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: P319864

Luminaire Tested: **GLEON-SA0D-830-U-SL3**

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:	P319864
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA0D-830-U-SL3
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	61033 lumens
Efficiency:	N/A
Efficacy:	95.4 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B4 - U0 - G5

Input Watts (W):	640
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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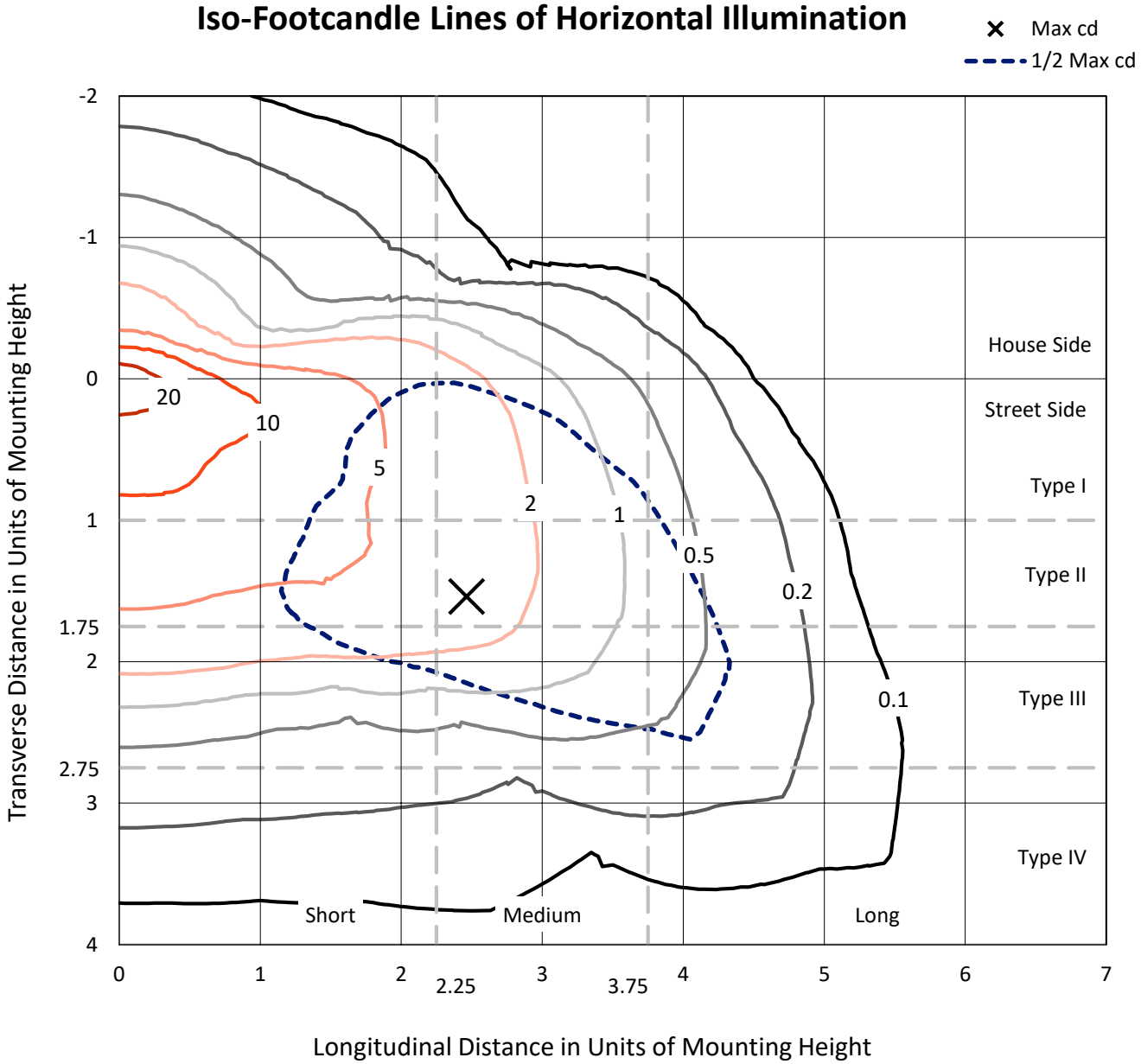
REPORT NUMBER: P319864
CATALOG NUMBER: GLEON-SA0D-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 27.1 fc
Type III - Medium - N/A

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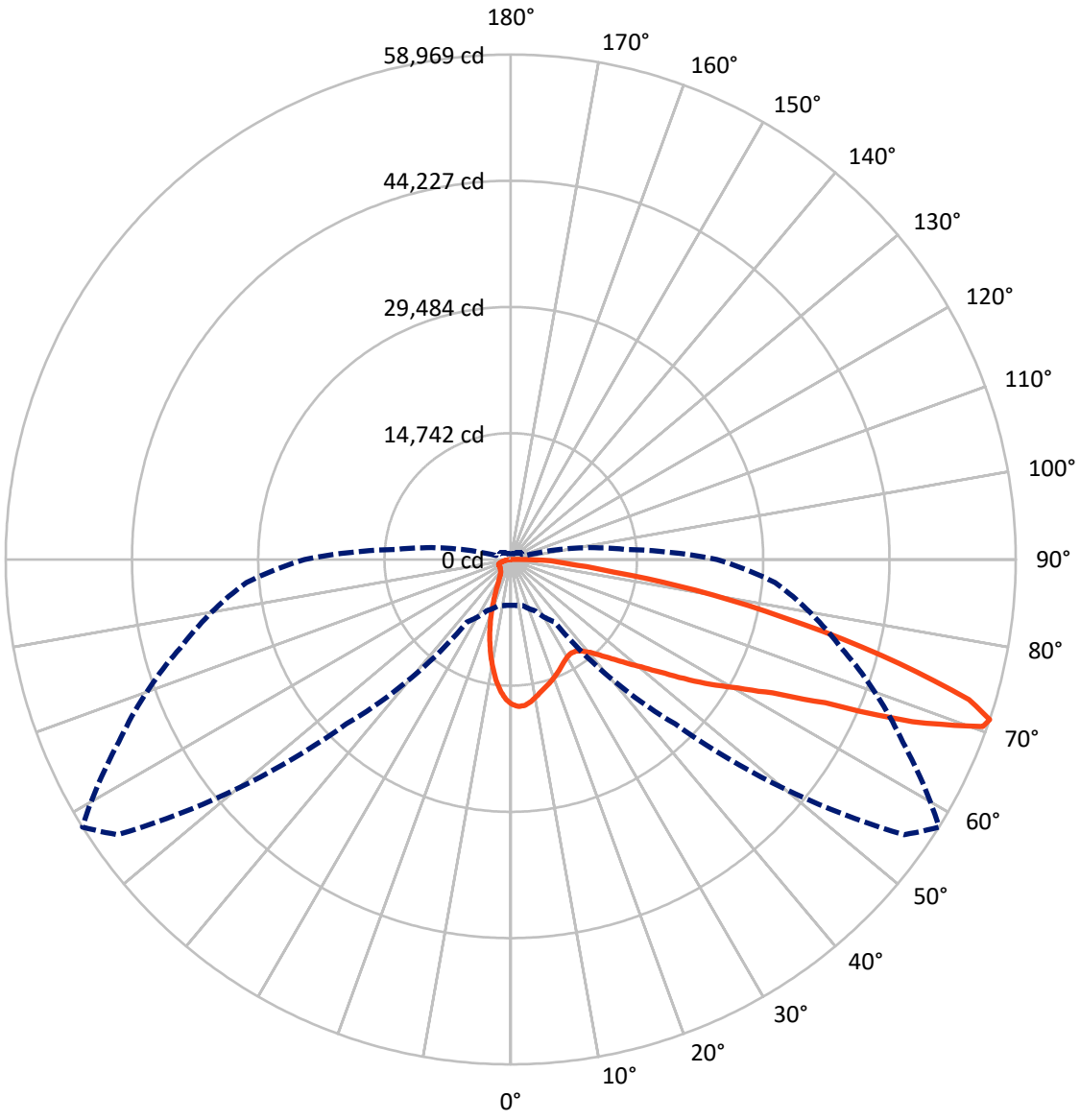
Luminous Intensity Polar Plot



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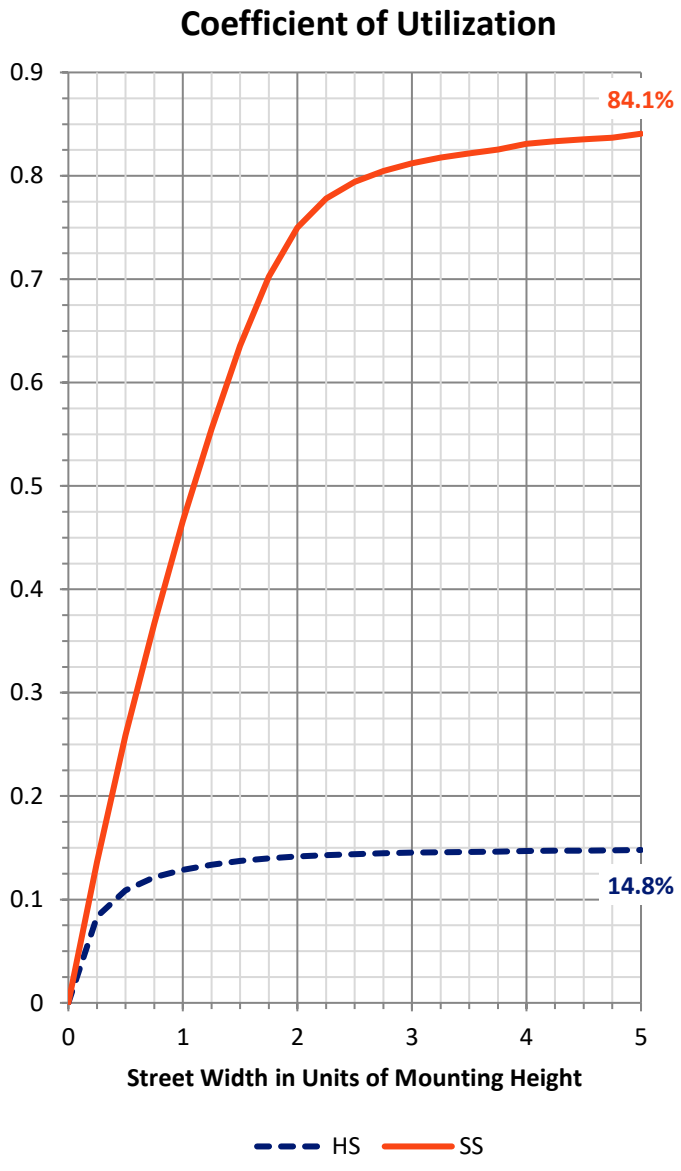
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9124.9	0.0	9124.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	51908.1	0.0	51908.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	61033.0	0.0	61033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1458.8	2.4
10°-20°	3243.9	5.3
20°-30°	4122.7	6.8
30°-40°	5251.5	8.6
40°-50°	7446.8	12.2
50°-60°	11524.3	18.9
60°-70°	15688.8	25.7
70°-80°	10466.3	17.1
80°-90°	1829.9	3.0
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°	61033.0	100.0
0°-180°	61033.0	100.0



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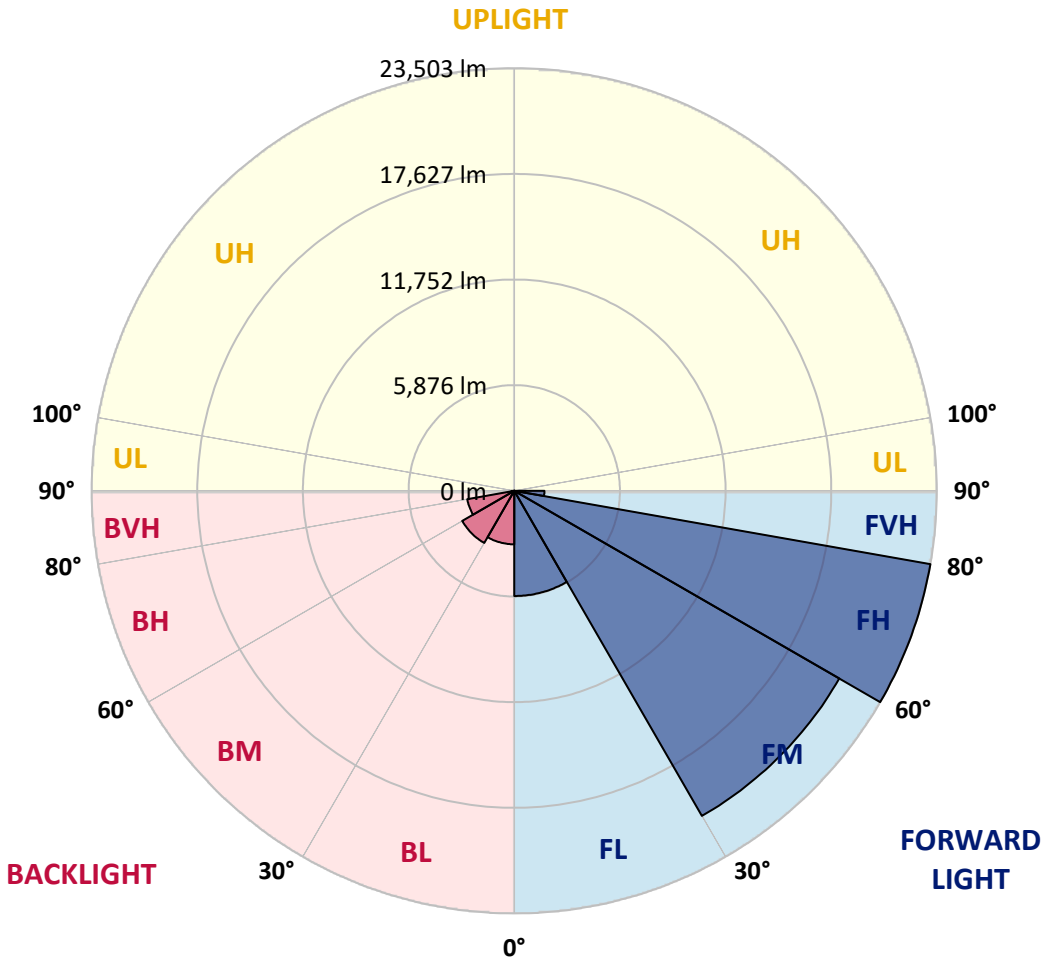
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	5851.0	9.6			
FM	(30°-60°)	20876.2	34.2			
FH	(60°-80°)	23503.1	38.5			G5
FVH	(80°-90°)	1677.8	2.7			G5
BL	(0°-30°)	2974.4	4.9	B4/5000		
BM	(30°-60°)	3346.3	5.5	B3/5000		
BH	(60°-80°)	2652.1	4.3	B4/5000		G4/5000
BVH	(80°-90°)	152.0	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	16910.2	16910.2	16910.2	16910.2	16910.2	16910.2	16910.2	*16910.2*	16910.2	16910.2	16910.2
2.5°	17358.8	17335.4	17343.9	17326.9	17286.5	17246.1	17186.6	*17197.2*	17114.3	16991.0	16837.9
5°	17031.4	17022.9	17086.7	17122.8	17152.6	17129.2	17112.2	*17133.5*	17012.3	16842.2	16576.4
7.5°	16344.7	16251.2	16331.9	16453.1	16567.9	16655.1	16769.9	*16784.8*	16708.3	16529.7	16181.0
10°	15368.9	15279.6	15398.6	15587.8	15817.5	16025.8	16257.5	*16300.1*	16314.9	16153.4	15730.3
12.5°	14356.9	14288.9	14407.9	14673.7	15054.2	15375.2	15745.2	*15809.0*	15940.8	15832.3	15313.6
15°	13451.2	13425.7	13570.3	13831.8	14269.7	14760.8	15294.5	*15411.4*	15634.6	15598.5	14988.3
17.5°	12668.8	12662.5	12773.0	13047.3	13532.0	14152.8	14845.9	*15043.6*	15375.2	15417.8	14720.4
20°	12086.3	12073.6	12150.1	12352.1	12851.7	13555.4	14361.1	*14633.3*	15111.6	15260.4	14444.1
22.5°	11773.8	11771.7	11773.8	11869.5	12277.7	12932.5	13889.2	*14220.8*	14854.4	15135.0	14137.9
25°	11720.6	11714.3	11667.5	11656.9	11888.6	12411.6	13421.5	*13787.1*	14609.9	15047.8	13846.7
27.5°	11858.8	11867.3	11805.7	11705.8	11752.5	12069.3	13015.4	*13406.6*	14414.3	15030.8	13644.7
30°	12145.9	12141.6	12088.4	11984.3	11892.9	11941.8	12726.2	*13117.4*	14282.5	15105.2	13506.5
32.5°	12462.6	12486.0	12475.4	12418.0	12281.9	12086.3	12639.1	*13021.8*	14244.2	15283.8	13447.0
35°	12843.2	12868.7	12945.2	12989.9	12830.4	12515.8	12826.2	*13157.8*	14354.8	15619.7	13542.6
37.5°	13204.6	13270.5	13485.2	13674.4	13538.4	13187.6	13323.7	*13559.6*	14697.1	16149.1	13799.9
40°	13621.3	13678.7	14029.5	14431.3	14410.0	14046.5	14125.2	*14282.5*	15300.8	16908.1	14265.5
42.5°	14031.6	14146.4	14654.5	15224.3	15388.0	15067.0	15192.4	*15275.3*	16151.2	17913.7	15077.6
45°	14578.0	14701.3	15407.1	16093.8	16476.5	16295.8	16495.7	*16527.5*	17220.6	19282.8	16257.5
47.5°	15405.0	15545.3	16368.1	17088.8	17673.5	17692.6	18022.1	*18009.4*	18555.7	20849.7	17743.6
50°	16693.4	16895.3	17569.3	18243.2	18953.3	19348.7	19788.8	*19727.2*	20156.6	22518.6	19455.0
52.5°	18381.4	18475.0	18974.6	19472.1	20354.3	21240.9	21872.3	*21817.0*	21972.2	24234.3	21398.2
55°	20131.1	20201.3	20407.5	20679.6	21865.9	23311.6	24646.7	*24559.6*	24166.3	26015.9	23318.0
57.5°	21704.4	21846.8	21989.2	22101.9	23388.1	25475.9	27485.0	*27491.3*	26547.4	27937.8	25301.6
60°	21948.8	22074.3	23016.1	23904.8	25992.5	28363.0	30523.0	*30459.2*	29011.4	30023.4	27512.6
62.5°	19401.9	19684.7	21257.9	23622.0	28501.2	33644.0	34398.7	*34320.1*	31958.1	32593.7	30087.2
65°	13904.1	14225.1	16123.6	19676.1	27285.1	39462.9	41393.3	*40334.5*	35976.2	35755.1	33101.9
67.5°	8021.4	8097.9	8920.7	11773.8	20775.3	39766.9	52063.7	*50581.8*	42216.0	39341.7	34577.3
70°	5931.5	5929.4	6125.0	7245.4	11242.3	32455.5	57138.4	*58467.2*	48785.4	40521.6	32491.7
71°	*5363.9*	*5370.3*	*5589.3*	*6594.9*	*8903.7*	*27166.1*	*56060.6*	*58968.9*	*50515.9*	*39939.1*	*30982.2*
72.5°	4587.9	4609.2	4913.2	5914.5	7489.9	18734.3	51417.4	*55958.5*	51336.6	38501.9	28620.2
75°	3480.3	3529.2	3950.1	4985.5	6845.7	9501.1	37736.5	*44684.3*	45604.9	33973.5	21266.4
77.5°	2483.2	2538.4	3014.7	4192.5	6507.7	7160.4	25271.8	*32593.7*	33561.1	21772.4	9592.5
80°	1569.0	1634.9	1994.2	3335.7	6114.4	6799.0	15881.2	*21908.5*	18300.6	6966.9	2440.7
82.5°	920.6	971.6	1237.3	2179.2	4994.0	6548.1	9343.8	*12143.7*	7122.1	2104.7	1109.8
85°	533.6	557.0	771.7	1388.3	3627.0	6180.3	6864.9	*6788.3*	3091.2	1029.0	525.1
87.5°	248.7	276.4	457.1	725.0	2013.3	4479.5	5425.6	*4687.8*	1921.9	482.6	246.6
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: P319864
CATALOG NUMBER: GLEON-SA0D-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16910.2	16910.2	16910.2	16910.2	16910.2	16910.2	16910.2	16910.2	16910.2	16910.2	16910.2
2.5°	16763.5	16727.4	16576.4	16442.5	16302.2	16119.3	15917.4	15891.9	15768.6	15791.9	15749.4
5°	16431.9	16340.5	15976.9	15647.4	15258.3	14909.7	14531.2	14356.9	14106.0	14089.0	14025.2
7.5°	15957.8	15787.7	15224.3	14599.3	13974.2	13378.9	12790.0	12403.1	12007.7	11839.7	11824.8
10°	15424.1	15135.0	14305.9	13381.1	12479.6	11610.1	10768.2	10145.3	9584.0	9318.3	9307.6
12.5°	14918.2	14490.8	13353.4	12094.8	10861.7	9735.0	8580.5	7762.0	7058.3	6822.3	6722.4
15°	14488.7	13887.0	12426.5	10817.1	9320.4	7755.7	6441.8	5580.8	4930.2	4704.8	4662.3
17.5°	14072.0	13298.1	11476.2	9526.6	7717.4	5997.5	4681.5	4041.5	3695.0	3603.6	3601.4
20°	13657.4	12692.2	10483.3	8206.4	6167.5	4485.9	3599.3	3312.3	3195.4	3184.8	3167.7
22.5°	13187.6	12050.2	9439.4	6881.9	4813.3	3527.0	3059.3	2944.5	2929.6	2967.9	2967.9
25°	12747.5	11412.4	8380.7	5585.0	3743.9	2942.4	2731.9	2708.5	2748.9	2817.0	2823.3
27.5°	12337.2	10798.0	7347.5	4432.7	2999.8	2591.6	2504.4	2532.1	2604.4	2683.0	2685.1
30°	11999.2	10217.6	6344.0	3493.0	2534.2	2330.1	2315.2	2370.5	2449.2	2510.8	2525.7
32.5°	11737.7	9722.2	5374.5	2808.4	2230.2	2134.5	2147.3	2194.0	2242.9	2276.9	2300.3
35°	11616.5	9297.0	4479.5	2368.4	2036.7	1983.6	2000.6	2026.1	2047.3	2072.9	2092.0
37.5°	11637.7	8967.5	3680.1	2094.1	1907.0	1879.4	1879.4	1879.4	1879.4	1892.1	1894.3
40°	11835.5	8778.3	3029.6	1919.8	1819.9	1790.1	1766.7	1745.4	1728.4	1736.9	1732.7
42.5°	12341.4	8761.3	2553.3	1809.2	1749.7	1700.8	1654.0	1624.3	1603.0	1611.5	1615.8
45°	13200.3	8973.9	2232.3	1730.6	1683.8	1609.4	1549.9	1518.0	1503.1	1530.7	1535.0
47.5°	14312.2	9437.3	2036.7	1673.2	1622.1	1524.3	1460.6	1430.8	1435.1	1475.4	1486.1
50°	15745.2	10189.9	1943.2	1637.0	1579.6	1452.1	1386.2	1360.6	1373.4	1430.8	1443.6
52.5°	17318.4	11274.2	1953.8	1626.4	1552.0	1398.9	1328.8	1299.0	1320.2	1373.4	1384.0
55°	19134.0	12577.4	2130.3	1641.3	1511.6	1364.9	1282.0	1231.0	1248.0	1296.9	1305.4
57.5°	21151.6	14069.9	2485.3	1637.0	1460.6	1333.0	1233.1	1156.5	1169.3	1199.1	1207.6
60°	23252.1	15872.7	3035.9	1649.8	1437.2	1294.7	1167.2	1071.5	1067.3	1092.8	1097.0
62.5°	25773.5	17958.3	3665.2	1658.3	1452.1	1245.8	1080.0	986.5	973.7	980.1	984.3
65°	28371.5	19467.8	3429.2	1624.3	1498.8	1205.4	1003.5	903.6	880.2	875.9	878.0
67.5°	28452.3	17849.9	2404.5	1556.2	1518.0	1184.2	946.1	833.4	795.1	780.2	778.1
70°	25516.3	14501.5	1873.0	1483.9	1441.4	1150.2	892.9	776.0	718.6	695.2	693.1
71°	*24083.4*	*13349.2*	*1775.2*	*1447.8*	*1384.0*	*1116.2*	*869.5*	*750.5*	*691.0*	*665.4*	*661.2*
72.5°	21836.2	11967.3	1656.2	1390.4	1273.5	1029.0	824.9	714.3	652.7	622.9	616.5
75°	15670.8	7825.8	1422.3	1239.5	1054.5	820.6	722.8	642.1	588.9	552.8	548.5
77.5°	6037.8	3114.6	1075.8	1031.1	807.9	642.1	595.3	554.9	516.6	480.5	478.4
80°	1866.6	1392.5	784.5	776.0	584.7	478.4	463.5	452.8	438.0	399.7	391.2
82.5°	997.1	799.4	540.0	501.7	382.7	318.9	335.9	340.2	342.3	301.9	297.6
85°	476.2	423.1	304.0	284.9	223.2	178.6	206.2	223.2	225.4	185.0	172.2
87.5°	227.5	221.1	142.4	108.4	82.9	59.5	72.3	89.3	97.8	70.2	61.7
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

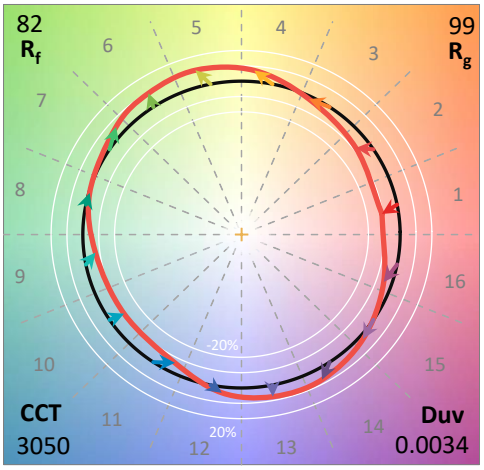
Test Information

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

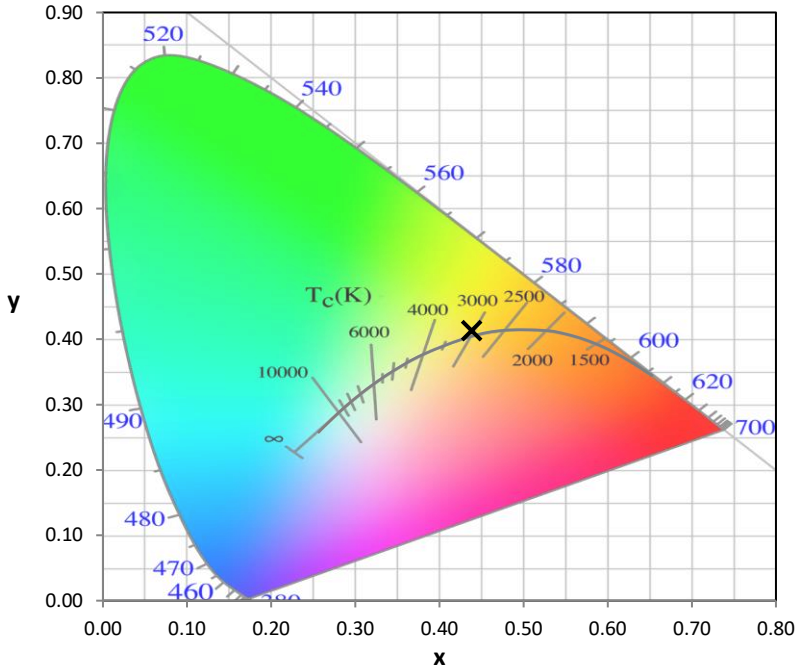
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

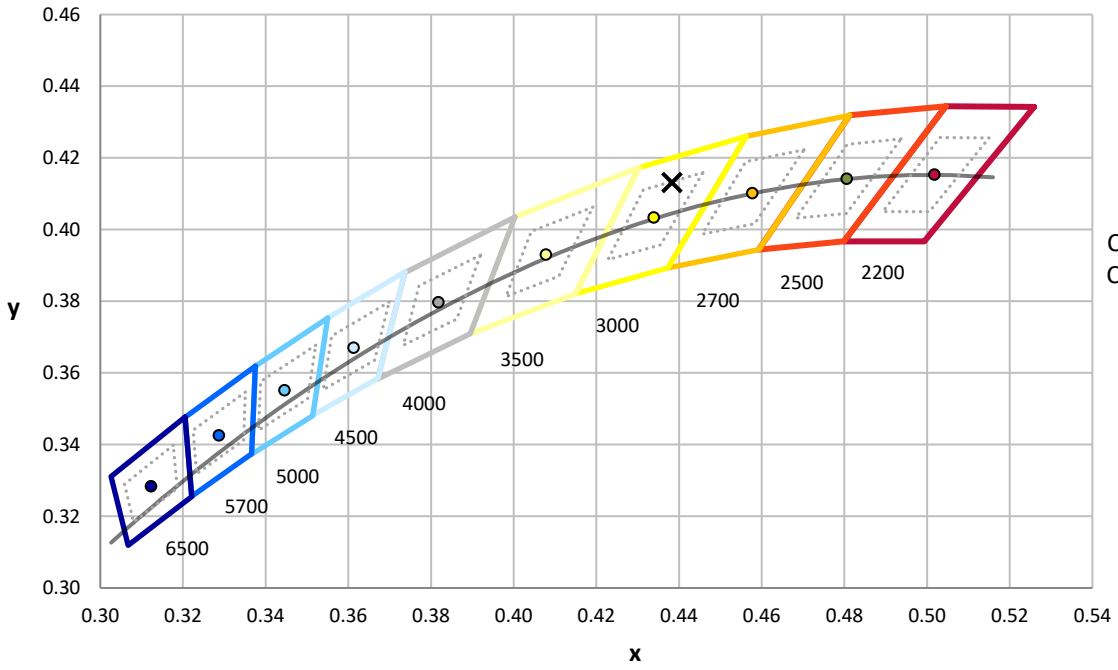
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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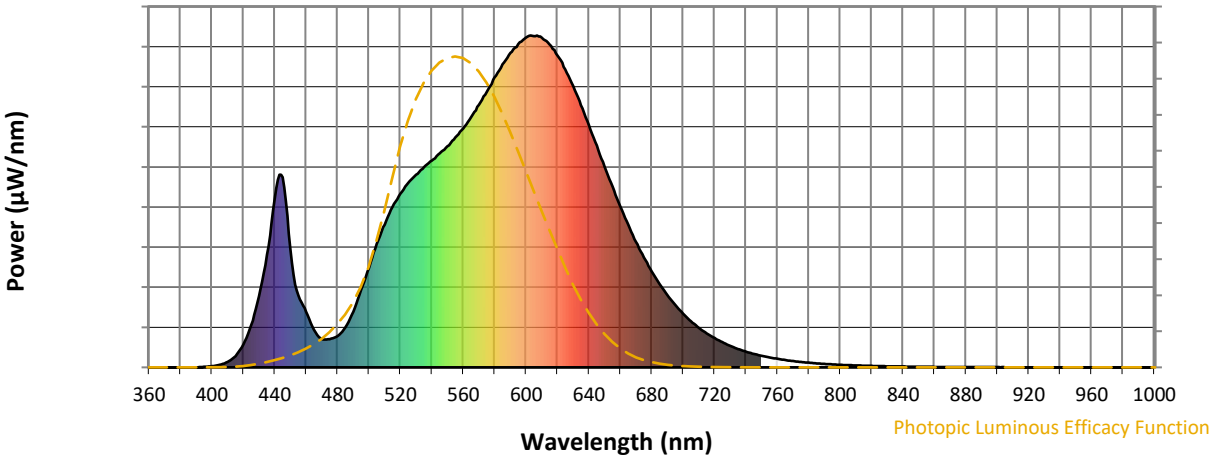
Photopic Flux vs. Wavelength



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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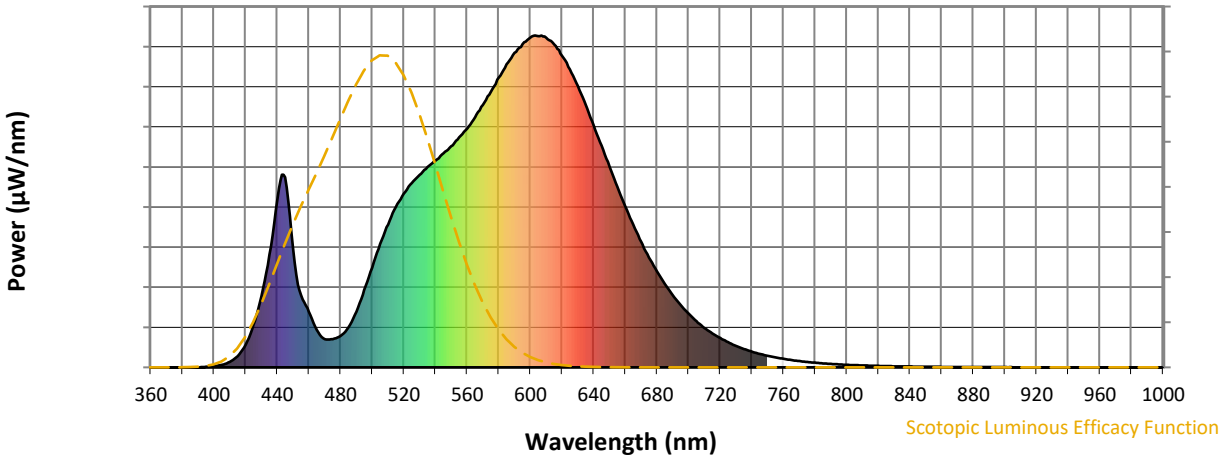
Scotopic Flux vs. Wavelength



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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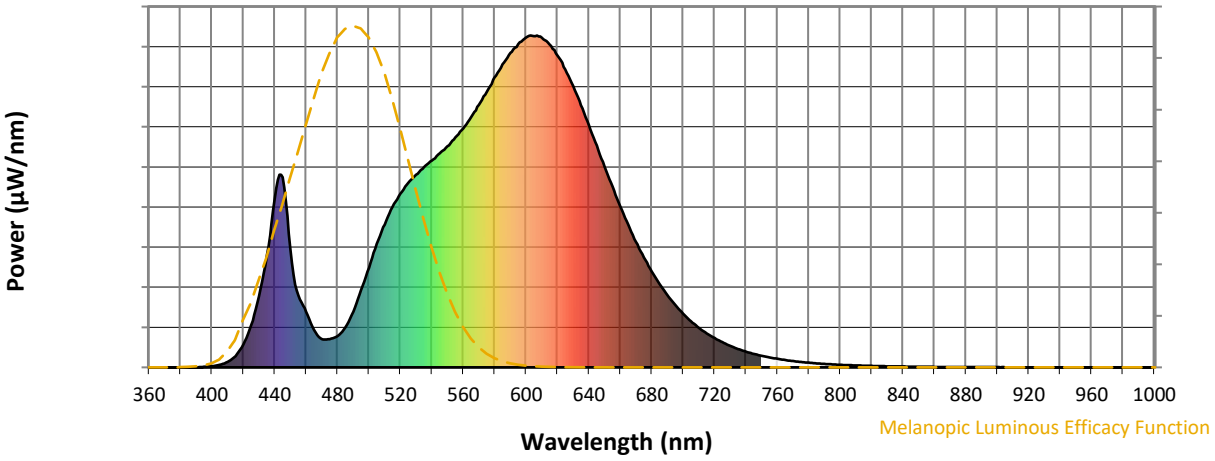
Melanopic Flux vs. Wavelength



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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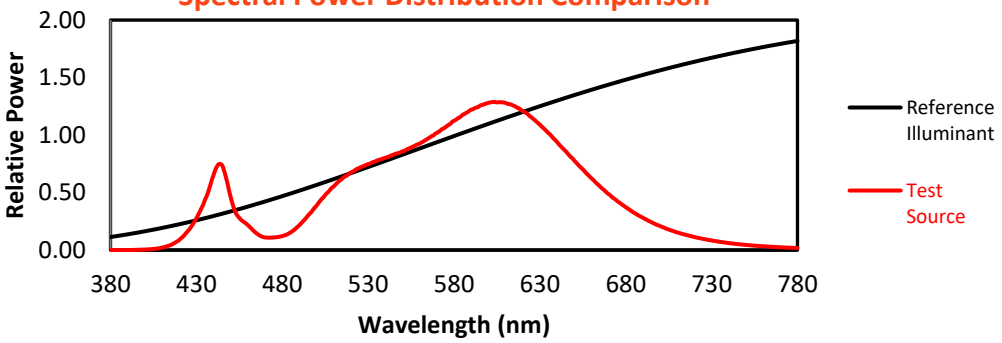
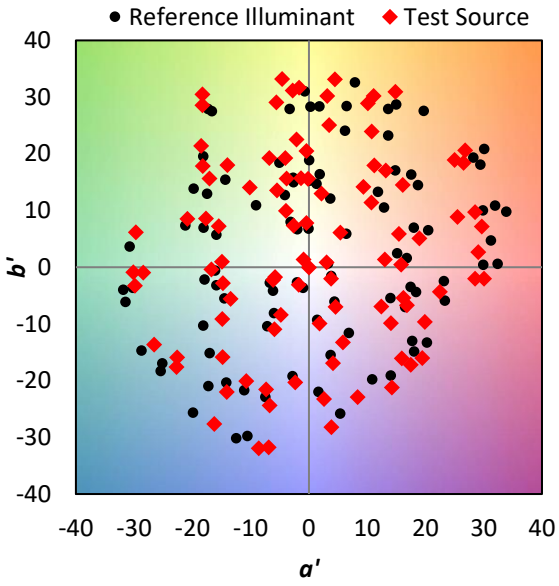
Summary

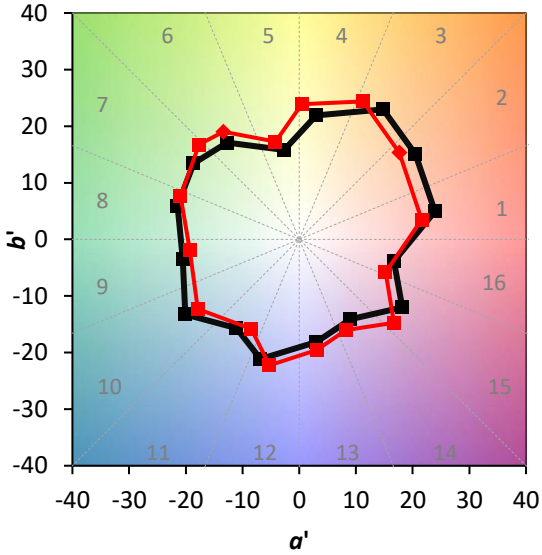
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

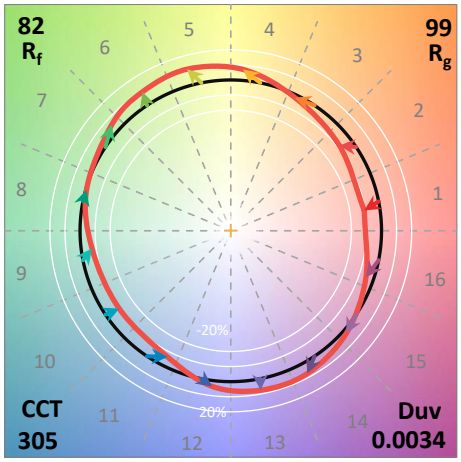
Spectral Power Distribution Comparison

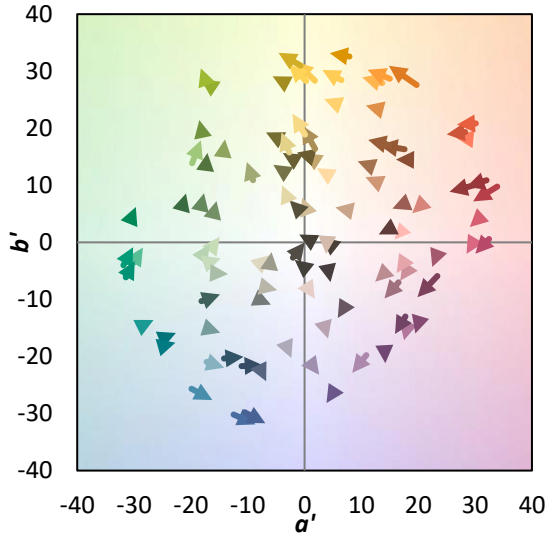


Color Vector Graphics









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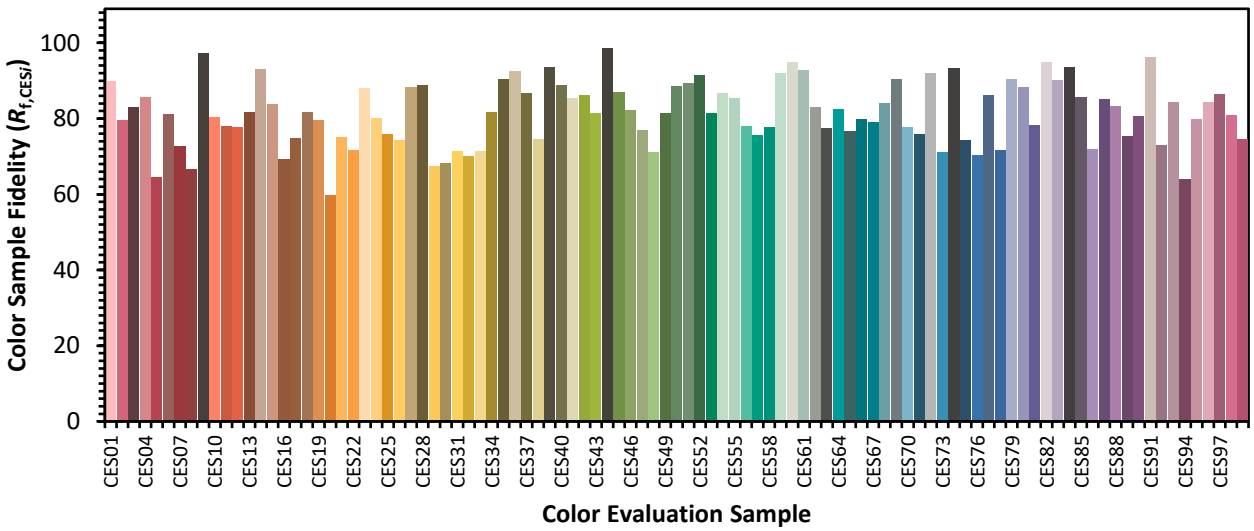
Individual Sample Fidelity Index ($R_{f,i}$)

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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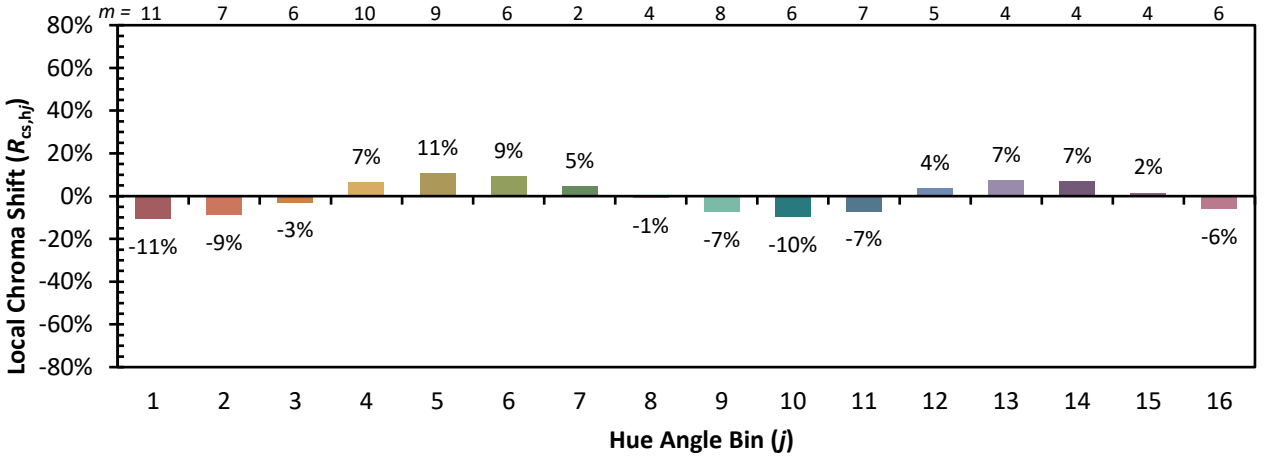
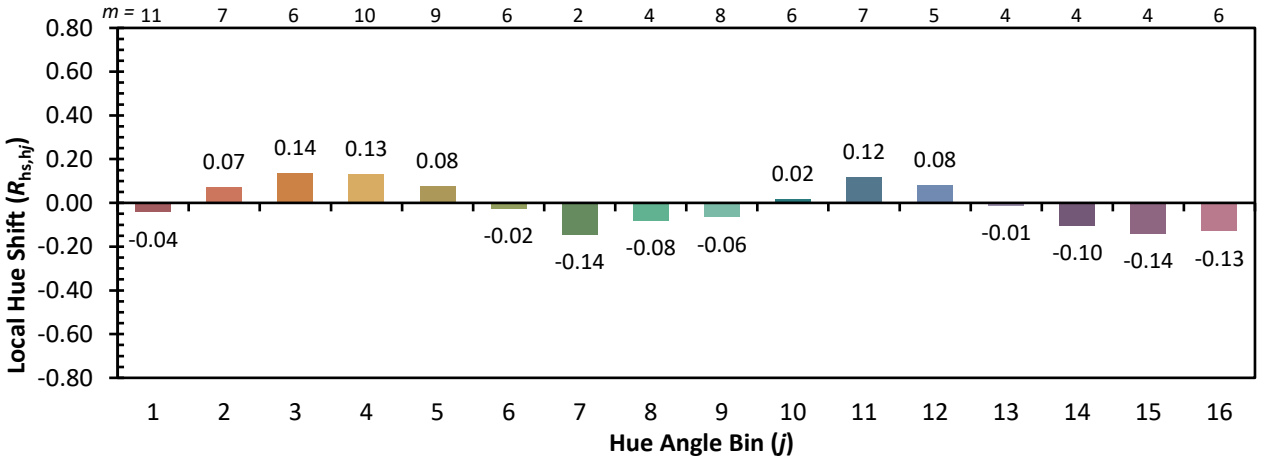
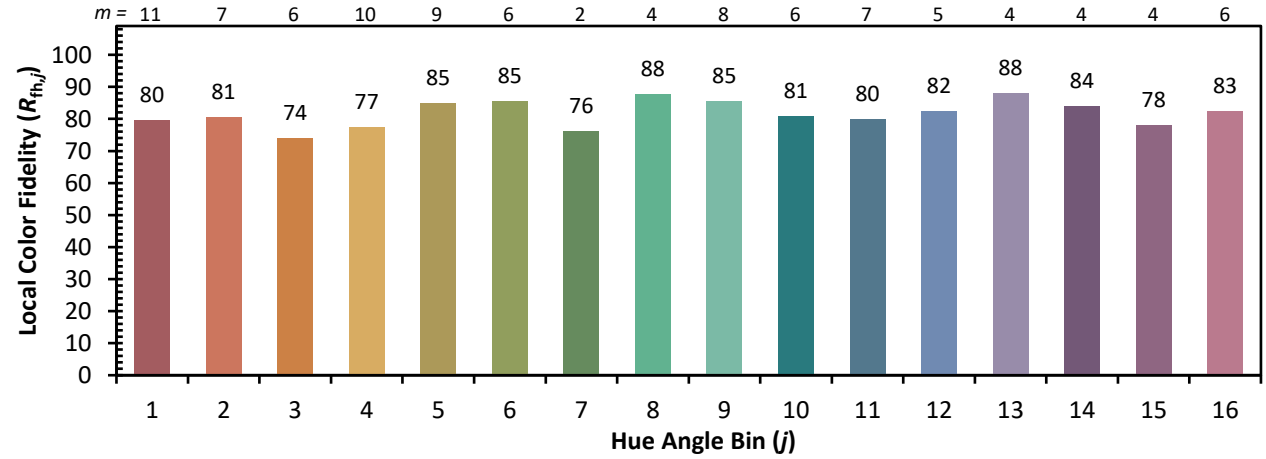
Color Rendition by Hue-Angle Bin







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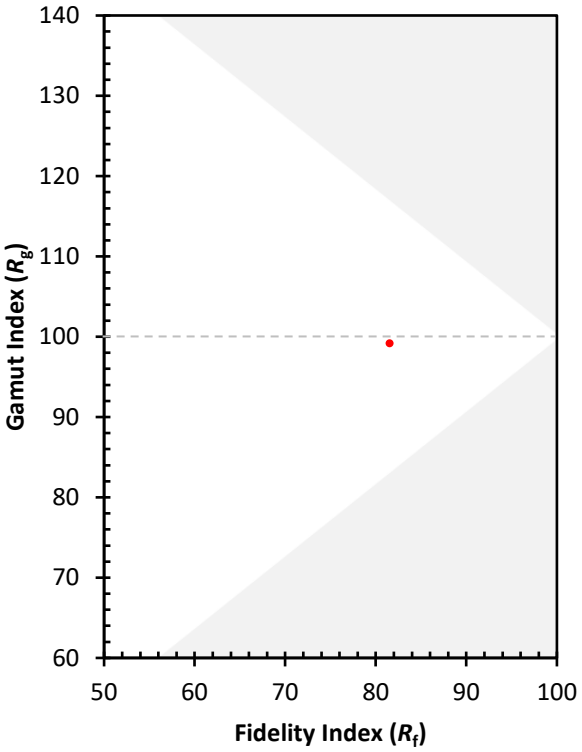
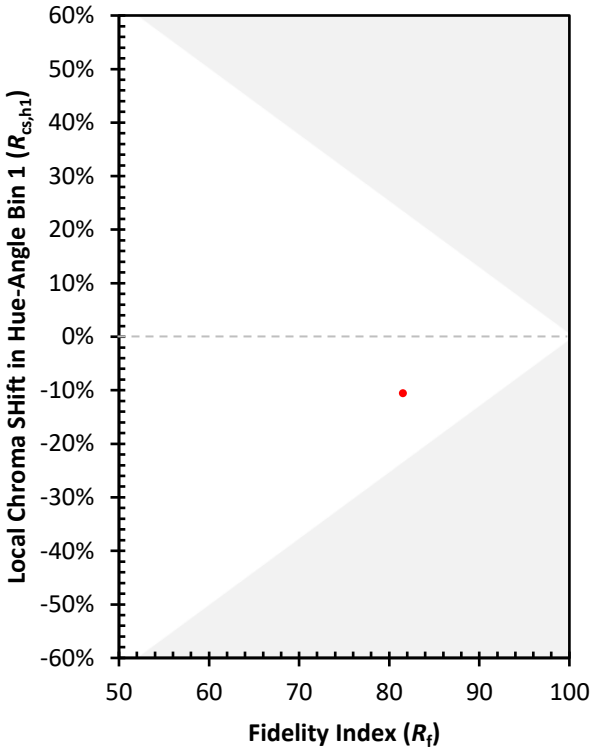
Measure Comparisons





(END OF REPORT)