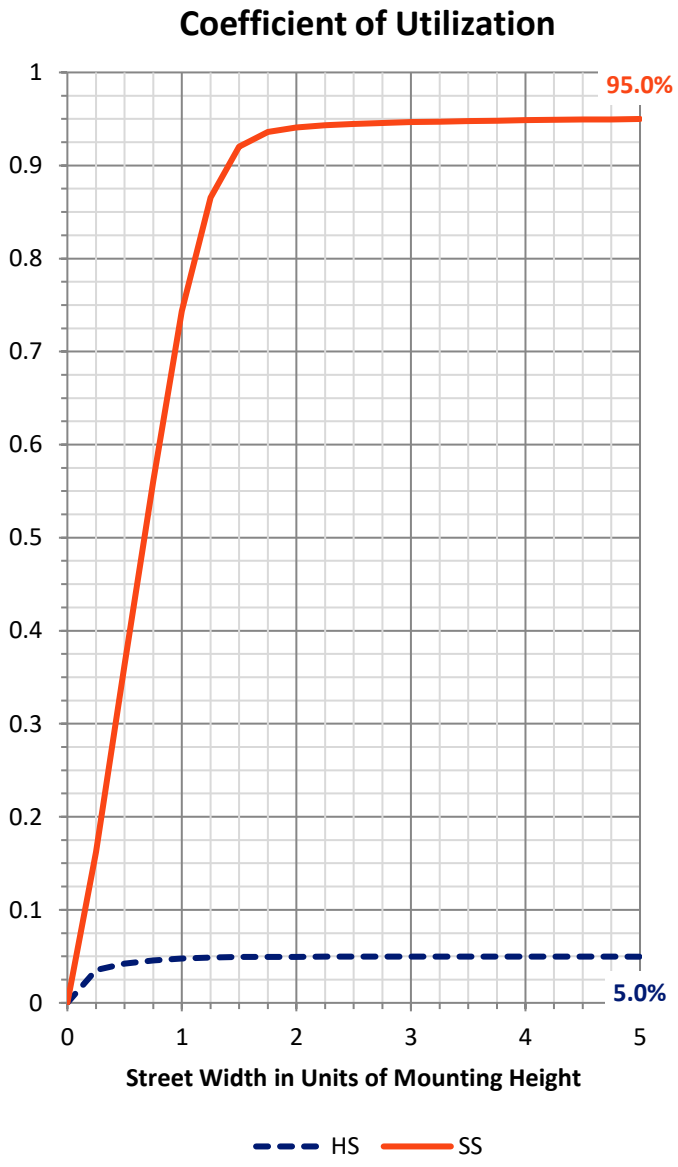
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	566.2	0.0	566.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	10782.8	0.0	10782.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	11349.0	0.0	11349.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.1	2.1
10°-20°	641.9	5.7
20°-30°	1096.0	9.7
30°-40°	1758.9	15.5
40°-50°	2810.7	24.8
50°-60°	3011.7	26.5
60°-70°	1546.3	13.6
70°-80°	234.2	2.1
80°-90°	15.3	0.1
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°	11349.0	100.0
0°-180°	11349.0	100.0



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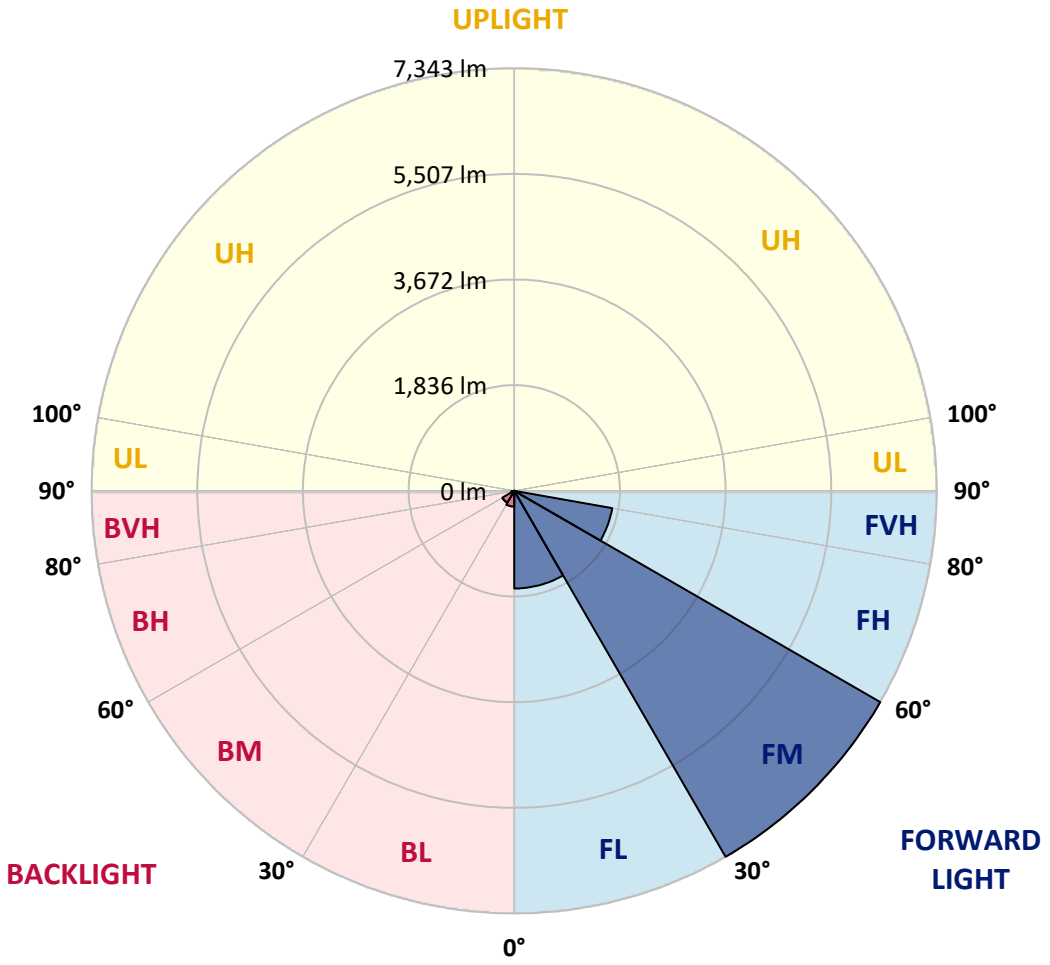
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1696.5	14.9			
FM	(30°-60°)	7343.3	64.7			
FH	(60°-80°)	1728.3	15.2			G1/1800
FVH	(80°-90°)	14.6	0.1			G1/100
BL	(0°-30°)	275.5	2.4	B1/500		
BM	(30°-60°)	237.9	2.1	B1/1000		
BH	(60°-80°)	52.2	0.5	B0/110		G0/110
BVH	(80°-90°)	0.6	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-G1
Type II Short



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REPORT NUMBER: P324957
CATALOG NUMBER: GLEON-SA3B-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2541.7	2541.7	2541.7	2541.7	2541.7	2541.7	2541.7	2541.7	2541.7	2541.7	2541.7
2.5°	3189.6	3142.1	3143.6	3122.0	3043.1	2981.4	2917.1	2902.0	2802.0	2697.1	2596.1
5°	3741.0	3706.2	3697.9	3656.2	3546.4	3430.3	3305.8	3276.9	3081.3	2866.7	2655.4
7.5°	4024.3	4024.8	4017.9	4002.7	3934.1	3821.4	3669.5	3639.1	3373.0	3050.9	2717.2
10°	3942.0	3960.6	3998.8	4049.3	4101.7	4087.5	3973.3	3945.9	3656.7	3246.0	2785.8
12.5°	3749.8	3752.3	3794.9	3877.8	4028.7	4183.6	4185.6	4176.2	3927.8	3449.9	2861.3
15°	3654.3	3663.6	3679.3	3732.7	3875.8	4123.8	4301.2	4314.5	4176.2	3666.5	2941.7
17.5°	3717.0	3730.2	3717.0	3723.4	3806.2	4029.2	4321.3	4355.1	4393.4	3880.7	3017.6
20°	3887.1	3899.3	3875.8	3849.8	3866.0	4001.8	4307.1	4352.7	4563.4	4070.9	3081.3
22.5°	4116.5	4121.4	4085.6	4042.9	4031.2	4094.9	4318.9	4365.9	4699.7	4242.9	3121.5
25°	4368.9	4373.3	4328.7	4279.7	4251.7	4277.7	4415.4	4450.7	4819.8	4407.1	3144.6
27.5°	4643.8	4647.7	4591.9	4531.6	4499.2	4500.2	4574.7	4612.4	4947.7	4594.3	3163.2
30°	4934.4	4932.5	4881.0	4797.2	4756.0	4755.1	4804.1	4842.3	5132.9	4834.5	3188.7
32.5°	5260.9	5256.9	5183.9	5080.0	5033.4	5040.3	5083.9	5106.0	5362.8	5090.3	3234.2
35°	5690.7	5679.4	5569.1	5440.2	5354.5	5352.0	5388.8	5406.4	5655.9	5400.1	3310.2
37.5°	6248.4	6238.1	6088.7	5901.4	5780.9	5735.8	5779.4	5801.9	6074.0	5797.5	3432.3
40°	6798.3	6788.1	6699.3	6527.8	6342.0	6233.7	6268.0	6292.1	6595.9	6279.8	3586.1
42.5°	7177.7	7186.5	7217.4	7231.6	7057.6	6830.2	6845.9	6870.9	7144.4	6795.4	3762.1
45°	7277.7	7296.8	7471.3	7813.9	7879.0	7701.6	7537.4	7551.2	7701.6	7311.0	3938.0
47.5°	6977.2	7012.5	7349.2	7986.4	8538.2	8663.7	8353.0	8334.8	8236.3	7728.1	4063.0
50°	6294.5	6326.9	6763.1	7705.5	8738.2	9582.2	9330.3	9276.8	8705.4	7977.6	4107.1
52.5°	5306.4	5345.7	5700.0	6821.4	8361.3	9991.9	10255.6	10211.0	9049.4	7997.2	4114.5
55°	3747.4	3794.9	4169.9	5228.0	7166.9	9666.0	10583.5	10570.2	9335.2	7945.2	4130.2
57.5°	2106.0	2140.3	2544.7	3351.4	5249.1	8419.1	10240.9	10328.6	9507.7	7855.0	4153.7
60°	935.1	944.4	1153.7	1668.3	3073.0	6434.2	9260.2	9408.2	9359.7	7734.5	4193.4
62.5°	518.5	510.7	510.7	693.5	1335.6	3983.1	7551.2	7795.7	8727.9	7591.8	4195.4
65°	406.3	399.0	377.9	380.8	508.7	1767.8	5229.0	5663.7	7528.1	7173.8	4054.2
67.5°	344.5	338.2	317.1	308.8	316.1	583.2	2873.0	3324.4	5712.3	6087.2	3511.7
70°	291.1	286.7	275.9	265.6	247.0	288.2	1099.3	1406.1	3520.0	4049.3	2397.1
72.5°	234.3	232.3	236.2	227.4	204.9	192.1	375.9	455.3	1581.1	1807.0	987.6
75°	201.9	200.9	202.9	194.1	168.6	133.8	191.1	208.8	446.0	442.1	200.0
77.5°	131.3	132.8	168.1	164.2	145.1	89.2	99.0	106.8	135.3	101.5	60.8
80°	83.8	82.8	85.3	136.3	130.4	68.1	49.5	52.0	65.2	50.0	29.4
82.5°	51.0	50.0	55.9	63.7	65.7	47.5	30.4	30.9	40.7	32.3	15.7
85°	4.4	5.9	33.8	31.4	22.5	14.7	14.7	15.7	21.6	19.1	8.8
87.5°	0.0	0.0	5.9	8.8	4.9	5.4	5.4	5.9	8.3	8.3	4.4
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: P324957
CATALOG NUMBER: GLEON-SA3B-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2541.7	2541.7	2541.7	2541.7	2541.7	2541.7	2541.7	2541.7	2541.7	2541.7	2541.7
2.5°	2543.7	2492.7	2389.8	2290.8	2207.0	2126.1	2034.0	1942.8	1900.2	1883.0	1865.4
5°	2548.1	2443.2	2231.0	2017.3	1795.8	1596.3	1426.2	1251.7	1164.5	1126.3	1108.6
7.5°	2554.0	2394.2	2051.1	1692.4	1335.6	1065.0	828.8	676.8	611.2	600.9	575.4
10°	2555.0	2334.9	1842.3	1333.6	895.4	642.0	494.0	415.6	386.7	381.8	373.5
12.5°	2556.9	2264.8	1610.5	987.6	597.0	429.3	357.3	331.3	323.5	323.0	323.0
15°	2562.8	2191.3	1369.9	711.6	428.8	340.1	313.7	303.4	300.4	301.9	301.4
17.5°	2562.8	2104.5	1133.6	530.3	346.5	305.8	291.1	284.3	283.3	284.8	285.2
20°	2544.2	1999.2	917.0	412.7	307.3	283.8	270.5	264.2	261.7	262.7	263.2
22.5°	2499.6	1869.8	740.6	341.6	281.3	263.7	249.5	239.7	235.7	236.2	236.2
25°	2430.0	1716.4	579.3	295.5	260.2	242.1	225.5	214.2	211.7	211.2	212.2
27.5°	2340.8	1546.8	461.2	260.2	235.3	218.1	201.4	192.1	190.2	190.7	191.1
30°	2253.0	1370.8	363.7	230.4	207.3	191.1	178.4	174.0	174.0	175.5	176.0
32.5°	2172.7	1201.8	287.7	204.4	182.3	167.6	160.3	159.8	162.2	163.2	163.7
35°	2103.6	1045.4	238.2	184.3	162.7	150.0	147.5	149.5	152.4	154.4	154.9
37.5°	2054.5	905.7	208.3	167.6	147.5	137.2	136.7	140.7	144.6	149.0	150.0
40°	2034.0	787.6	187.7	152.9	135.3	127.4	126.0	131.3	138.7	145.1	146.1
42.5°	2016.8	691.1	170.1	138.7	125.5	114.2	113.7	120.6	129.4	135.8	137.2
45°	2002.1	613.6	153.9	123.5	112.7	98.0	99.5	108.3	115.2	122.0	123.5
47.5°	1971.7	549.9	136.3	107.3	93.1	83.8	86.7	94.6	100.0	110.3	111.7
50°	1917.3	498.0	118.1	87.7	76.0	72.5	76.9	82.3	89.2	98.0	99.0
52.5°	1880.6	458.7	102.4	73.5	62.7	63.7	68.1	70.1	74.0	77.4	76.5
55°	*1859.5*	*437.2*	*89.7*	*63.7*	*53.4*	*56.4*	*57.3*	*54.9*	*52.9*	*49.5*	*48.0*
57.5°	1857.0	417.6	79.9	55.4	47.1	48.5	45.1	36.8	29.9	26.0	25.0
60°	1853.1	393.6	72.0	46.6	41.7	39.7	32.3	20.1	14.2	13.2	13.2
62.5°	1810.5	356.3	66.2	39.2	35.3	29.9	18.6	9.3	7.8	8.3	8.3
65°	1674.7	304.4	60.3	31.9	27.9	21.6	9.3	5.4	2.9	3.4	3.4
67.5°	1423.8	242.6	53.9	24.5	21.1	13.7	5.4	2.5	0.0	0.0	0.0
70°	953.3	150.5	45.6	17.2	13.7	8.3	3.9	0.5	0.0	0.0	0.0
72.5°	365.6	81.4	36.8	10.3	8.8	5.9	2.5	0.0	0.0	0.0	0.0
75°	82.3	53.4	25.5	7.4	6.4	3.9	1.0	0.0	0.0	0.0	0.0
77.5°	31.4	38.7	14.7	4.9	4.4	2.5	0.0	0.0	0.0	0.0	0.0
80°	15.2	23.0	6.9	2.9	2.5	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.8	8.8	2.9	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.4	4.4	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	1.5	0.5	0.5	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

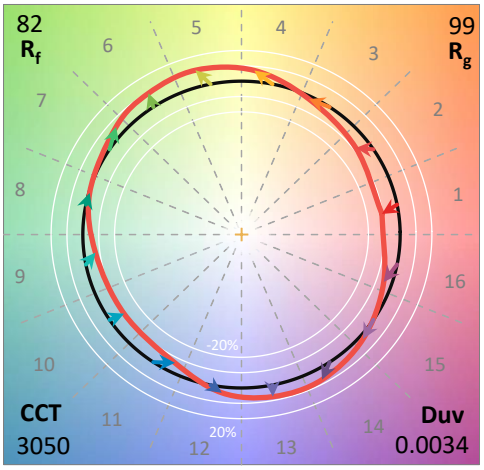
Test Information

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

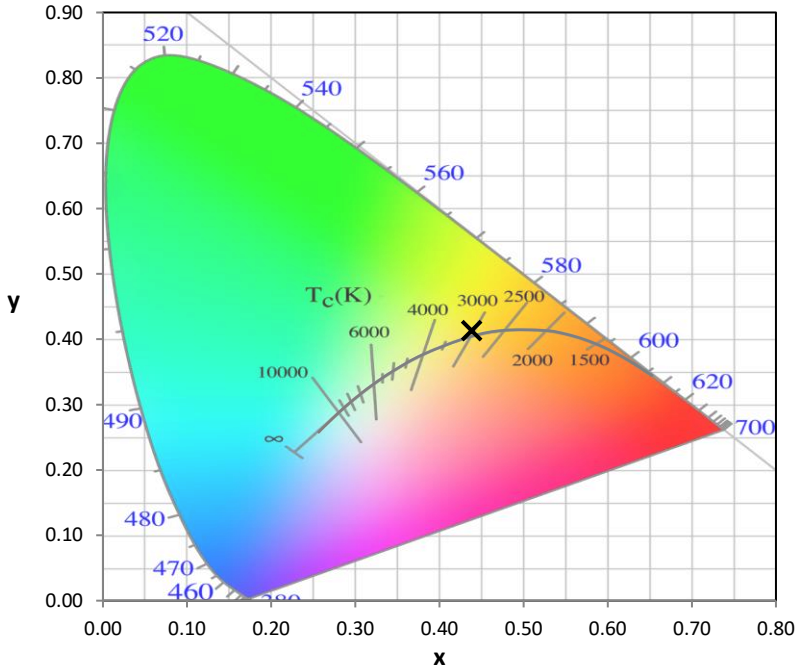
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

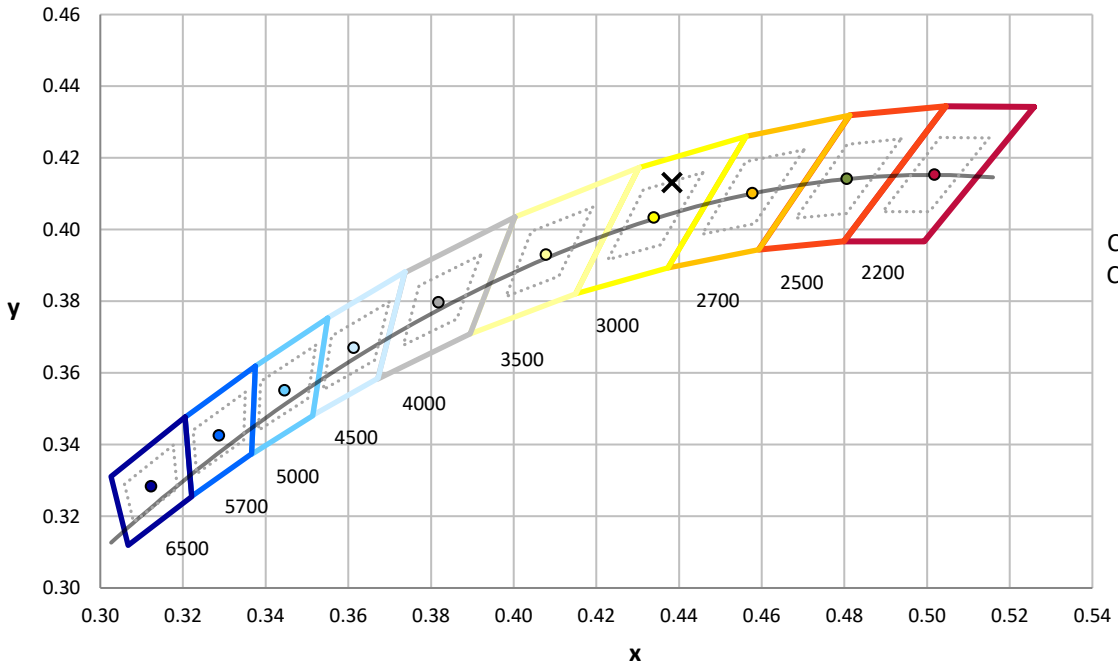
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

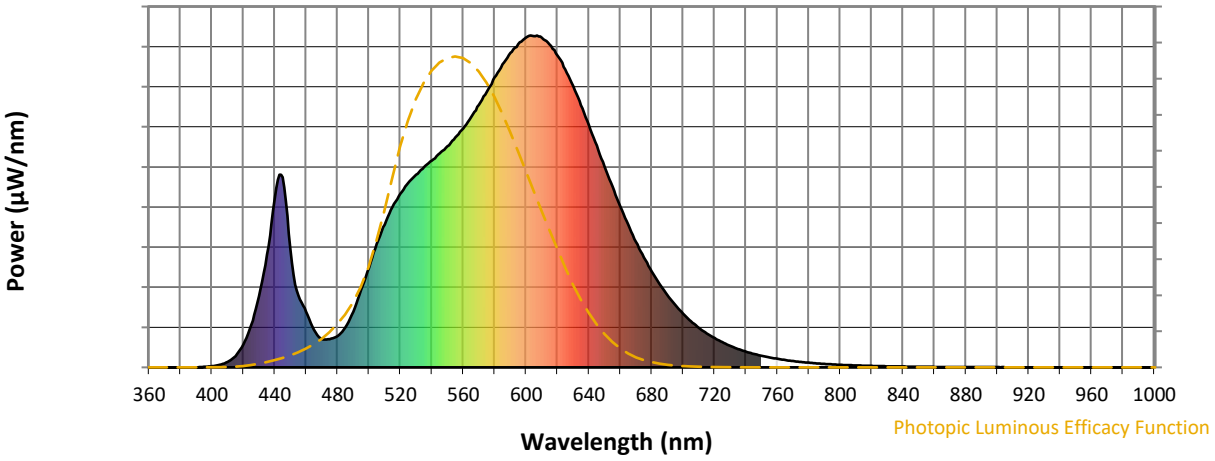


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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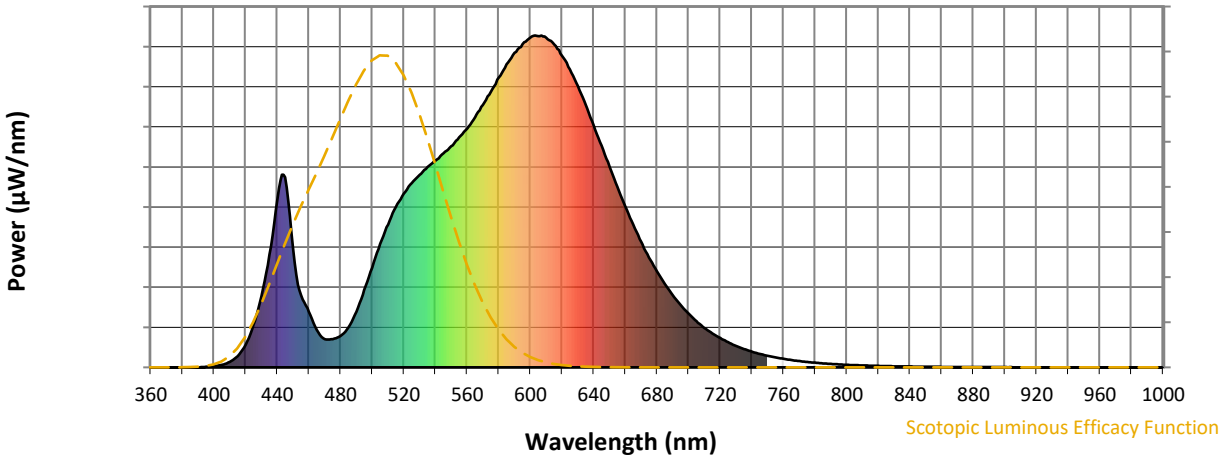
Scotopic Flux vs. Wavelength



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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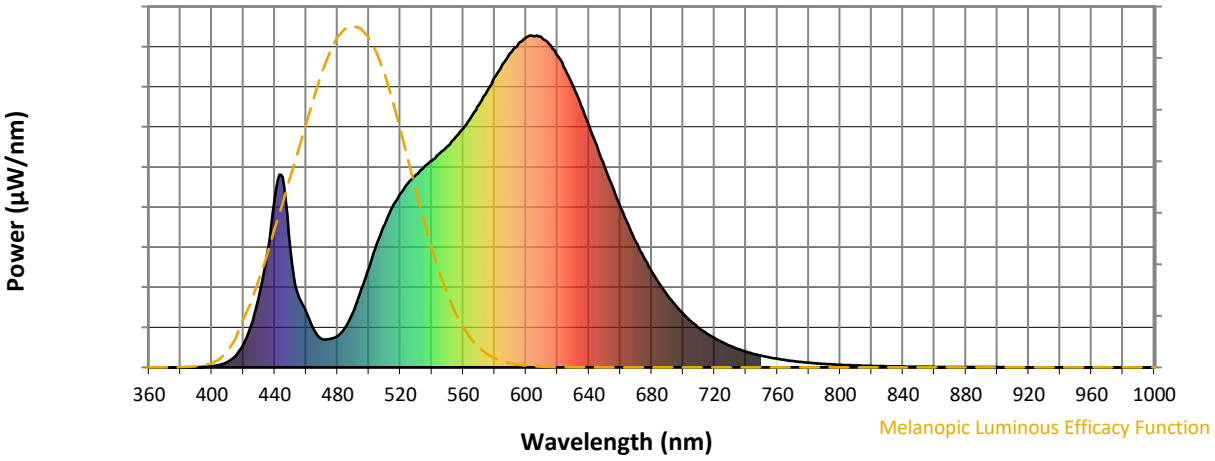
Melanopic Flux vs. Wavelength



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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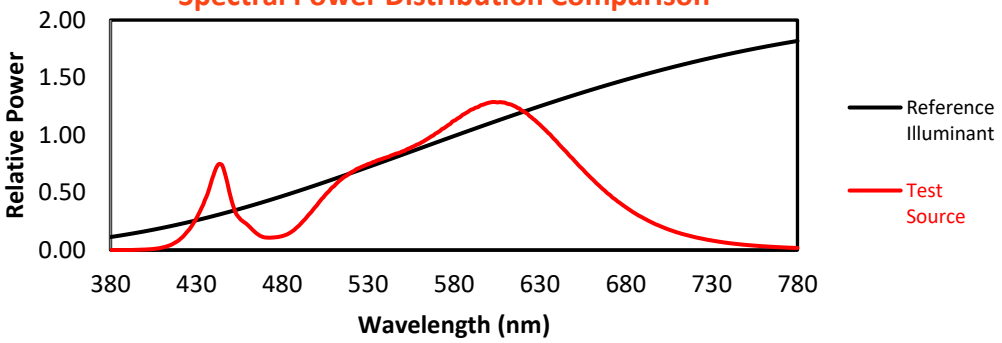
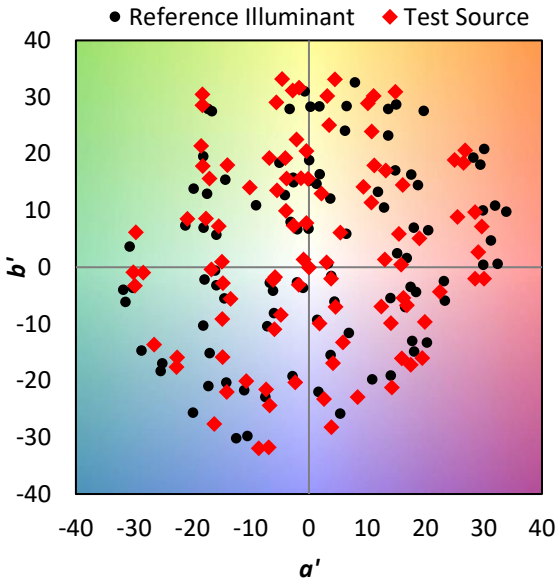
Summary

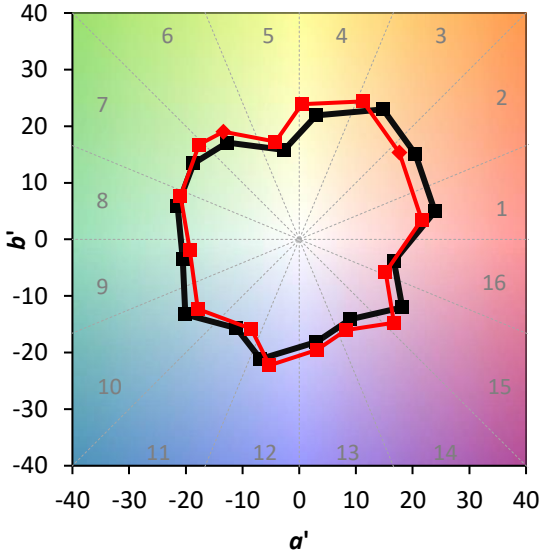
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

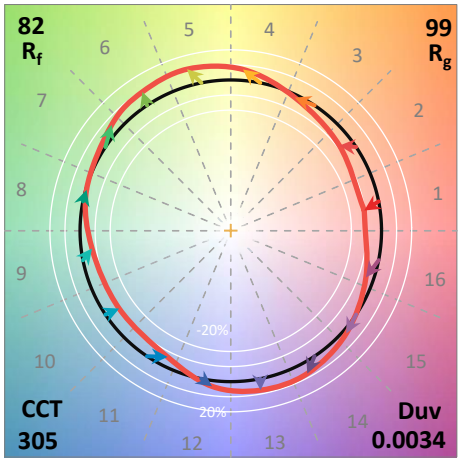
Spectral Power Distribution Comparison

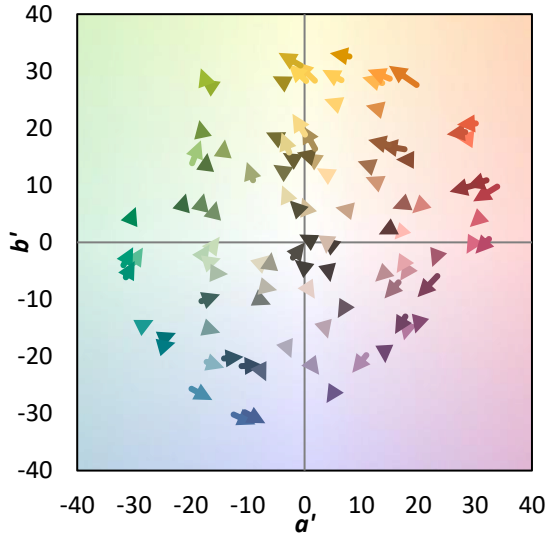


Color Vector Graphics









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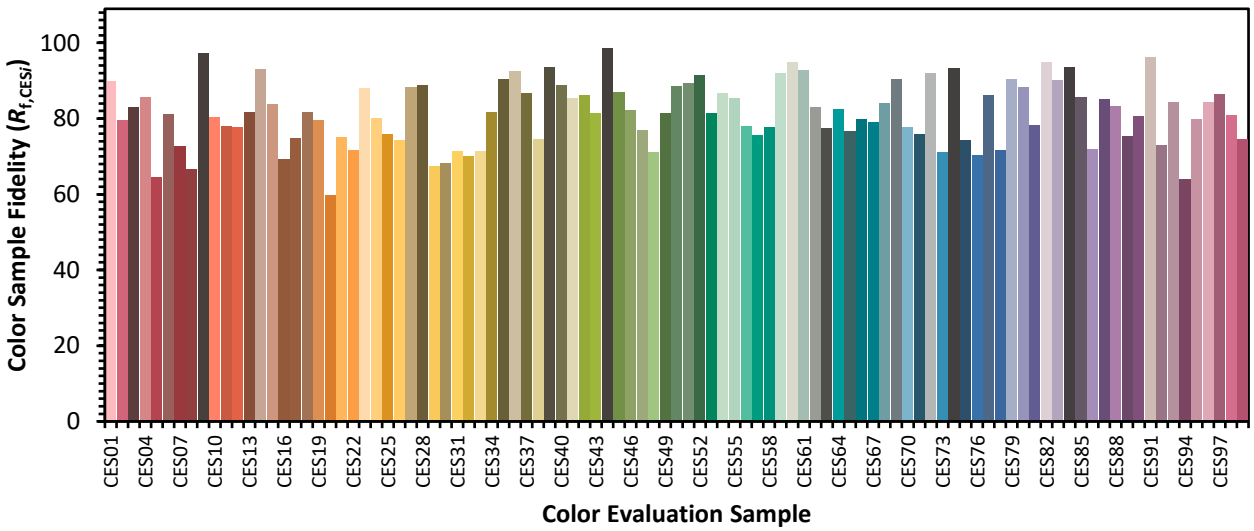
Individual Sample Fidelity Index ($R_{f,i}$)

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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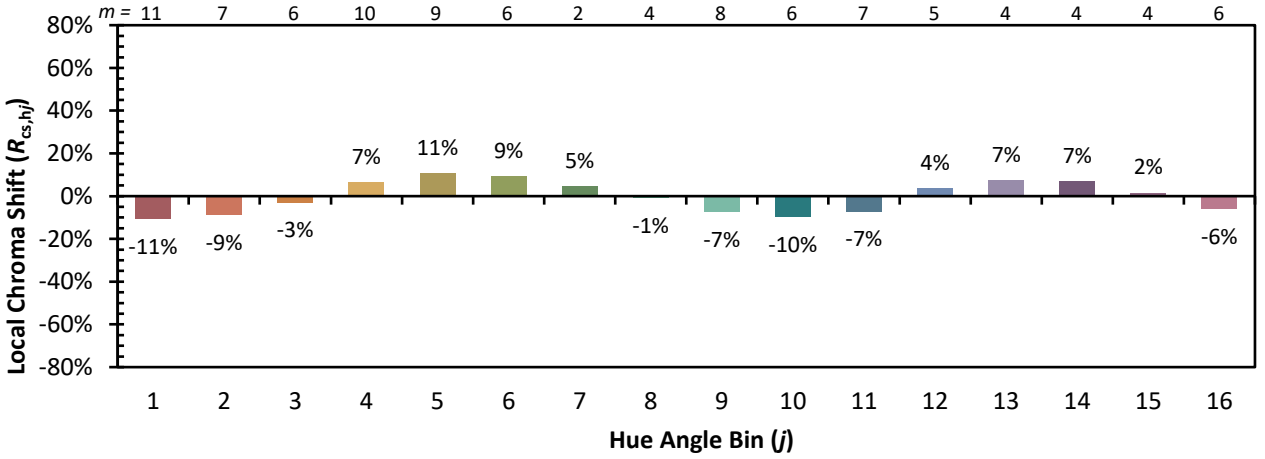
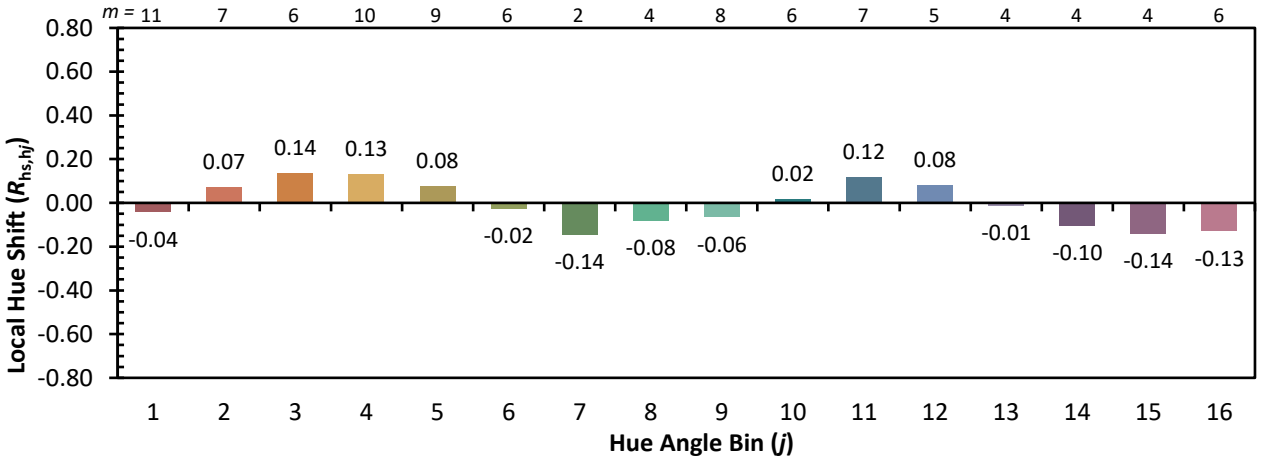
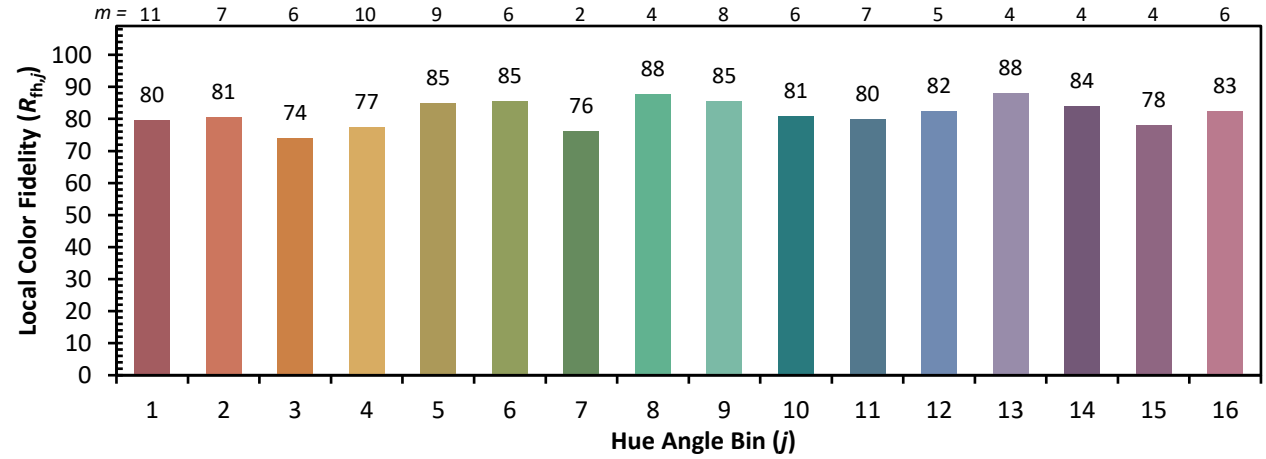
Color Rendition by Hue-Angle Bin







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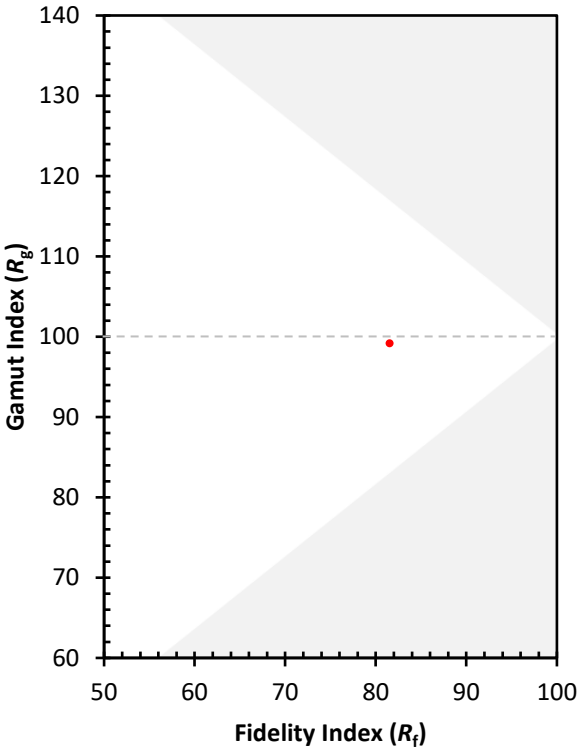
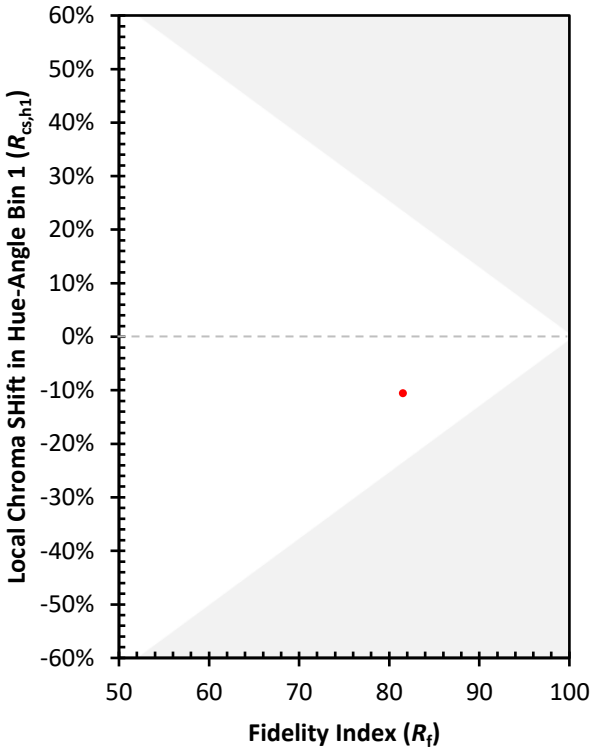
Measure Comparisons





(END OF REPORT)