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: P324952

Luminaire Tested: **GLEON-SA8A-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:	P324952
	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-SA8A-830-U-AFL-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(8) 80 CRI, 3000K, 615mA 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:	24296 lumens
Efficiency:	N/A
Efficacy:	94.5 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

Input Watts (W):	257
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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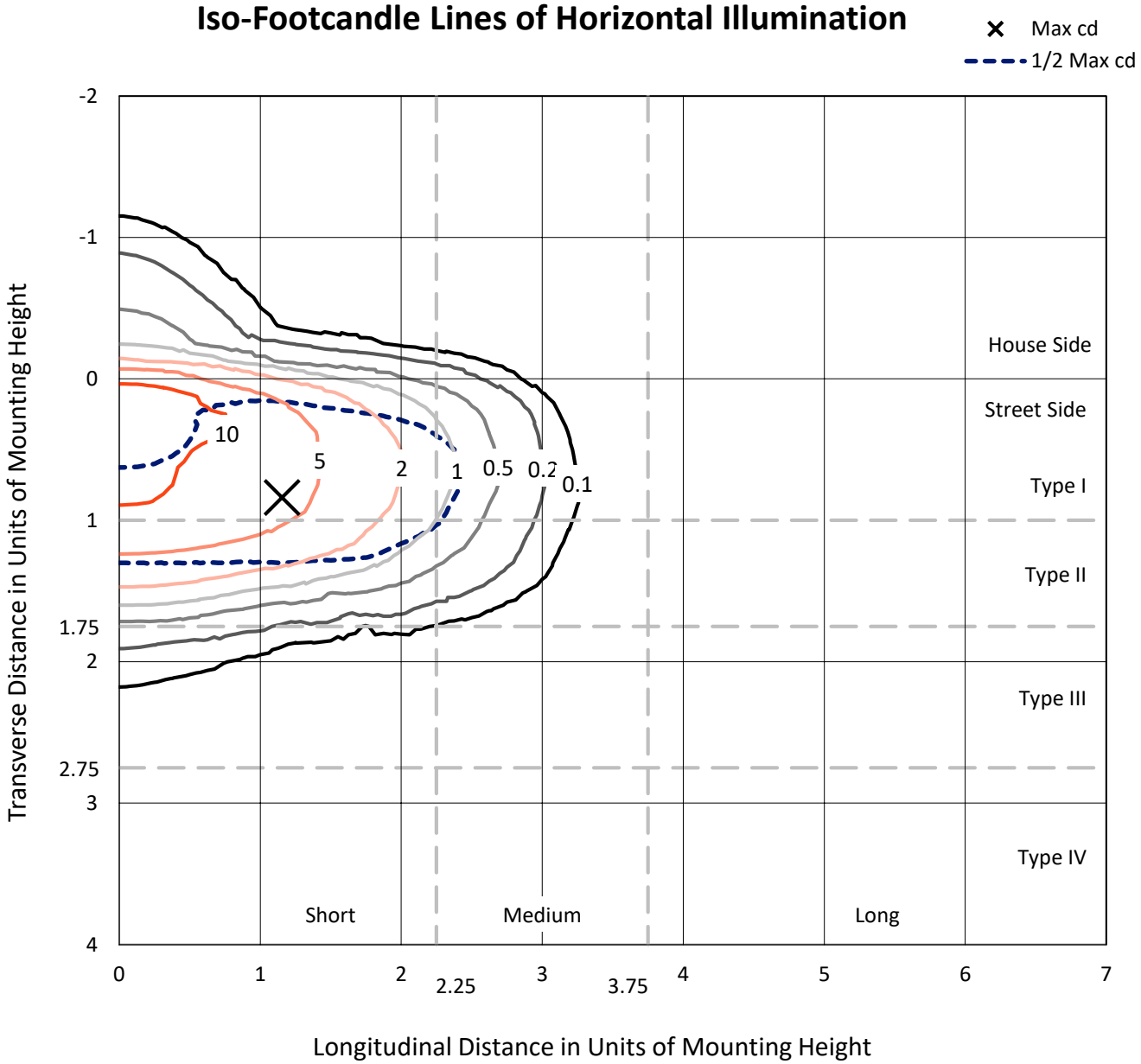
Scaled Data Report

REPORT NUMBER: P324952
CATALOG NUMBER: GLEON-SA8A-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
Type II - Short - N/A

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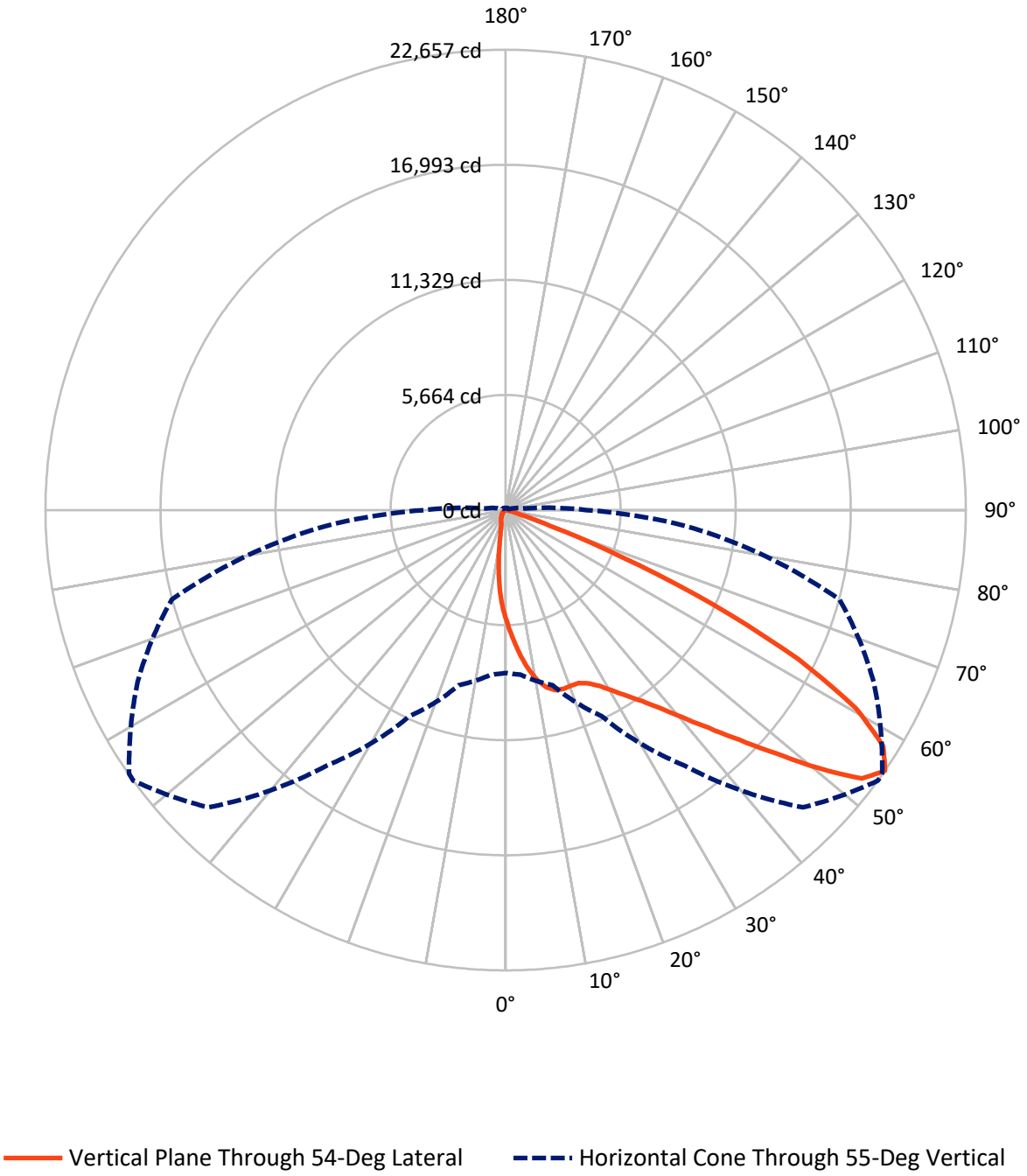
Luminous Intensity Polar Plot



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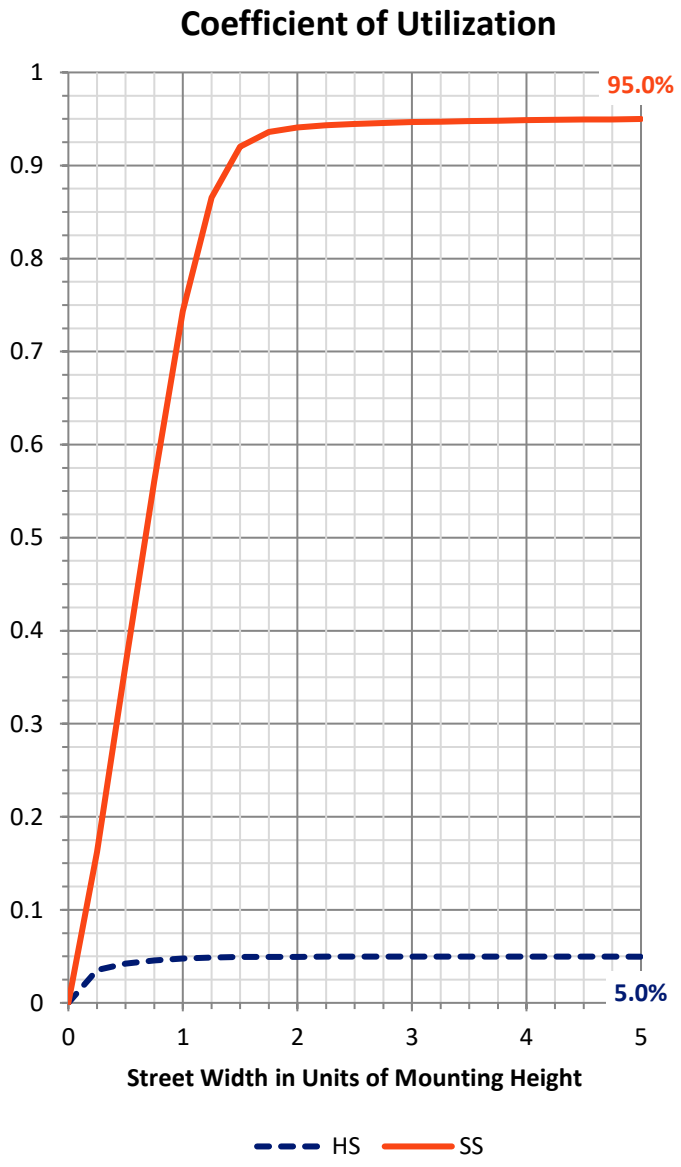
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1212.2	0.0	1212.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	23083.8	0.0	23083.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	24296.0	0.0	24296.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.1	2.1
10°-20°	1374.2	5.7
20°-30°	2346.3	9.7
30°-40°	3765.4	15.5
40°-50°	6017.1	24.8
50°-60°	6447.5	26.5
60°-70°	3310.3	13.6
70°-80°	501.4	2.1
80°-90°	32.6	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°	24296.0	100.0
0°-180°	24296.0	100.0



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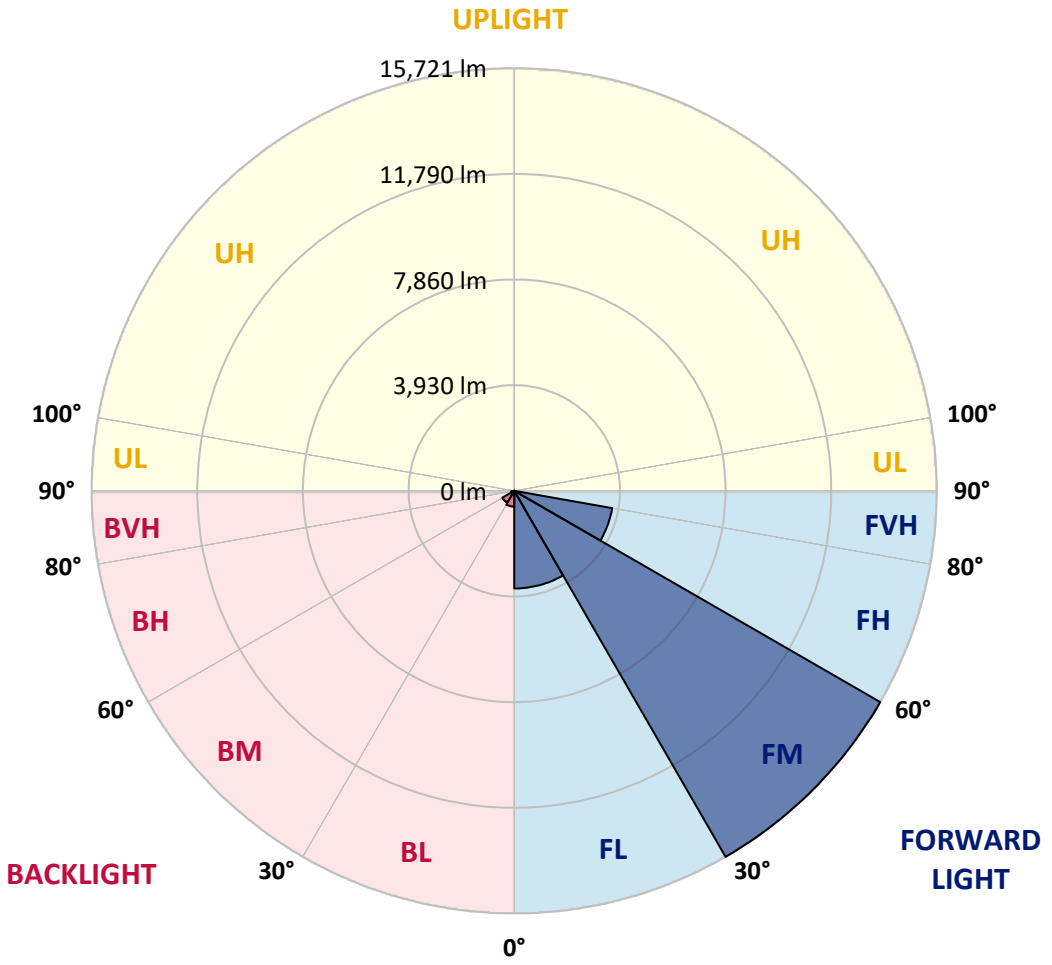
CATALOG NUMBER: GLEON-SA8A-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3631.8	14.9			
FM	(30°-60°)	15720.6	64.7			
FH	(60°-80°)	3700.1	15.2			G2/5000
FVH	(80°-90°)	31.3	0.1			G1/100
BL	(0°-30°)	589.8	2.4	B2/1000		
BM	(30°-60°)	509.4	2.1	B1/1000		
BH	(60°-80°)	111.7	0.5	B1/500		G1/500
BVH	(80°-90°)	1.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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Scaled Data Report

REPORT NUMBER: P324952
CATALOG NUMBER: GLEON-SA8A-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	*5441.3*	5441.3	5441.3	5441.3	5441.3
2.5°	6828.4	6726.6	6729.8	6683.6	6514.7	6382.5	*6245.0*	6212.5	5998.5	5773.9	5557.8
5°	8008.8	7934.3	7916.5	7827.3	7592.3	7343.6	*7077.1*	7015.2	6596.5	6137.0	5684.8
7.5°	8615.3	8616.3	8601.6	8569.1	8422.2	8180.9	*7855.6*	7790.6	7220.8	6531.5	5817.0
10°	8439.0	8478.9	8560.7	8668.8	8781.0	8750.6	*8506.1*	8447.4	7828.3	6949.1	5963.8
12.5°	8027.7	8032.9	8124.2	8301.5	8624.7	8956.3	*8960.5*	8940.5	8408.6	7385.6	6125.4
15°	7823.1	7843.0	7876.6	7991.0	8297.3	8828.3	*9208.1*	9236.4	8940.5	7849.3	6297.5
17.5°	7957.4	7985.7	7957.4	7971.0	8148.4	8625.8	*9251.1*	9323.5	9405.3	8307.8	6460.1
20°	8321.5	8347.7	8297.3	8241.7	8276.4	8567.0	*9220.7*	9318.2	9769.4	8714.9	6596.5
22.5°	8812.5	8823.0	8746.4	8655.1	8630.0	8766.4	*9245.9*	9346.6	10061.1	9083.2	6682.6
25°	9352.9	9362.3	9266.8	9161.9	9102.1	9157.7	*9452.6*	9528.1	10318.2	9434.7	6731.9
27.5°	9941.5	9949.9	9830.3	9701.2	9632.0	9634.1	*9793.6*	9874.3	10592.0	9835.5	6771.8
30°	10563.7	10559.5	10449.3	10269.9	10181.8	10179.7	*10284.6*	10366.4	10988.6	10349.6	6826.3
32.5°	11262.5	11254.1	11097.8	10875.3	10775.6	10790.3	*10883.7*	10930.9	11480.7	10897.3	6923.9
35°	12182.7	12158.5	11922.4	11646.5	11462.9	11457.6	*11536.3*	11574.1	12108.2	11560.5	7086.5
37.5°	13376.7	13354.7	13034.6	12633.8	12375.7	12279.2	*12372.6*	12420.8	13003.2	12411.4	7347.8
40°	14553.9	14531.9	14342.0	13974.8	13577.1	13345.2	*13418.7*	13470.1	14120.6	13443.8	7677.2
42.5°	15366.0	15384.9	15451.0	15481.5	15109.0	14622.1	*14655.7*	14709.2	15294.7	14547.6	8053.9
45°	15580.1	15621.0	15994.5	16727.9	16867.5	16487.7	*16136.2*	16165.6	16487.7	15651.4	8430.6
47.5°	14936.9	15012.4	15733.3	17097.3	18278.7	18547.3	*17882.1*	17843.3	17632.4	16544.3	8698.2
50°	13475.3	13544.6	14478.4	16496.1	18706.8	20513.6	*19974.3*	19859.9	18636.5	17078.4	8792.6
52.5°	11360.1	11444.0	12202.6	14603.2	17899.9	21390.7	*21955.2*	21859.7	19373.1	17120.4	8808.3
55°	*8022.4*	*8124.2*	*8926.9*	*11192.2*	*15343.0*	*20693.0*	*22657.2*	*22628.8*	*19984.8*	*17009.1*	*8841.9*
57.5°	4508.6	4582.0	5447.6	7174.7	11237.3	18023.7	*21923.7*	22111.6	20354.1	16816.1	8892.3
60°	2001.9	2021.9	2469.9	3571.6	6578.7	13774.3	*19824.2*	20141.1	20037.2	16558.0	8977.2
62.5°	1110.1	1093.3	1093.3	1484.7	2859.2	8527.1	*16165.6*	16689.1	18684.8	16252.6	8981.4
65°	869.8	854.1	809.0	815.3	1089.1	3784.6	*11194.3*	12125.0	16116.2	15357.6	8679.3
67.5°	737.6	724.0	678.9	661.0	676.8	1248.6	*6150.6*	7117.0	12228.8	13031.5	7517.8
70°	623.2	613.8	590.7	568.7	528.8	616.9	*2353.4*	3010.3	7535.6	8668.8	5131.8
72.5°	501.5	497.3	505.7	486.8	438.6	411.3	*804.8*	974.7	3384.8	3868.5	2114.2
75°	432.3	430.2	434.4	415.5	360.9	286.4	*409.2*	447.0	954.8	946.4	428.1
77.5°	281.2	284.3	359.9	351.5	310.6	191.0	*211.9*	228.7	289.6	217.2	130.1
80°	179.4	177.3	182.6	291.7	279.1	145.8	*106.0*	111.2	139.5	107.0	63.0
82.5°	109.1	107.0	119.6	136.4	140.6	101.8	*65.1*	66.1	87.1	69.2	33.6
85°	9.4	12.6	72.4	67.2	48.3	31.5	*31.5*	33.6	46.2	40.9	18.9
87.5°	0.0	0.0	12.6	18.9	10.5	11.5	*11.5*	12.6	17.8	17.8	9.4
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: P324952
CATALOG NUMBER: GLEON-SA8A-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3
2.5°	5445.5	5336.4	5116.1	4904.1	4724.7	4551.6	4354.3	4159.2	4067.9	4031.2	3993.4
5°	5455.0	5230.4	4776.1	4318.6	3844.4	3417.4	3053.3	2679.7	2493.0	2411.1	2373.4
7.5°	5467.6	5125.5	4391.0	3623.0	2859.2	2280.0	1774.3	1449.0	1308.4	1286.4	1231.8
10°	5469.7	4998.6	3944.1	2855.0	1917.0	1374.5	1057.6	889.8	827.8	817.4	799.5
12.5°	5473.9	4848.5	3447.8	2114.2	1278.0	919.1	764.9	709.3	692.5	691.4	691.4
15°	5486.4	4691.1	2932.6	1523.5	918.1	728.2	671.5	649.5	643.2	646.3	645.3
17.5°	5486.4	4505.4	2426.9	1135.3	741.8	654.7	623.2	608.6	606.5	609.6	610.7
20°	5446.6	4279.8	1963.1	883.5	657.9	607.5	579.2	565.5	560.3	562.4	563.4
22.5°	5351.1	4002.8	1585.4	731.3	602.3	564.5	534.1	513.1	504.7	505.7	505.7
25°	5202.1	3674.4	1240.2	632.7	557.1	518.3	482.6	458.5	453.3	452.2	454.3
27.5°	5011.1	3311.4	987.3	557.1	503.6	466.9	431.2	411.3	407.1	408.2	409.2
30°	4823.3	2934.7	778.5	493.1	443.8	409.2	381.9	372.5	372.5	375.6	376.7
32.5°	4651.3	2572.7	615.9	437.5	390.3	358.8	343.1	342.1	347.3	349.4	350.4
35°	4503.3	2238.0	509.9	394.5	348.3	321.1	315.8	320.0	326.3	330.5	331.6
37.5°	4398.4	1939.0	445.9	358.8	315.8	293.8	292.7	301.1	309.5	319.0	321.1
40°	4354.3	1686.1	401.9	327.4	289.6	272.8	269.7	281.2	296.9	310.6	312.7
42.5°	4317.6	1479.4	364.1	296.9	268.6	244.5	243.4	258.1	277.0	290.6	293.8
45°	4286.1	1313.6	329.5	264.4	241.3	209.8	213.0	231.9	246.6	261.3	264.4
47.5°	4221.1	1177.2	291.7	229.8	199.4	179.4	185.7	202.5	214.0	236.1	239.2
50°	4104.6	1066.0	252.9	187.8	162.6	155.3	164.7	176.3	191.0	209.8	211.9
52.5°	4025.9	982.1	219.3	157.4	134.3	136.4	145.8	150.0	158.4	165.8	163.7
55°	*3980.8*	*935.9*	*192.0*	*136.4*	*114.4*	*120.7*	*122.8*	*117.5*	*113.3*	*106.0*	*102.8*
57.5°	3975.5	893.9	171.0	118.6	100.7	103.9	96.5	78.7	64.0	55.6	53.5
60°	3967.2	842.5	154.2	99.7	89.2	85.0	69.2	43.0	30.4	28.3	28.3
62.5°	3875.9	762.8	141.6	83.9	75.5	64.0	39.9	19.9	16.8	17.8	17.8
65°	3585.2	651.6	129.1	68.2	59.8	46.2	19.9	11.5	6.3	7.3	7.3
67.5°	3048.0	519.4	115.4	52.5	45.1	29.4	11.5	5.2	0.0	0.0	0.0
70°	2040.8	322.1	97.6	36.7	29.4	17.8	8.4	1.0	0.0	0.0	0.0
72.5°	782.7	174.2	78.7	22.0	18.9	12.6	5.2	0.0	0.0	0.0	0.0
75°	176.3	114.4	54.6	15.7	13.6	8.4	2.1	0.0	0.0	0.0	0.0
77.5°	67.2	82.9	31.5	10.5	9.4	5.2	0.0	0.0	0.0	0.0	0.0
80°	32.5	49.3	14.7	6.3	5.2	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	16.8	18.9	6.3	3.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.4	9.4	3.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	3.1	1.0	1.0	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

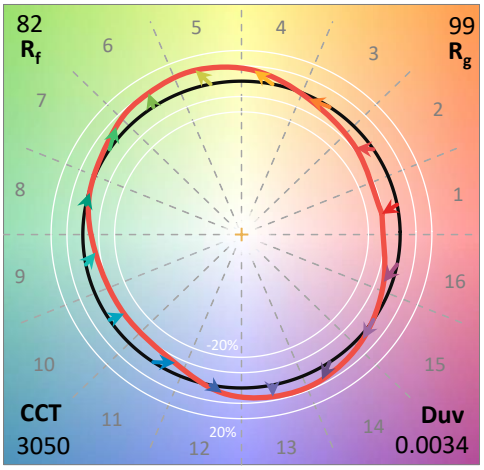
Test Information

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

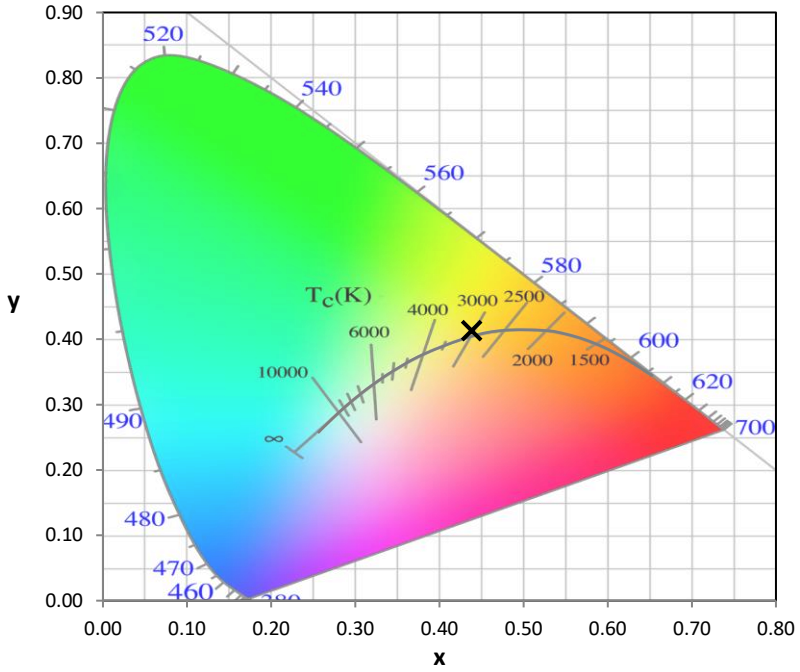
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

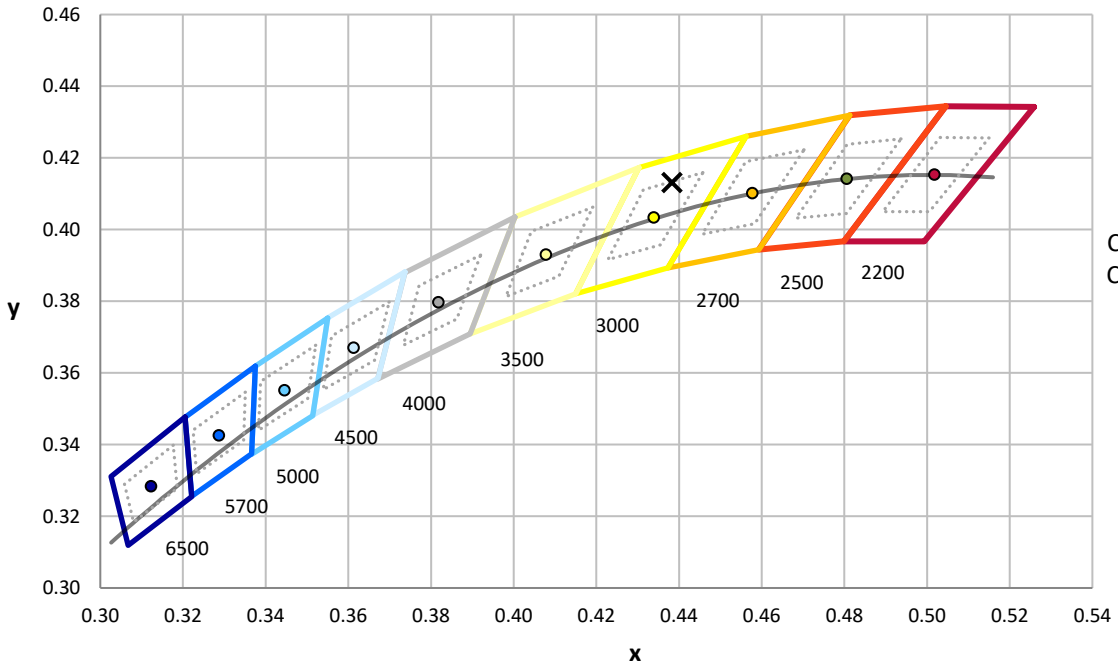
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

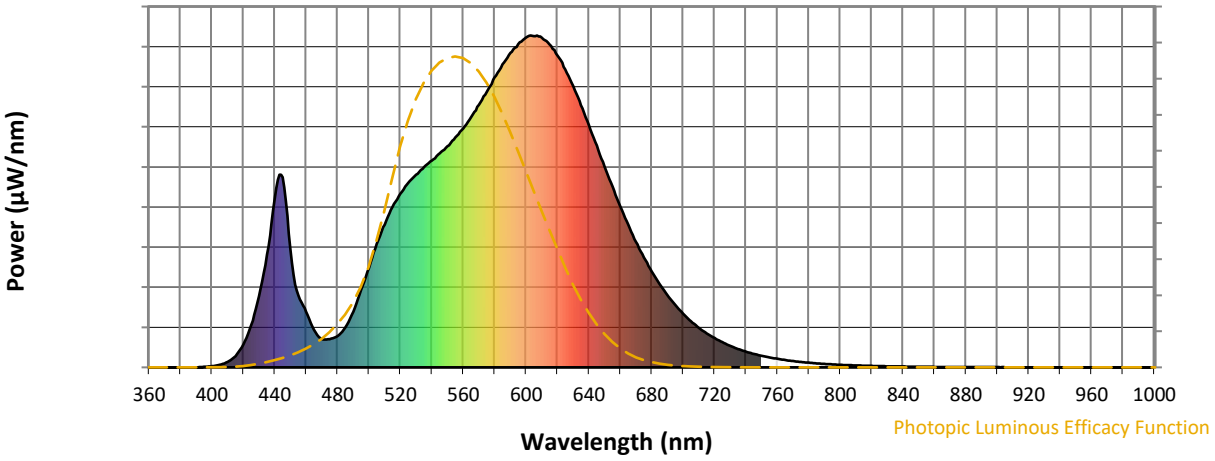


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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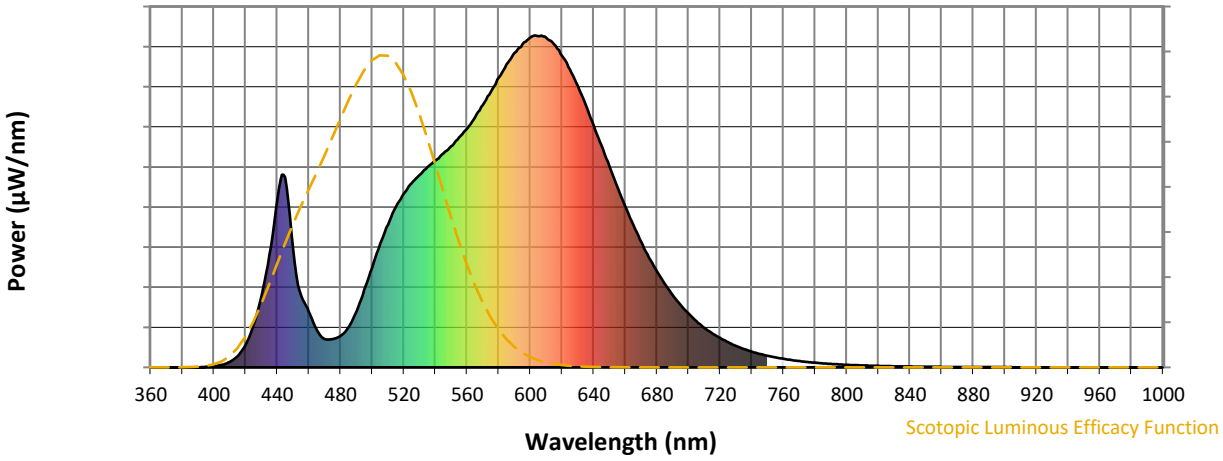
Scotopic Flux vs. Wavelength



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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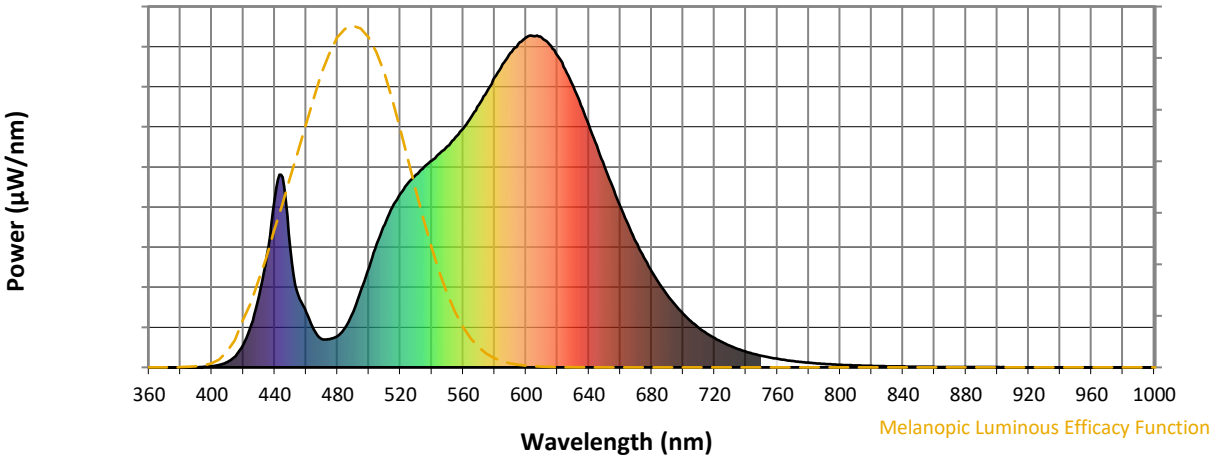
Melanopic Flux vs. Wavelength



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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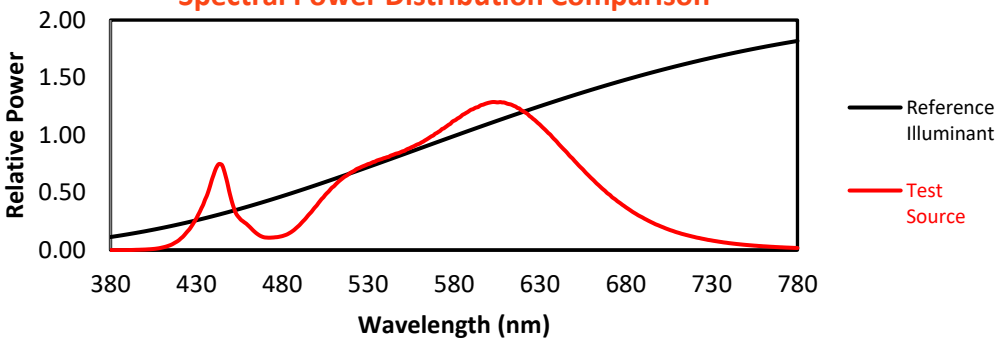
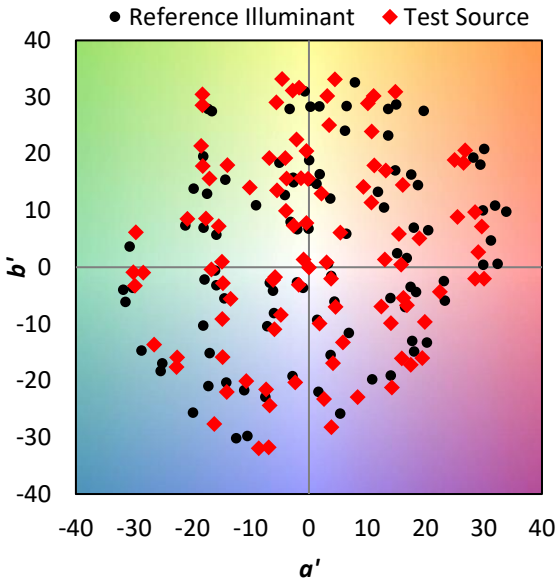
Summary

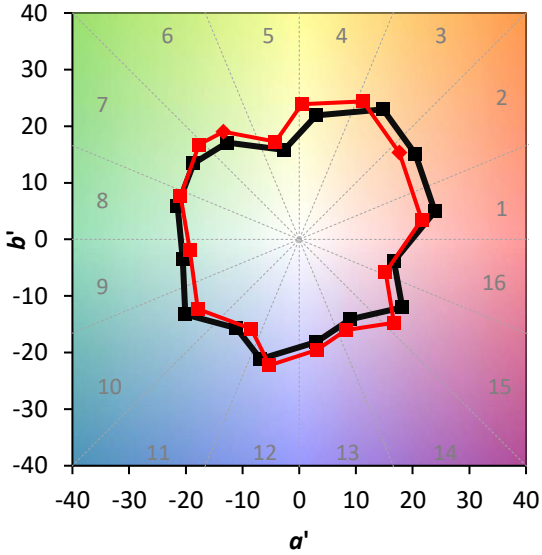
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

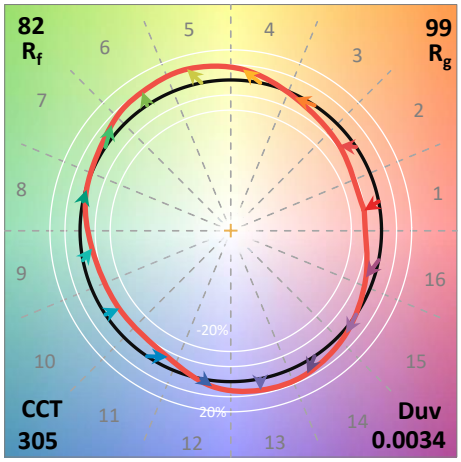
Spectral Power Distribution Comparison

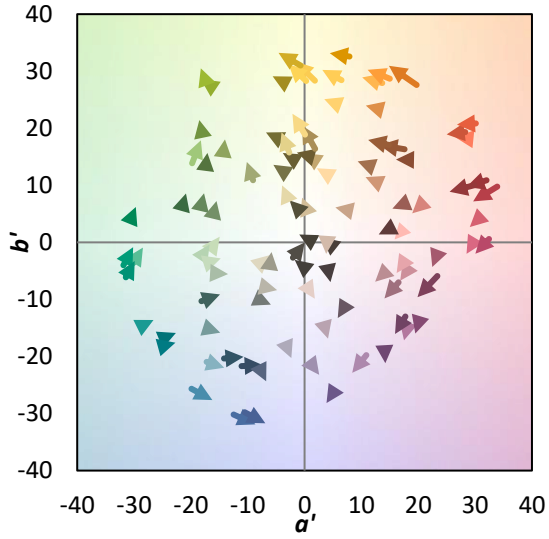


Color Vector Graphics









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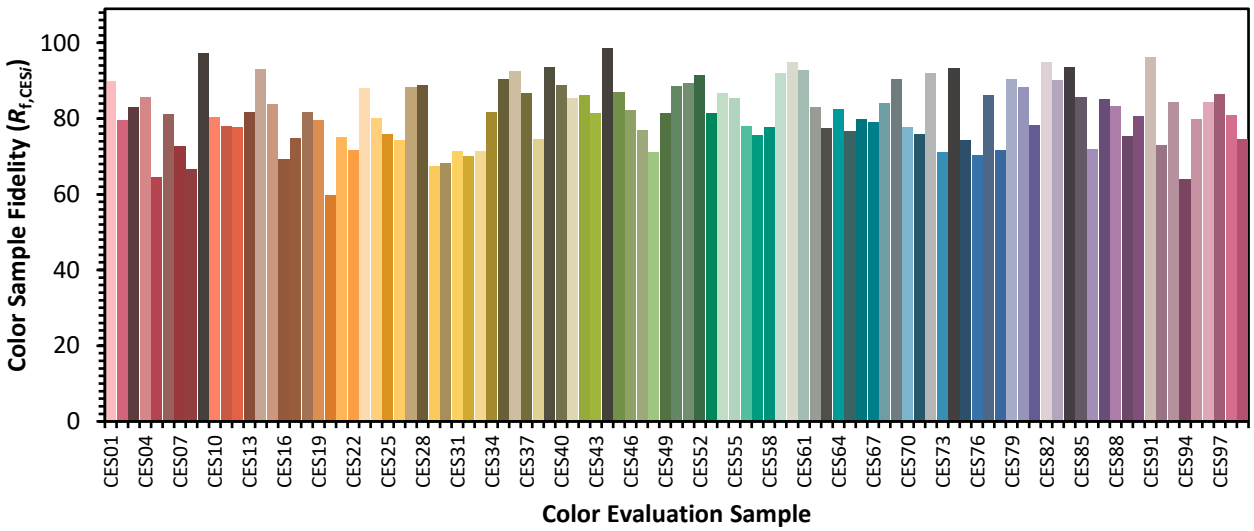
Individual Sample Fidelity Index ($R_{f,i}$)

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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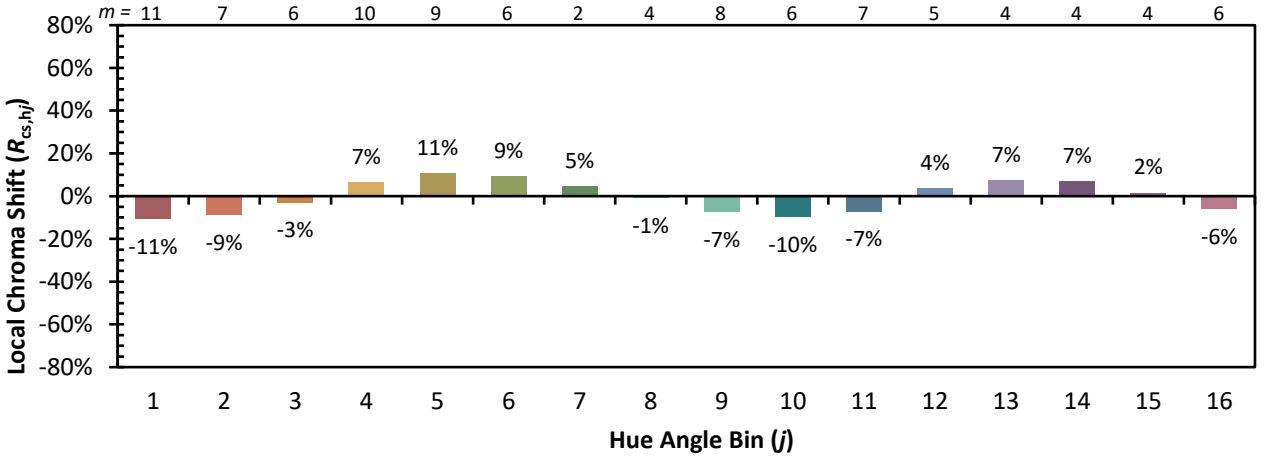
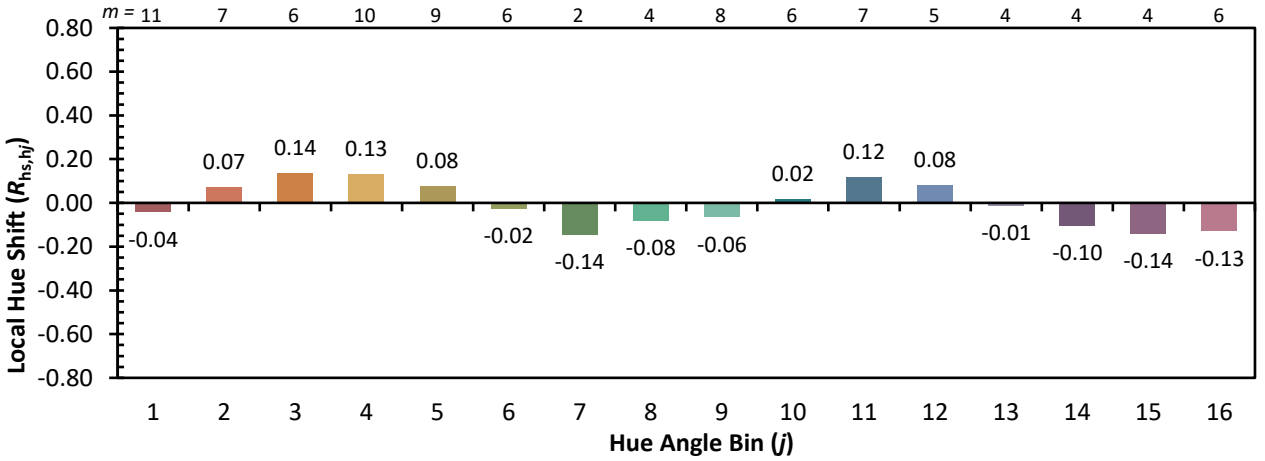
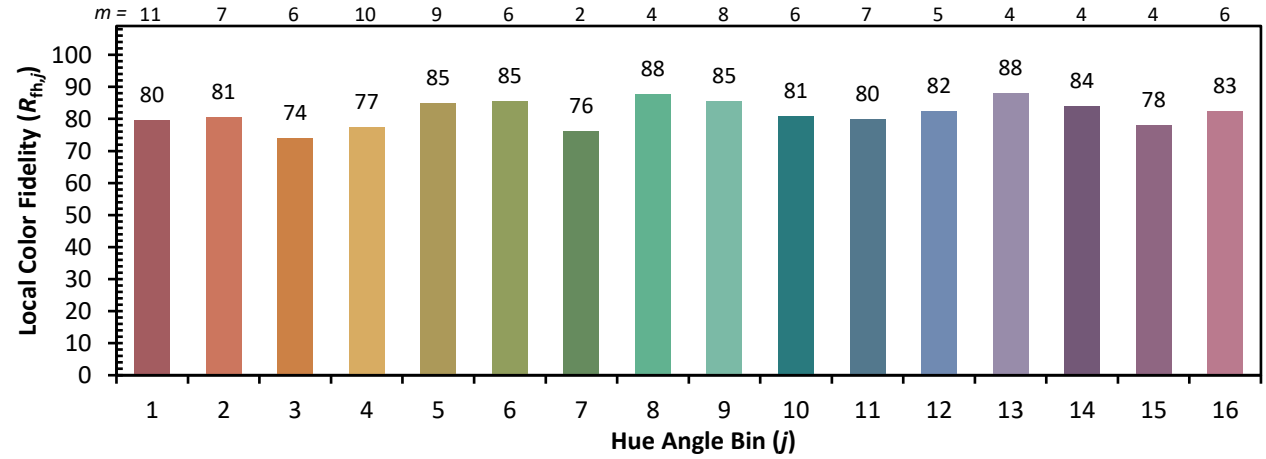
Color Rendition by Hue-Angle Bin







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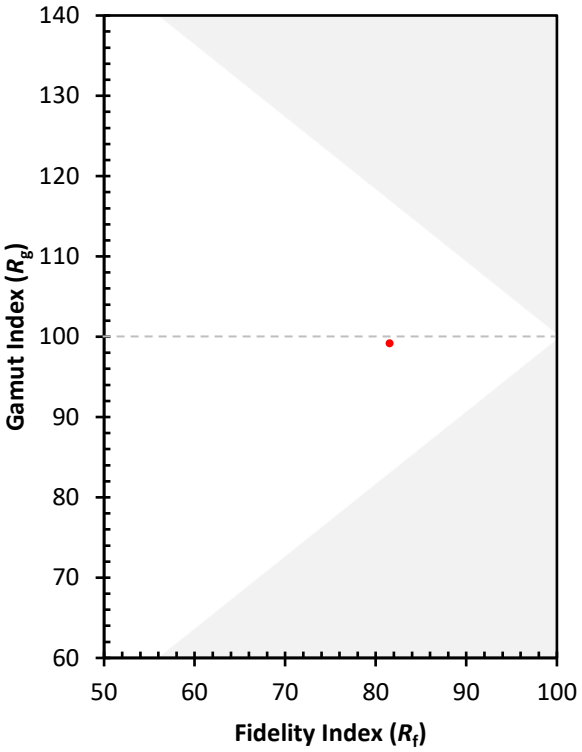
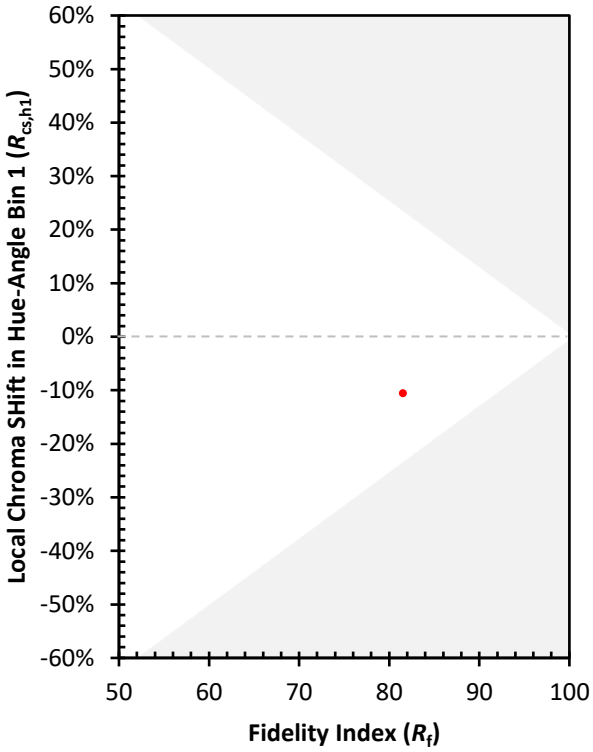
Measure Comparisons





(END OF REPORT)