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: P321462

Luminaire Tested: **GLEON-SA8D-830-U-T2R-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:	P321462
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA8D-830-U-T2R-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	39885 lumens
Efficiency:	N/A
Efficacy:	78.1 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B2 - U0 - G4

Input Watts (W):	511
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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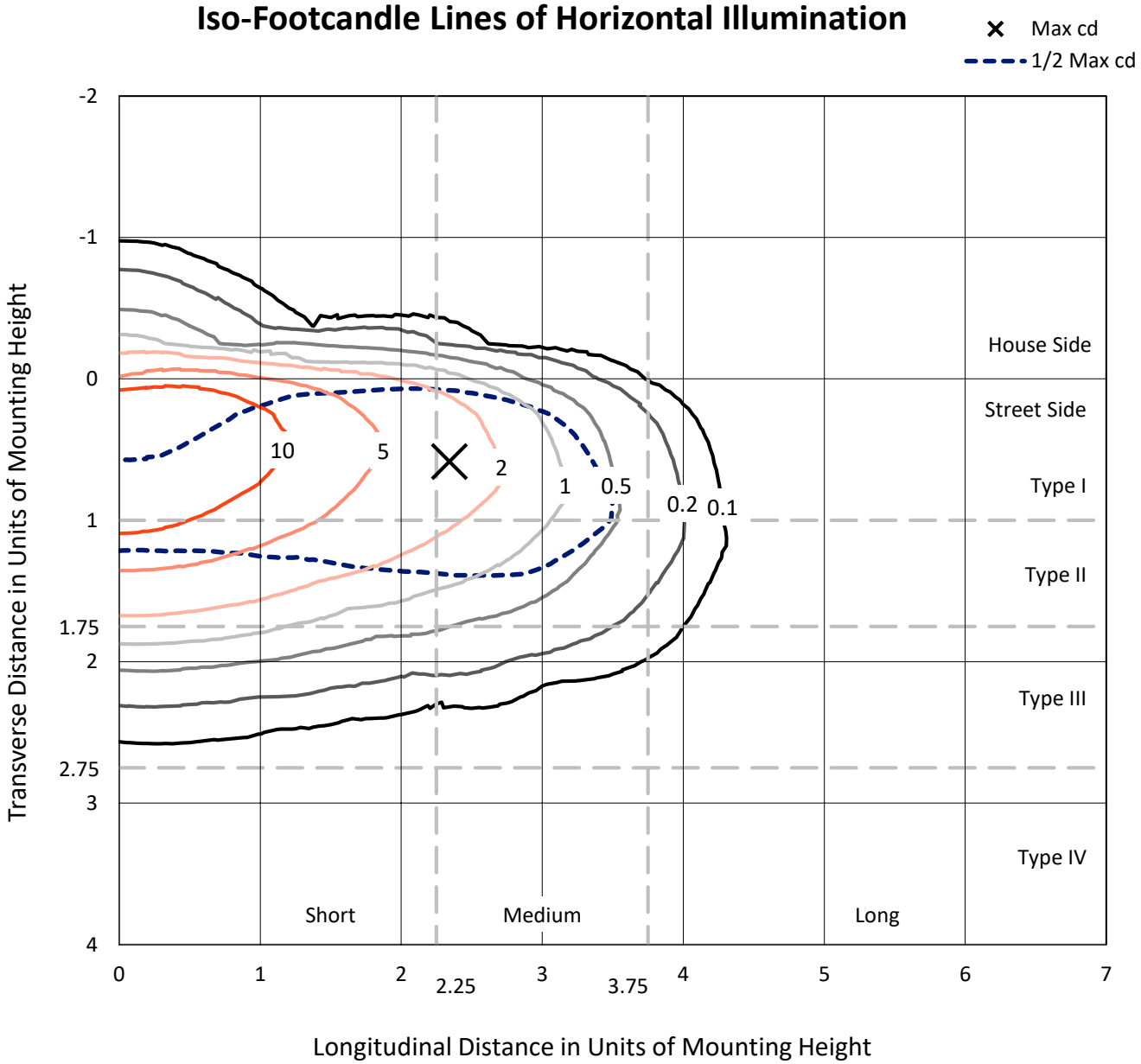
Scaled Data Report

REPORT NUMBER: P321462
CATALOG NUMBER: GLEON-SA8D-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
Type II - Medium - N/A

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REPORT NUMBER: P321462
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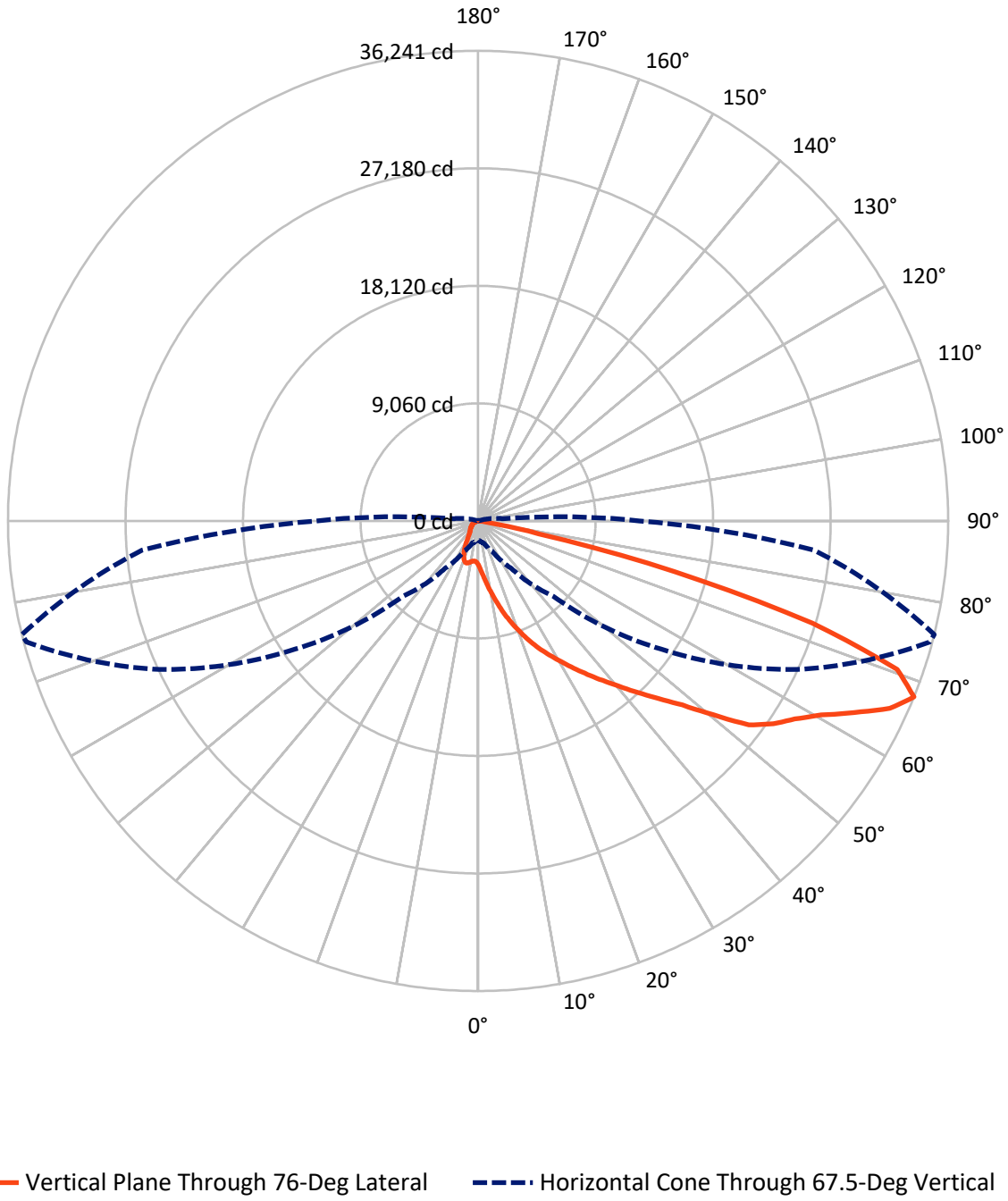
Luminous Intensity Polar Plot



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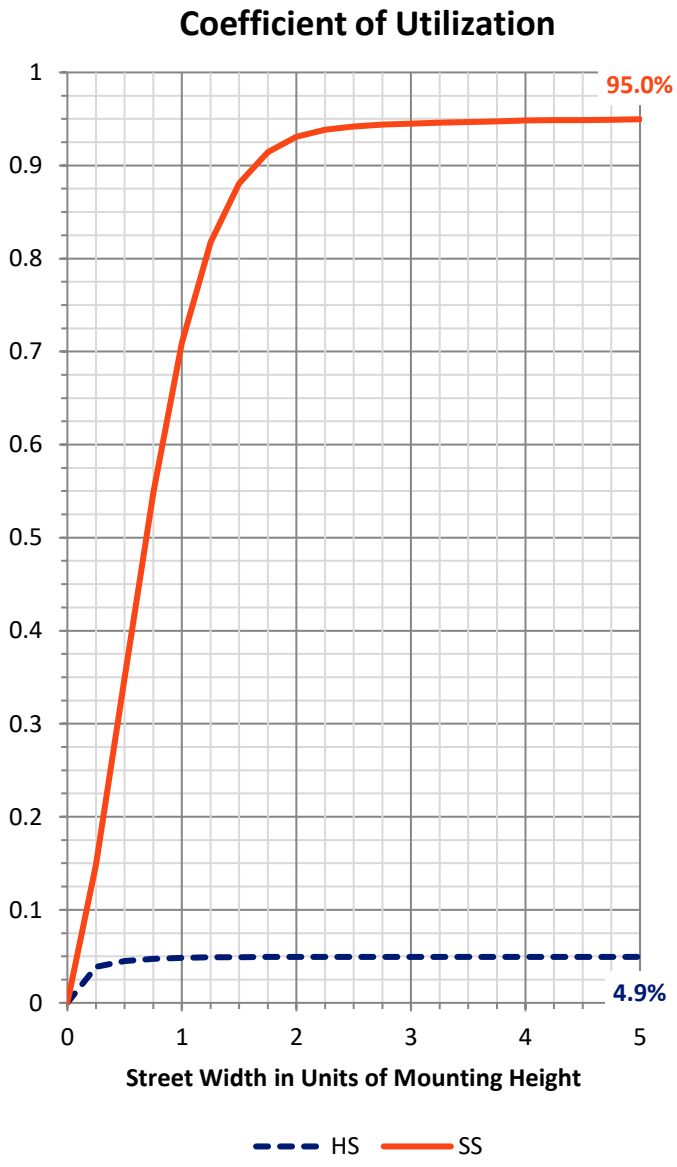
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1980.6	0.0	1980.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	37904.4	0.0	37904.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	39885.0	0.0	39885.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.7	1.1
10°-20°	1667.8	4.2
20°-30°	3393.4	8.5
30°-40°	5889.9	14.8
40°-50°	8321.6	20.9
50°-60°	9437.1	23.7
60°-70°	7827.2	19.6
70°-80°	2835.2	7.1
80°-90°	91.9	0.2
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°	39885.0	100.0
0°-180°	39885.0	100.0



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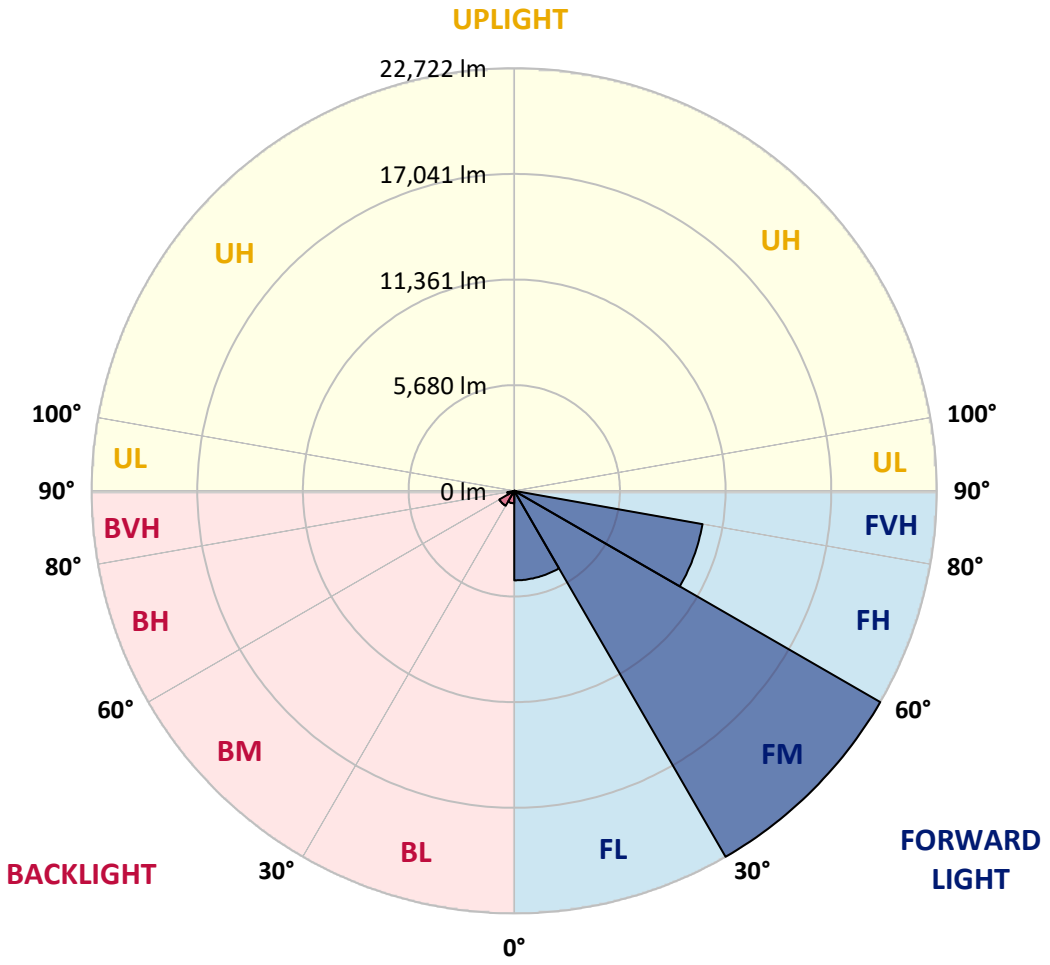
CATALOG NUMBER: GLEON-SA8D-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	4814.0	12.1			
FM	(30°-60°)	22721.7	57.0			
FH	(60°-80°)	10279.7	25.8			G4/12000
FVH	(80°-90°)	89.0	0.2			G1/100
BL	(0°-30°)	668.0	1.7	B2/1000		
BM	(30°-60°)	927.0	2.3	B1/1000		
BH	(60°-80°)	382.8	1.0	B1/500		G1/500
BVH	(80°-90°)	2.9	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-G4
Type II Medium



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Scaled Data Report

REPORT NUMBER: P321462
CATALOG NUMBER: GLEON-SA8D-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3383.4	3383.4	3383.4	3383.4	3383.4	3383.4	3383.4	3383.4	3383.4	*3383.4*	3383.4
2.5°	5050.6	4937.0	4963.3	4889.9	4757.0	4484.4	4252.0	4031.8	3774.9	*3766.1*	3554.7
5°	6810.5	6714.4	6702.1	6553.6	6312.4	5849.3	5398.4	4884.6	4311.4	*4269.4*	3820.3
7.5°	8407.8	8330.9	8303.0	8126.5	7677.3	7226.4	6639.2	5884.3	4987.7	*4910.8*	4178.6
10°	9634.7	9598.0	9605.0	9479.1	9094.6	8675.2	7904.5	6941.6	5754.9	*5636.1*	4608.5
12.5°	10564.4	10573.1	10636.0	10559.2	10344.2	10033.1	9210.0	8068.8	6604.3	*6441.7*	5099.6
15°	11247.7	11291.4	11406.8	11502.9	11487.1	11218.0	10463.0	9213.5	7506.1	*7326.0*	5646.6
17.5°	11689.9	11738.8	11906.6	12119.8	12315.5	12252.6	11672.4	10318.0	8418.3	*8210.3*	6232.0
20°	12077.8	12135.5	12315.5	12596.9	12962.1	13040.8	12659.8	11389.3	9328.8	*9075.4*	6836.7
22.5°	12918.4	12916.7	13026.8	13191.1	13538.9	13741.6	13500.4	12383.7	10228.9	*9965.0*	7453.6
25°	14438.9	14381.2	14342.8	14213.4	14290.3	14416.2	14281.6	13313.4	11134.1	*10866.7*	8079.3
27.5°	16245.9	16280.9	15969.8	15622.0	15352.9	15223.6	15003.4	14175.0	12004.4	*11710.8*	8690.9
30°	18152.6	18163.1	17796.1	17352.2	16759.7	16268.6	15887.7	14998.1	12899.2	*12579.4*	9285.1
32.5°	19872.3	19804.1	19440.6	18835.9	18087.9	17535.7	16744.0	15917.4	13846.4	*13537.1*	9945.7
35°	21235.4	21155.0	20712.9	20162.4	19386.4	18830.7	17878.2	16834.9	14842.6	*14540.2*	10608.1
37.5°	22231.5	22137.2	21682.8	21116.6	20447.2	20123.9	19194.2	17832.8	15929.6	*15604.5*	11305.4
40°	22577.6	22495.4	22210.6	21796.4	21258.1	21184.7	20590.5	18981.0	17112.7	*16766.7*	12095.3
42.5°	22371.4	22291.0	22189.6	22049.8	21826.1	21896.0	21908.2	20289.9	18427.0	*18086.2*	12967.4
45°	21553.5	21481.8	21586.7	21791.1	22069.0	22415.0	23110.6	21696.8	19895.0	*19531.5*	13975.8
47.5°	20349.4	20296.9	20587.0	21097.3	21910.0	22864.2	24209.9	23175.3	21543.0	*21205.7*	15234.1
50°	18636.7	18627.9	19208.2	20139.6	21389.2	23080.9	25345.8	24856.5	23832.4	*23477.6*	16983.4
52.5°	15969.8	15987.3	17128.5	18619.2	20475.2	22934.1	26076.3	27016.5	26495.8	*26127.0*	18498.6
55°	13430.5	13535.4	14344.5	16494.1	19073.6	22388.8	26328.0	28024.9	27965.5	*27616.0*	19341.0
57.5°	10943.6	11134.1	11913.6	13921.6	17027.1	21132.3	26189.9	28461.8	29059.5	*28792.1*	20452.5
60°	8248.8	8336.2	9234.5	11111.4	14400.4	18839.4	25188.5	28699.5	30555.5	*30370.2*	22065.5
62.5°	5248.1	5466.6	6263.5	8074.0	11212.8	15655.2	23500.3	28696.0	32427.2	*32528.6*	24146.9
65°	2764.7	3019.9	3442.8	5003.5	7705.3	12098.8	20961.0	28426.9	34723.6	*34865.1*	25774.0
67.5°	*1490.7*	*1564.1*	*1787.8*	*2597.0*	*4468.7*	*8196.4*	*17229.8*	*27098.7*	*36053.5*	*36240.5*	*26001.2*
70°	1090.5	1130.7	1214.6	1436.5	2249.2	4760.5	12572.4	24087.5	34339.1	*34269.2*	23101.9
72.5°	837.1	900.0	962.9	1052.1	1293.2	2541.0	7827.6	18862.1	27399.3	*26937.9*	17268.3
75°	660.6	671.1	760.2	840.6	969.9	1447.0	3476.0	10985.6	16723.0	*15630.8*	8954.8
77.5°	527.8	534.8	587.2	657.1	779.4	950.7	1076.5	4321.9	5339.0	*4764.0*	1943.4
80°	312.8	330.3	436.9	506.8	646.6	599.4	393.2	938.5	833.6	*755.0*	326.8
82.5°	174.8	188.7	246.4	400.2	450.9	286.6	195.7	253.4	195.7	*190.5*	92.6
85°	0.0	8.7	159.0	248.2	183.5	62.9	82.1	83.9	57.7	*54.2*	36.7
87.5°	0.0	0.0	48.9	47.2	7.0	10.5	19.2	28.0	22.7	*22.7*	19.2
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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Scaled Data Report

REPORT NUMBER: P321462
CATALOG NUMBER: GLEON-SA8D-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3383.4	3383.4	3383.4	3383.4	3383.4	3383.4	3383.4	3383.4	3383.4	3383.4	3383.4
2.5°	3449.8	3355.4	3177.2	3002.4	2855.6	2735.0	2626.7	2583.0	2548.0	2542.8	2514.8
5°	3603.6	3413.1	3072.3	2792.7	2605.7	2472.9	2359.3	2289.4	2235.2	2214.2	2195.0
7.5°	3836.0	3547.7	3058.3	2736.8	2513.1	2289.4	2079.7	1852.5	1710.9	1656.7	1625.3
10°	4119.2	3725.9	3110.8	2721.1	2329.6	1857.7	1509.9	1221.6	1104.5	1066.1	1055.6
12.5°	4449.5	3947.9	3201.7	2623.2	1938.1	1319.5	1041.6	943.7	917.5	905.3	905.3
15°	4828.7	4190.8	3266.3	2340.1	1433.1	997.9	901.8	856.3	828.4	812.6	814.4
17.5°	5216.7	4428.5	3234.9	1929.4	1057.3	887.8	816.1	767.2	728.8	713.0	709.5
20°	5608.1	4648.7	3060.1	1436.5	894.8	805.7	725.3	671.1	632.6	616.9	613.4
22.5°	6013.6	4835.7	2752.5	1053.8	803.9	714.8	636.1	582.0	545.3	531.3	524.3
25°	6408.5	4987.7	2322.6	852.8	718.3	629.1	554.0	503.3	470.1	456.1	454.4
27.5°	6777.3	5083.8	1824.5	753.2	643.1	552.2	484.1	438.7	410.7	400.2	398.5
30°	7109.3	5092.6	1349.2	679.8	576.7	485.8	422.9	382.7	358.3	347.8	344.3
32.5°	7444.9	5019.2	982.2	613.4	515.5	428.2	367.0	335.5	318.1	309.3	309.3
35°	7761.2	4849.7	765.5	555.7	456.1	372.2	323.3	300.6	290.1	281.4	281.4
37.5°	8070.5	4606.7	650.1	505.1	400.2	325.1	284.9	270.9	262.1	253.4	253.4
40°	8385.1	4300.9	590.7	457.9	354.8	288.4	253.4	241.2	232.4	225.4	223.7
42.5°	8771.3	3947.9	552.2	414.2	314.6	255.2	223.7	209.7	202.7	195.7	192.2
45°	9218.7	3643.8	520.8	370.5	281.4	227.2	194.0	180.0	169.5	160.8	159.0
47.5°	9863.6	3423.6	478.8	323.3	249.9	197.5	167.8	152.0	136.3	127.6	125.8
50°	10686.7	3241.8	424.7	281.4	218.5	167.8	139.8	120.6	106.6	97.9	97.9
52.5°	11095.7	3004.2	375.7	244.7	183.5	141.6	113.6	90.9	83.9	75.1	75.1
55°	11260.0	2822.4	326.8	208.0	152.0	117.1	89.1	69.9	64.7	59.4	57.7
57.5°	11721.3	2770.0	284.9	176.5	125.8	92.6	68.2	52.4	48.9	41.9	41.9
60°	12464.1	2796.2	246.4	150.3	101.4	71.7	50.7	40.2	36.7	29.7	29.7
62.5°	13266.2	2763.0	208.0	129.3	78.6	52.4	35.0	29.7	29.7	17.5	15.7
65°	13420.0	2460.7	178.3	106.6	61.2	38.4	22.7	19.2	26.2	3.5	0.0
67.5°	*12455.3*	*1908.4*	*153.8*	*82.1*	*45.4*	*29.7*	*17.5*	*8.7*	*22.7*	*0.0*	*0.0*
70°	9959.7	1212.9	124.1	59.4	35.0	24.5	14.0	3.5	17.5	0.0	0.0
72.5°	7042.9	704.3	97.9	41.9	29.7	19.2	10.5	0.0	10.5	0.0	0.0
75°	3561.7	375.7	61.2	31.5	22.7	14.0	7.0	0.0	1.7	0.0	0.0
77.5°	770.7	174.8	38.4	22.7	15.7	8.7	3.5	0.0	0.0	0.0	0.0
80°	167.8	76.9	24.5	14.0	8.7	5.2	0.0	0.0	0.0	0.0	0.0
82.5°	61.2	40.2	12.2	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.2	21.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.5	7.0	1.7	1.7	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

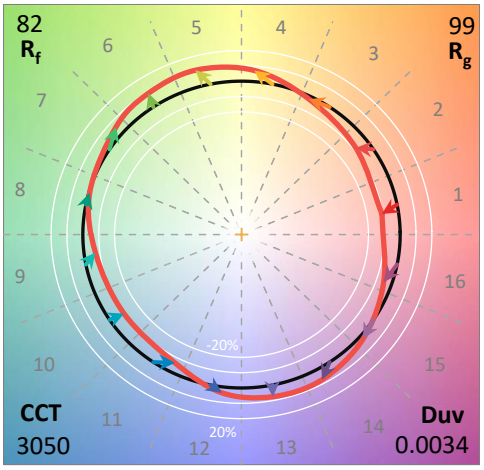
Test Information

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

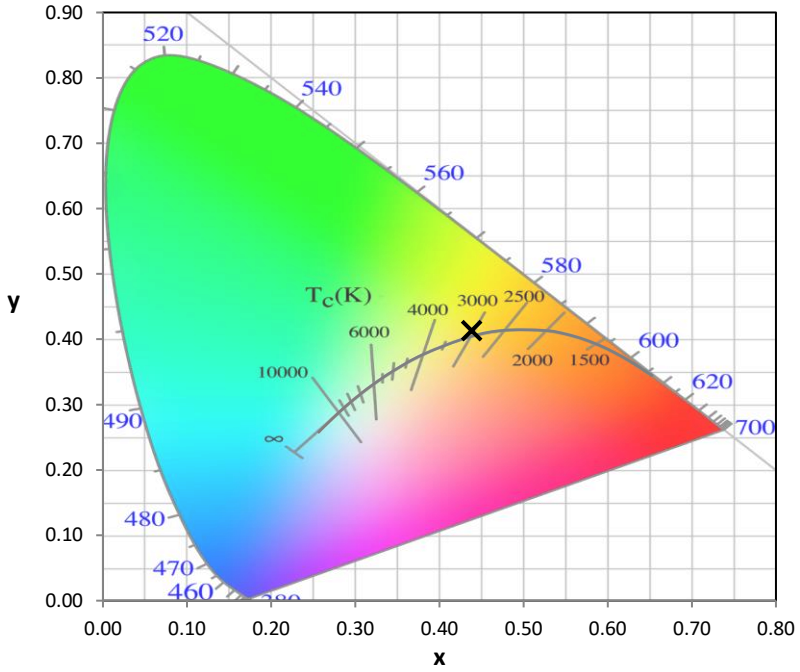
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

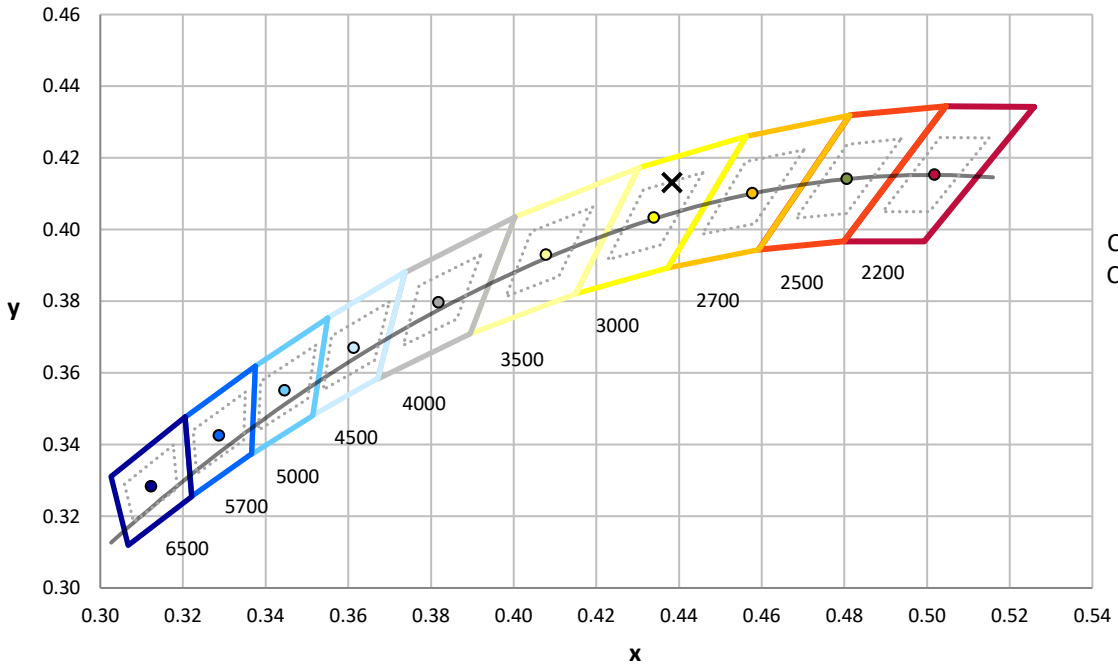
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

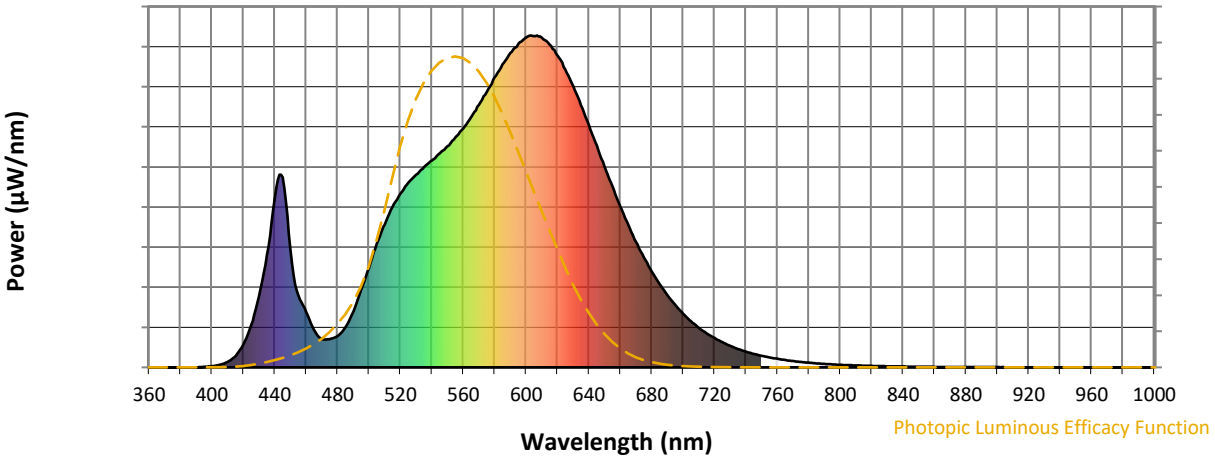


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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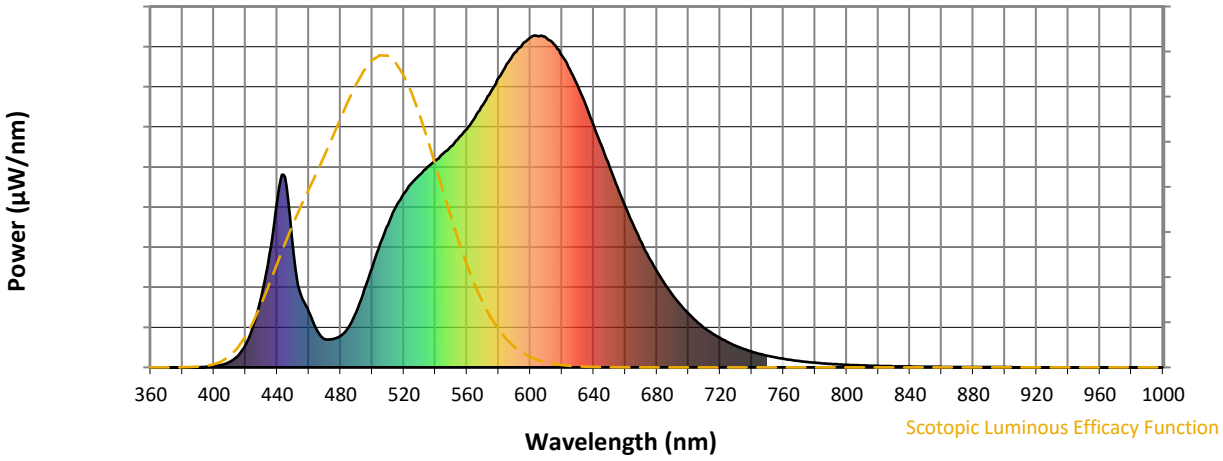
Scotopic Flux vs. Wavelength



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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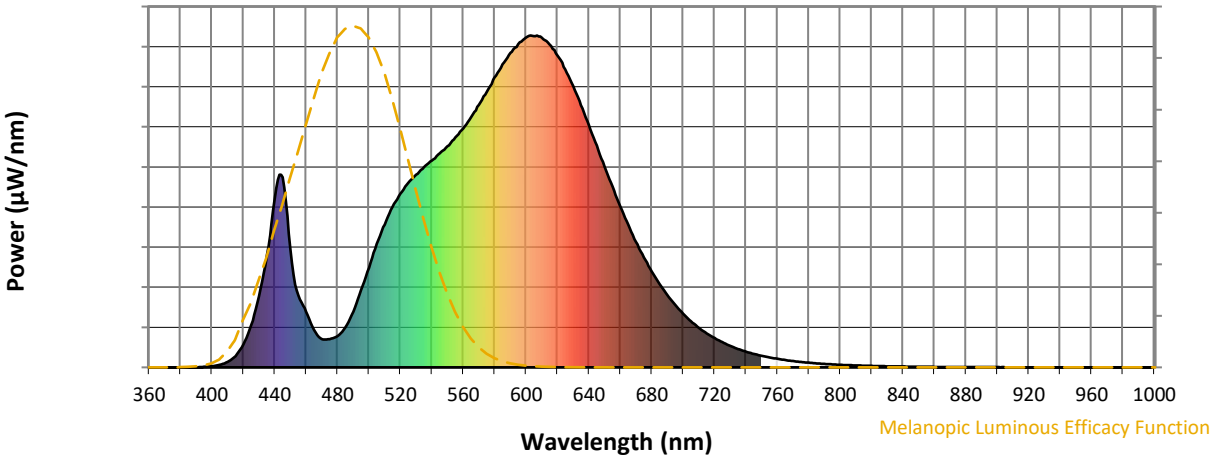
Melanopic Flux vs. Wavelength



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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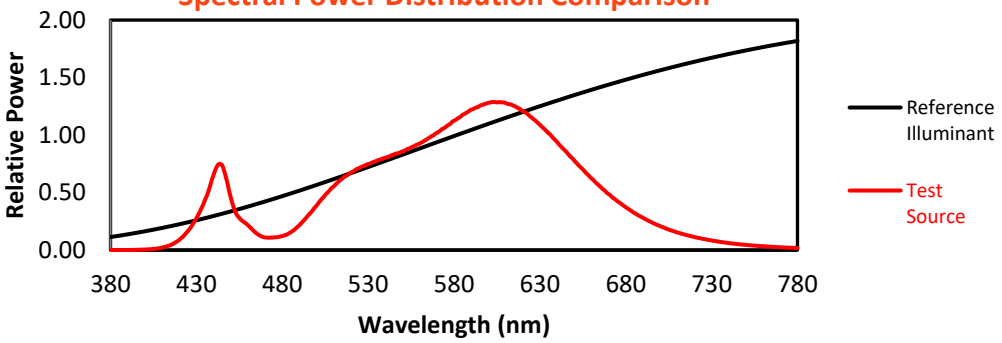
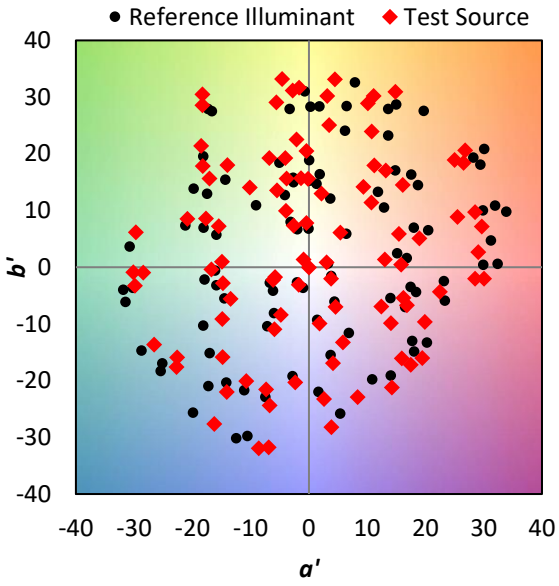
Summary

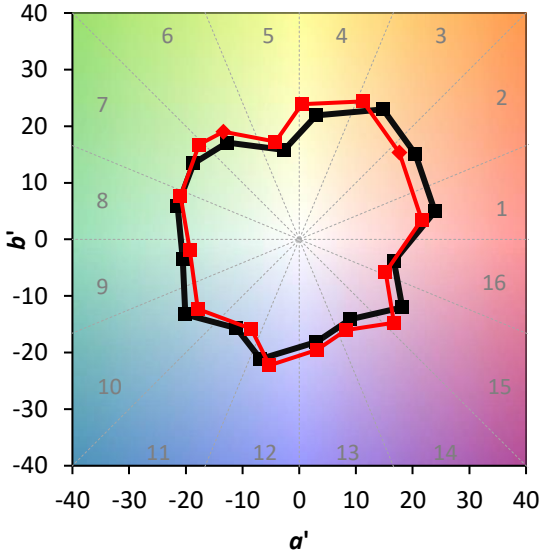
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

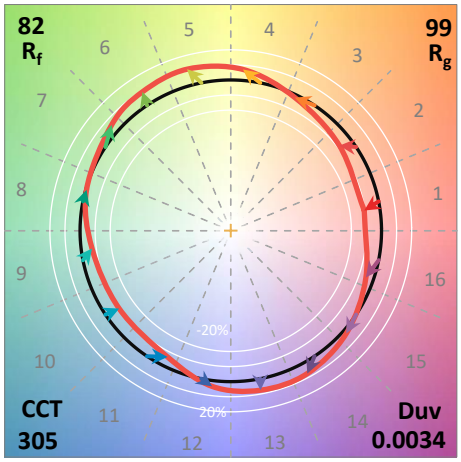
Spectral Power Distribution Comparison

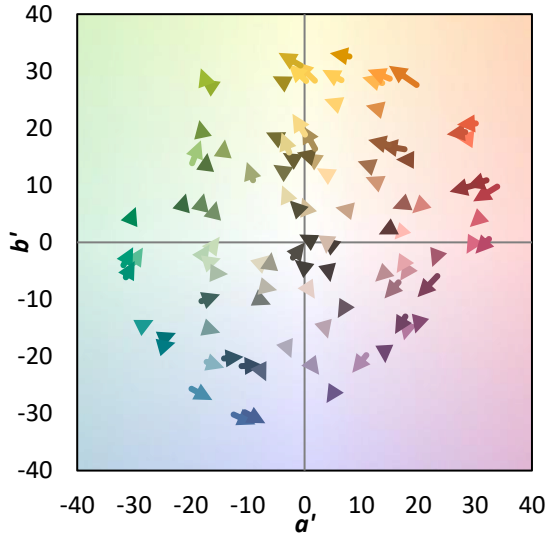


Color Vector Graphics









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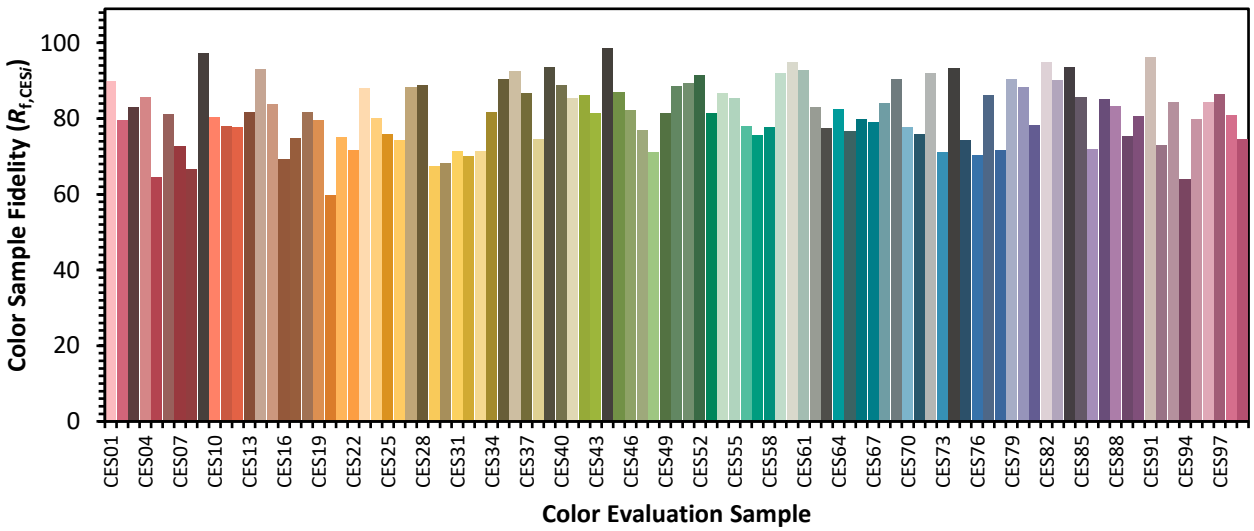
Individual Sample Fidelity Index ($R_{f,i}$)

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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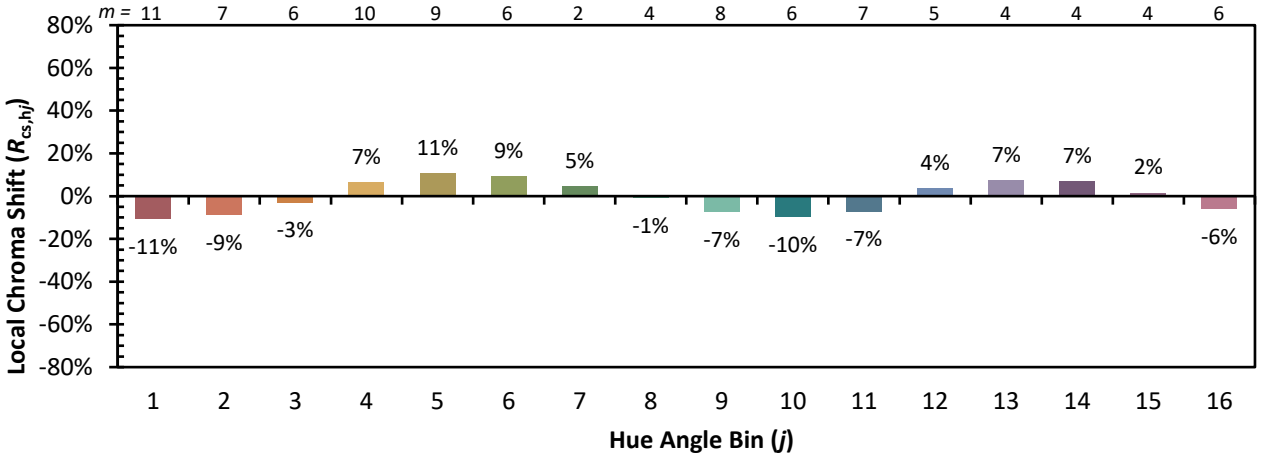
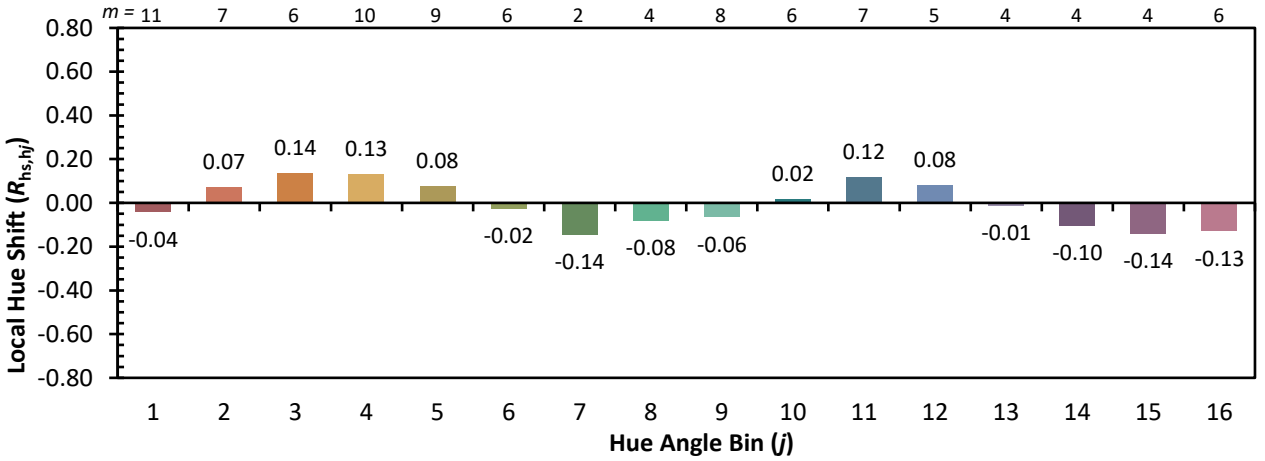
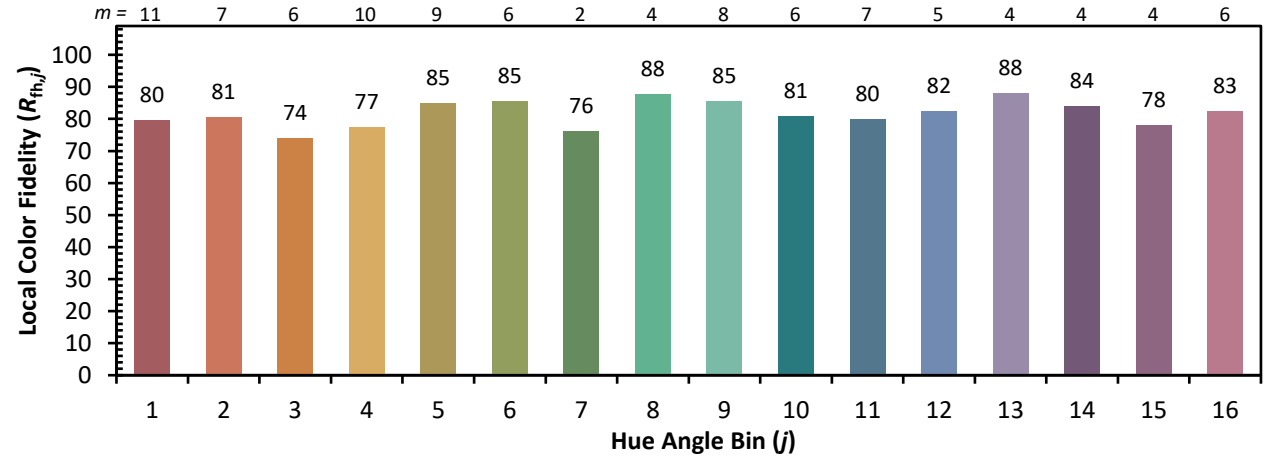
Color Rendition by Hue-Angle Bin







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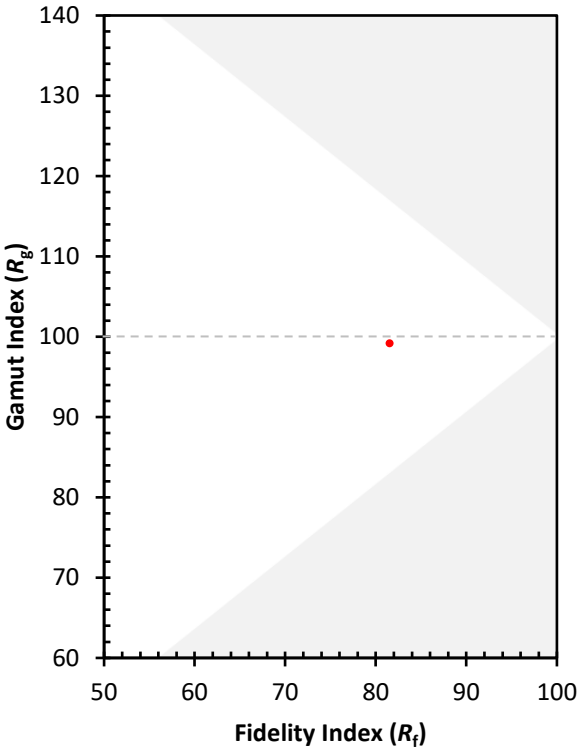
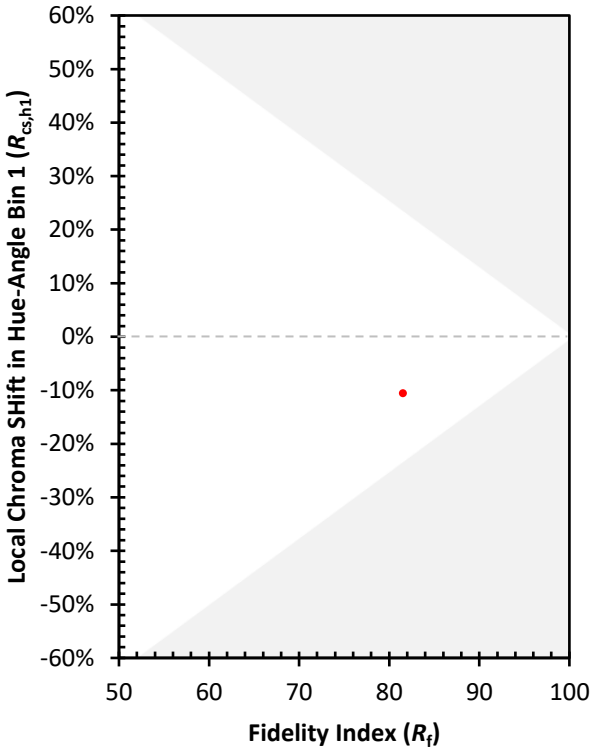
Measure Comparisons





(END OF REPORT)