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: P323373

Luminaire Tested: **GLEON-SA9C-830-U-SL2-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:	P323373
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA9C-830-U-SL2-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
	SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	41620 lumens
Efficiency:	N/A
Efficacy:	83.1 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B3 - U0 - G5

Input Watts (W):	501
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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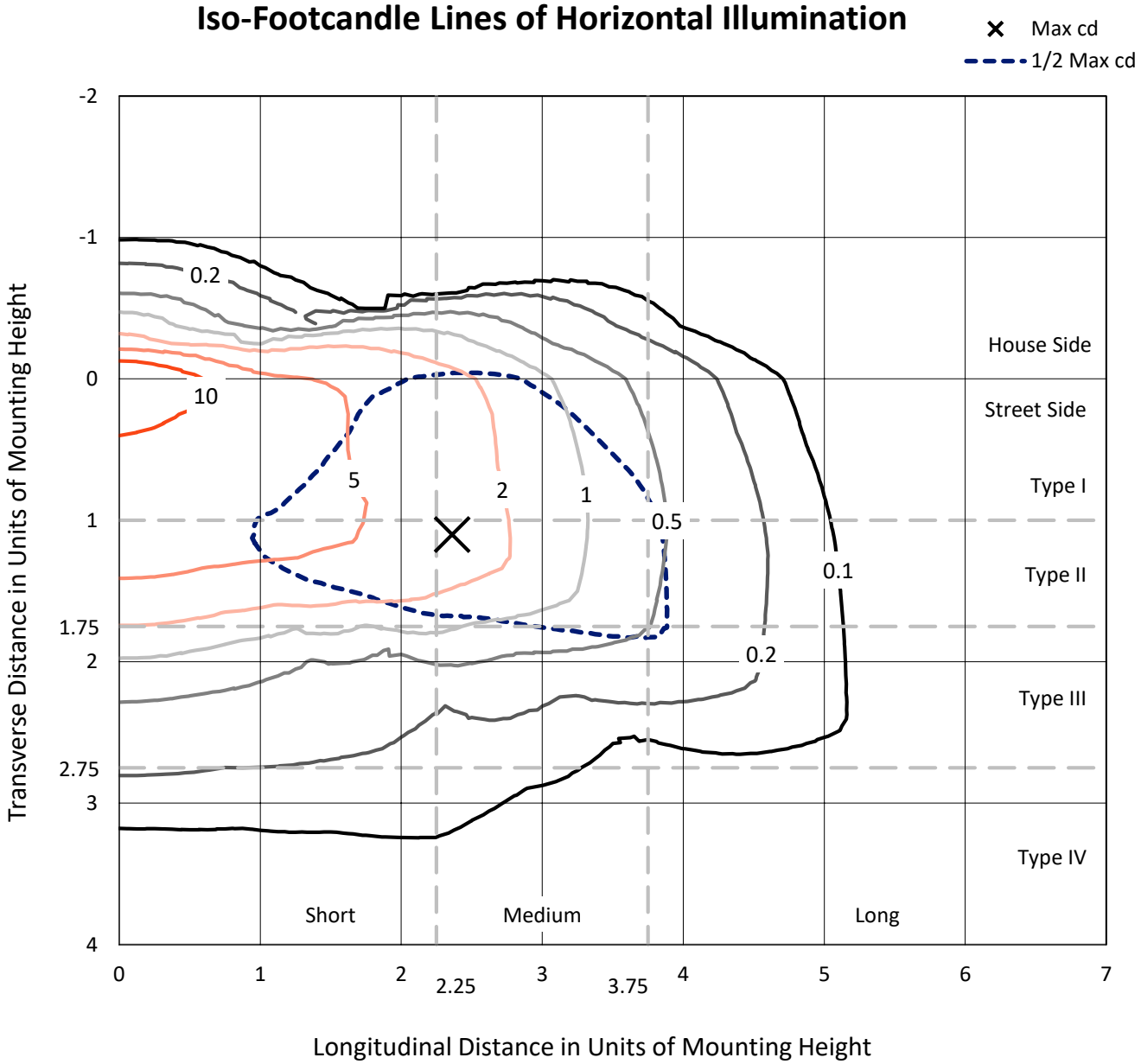
Scaled Data Report

REPORT NUMBER: P323373
CATALOG NUMBER: GLEON-SA9C-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
Type III - Medium - N/A

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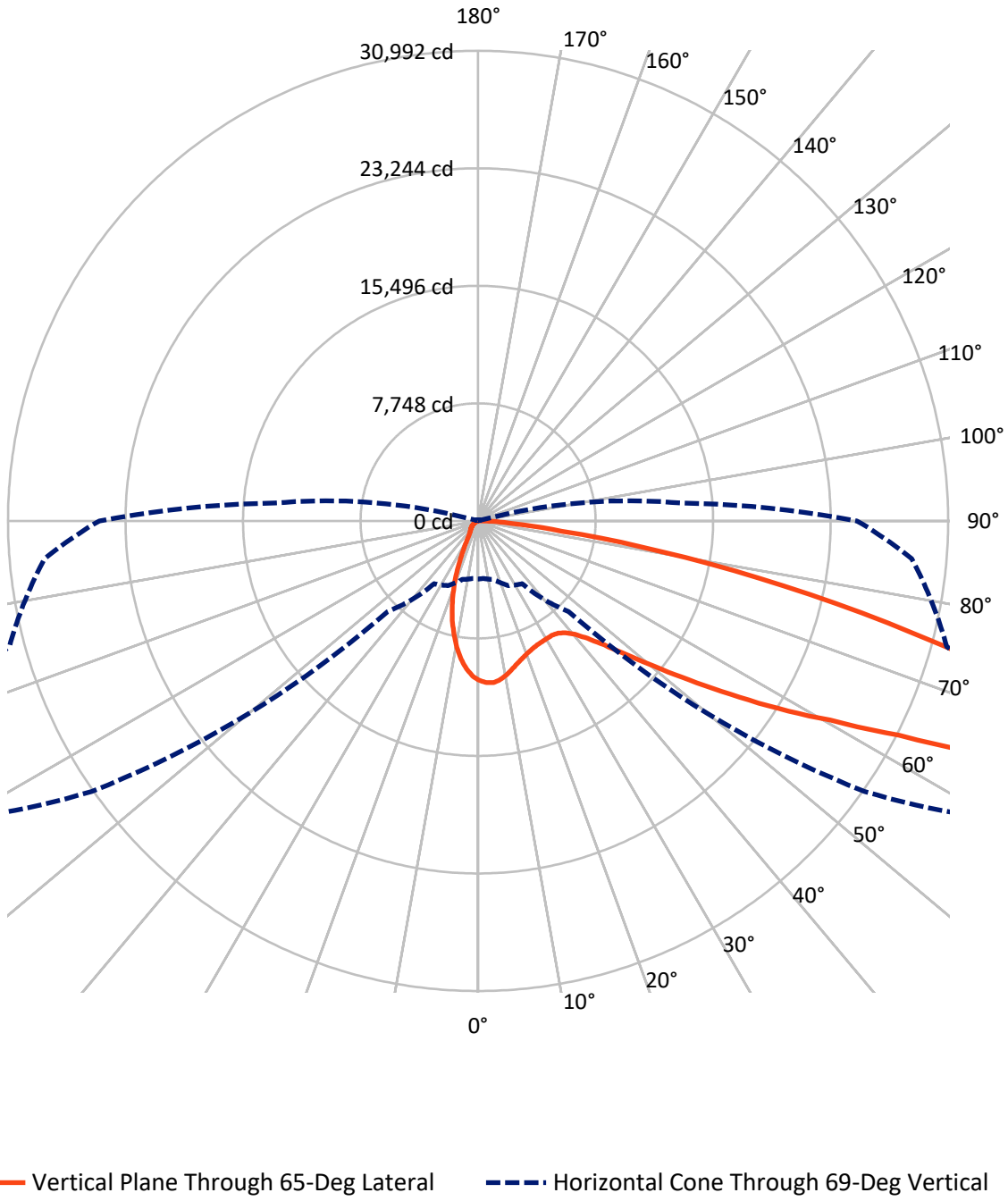
Luminous Intensity Polar Plot



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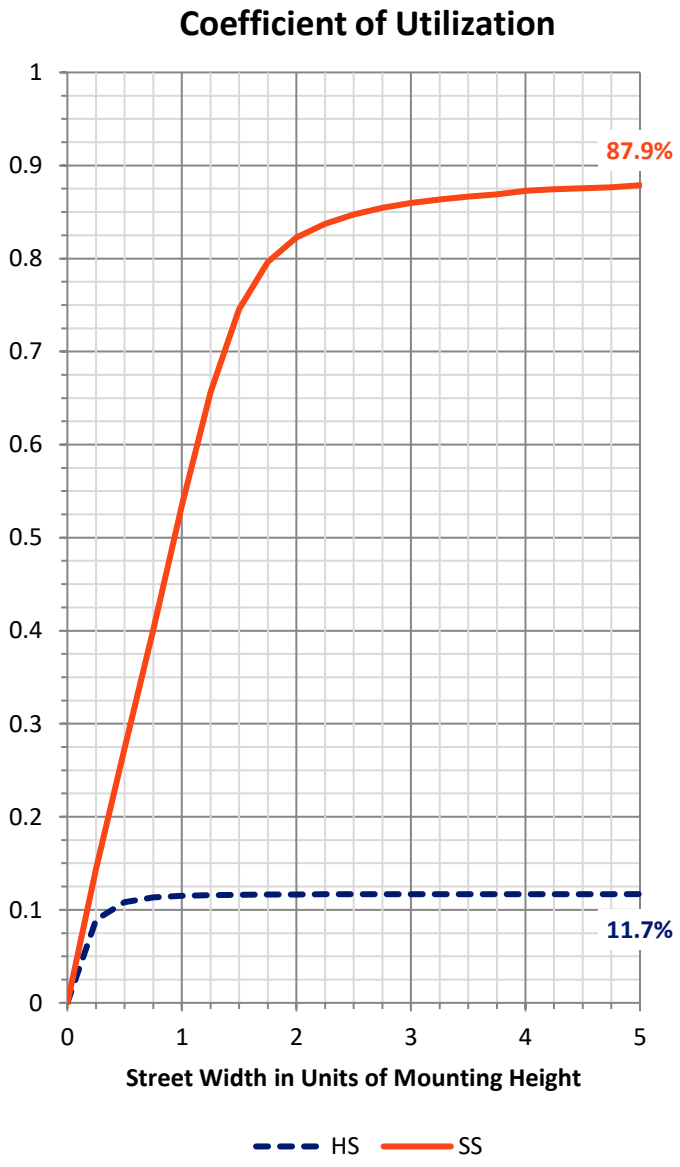
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4906.0	0.0	4906.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	36714.0	0.0	36714.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	41620.0	0.0	41620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	879.5	2.1
10°-20°	1925.2	4.6
20°-30°	2666.5	6.4
30°-40°	3717.9	8.9
40°-50°	5778.9	13.9
50°-60°	9277.4	22.3
60°-70°	10494.3	25.2
70°-80°	6163.4	14.8
80°-90°	717.0	1.7
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°	41620.0	100.0
0°-180°	41620.0	100.0



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REPORT NUMBER: P323373
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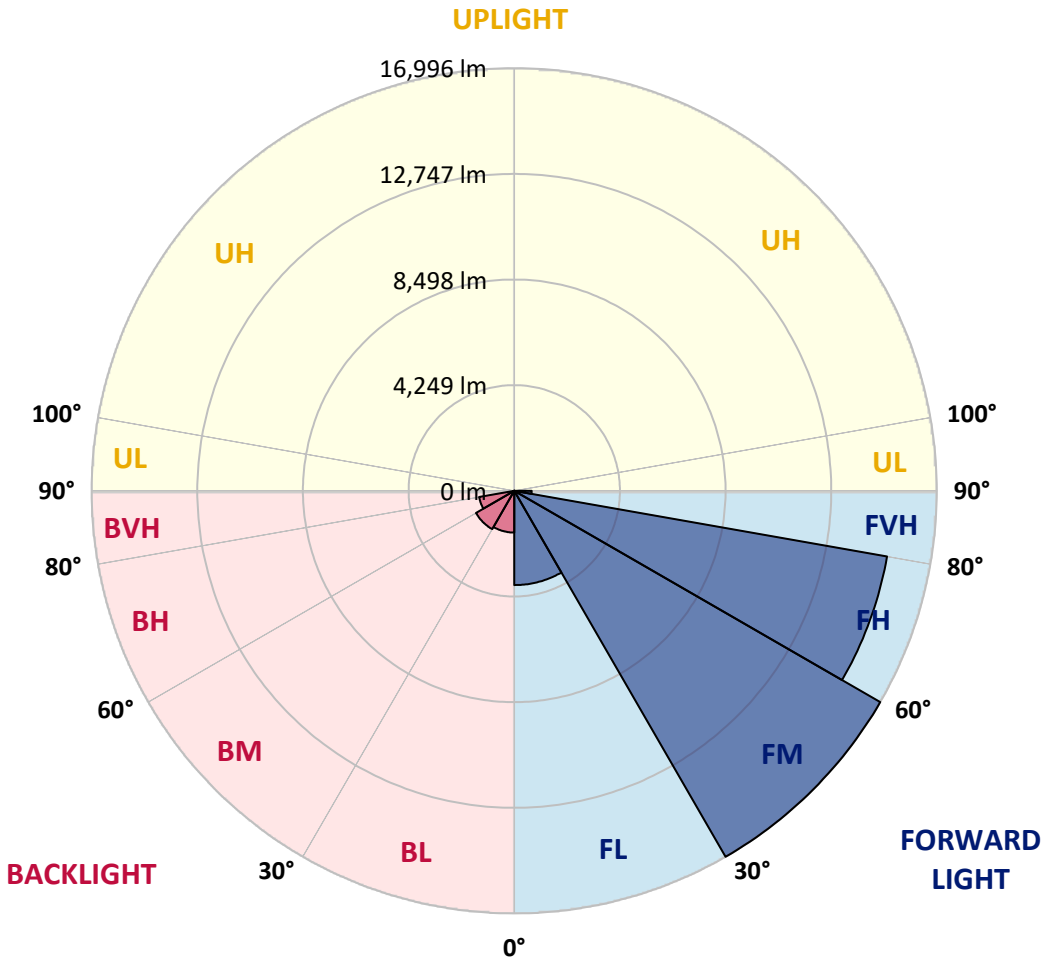
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3792.6	9.1			
FM	(30°-60°)	16996.4	40.8			
FH	(60°-80°)	15224.2	36.6			G5
FVH	(80°-90°)	700.8	1.7			G4/750
BL	(0°-30°)	1678.6	4.0	B3/2500		
BM	(30°-60°)	1777.8	4.3	B2/2500		
BH	(60°-80°)	1433.4	3.4	B3/2500		G3/2500
BVH	(80°-90°)	16.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type III Medium



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REPORT NUMBER: P323373
CATALOG NUMBER: GLEON-SA9C-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4	*10517.4*	10517.4	10517.4
2.5°	10610.8	10584.4	10605.5	10651.3	10674.2	10674.2	10691.8	10670.7	*10677.7*	10626.6	10552.7
5°	9946.8	9906.3	9964.5	10093.0	10251.5	10387.1	10587.9	10693.6	*10704.1*	10705.9	10619.6
7.5°	9231.8	9194.8	9281.1	9432.6	9636.9	9888.7	10239.2	10545.6	*10563.2*	10728.8	10665.4
10°	8650.7	8624.2	8724.6	8886.6	9126.2	9407.9	9837.7	10263.8	*10314.9*	10681.2	10658.3
12.5°	8189.2	8168.1	8263.2	8449.9	8694.7	9006.4	9455.5	9950.4	*10019.0*	10573.8	10623.1
15°	7852.9	7849.3	7928.6	8108.2	8379.4	8670.0	9129.7	9659.8	*9739.0*	10457.6	10617.8
17.5°	7676.8	7682.0	7740.2	7893.4	8125.8	8414.7	8854.9	9415.0	*9501.3*	10353.7	10644.2
20°	7659.1	7664.4	7696.1	7782.4	7970.9	8226.2	8631.3	9208.9	*9298.7*	10276.2	10686.5
22.5°	7814.1	7810.6	7819.4	7810.6	7916.3	8110.0	8483.3	9050.4	*9154.3*	10225.1	10720.0
25°	8111.7	8106.5	8102.9	8037.8	7967.3	8071.2	8421.7	8960.6	*9059.2*	10188.1	10739.3
27.5°	8525.6	8522.1	8516.8	8409.4	8198.0	8132.9	8428.8	8927.1	*9009.9*	10158.2	10735.8
30°	9069.8	9094.5	9087.4	8937.7	8608.4	8321.3	8502.7	8909.5	*8981.7*	10100.1	10698.8
32.5°	9709.1	9758.4	9797.1	9636.9	9224.8	8694.7	8673.5	8928.9	*8981.7*	10056.0	10631.9
35°	10373.0	10436.4	10579.1	10522.7	9980.3	9256.5	8967.7	9045.1	*9089.2*	10080.7	10600.2
37.5°	11026.4	11102.1	11412.1	11575.9	10970.1	9999.7	9425.5	9332.2	*9355.1*	10230.4	10635.4
40°	11785.5	11899.9	12370.2	12634.3	12151.8	10994.7	10110.6	9825.3	*9834.1*	10559.7	10799.2
42.5°	12782.3	12900.3	13409.2	13823.1	13483.2	12252.2	11040.5	10579.1	*10570.3*	11176.1	11184.9
45°	13997.4	14120.7	14647.3	15106.9	14953.7	13742.1	12231.0	11679.8	*11669.2*	12148.2	11915.8
47.5°	15374.6	15496.2	15966.4	16440.1	16605.7	15482.1	13747.4	13182.0	*13157.4*	13499.0	13044.7
50°	16556.3	16635.6	17068.8	17706.4	18453.1	17620.1	15633.5	15089.3	*15062.9*	15293.6	14701.9
52.5°	16986.1	17031.9	17472.1	18365.0	20228.3	20515.4	18111.4	17410.5	*17391.1*	17491.5	16908.6
55°	16116.1	16198.8	16739.5	18063.9	21189.9	23787.5	21239.2	20284.7	*20138.5*	19921.9	19215.7
57.5°	13745.6	13877.7	14458.8	16220.0	20740.8	26383.4	25835.7	23535.7	*23320.8*	21996.5	21091.2
60°	10299.1	10461.1	10943.6	12843.9	18343.9	27308.0	30858.5	27158.3	*26674.0*	23648.4	22815.4
62.5°	7067.4	7148.4	7476.0	8714.1	13509.6	25793.5	35060.5	32010.2	*31126.1*	25444.8	24680.4
65°	5397.9	5426.0	5559.9	5986.1	8044.8	20952.1	36731.8	38411.9	*37342.9*	27593.3	26615.9
67.5°	4350.0	4327.1	4512.0	5121.4	5387.3	12782.3	34782.2	44468.4	*43968.3*	30465.7	28563.7
69°	*3835.7*	*3804.0*	*3992.5*	*4700.4*	*5059.7*	*8449.9*	*31094.4*	*45843.9*	*45875.6*	*31982.1*	*28697.6*
70°	3451.8	3472.9	3659.6	4450.4	4948.8	6632.4	27572.2	45493.4	*45743.5*	32549.1	27894.5
72.5°	2305.3	2361.7	2736.8	3694.8	4758.6	5019.2	16647.9	39038.9	*40000.5*	31272.3	23931.9
75°	1299.7	1342.0	1787.5	2786.1	4483.8	4779.7	8793.3	28761.0	*29690.8*	26151.0	18454.8
77.5°	637.5	660.4	1010.9	1798.1	3749.4	4554.3	4987.5	19536.2	*20598.1*	17068.8	10438.2
80°	269.5	281.8	505.4	1109.5	2680.4	4346.5	3703.6	12023.2	*12155.3*	6687.0	2780.8
82.5°	103.9	107.4	213.1	692.1	1703.0	3388.4	3097.8	5700.8	*5563.4*	1259.2	634.0
85°	12.3	14.1	77.5	415.6	947.5	1743.5	2516.6	2456.8	*2273.6*	250.1	325.8
87.5°	0.0	0.0	5.3	126.8	281.8	817.2	1308.5	1019.7	*919.3*	81.0	169.1
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: P323373
CATALOG NUMBER: GLEON-SA9C-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4	10517.4
2.5°	10491.0	10473.4	10378.3	10241.0	10110.6	9948.6	9793.6	9700.3	9626.3	9577.0	9635.1
5°	10519.2	10441.7	10152.9	9783.1	9420.3	9011.7	8631.3	8309.0	8182.2	8041.3	8104.7
7.5°	10510.4	10364.2	9844.7	9186.0	8520.3	7831.7	7180.1	6678.2	6417.5	6162.2	6227.3
10°	10466.4	10219.8	9432.6	8456.9	7460.1	6470.4	5545.8	4843.1	4450.4	4094.6	4145.7
12.5°	10369.5	10026.1	8946.5	7622.2	6289.0	4984.0	3900.9	3001.0	2518.4	2305.3	2331.7
15°	10311.4	9837.7	8432.3	6776.8	5038.6	3471.2	2384.6	1773.5	1553.3	1482.9	1491.7
17.5°	10283.2	9656.3	7900.4	5810.0	3760.0	2210.2	1541.0	1359.6	1312.0	1299.7	1303.2
20°	10255.0	9473.1	7352.7	4853.7	2590.6	1486.4	1266.2	1213.4	1195.8	1180.0	1183.5
22.5°	10207.5	9297.0	6764.5	3885.0	1747.0	1206.4	1141.2	1090.1	1053.2	1033.8	1037.3
25°	10149.4	9112.1	6163.9	2893.5	1275.1	1076.0	1014.4	942.2	898.2	863.0	864.7
27.5°	10056.0	8884.9	5544.0	2106.3	1070.8	963.3	880.6	801.3	727.3	686.8	686.8
30°	9925.7	8627.8	4855.4	1507.5	959.8	852.4	752.0	653.4	574.1	537.1	533.6
32.5°	9781.3	8360.1	4159.8	1143.0	871.8	748.5	634.0	530.1	459.7	429.7	428.0
35°	9658.0	8071.2	3465.9	958.1	783.7	648.1	523.1	435.0	378.6	354.0	352.2
37.5°	9578.8	7782.4	2789.6	855.9	704.5	554.8	438.5	359.3	318.8	299.4	297.6
40°	9566.4	7567.6	2171.5	778.4	630.5	472.0	366.3	304.7	267.7	246.6	244.8
42.5°	9726.7	7444.3	1666.0	713.3	554.8	399.8	311.7	260.6	221.9	200.8	199.0
45°	10147.6	7483.0	1282.1	655.1	479.0	338.1	264.2	216.6	181.4	165.5	162.0
47.5°	10915.5	7750.7	1019.7	597.0	406.8	287.1	225.4	179.6	149.7	133.8	132.1
50°	12282.1	8379.4	852.4	533.6	339.9	244.8	186.7	146.2	121.5	107.4	105.7
52.5°	14096.1	9499.5	760.8	472.0	281.8	207.8	153.2	116.2	95.1	84.5	82.8
55°	16096.7	10855.6	700.9	405.1	230.7	172.6	121.5	91.6	74.0	65.2	61.6
57.5°	18049.8	12030.3	644.6	339.9	192.0	140.9	96.9	72.2	58.1	49.3	47.6
60°	19844.4	13109.8	579.4	273.0	156.7	111.0	75.7	56.4	45.8	37.0	37.0
62.5°	21765.8	13944.6	489.6	213.1	128.6	84.5	61.6	51.1	37.0	31.7	29.9
65°	23801.6	14564.5	383.9	165.5	100.4	63.4	51.1	52.8	29.9	22.9	21.1
67.5°	25305.6	14441.2	283.5	130.3	77.5	49.3	49.3	56.4	26.4	17.6	15.9
69°	*24974.5*	*13439.2*	*237.8*	*112.7*	*66.9*	*42.3*	*45.8*	*56.4*	*24.7*	*15.9*	*14.1*
70°	24014.7	12329.6	209.6	100.4	59.9	38.7	44.0	54.6	22.9	15.9	14.1
72.5°	19999.4	9286.4	163.8	75.7	47.6	31.7	37.0	47.6	22.9	15.9	12.3
75°	15043.5	5943.8	125.0	54.6	35.2	24.7	28.2	35.2	22.9	14.1	12.3
77.5°	8185.7	2143.3	89.8	37.0	24.7	19.4	19.4	26.4	21.1	10.6	7.0
80°	2104.5	538.9	56.4	24.7	19.4	14.1	12.3	17.6	12.3	1.8	0.0
82.5°	519.5	121.5	29.9	17.6	14.1	5.3	5.3	8.8	5.3	0.0	0.0
85°	285.3	59.9	19.4	12.3	7.0	0.0	0.0	1.8	0.0	0.0	0.0
87.5°	146.2	17.6	5.3	3.5	1.8	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

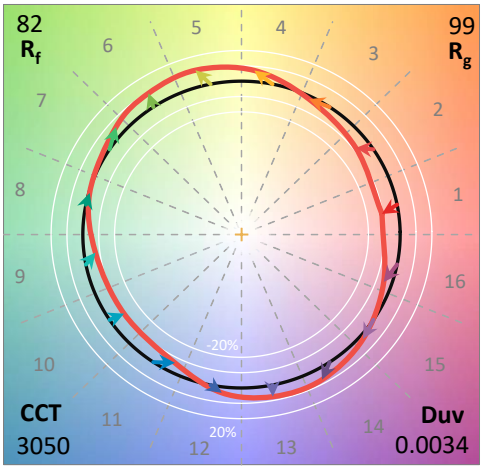
Test Information

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

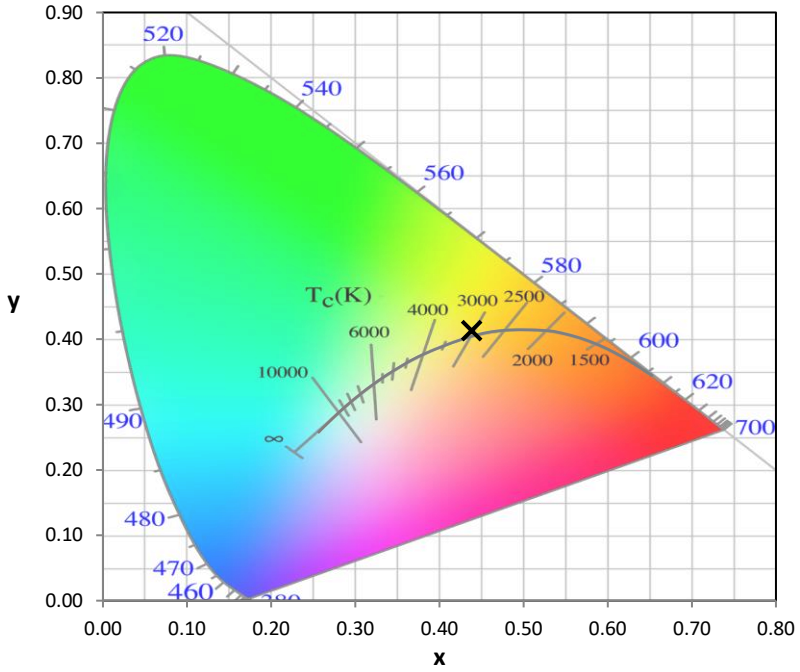
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

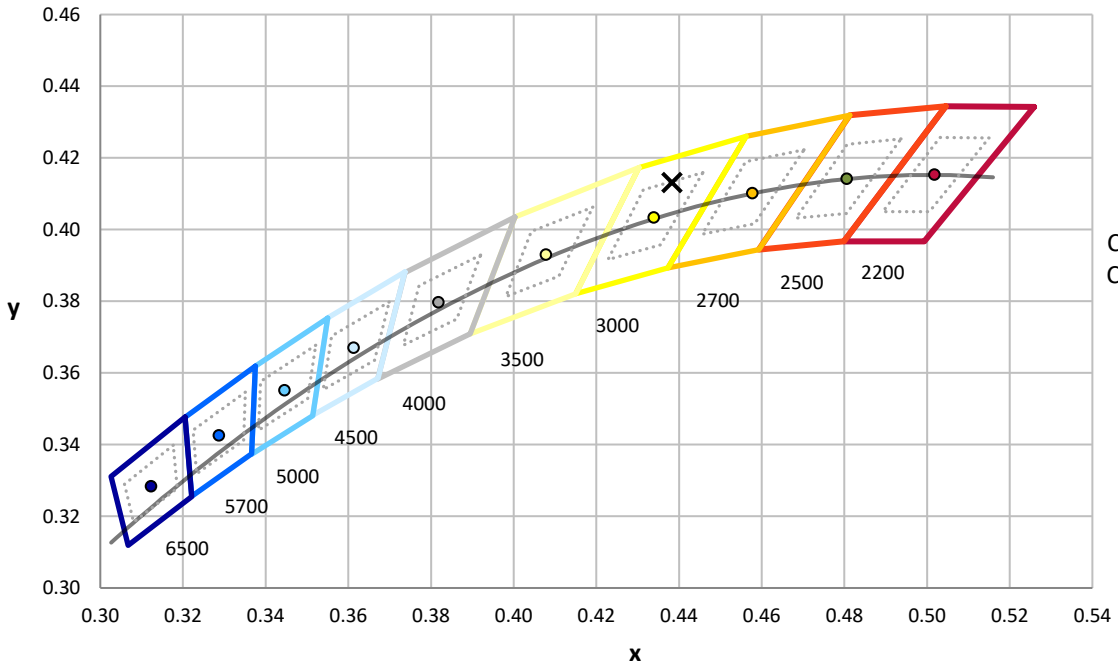
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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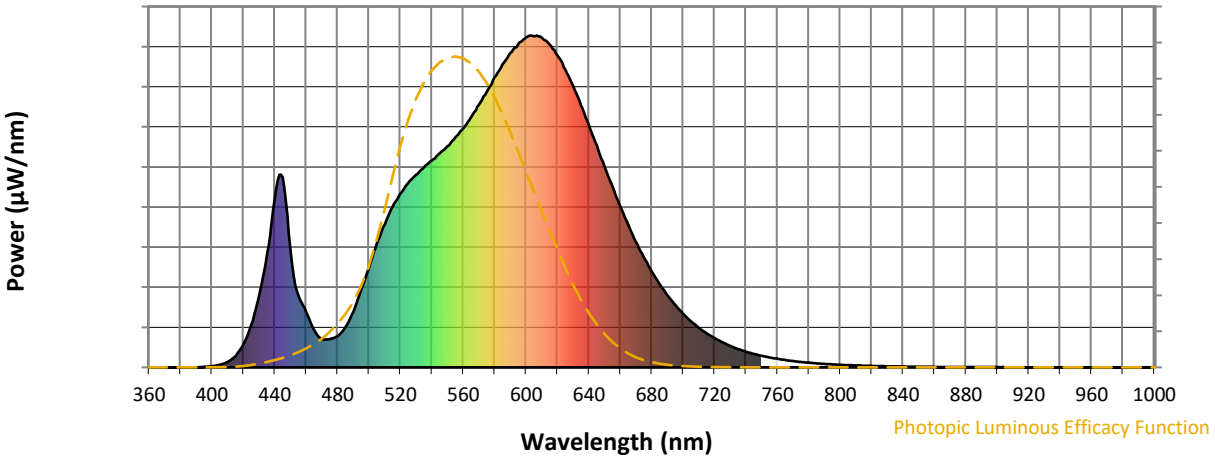
Photopic Flux vs. Wavelength



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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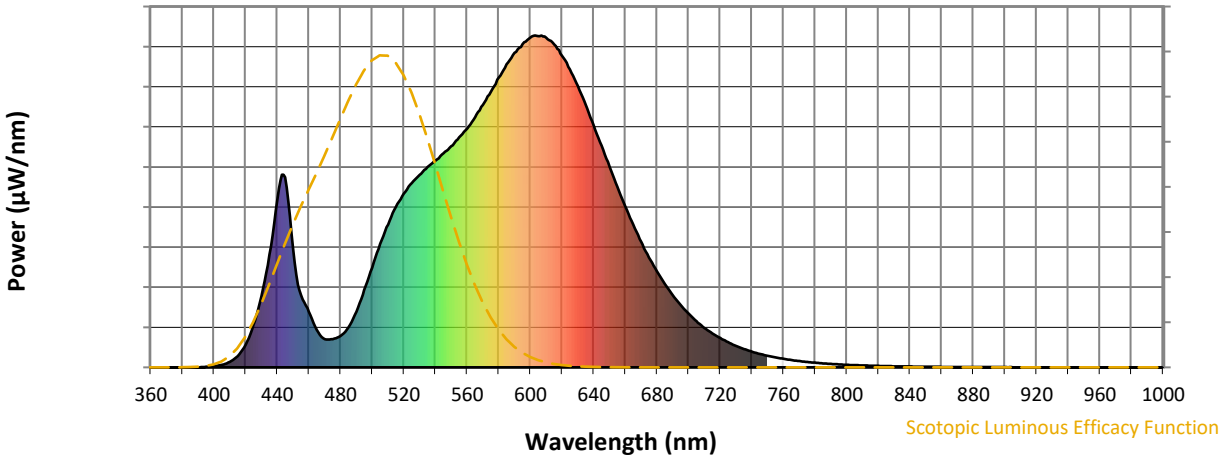
Scotopic Flux vs. Wavelength



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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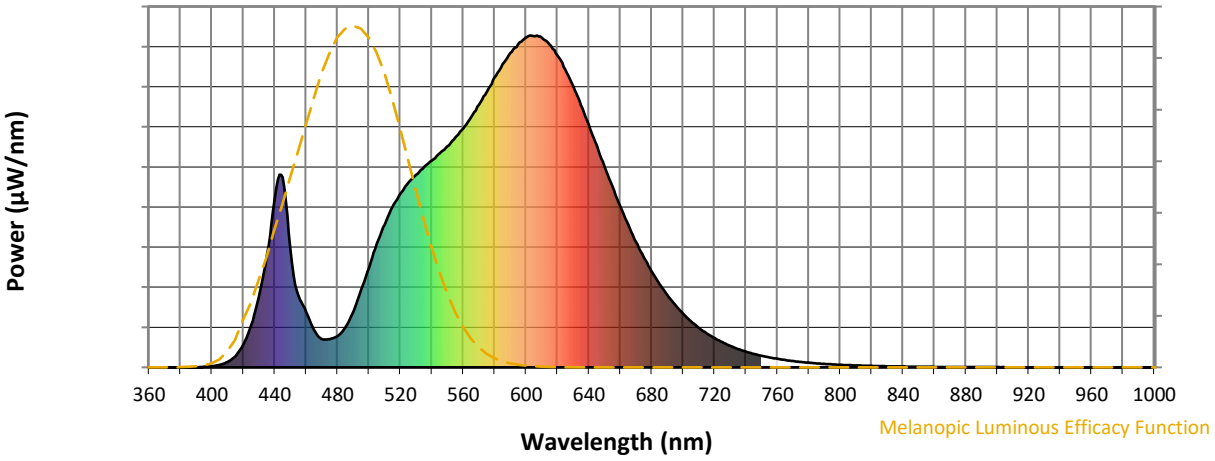
Melanopic Flux vs. Wavelength



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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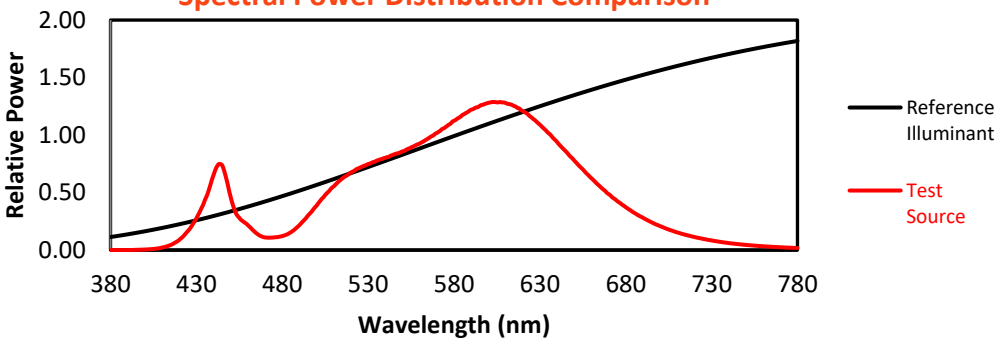
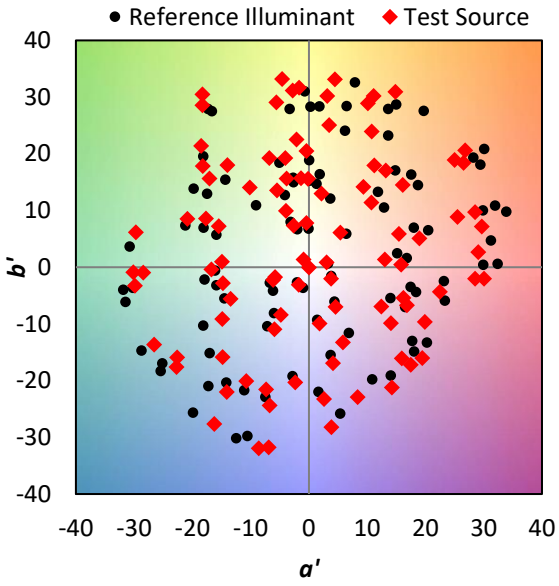
Summary

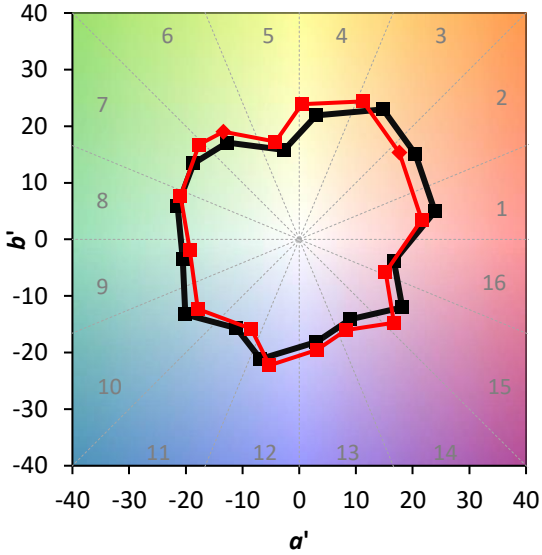
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

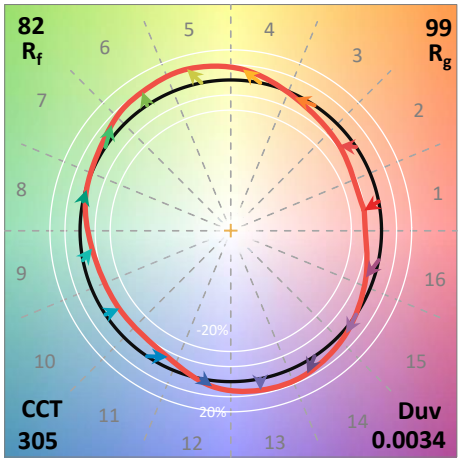
Spectral Power Distribution Comparison

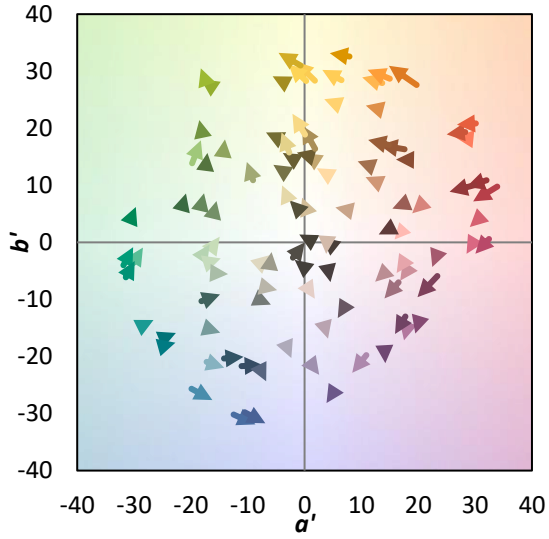


Color Vector Graphics









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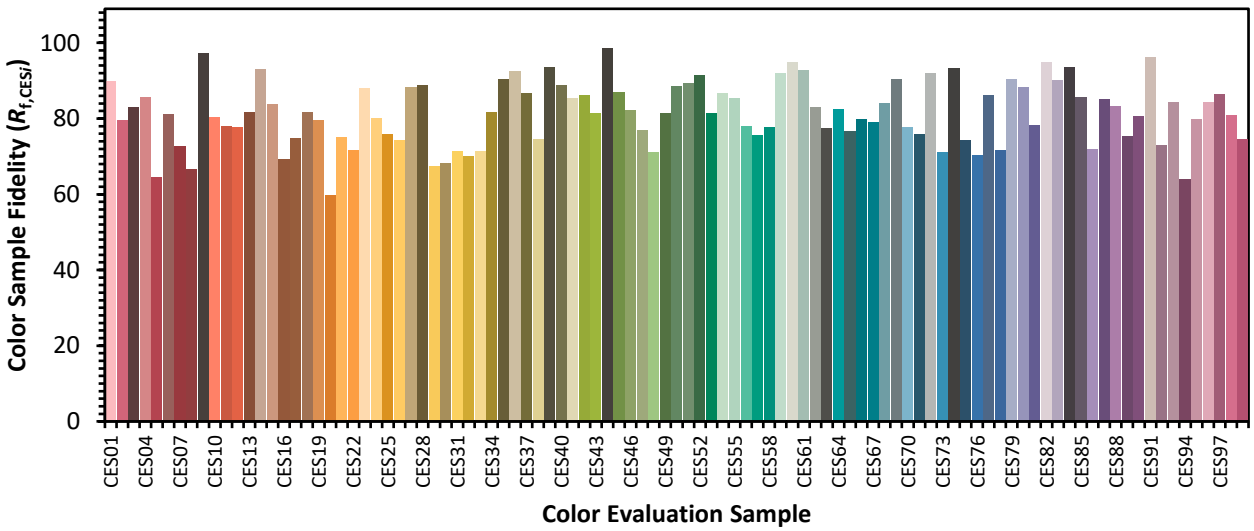
Individual Sample Fidelity Index ($R_{f,i}$)

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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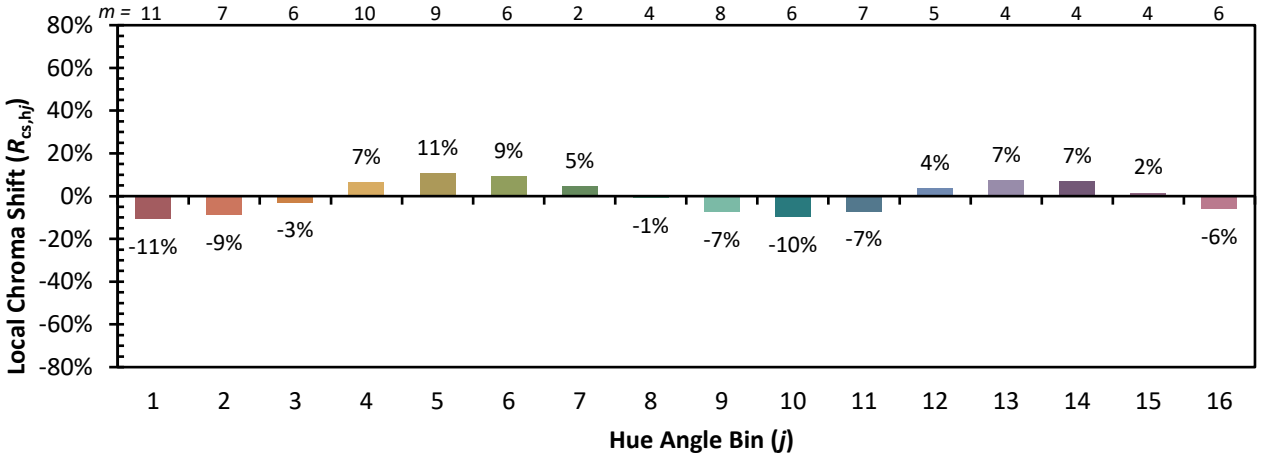
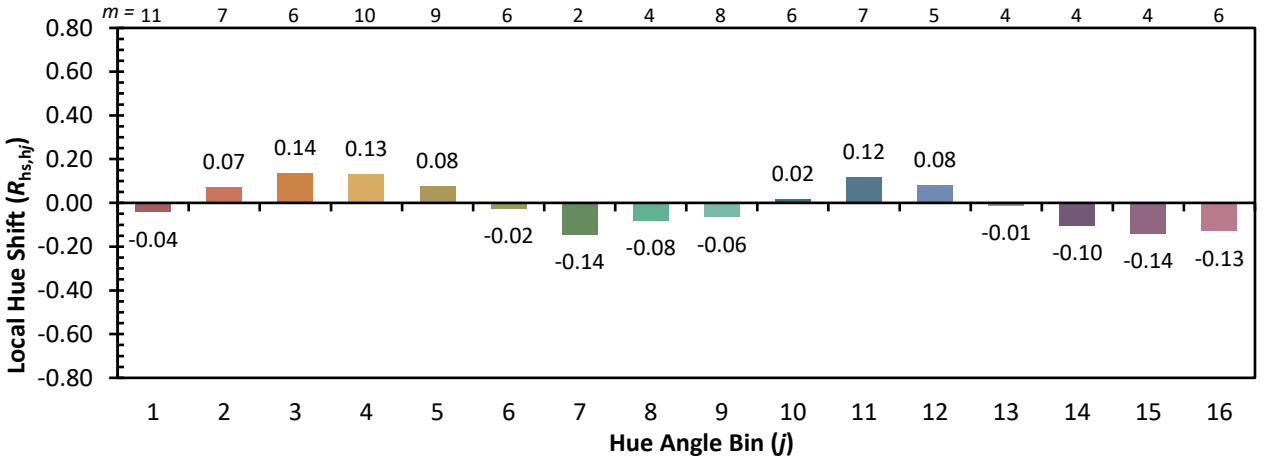
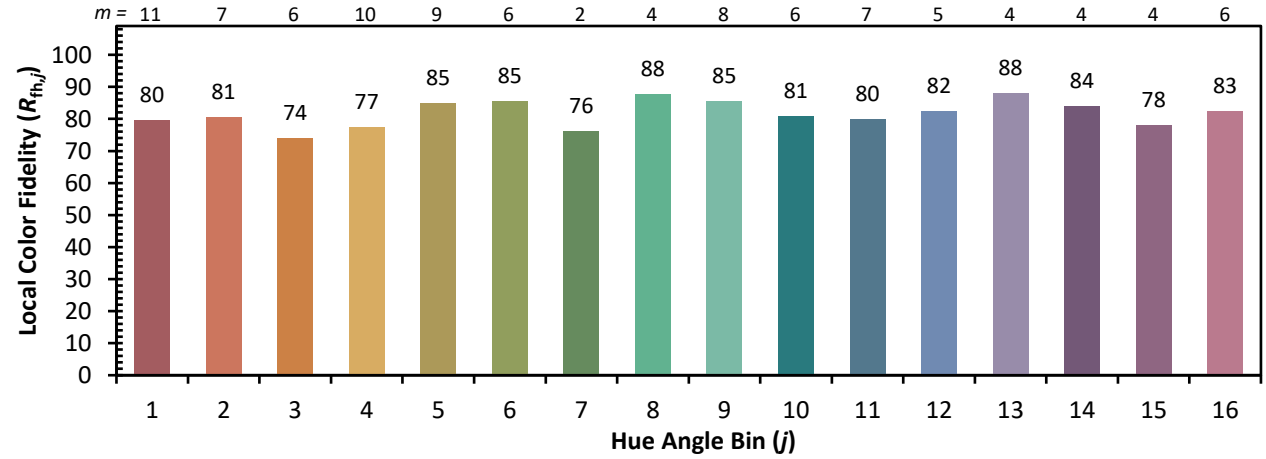
Color Rendition by Hue-Angle Bin







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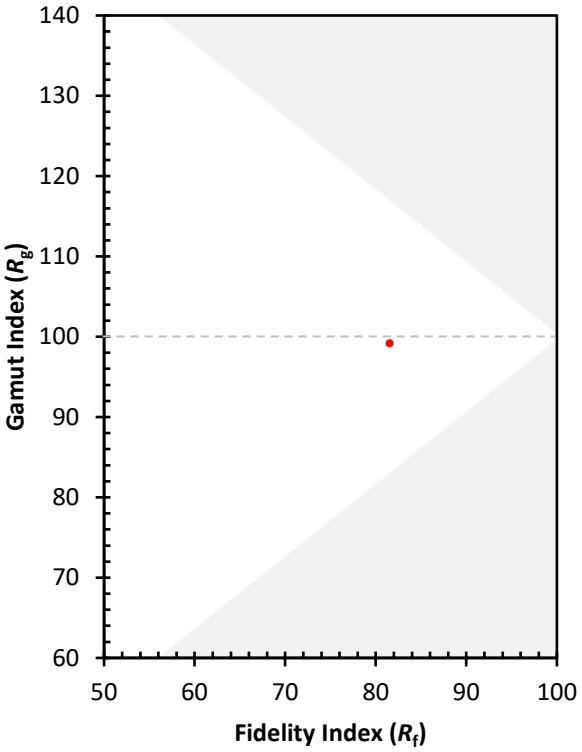
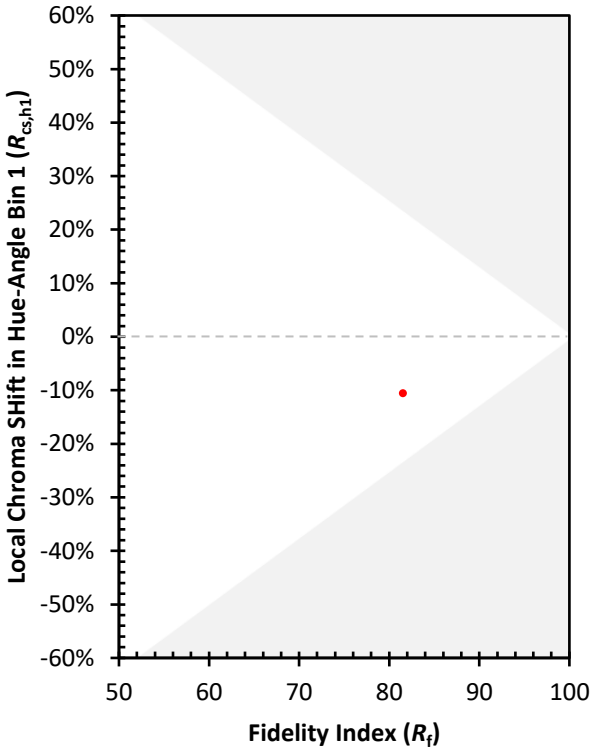
Measure Comparisons





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