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: P324961

Luminaire Tested: **GLEON-SA7B-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:	P324961
	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-SA7B-830-U-AFL-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(7) 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:	26294 lumens
Efficiency:	N/A
Efficacy:	89.1 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):	295
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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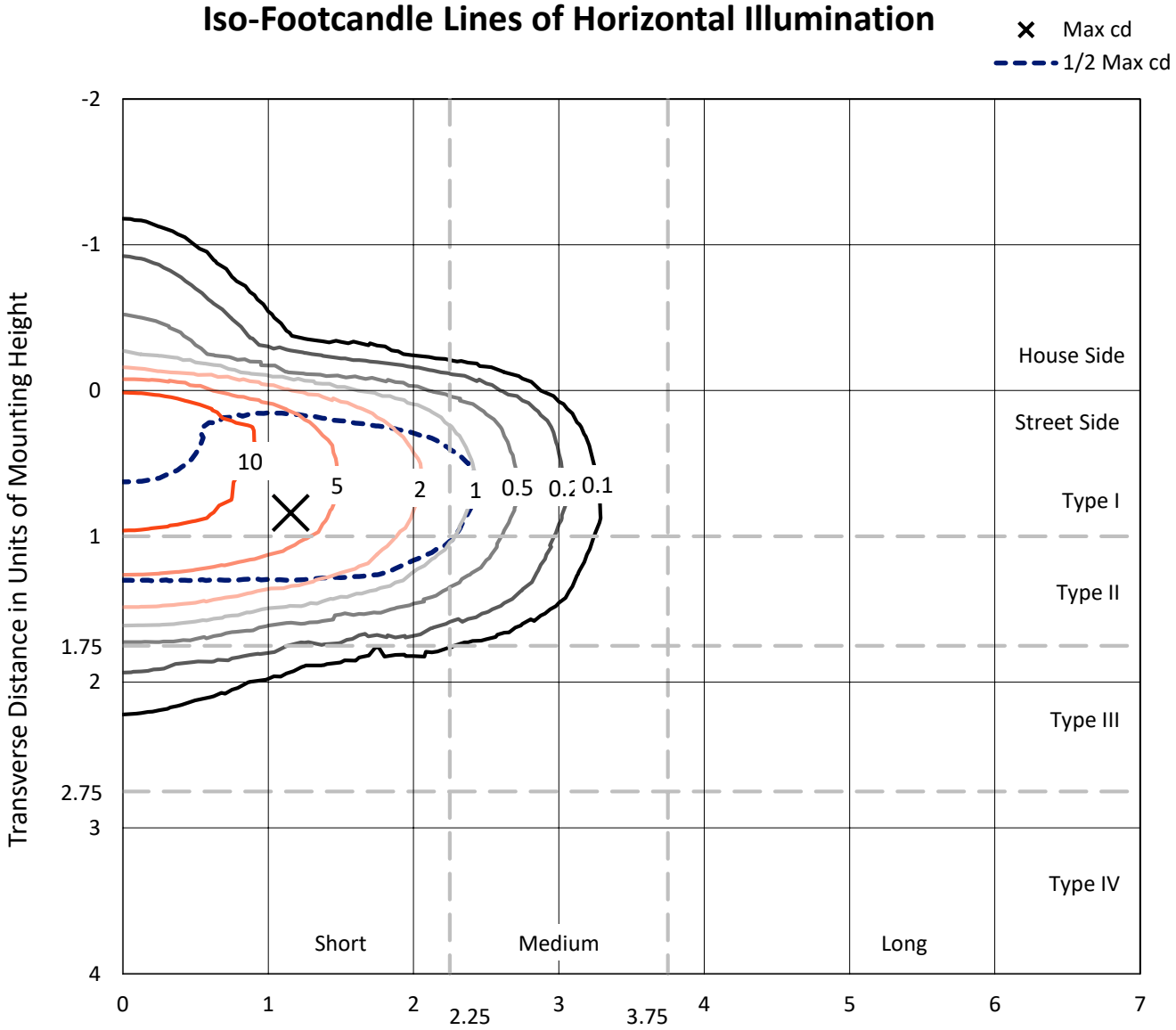
REPORT NUMBER: P324961
CATALOG NUMBER: GLEON-SA7B-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
Type II - Short - N/A

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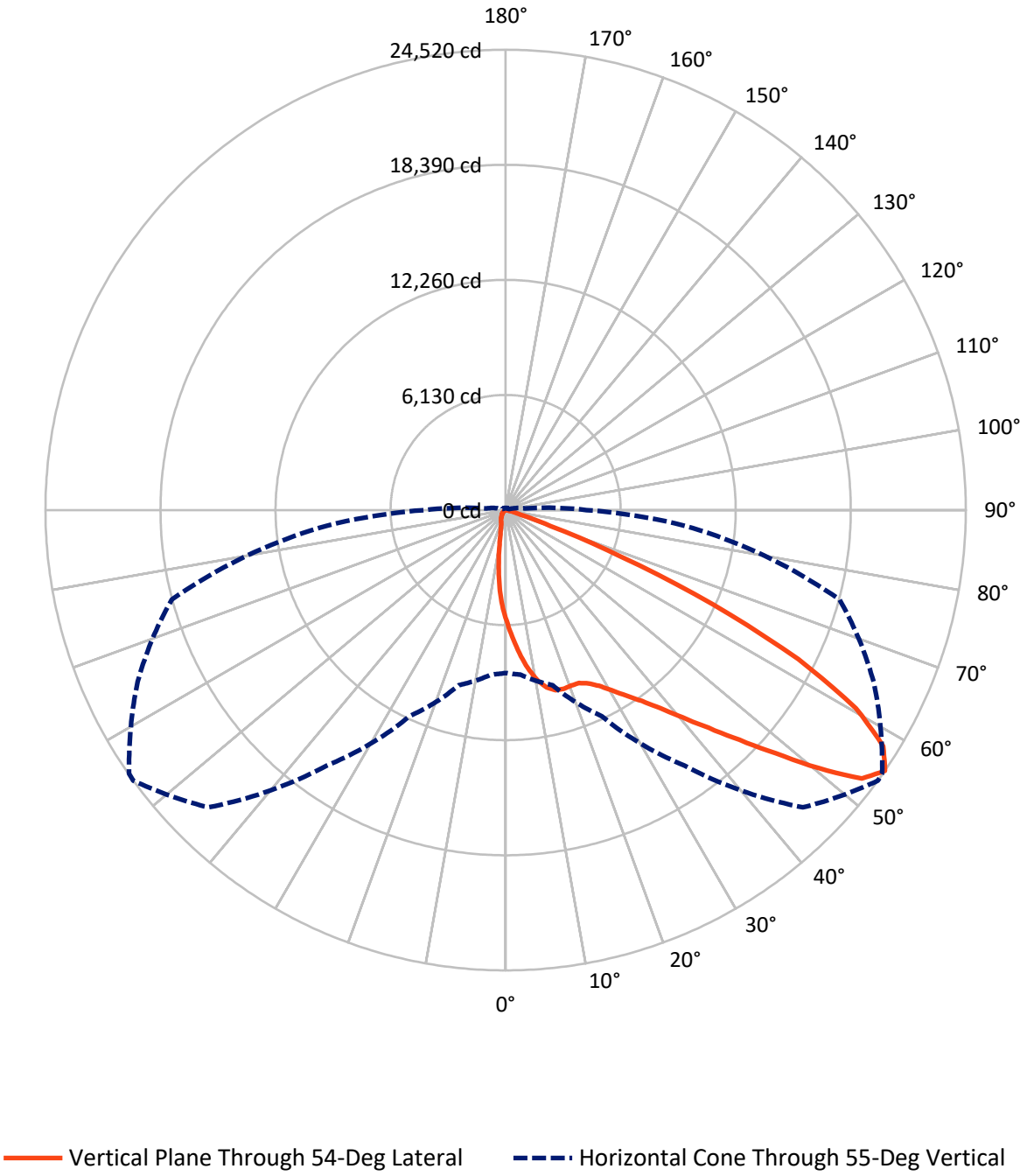
Luminous Intensity Polar Plot



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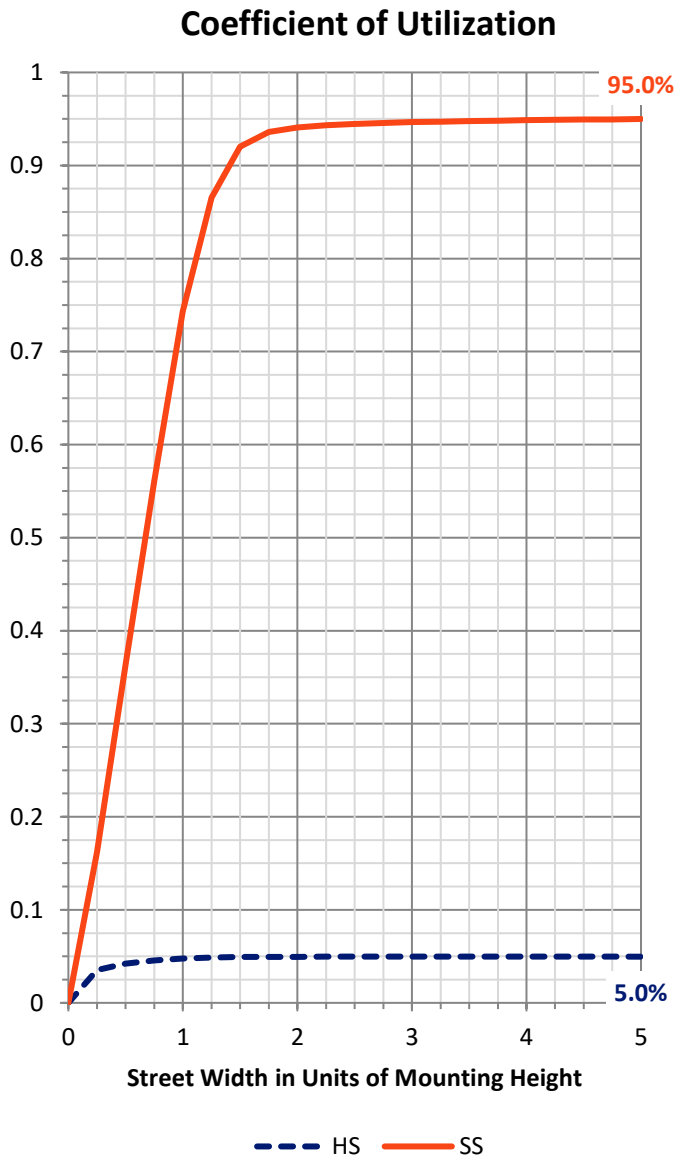
REPORT NUMBER: P324961
CATALOG NUMBER: GLEON-SA7B-830-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1311.9	0.0	1311.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	24982.1	0.0	24982.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	26294.0	0.0	26294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.3	2.1
10°-20°	1487.3	5.7
20°-30°	2539.2	9.7
30°-40°	4075.0	15.5
40°-50°	6511.9	24.8
50°-60°	6977.7	26.5
60°-70°	3582.6	13.6
70°-80°	542.7	2.1
80°-90°	35.3	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°	26294.0	100.0
0°-180°	26294.0	100.0



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REPORT NUMBER: P324961
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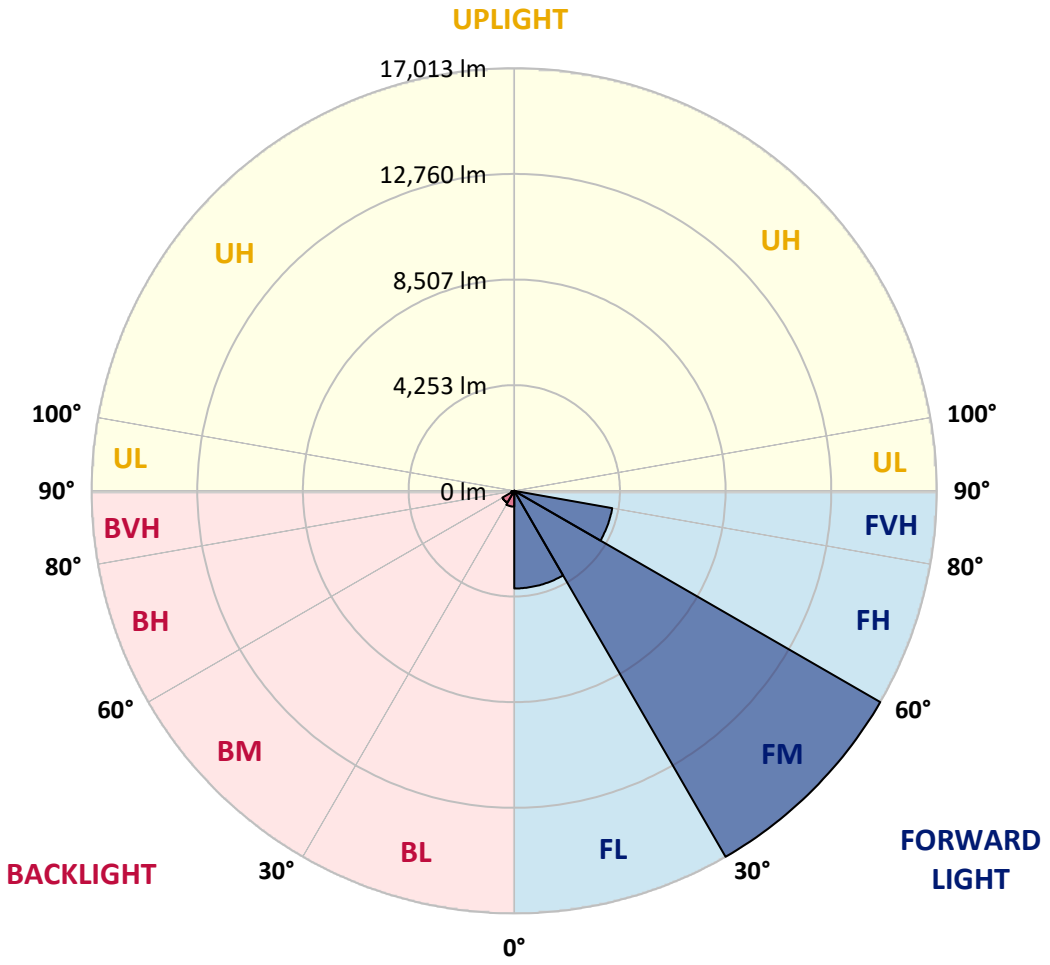
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3930.5	14.9			
FM	(30°-60°)	17013.4	64.7			
FH	(60°-80°)	4004.3	15.2			G2/5000
FVH	(80°-90°)	33.9	0.1			G1/100
BL	(0°-30°)	638.3	2.4	B2/1000		
BM	(30°-60°)	551.3	2.1	B1/1000		
BH	(60°-80°)	120.9	0.5	B1/500		G1/500
BVH	(80°-90°)	1.4	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: P324961
CATALOG NUMBER: GLEON-SA7B-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5888.8	5888.8	5888.8	5888.8	5888.8	5888.8	5888.8	5888.8	5888.8	5888.8	5888.8
2.5°	7390.0	7279.8	7283.2	7233.3	7050.4	6907.4	6758.6	6723.4	6491.8	6248.8	6014.8
5°	8667.4	8586.8	8567.5	8471.0	8216.6	7947.5	7659.1	7592.1	7139.0	6641.6	6152.2
7.5°	9323.7	9324.9	9309.0	9273.8	9114.8	8853.6	8501.6	8431.2	7814.6	7068.6	6295.3
10°	9133.0	9176.1	9264.7	9381.7	9503.2	9470.2	9205.7	9142.1	8472.1	7520.5	6454.3
12.5°	8687.9	8693.5	8792.3	8984.2	9334.0	9692.8	9697.3	9675.8	9100.0	7992.9	6629.2
15°	8466.4	8488.0	8524.3	8648.1	8979.7	9554.3	9965.3	9996.0	9675.8	8494.8	6815.4
17.5°	8611.8	8642.4	8611.8	8626.5	8818.4	9335.1	10011.9	10090.2	10178.8	8991.0	6991.4
20°	9005.8	9034.2	8979.7	8919.5	8957.0	9271.5	9978.9	10084.5	10572.8	9431.6	7139.0
22.5°	9537.2	9548.6	9465.7	9366.9	9339.6	9487.3	10006.2	10115.2	10888.5	9830.2	7232.1
25°	10122.0	10132.2	10028.9	9915.4	9850.6	9910.8	10229.9	10311.6	11166.7	10210.6	7285.5
27.5°	10759.0	10768.1	10638.7	10499.0	10424.1	10426.3	10598.9	10686.4	11463.1	10644.4	7328.6
30°	11432.4	11427.9	11308.6	11114.5	11019.1	11016.8	11130.4	11218.9	11892.3	11200.8	7387.7
32.5°	12188.7	12179.6	12010.4	11769.7	11661.8	11677.7	11778.7	11829.8	12424.8	11793.5	7493.3
35°	13184.5	13158.4	12902.9	12604.3	12405.5	12399.9	12485.0	12525.9	13103.9	12511.1	7669.3
37.5°	14476.7	14452.9	14106.6	13672.8	13393.4	13289.0	13390.0	13442.3	14072.5	13432.1	7952.0
40°	15750.8	15726.9	15521.4	15124.0	14693.6	14442.7	14522.2	14577.8	15281.8	14549.4	8308.6
42.5°	16629.7	16650.1	16721.7	16754.6	16351.5	15824.6	15860.9	15918.8	16552.5	15744.0	8716.2
45°	16861.3	16905.6	17309.8	18103.6	18254.6	17843.5	17463.1	17494.9	17843.5	16938.5	9123.9
47.5°	16165.2	16247.0	17027.1	18503.3	19781.9	20072.6	19352.6	19310.6	19082.4	17904.9	9413.5
50°	14583.5	14658.4	15669.0	17852.6	20245.2	22200.5	21616.9	21493.1	20169.1	18482.8	9515.6
52.5°	12294.3	12385.1	13206.1	15804.2	19372.0	23149.8	23760.7	23657.4	20966.2	18528.3	9532.7
55°	8682.2	8792.3	9661.0	12112.6	16604.7	22394.7	24520.4	24489.7	21628.2	18407.9	9569.0
57.5°	4879.3	4958.8	5895.6	7764.7	12161.4	19505.9	23726.7	23929.9	22027.9	18199.0	9623.5
60°	2166.6	2188.1	2673.0	3865.3	7119.7	14907.1	21454.5	21797.4	21685.0	17919.6	9715.5
62.5°	1201.4	1183.2	1183.2	1606.8	3094.3	9228.4	17494.9	18061.6	20221.3	17589.2	9720.0
65°	941.3	924.3	875.5	882.3	1178.7	4095.8	12114.9	13122.1	17441.6	16620.6	9393.0
67.5°	798.3	783.5	734.7	715.4	732.4	1351.3	6656.4	7702.2	13234.5	14103.1	8136.0
70°	674.5	664.3	639.3	615.5	572.3	667.7	2547.0	3257.8	8155.3	9381.7	5553.8
72.5°	542.8	538.2	547.3	526.9	474.6	445.1	870.9	1054.9	3663.2	4186.7	2288.1
75°	467.8	465.6	470.1	449.7	390.6	310.0	442.9	483.7	1033.3	1024.2	463.3
77.5°	304.3	307.7	389.5	380.4	336.1	206.7	229.4	247.5	313.4	235.1	140.8
80°	194.2	191.9	197.6	315.7	302.0	157.8	114.7	120.4	151.0	115.8	68.1
82.5°	118.1	115.8	129.4	147.6	152.2	110.1	70.4	71.5	94.2	74.9	36.3
85°	10.2	13.6	78.4	72.7	52.2	34.1	34.1	36.3	50.0	44.3	20.4
87.5°	0.0	0.0	13.6	20.4	11.4	12.5	12.5	13.6	19.3	19.3	10.2
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: P324961
CATALOG NUMBER: GLEON-SA7B-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5888.8	5888.8	5888.8	5888.8	5888.8	5888.8	5888.8	5888.8	5888.8	5888.8	5888.8
2.5°	5893.3	5775.2	5536.8	5307.4	5113.2	4925.9	4712.4	4501.2	4402.4	4362.7	4321.8
5°	5903.6	5660.6	5168.9	4673.8	4160.5	3698.4	3304.4	2900.1	2698.0	2609.4	2568.5
7.5°	5917.2	5547.0	4752.1	3920.9	3094.3	2467.5	1920.2	1568.2	1416.0	1392.1	1333.1
10°	5919.5	5409.6	4268.4	3089.7	2074.6	1487.5	1144.6	962.9	895.9	884.6	865.3
12.5°	5924.0	5247.2	3731.3	2288.1	1383.1	994.7	827.8	767.6	749.4	748.3	748.3
15°	5937.6	5076.9	3173.8	1648.8	993.6	788.1	726.7	702.9	696.1	699.5	698.3
17.5°	5937.6	4875.9	2626.5	1228.6	802.8	708.6	674.5	658.6	656.3	659.7	660.9
20°	5894.5	4631.8	2124.6	956.1	712.0	657.5	626.8	612.0	606.4	608.6	609.8
22.5°	5791.1	4332.0	1715.8	791.5	651.8	610.9	578.0	555.3	546.2	547.3	547.3
25°	5629.9	3976.6	1342.2	684.7	603.0	560.9	522.3	496.2	490.5	489.4	491.7
27.5°	5423.2	3583.7	1068.5	603.0	545.0	505.3	466.7	445.1	440.6	441.7	442.9
30°	5220.0	3176.0	842.6	533.7	480.3	442.9	413.3	403.1	403.1	406.5	407.7
32.5°	5033.8	2784.3	666.5	473.5	422.4	388.3	371.3	370.2	375.9	378.1	379.3
35°	4873.6	2422.1	551.9	427.0	377.0	347.5	341.8	346.3	353.1	357.7	358.8
37.5°	4760.1	2098.4	482.6	388.3	341.8	317.9	316.8	325.9	335.0	345.2	347.5
40°	4712.4	1824.8	434.9	354.3	313.4	295.2	291.8	304.3	321.4	336.1	338.4
42.5°	4672.7	1601.1	394.0	321.4	290.7	264.6	263.4	279.3	299.8	314.5	317.9
45°	4638.6	1421.7	356.6	286.2	261.2	227.1	230.5	250.9	266.8	282.7	286.2
47.5°	4568.2	1274.1	315.7	248.7	215.7	194.2	201.0	219.2	231.6	255.5	258.9
50°	4442.1	1153.7	273.7	203.3	176.0	168.1	178.3	190.8	206.7	227.1	229.4
52.5°	4357.0	1062.8	237.3	170.3	145.3	147.6	157.8	162.4	171.5	179.4	177.1
55°	*4308.2*	*1012.9*	*207.8*	*147.6*	*123.8*	*130.6*	*132.9*	*127.2*	*122.6*	*114.7*	*111.3*
57.5°	4302.5	967.5	185.1	128.3	109.0	112.4	104.5	85.2	69.3	60.2	57.9
60°	4293.4	911.8	166.9	107.9	96.5	92.0	74.9	46.6	32.9	30.7	30.7
62.5°	4194.6	825.5	153.3	90.8	81.8	69.3	43.1	21.6	18.2	19.3	19.3
65°	3880.1	705.2	139.7	73.8	64.7	50.0	21.6	12.5	6.8	7.9	7.9
67.5°	3298.7	562.1	124.9	56.8	48.8	31.8	12.5	5.7	0.0	0.0	0.0
70°	2208.6	348.6	105.6	39.7	31.8	19.3	9.1	1.1	0.0	0.0	0.0
72.5°	847.1	188.5	85.2	23.8	20.4	13.6	5.7	0.0	0.0	0.0	0.0
75°	190.8	123.8	59.0	17.0	14.8	9.1	2.3	0.0	0.0	0.0	0.0
77.5°	72.7	89.7	34.1	11.4	10.2	5.7	0.0	0.0	0.0	0.0	0.0
80°	35.2	53.4	15.9	6.8	5.7	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	18.2	20.4	6.8	3.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.2	10.2	3.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	3.4	1.1	1.1	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

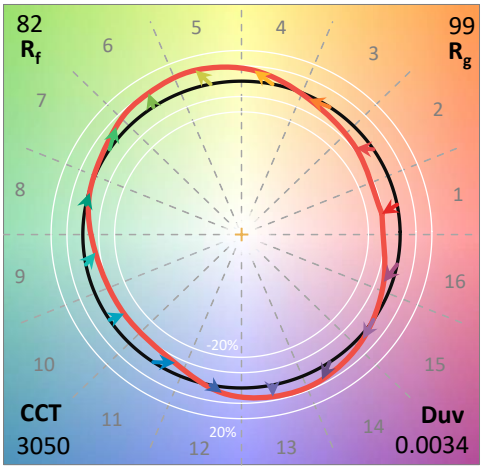
Test Information

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

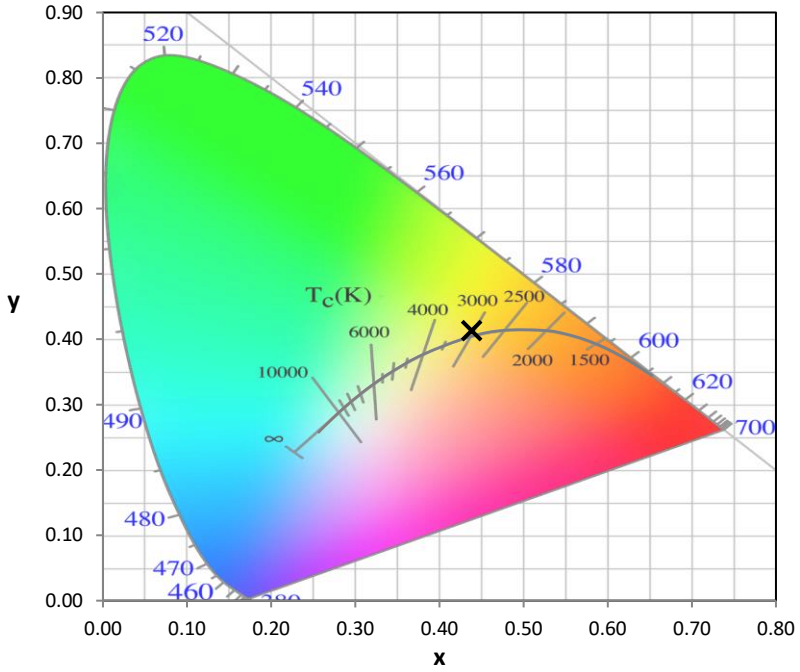
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

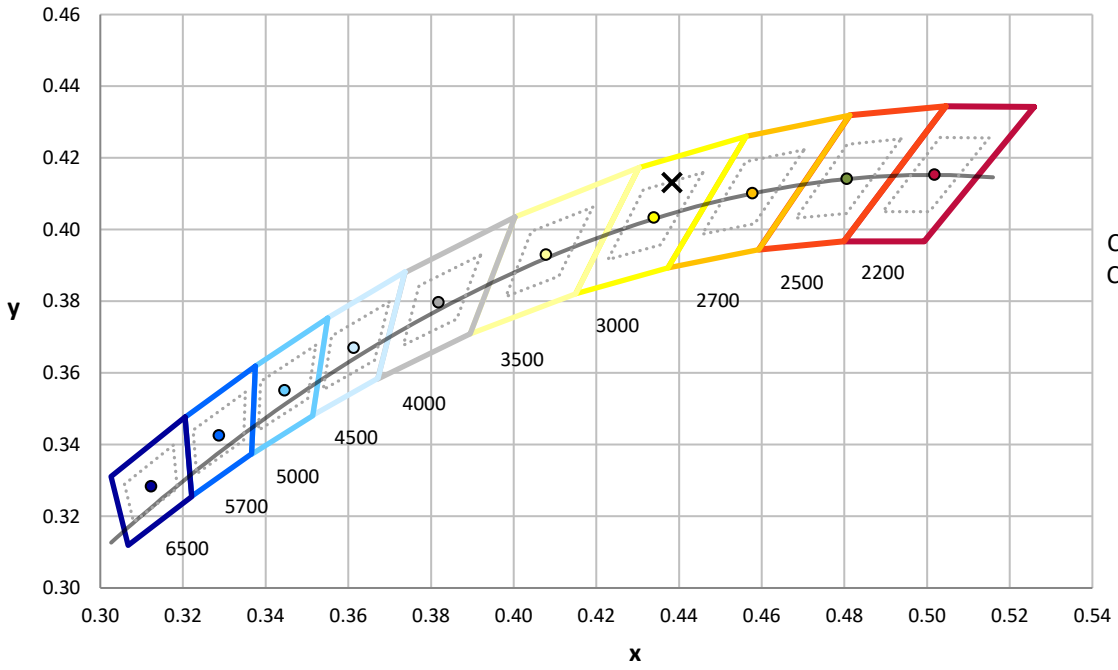
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

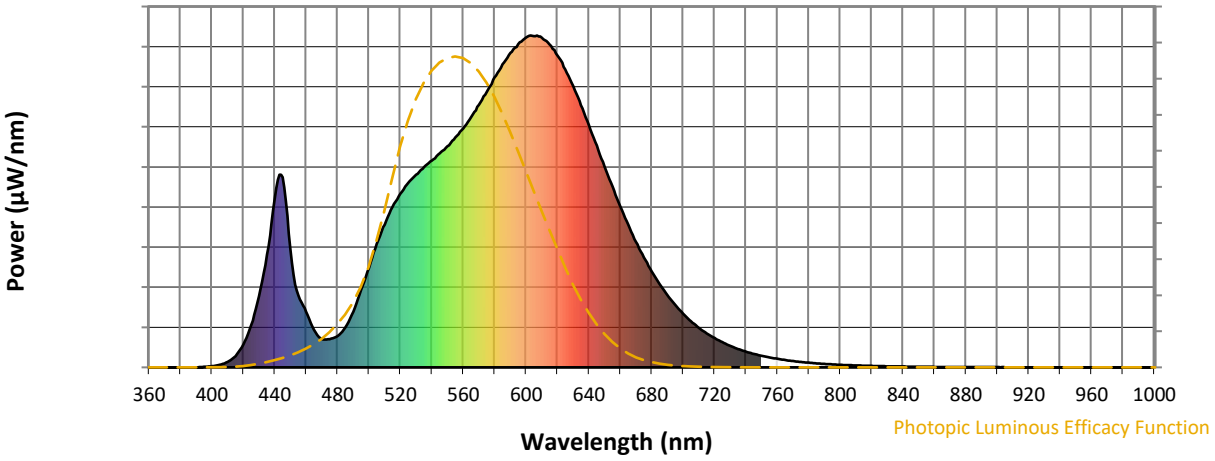


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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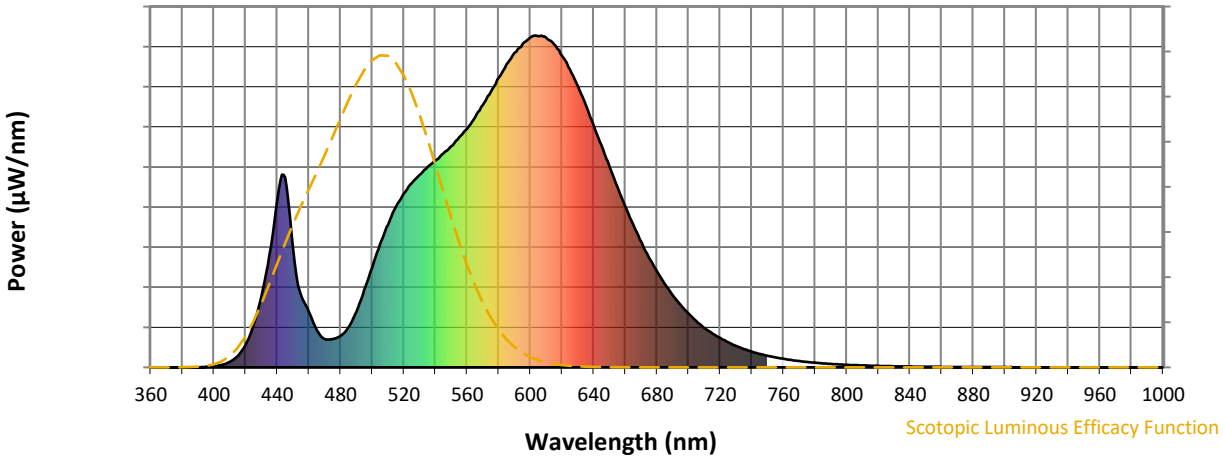
Scotopic Flux vs. Wavelength



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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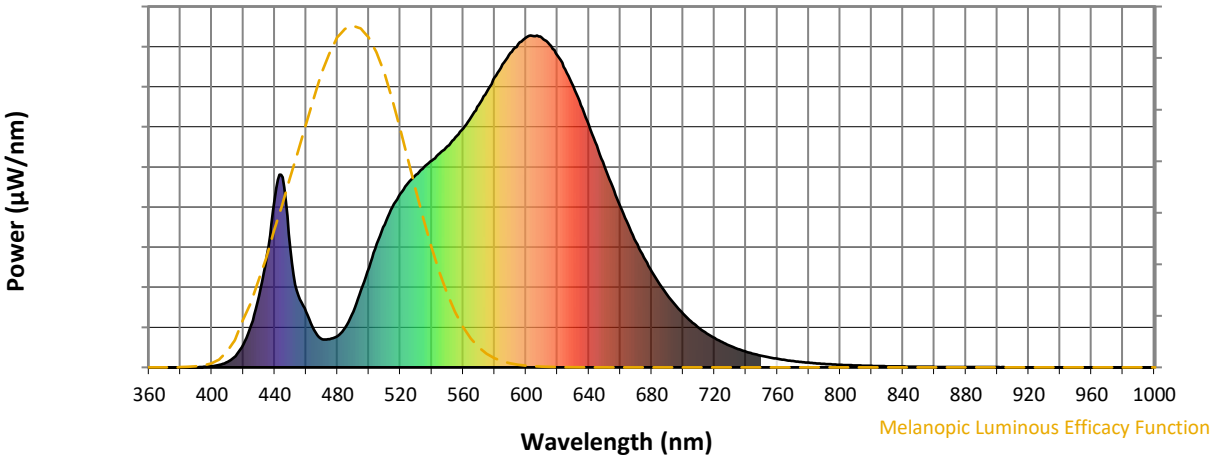
Melanopic Flux vs. Wavelength



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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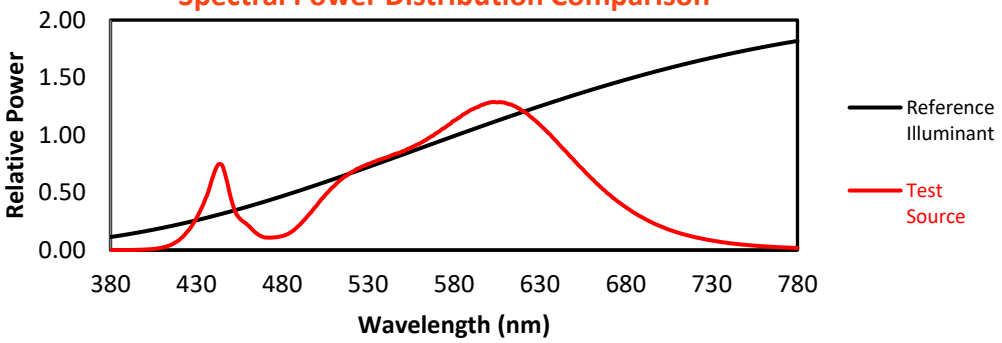
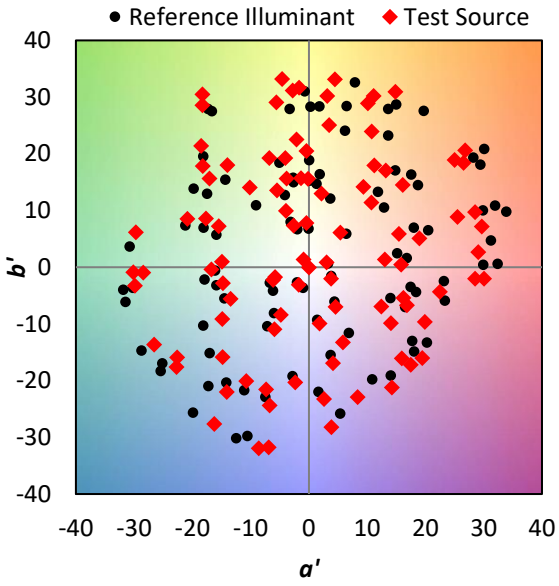
Summary

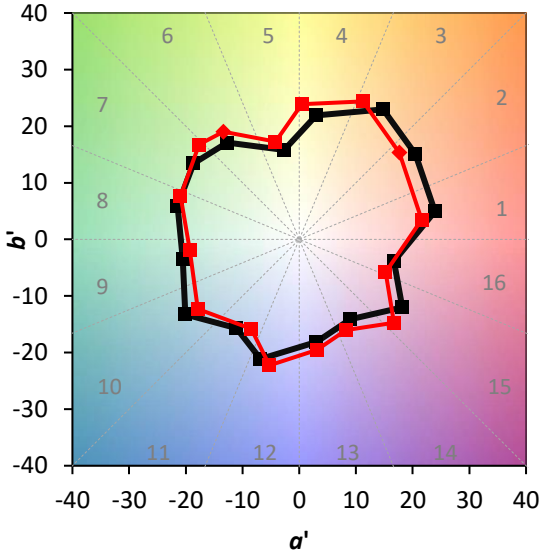
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

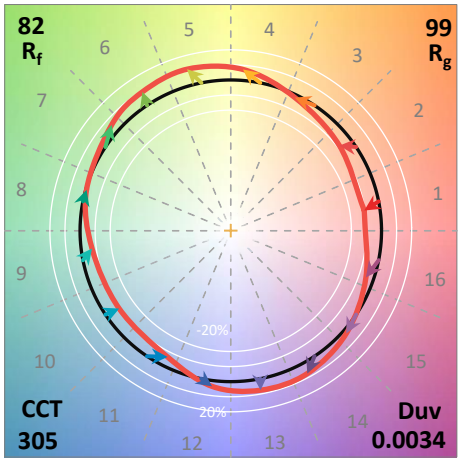
Spectral Power Distribution Comparison

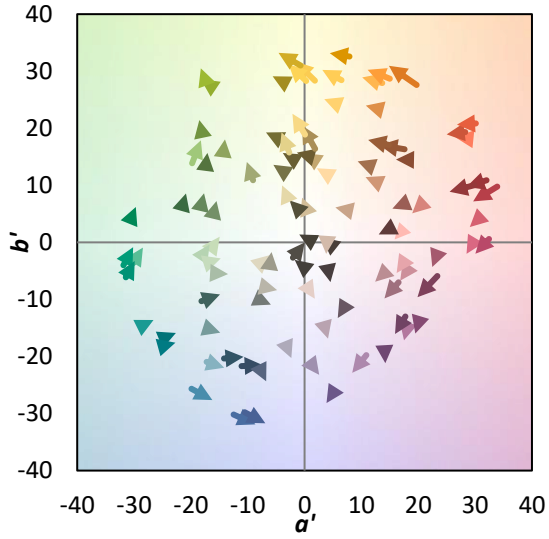


Color Vector Graphics









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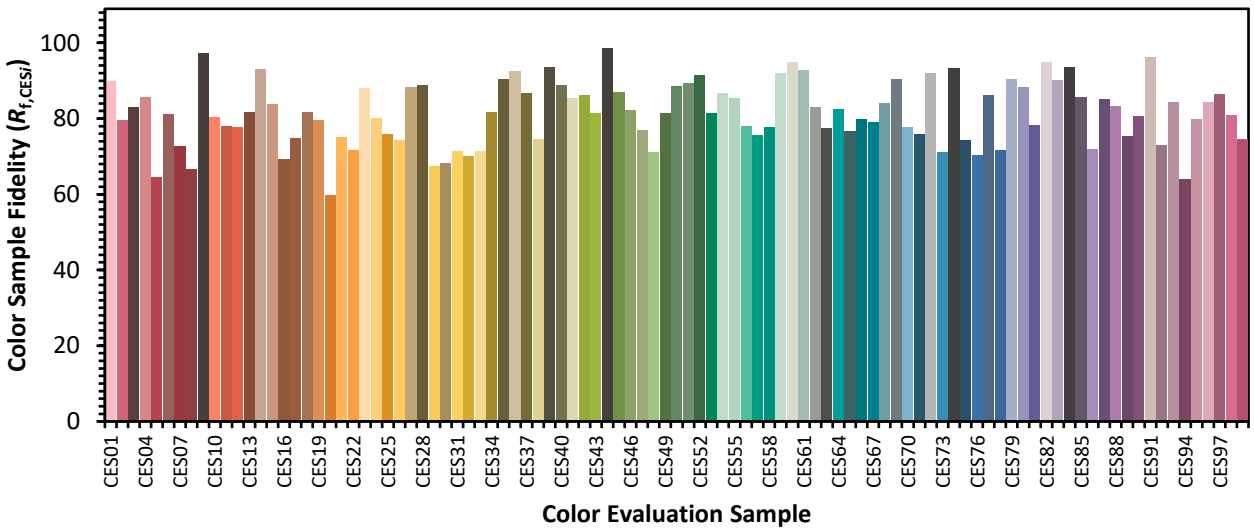
Individual Sample Fidelity Index ($R_{f,i}$)

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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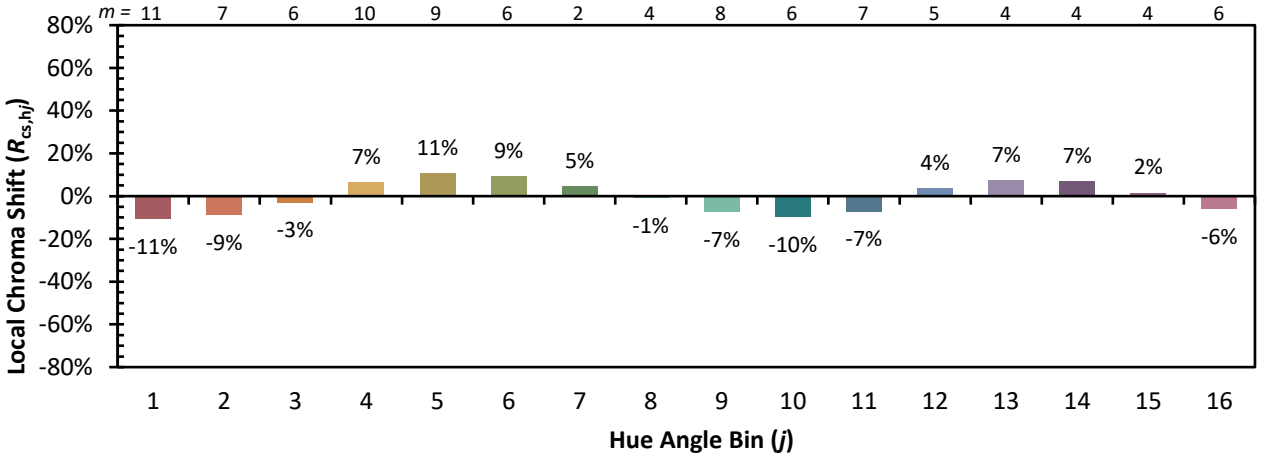
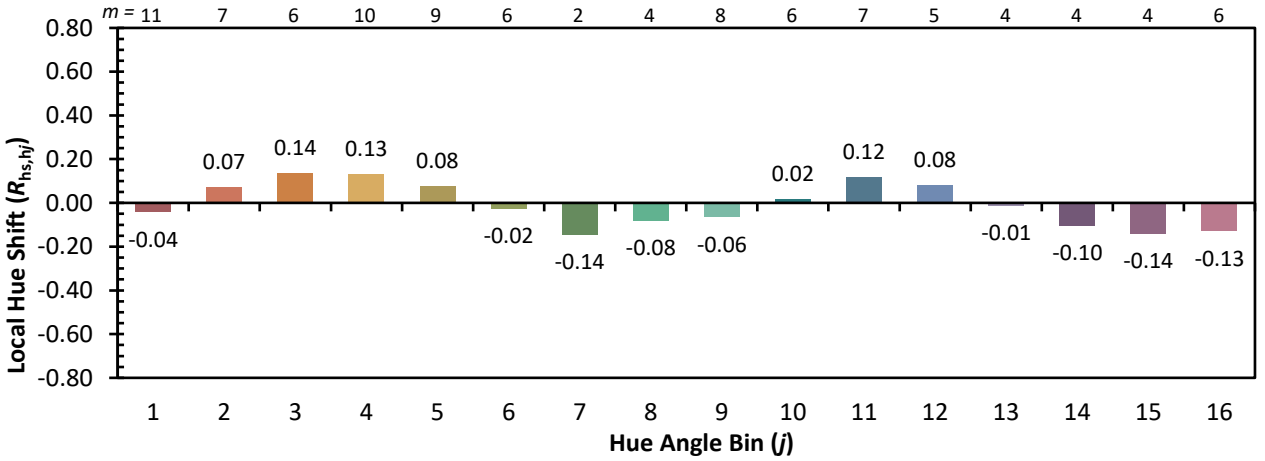
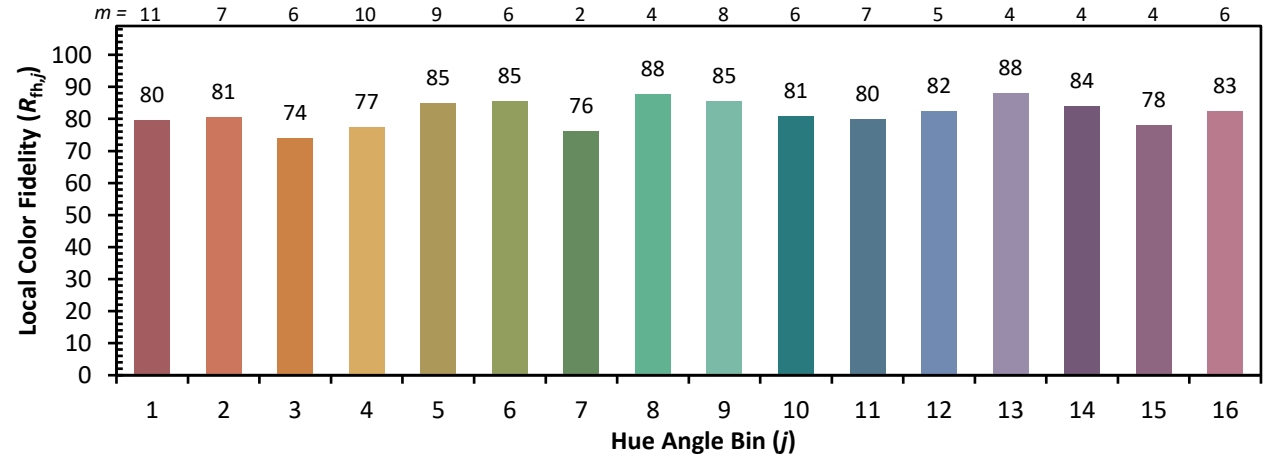
Color Rendition by Hue-Angle Bin







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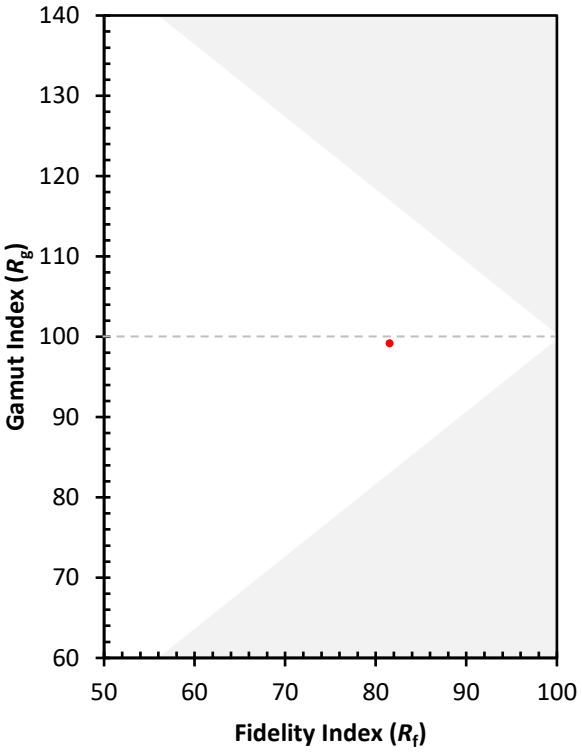
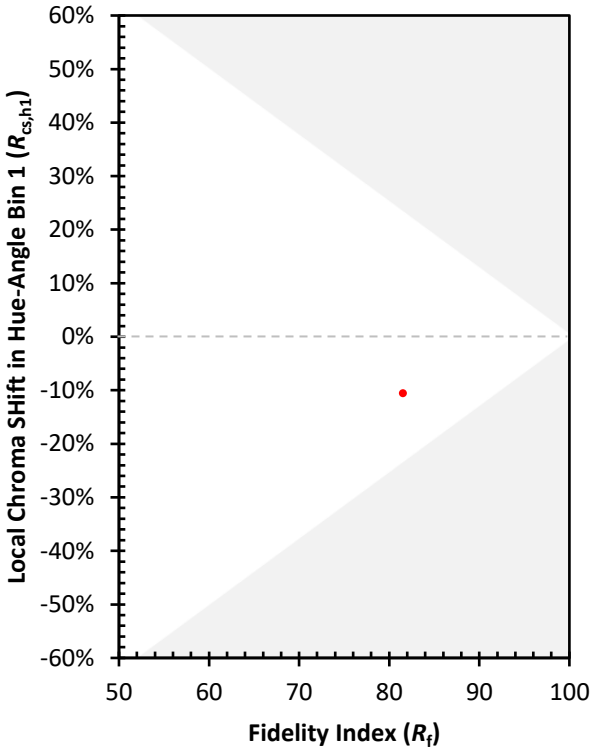
Measure Comparisons





(END OF REPORT)