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: P324978

Luminaire Tested: **GLEON-SA4D-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:	P324978
	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-SA4D-830-U-AFL-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 1200mA 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:	20361 lumens
Efficiency:	N/A
Efficacy:	78.9 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	258
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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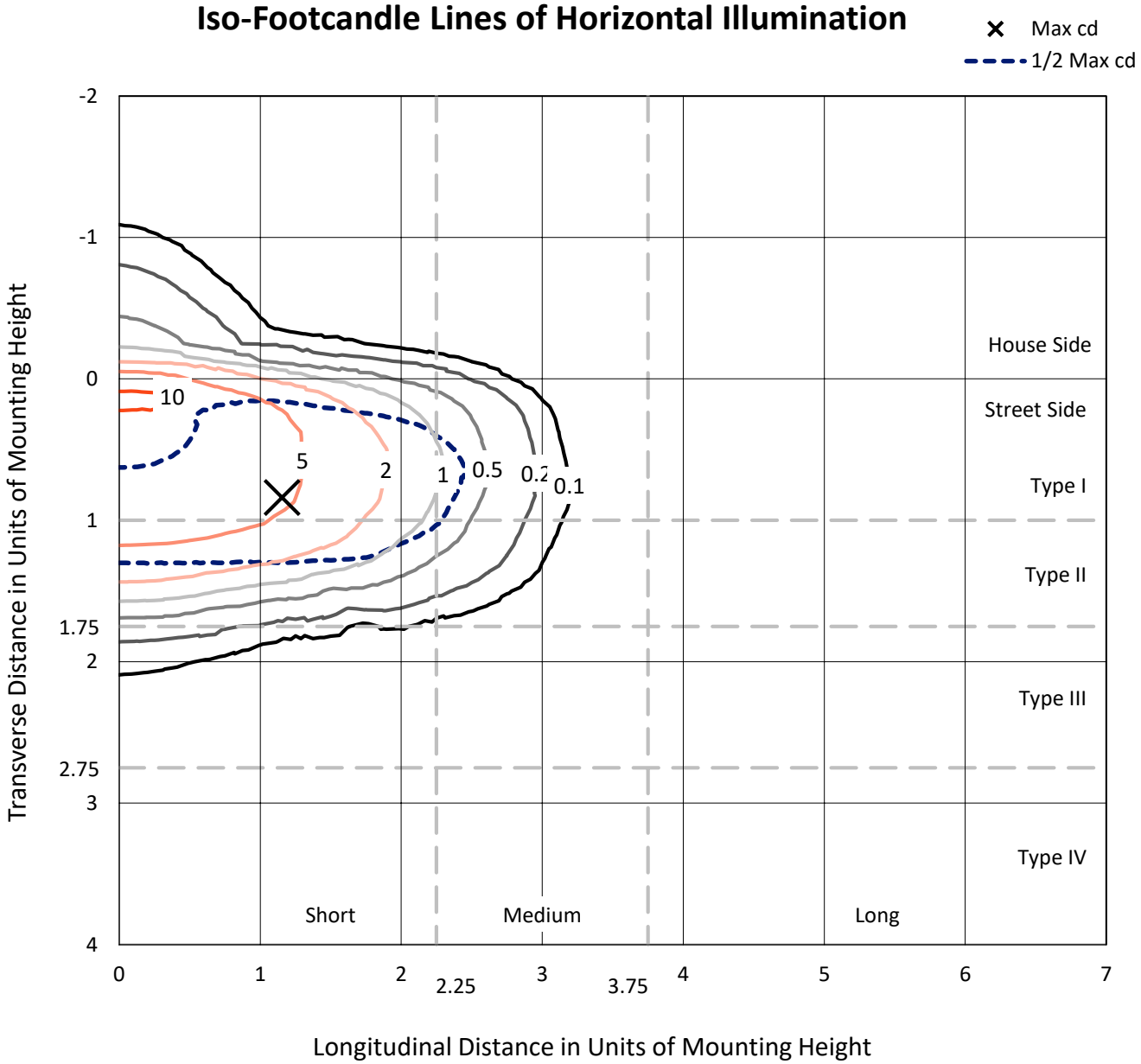
Scaled Data Report

REPORT NUMBER: P324978
CATALOG NUMBER: GLEON-SA4D-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
Type II - Short - N/A

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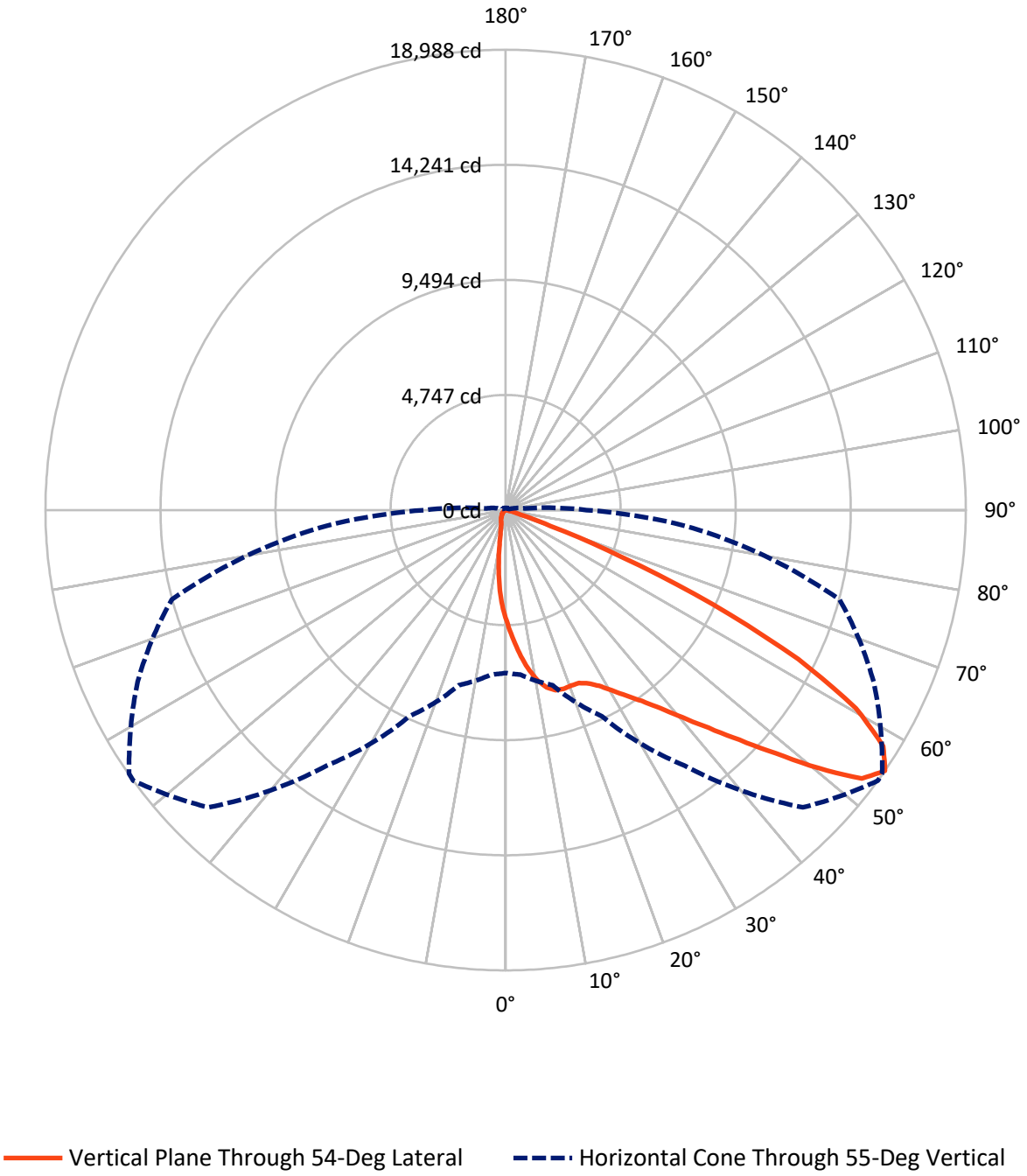
Luminous Intensity Polar Plot



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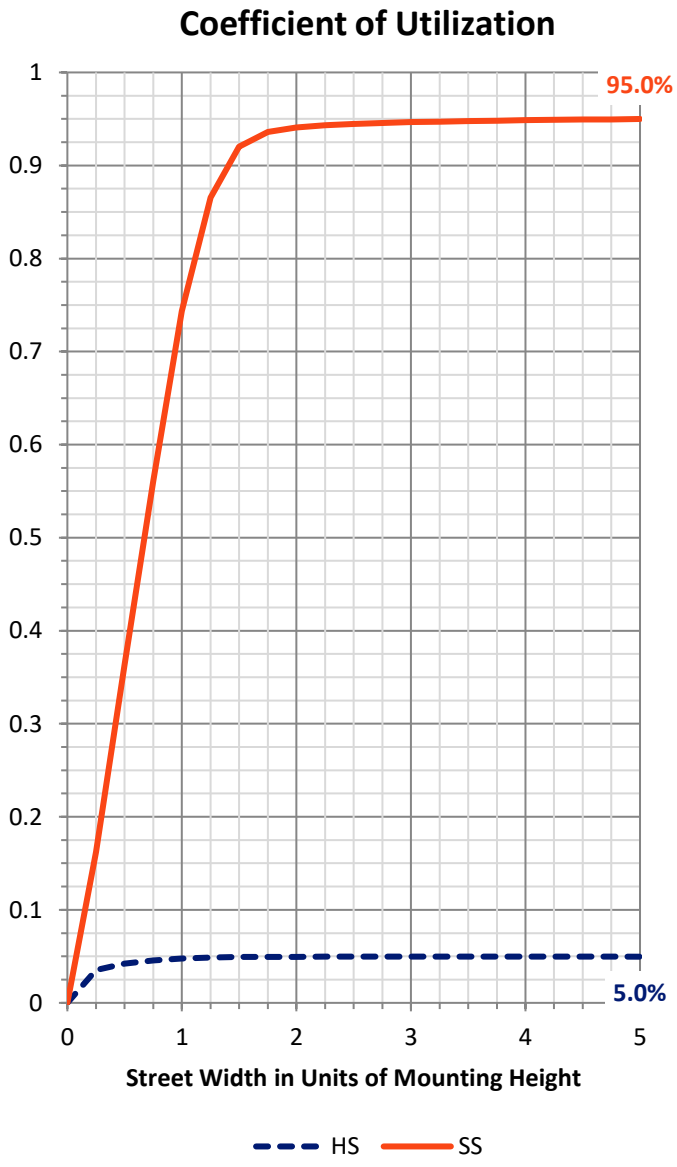
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1015.9	0.0	1015.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	19345.1	0.0	19345.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	20361.0	0.0	20361.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.9	2.1
10°-20°	1151.7	5.7
20°-30°	1966.3	9.7
30°-40°	3155.5	15.5
40°-50°	5042.6	24.8
50°-60°	5403.2	26.5
60°-70°	2774.2	13.6
70°-80°	420.2	2.1
80°-90°	27.4	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°	20361.0	100.0
0°-180°	20361.0	100.0



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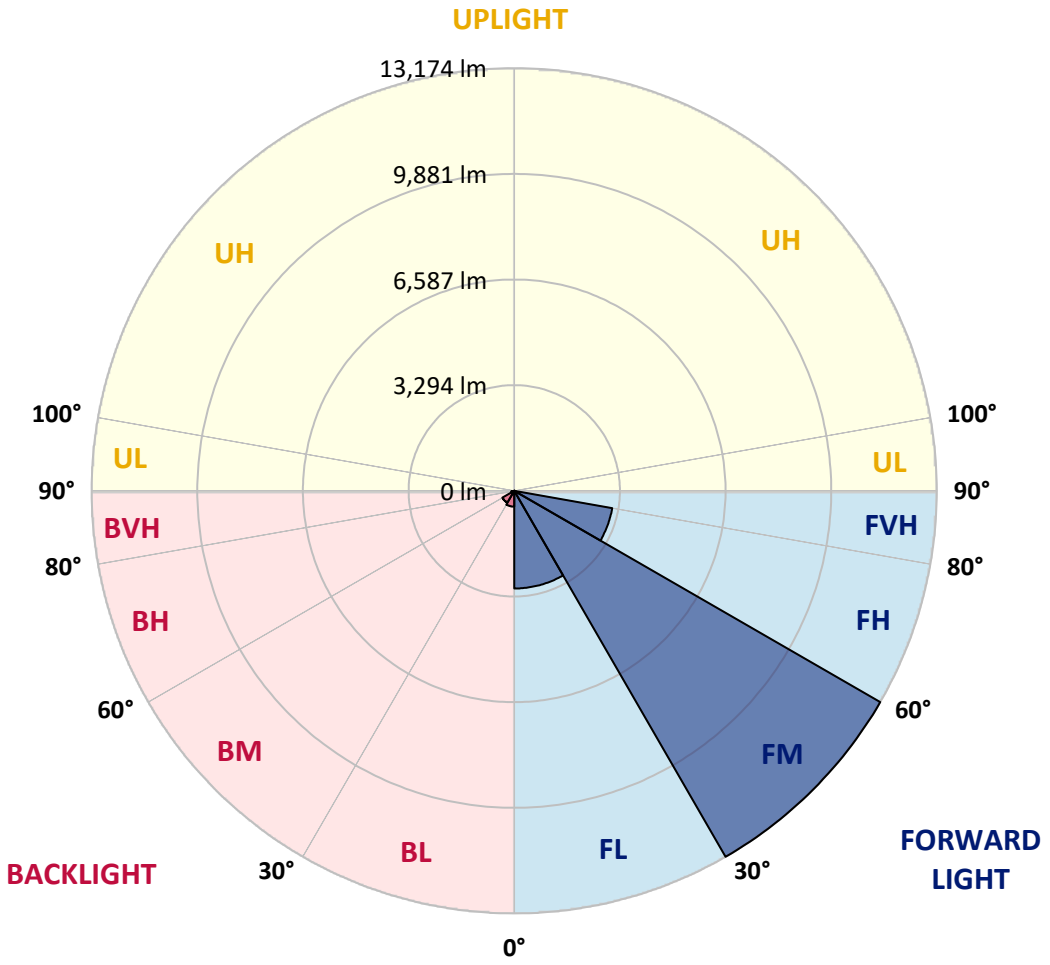
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3043.6	14.9			
FM	(30°-60°)	13174.5	64.7			
FH	(60°-80°)	3100.8	15.2			G2/5000
FVH	(80°-90°)	26.3	0.1			G1/100
BL	(0°-30°)	494.3	2.4	B1/500		
BM	(30°-60°)	426.9	2.1	B1/1000		
BH	(60°-80°)	93.6	0.5	B0/110		G0/110
BVH	(80°-90°)	1.1	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-G2
Type II Short



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Scaled Data Report

REPORT NUMBER: P324978
CATALOG NUMBER: GLEON-SA4D-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4560.0	4560.0	4560.0	4560.0	4560.0	4560.0	*4560.0*	4560.0	4560.0	4560.0	4560.0
2.5°	5722.5	5637.2	5639.8	5601.1	5459.6	5348.8	*5233.6*	5206.3	5027.0	4838.8	4657.6
5°	6711.7	6649.3	6634.3	6559.6	6362.6	6154.2	*5930.9*	5879.0	5528.2	5143.0	4764.0
7.5°	7219.9	7220.8	7208.5	7181.2	7058.1	6855.9	*6583.3*	6528.8	6051.3	5473.6	4874.8
10°	7072.2	7105.6	7174.2	7264.8	7358.9	7333.4	*7128.5*	7079.2	6560.5	5823.6	4997.9
12.5°	6727.5	6731.9	6808.4	6957.0	7227.8	7505.7	*7509.2*	7492.5	7046.7	6189.4	5133.4
15°	6556.1	6572.8	6600.9	6696.7	6953.5	7398.4	*7716.7*	7740.5	7492.5	6578.0	5277.6
17.5°	6668.6	6692.3	6668.6	6680.0	6828.6	7228.7	*7752.8*	7813.5	7882.0	6962.3	5413.8
20°	6973.7	6995.7	6953.5	6906.9	6935.9	7179.5	*7727.3*	7809.1	8187.2	7303.5	5528.2
22.5°	7385.2	7394.0	7329.8	7253.3	7232.2	7346.5	*7748.4*	7832.8	8431.6	7612.1	5600.3
25°	7838.1	7846.0	7766.0	7678.0	7627.9	7674.5	*7921.6*	7984.9	8647.0	7906.7	5641.6
27.5°	8331.4	8338.4	8238.2	8130.0	8072.0	8073.7	*8207.4*	8275.1	8876.5	8242.6	5675.0
30°	8852.8	8849.3	8756.9	8606.6	8532.7	8531.0	*8618.9*	8687.5	9208.9	8673.4	5720.7
32.5°	9438.4	9431.4	9300.4	9113.9	9030.4	9042.7	*9121.0*	9160.5	9621.3	9132.4	5802.5
35°	10209.5	10189.3	9991.5	9760.2	9606.3	9601.9	*9667.9*	9699.6	10147.1	9688.1	5938.8
37.5°	11210.2	11191.7	10923.5	10587.6	10371.3	10290.4	*10368.7*	10409.1	10897.2	10401.2	6157.7
40°	12196.8	12178.3	12019.1	11711.4	11378.1	11183.8	*11245.4*	11288.4	11833.6	11266.5	6433.8
42.5°	12877.3	12893.2	12948.6	12974.1	12661.9	12253.9	*12282.1*	12326.9	12817.5	12191.5	6749.5
45°	13056.7	13091.0	13404.0	14018.7	14135.6	13817.3	*13522.7*	13547.4	13817.3	13116.5	7065.2
47.5°	12517.7	12581.0	13185.1	14328.2	15318.3	15543.4	*14985.9*	14953.4	14776.6	13864.8	7289.4
50°	11292.8	11350.9	12133.5	13824.3	15677.0	17191.2	*16739.2*	16643.4	15618.1	14312.4	7368.5
52.5°	9520.2	9590.5	10226.3	12238.1	15000.8	17926.3	*18399.3*	18319.3	16235.4	14347.5	7381.7
55°	*6723.1*	*6808.4*	*7481.1*	*9379.5*	*12858.0*	*17341.5*	*18987.6*	*18963.9*	*16748.0*	*14254.3*	*7409.9*
57.5°	3778.3	3839.9	4565.3	6012.6	9417.3	15104.6	*18373.0*	18530.4	17057.5	14092.5	7452.1
60°	1677.7	1694.4	2069.9	2993.1	5513.2	11543.4	*16613.5*	16879.0	16792.0	13876.2	7523.3
62.5°	930.3	916.2	916.2	1244.2	2396.1	7146.1	*13547.4*	13986.1	15658.6	13620.3	7526.8
65°	728.9	715.7	677.9	683.2	912.7	3171.6	*9381.2*	10161.2	13506.0	12870.3	7273.6
67.5°	618.1	606.7	568.9	554.0	567.1	1046.4	*5154.5*	5964.3	10248.2	10920.9	6300.2
70°	522.3	514.4	495.0	476.6	443.2	517.0	*1972.3*	2522.7	6315.1	7264.8	4300.7
72.5°	420.3	416.8	423.8	408.0	367.5	344.7	*674.4*	816.9	2836.6	3242.0	1771.8
75°	362.3	360.5	364.0	348.2	302.5	240.0	*342.9*	374.6	800.2	793.1	358.8
77.5°	235.7	238.3	301.6	294.6	260.3	160.0	*177.6*	191.7	242.7	182.0	109.0
80°	150.4	148.6	153.0	244.4	233.9	122.2	*88.8*	93.2	116.9	89.7	52.8
82.5°	91.4	89.7	100.2	114.3	117.8	85.3	*54.5*	55.4	73.0	58.0	28.1
85°	7.9	10.6	60.7	56.3	40.4	26.4	*26.4*	28.1	38.7	34.3	15.8
87.5°	0.0	0.0	10.6	15.8	8.8	9.7	*9.7*	10.6	14.9	14.9	7.9
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: P324978
CATALOG NUMBER: GLEON-SA4D-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4560.0	4560.0	4560.0	4560.0	4560.0	4560.0	4560.0	4560.0	4560.0	4560.0	4560.0
2.5°	4563.6	4472.1	4287.5	4109.8	3959.5	3814.4	3649.1	3485.5	3409.0	3378.3	3346.6
5°	4571.5	4383.3	4002.6	3619.2	3221.8	2863.9	2558.8	2245.7	2089.2	2020.6	1989.0
7.5°	4582.0	4295.4	3679.9	3036.2	2396.1	1910.7	1486.9	1214.3	1096.5	1078.0	1032.3
10°	4583.8	4189.0	3305.3	2392.6	1606.5	1151.9	886.3	745.6	693.8	685.0	670.0
12.5°	4587.3	4063.2	2889.4	1771.8	1071.0	770.3	641.0	594.4	580.3	579.5	579.5
15°	4597.9	3931.3	2457.6	1276.7	769.4	610.2	562.8	544.3	539.0	541.6	540.8
17.5°	4597.9	3775.7	2033.8	951.4	621.7	548.7	522.3	510.0	508.2	510.9	511.8
20°	4564.4	3586.7	1645.2	740.4	551.3	509.1	485.4	473.9	469.5	471.3	472.2
22.5°	4484.4	3354.5	1328.6	612.9	504.7	473.1	447.6	430.0	422.9	423.8	423.8
25°	4359.6	3079.3	1039.3	530.2	466.9	434.4	404.5	384.3	379.9	379.0	380.7
27.5°	4199.5	2775.1	827.4	466.9	422.1	391.3	361.4	344.7	341.2	342.0	342.9
30°	4042.1	2459.4	652.4	413.3	371.9	342.9	320.1	312.2	312.2	314.8	315.7
32.5°	3897.9	2156.0	516.1	366.7	327.1	300.7	287.5	286.7	291.0	292.8	293.7
35°	3774.0	1875.5	427.3	330.6	291.9	269.1	264.7	268.2	273.5	277.0	277.9
37.5°	3686.0	1624.9	373.7	300.7	264.7	246.2	245.3	252.4	259.4	267.3	269.1
40°	3649.1	1413.0	336.8	274.3	242.7	228.6	226.0	235.7	248.8	260.3	262.0
42.5°	3618.3	1239.8	305.1	248.8	225.1	204.9	204.0	216.3	232.1	243.6	246.2
45°	3591.9	1100.9	276.1	221.6	202.2	175.9	178.5	194.3	206.6	218.9	221.6
47.5°	3537.4	986.6	244.4	192.6	167.1	150.4	155.6	169.7	179.4	197.8	200.5
50°	3439.8	893.4	211.9	157.4	136.3	130.1	138.1	147.7	160.0	175.9	177.6
52.5°	3373.9	823.0	183.8	131.9	112.6	114.3	122.2	125.7	132.8	138.9	137.2
55°	*3336.1*	*784.3*	*160.9*	*114.3*	*95.8*	*101.1*	*102.9*	*98.5*	*95.0*	*88.8*	*86.2*
57.5°	3331.7	749.2	143.3	99.4	84.4	87.1	80.9	65.9	53.6	46.6	44.8
60°	3324.6	706.1	129.3	83.5	74.7	71.2	58.0	36.1	25.5	23.7	23.7
62.5°	3248.1	639.3	118.7	70.3	63.3	53.6	33.4	16.7	14.1	14.9	14.9
65°	3004.6	546.0	108.2	57.2	50.1	38.7	16.7	9.7	5.3	6.2	6.2
67.5°	2554.4	435.3	96.7	44.0	37.8	24.6	9.7	4.4	0.0	0.0	0.0
70°	1710.2	269.9	81.8	30.8	24.6	14.9	7.0	0.9	0.0	0.0	0.0
72.5°	656.0	146.0	65.9	18.5	15.8	10.6	4.4	0.0	0.0	0.0	0.0
75°	147.7	95.8	45.7	13.2	11.4	7.0	1.8	0.0	0.0	0.0	0.0
77.5°	56.3	69.5	26.4	8.8	7.9	4.4	0.0	0.0	0.0	0.0	0.0
80°	27.3	41.3	12.3	5.3	4.4	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	14.1	15.8	5.3	2.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.9	7.9	2.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.6	0.9	0.9	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

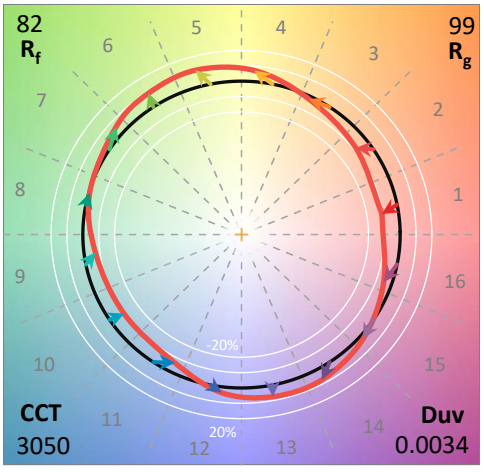
Test Information

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

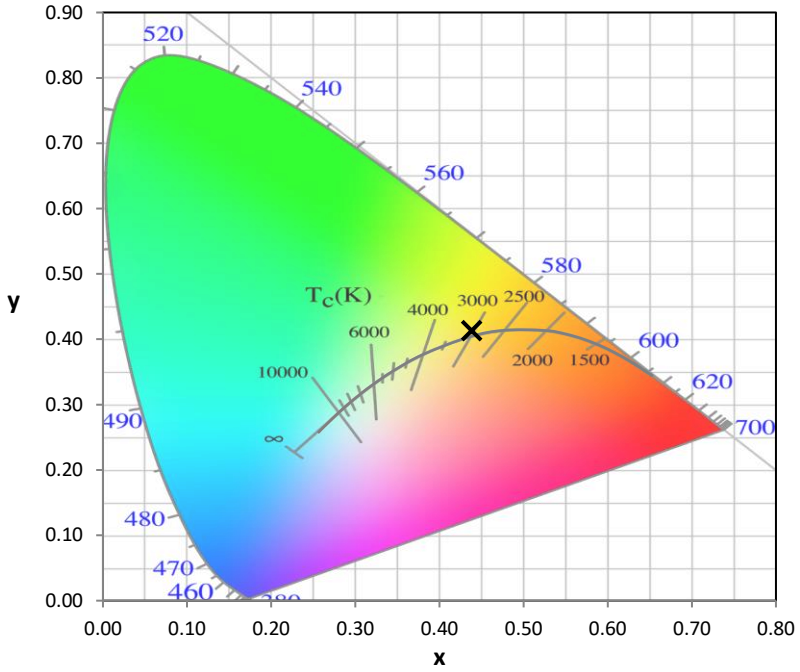
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

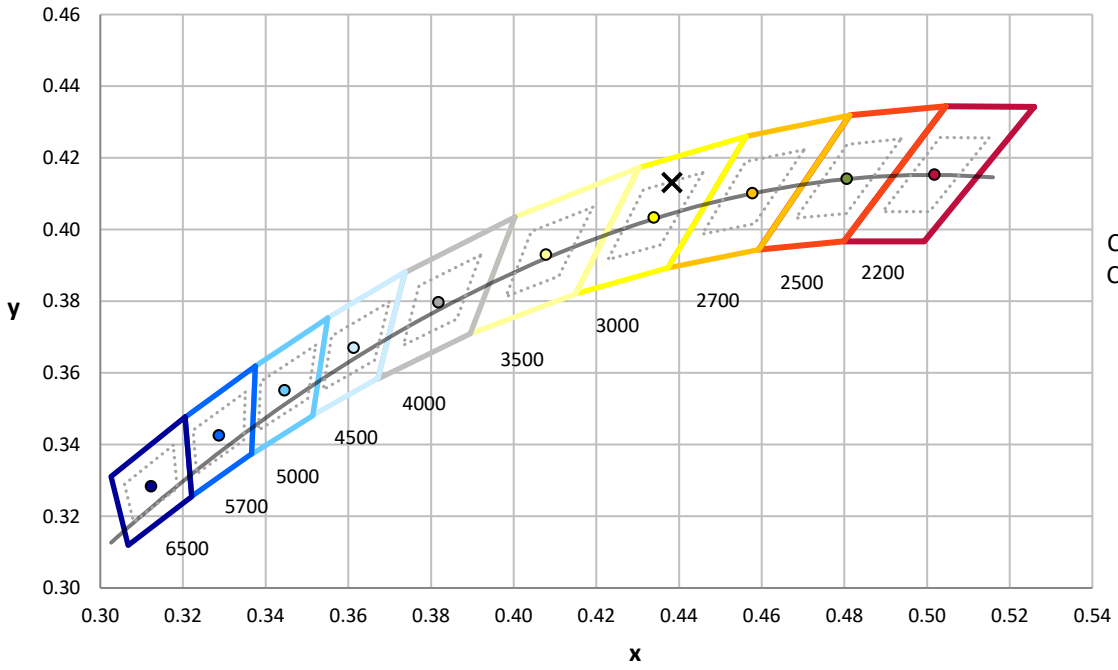
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

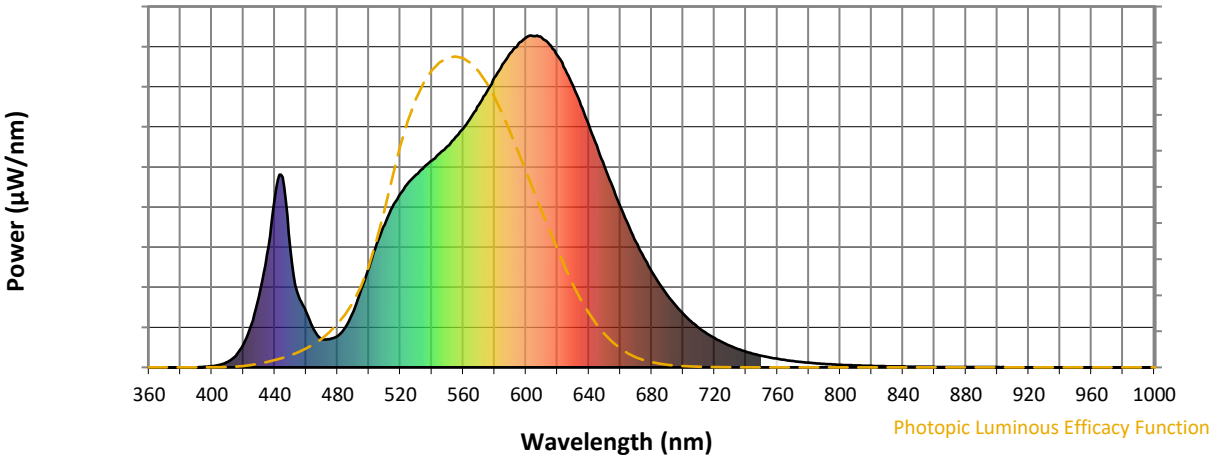


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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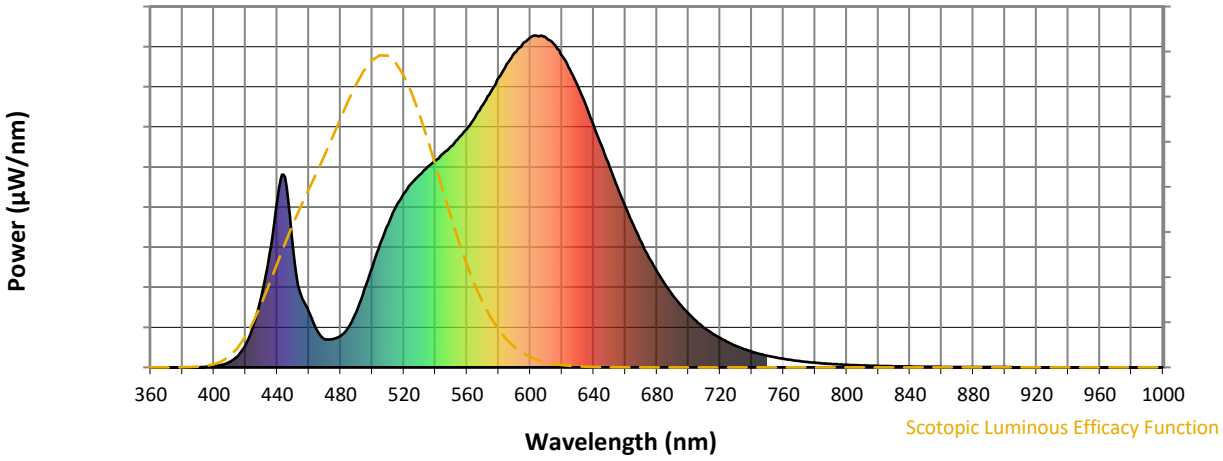
Scotopic Flux vs. Wavelength



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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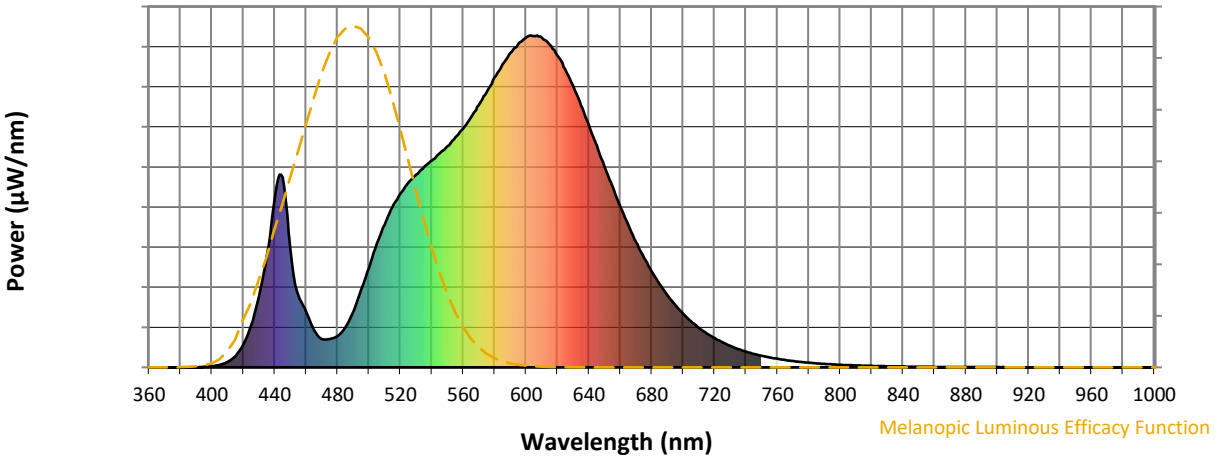
Melanopic Flux vs. Wavelength



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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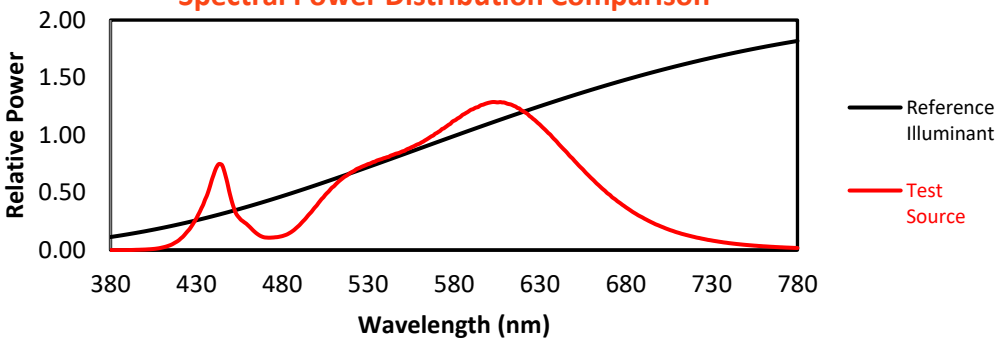
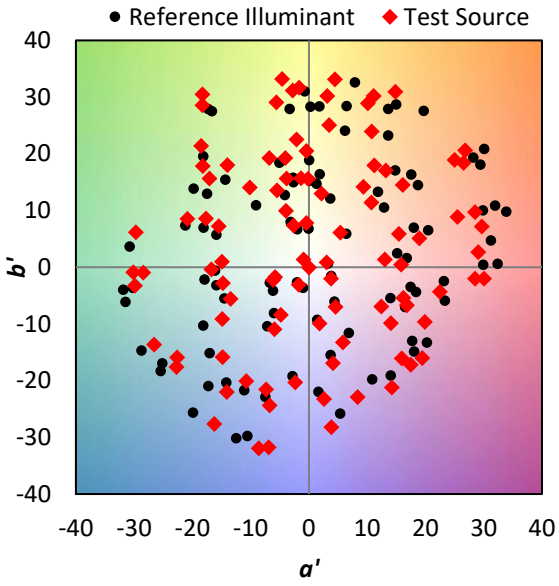
Summary

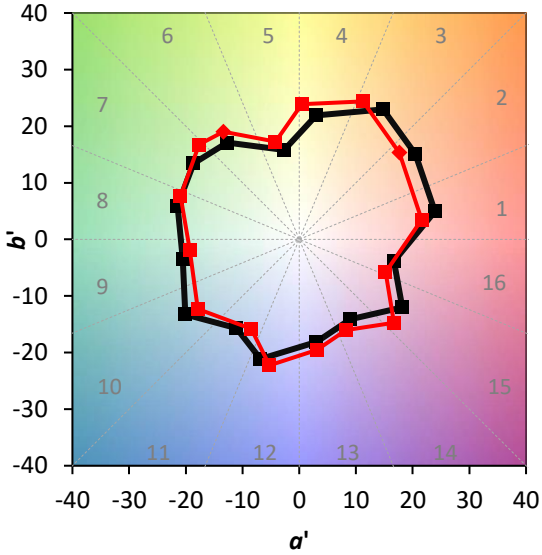
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

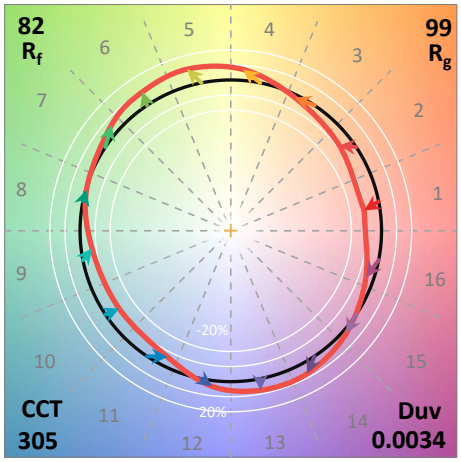
Spectral Power Distribution Comparison

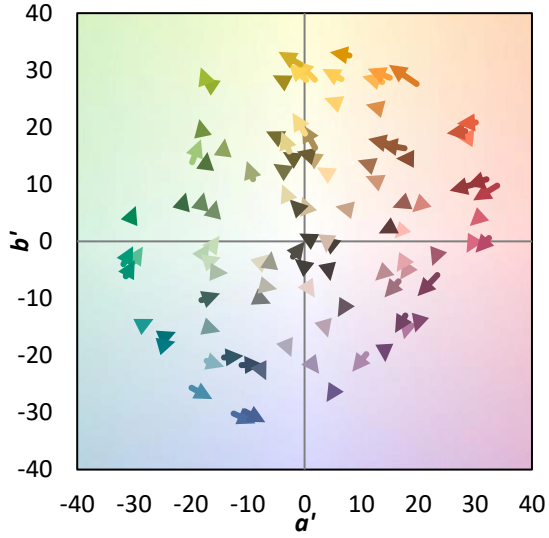


Color Vector Graphics









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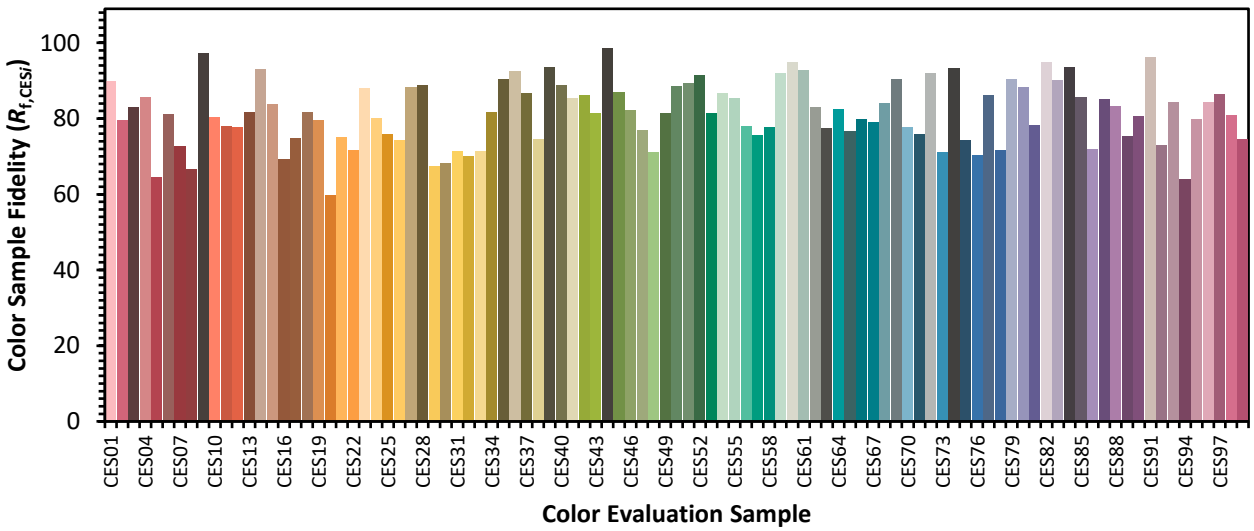
Individual Sample Fidelity Index ($R_{f,i}$)

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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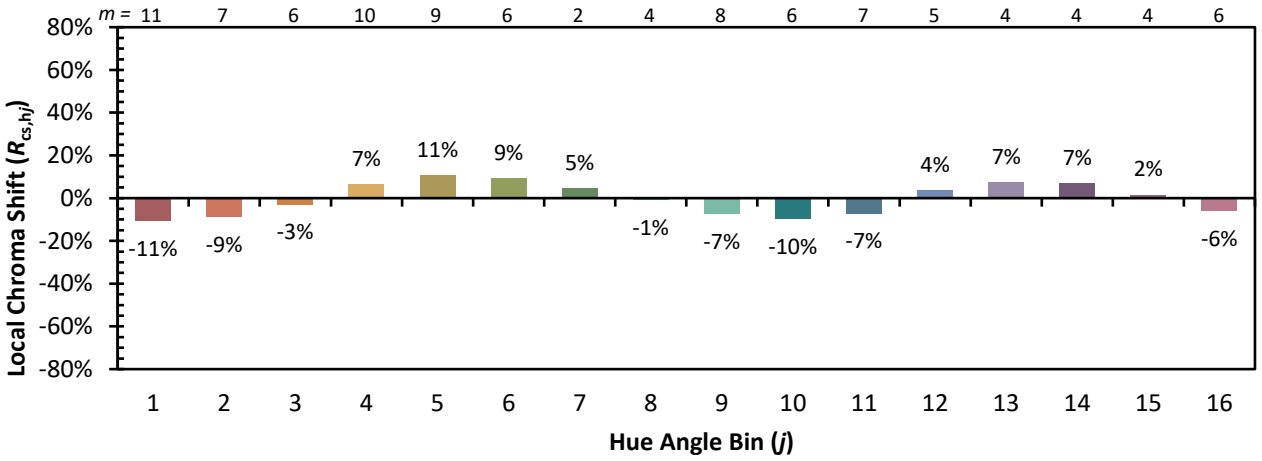
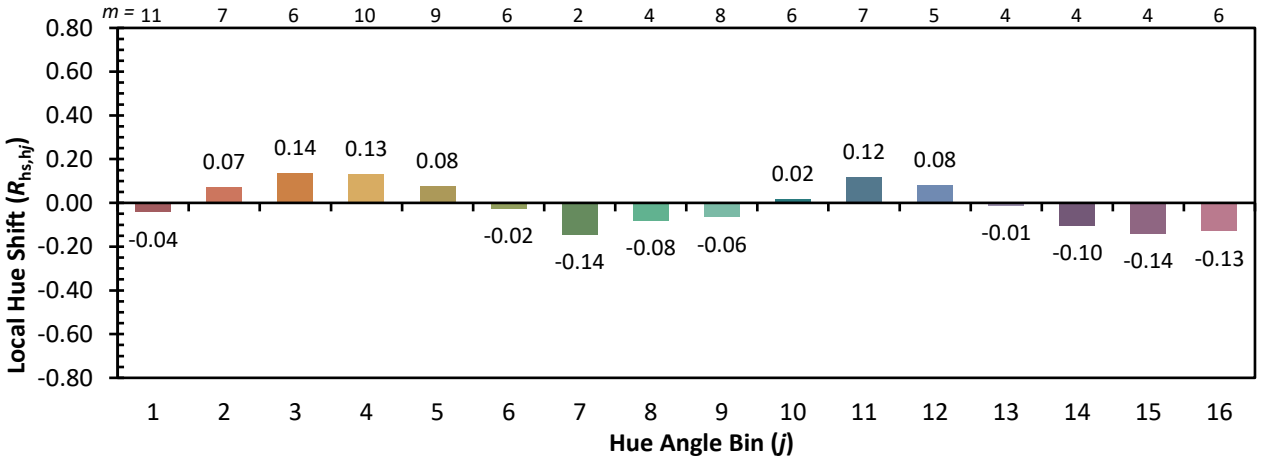
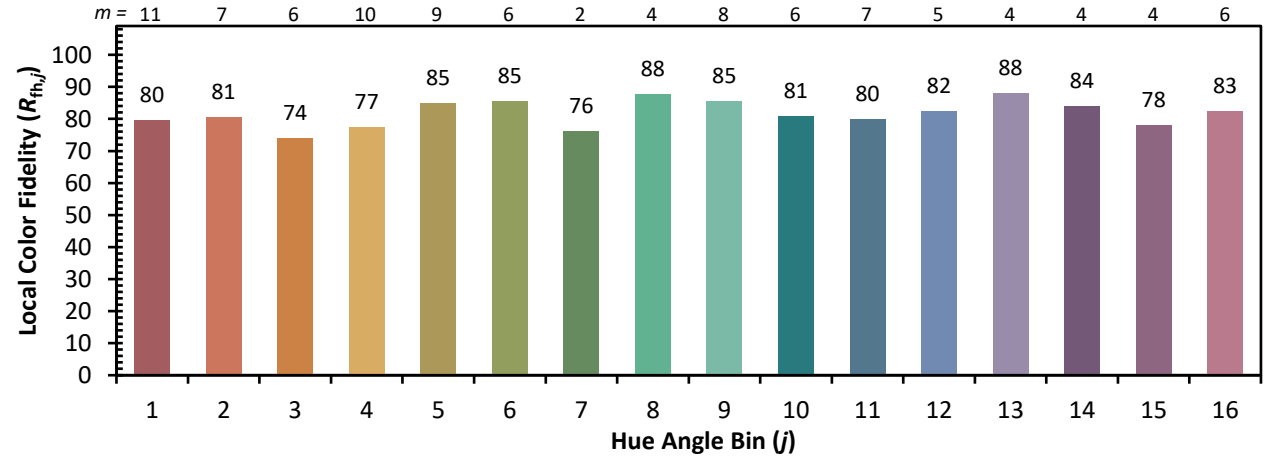
Color Rendition by Hue-Angle Bin







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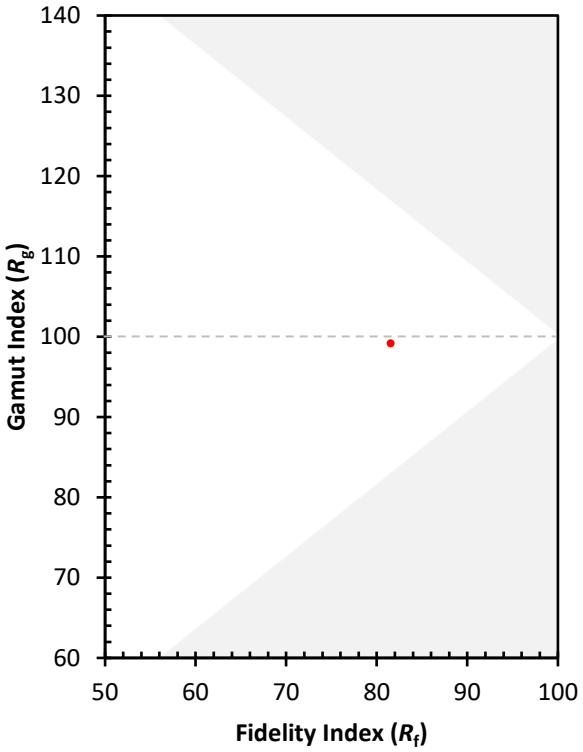
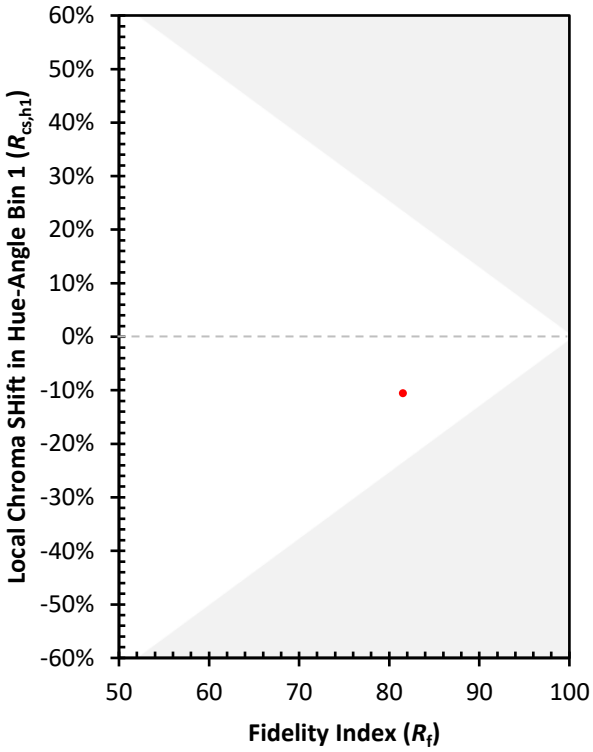
Measure Comparisons





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