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: P318581

Luminaire Tested: **GLEON-SA7D-830-U-T3**

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:	P318581
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA7D-830-U-T3
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	43620 lumens
Efficiency:	N/A
Efficacy:	97.4 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B4 - U0 - G5

Input Watts (W):	448
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: P318581
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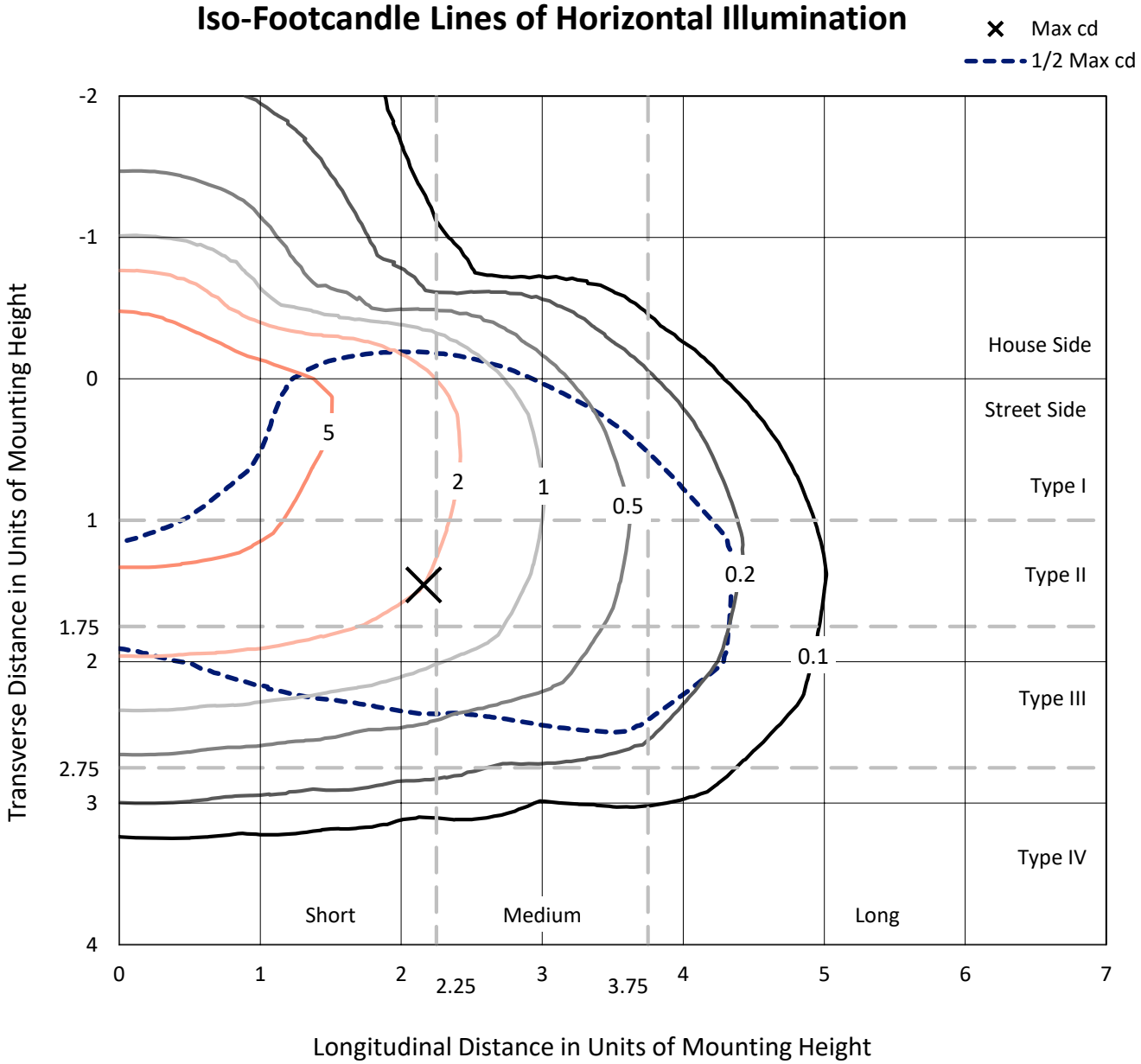
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
Type III - Short - N/A

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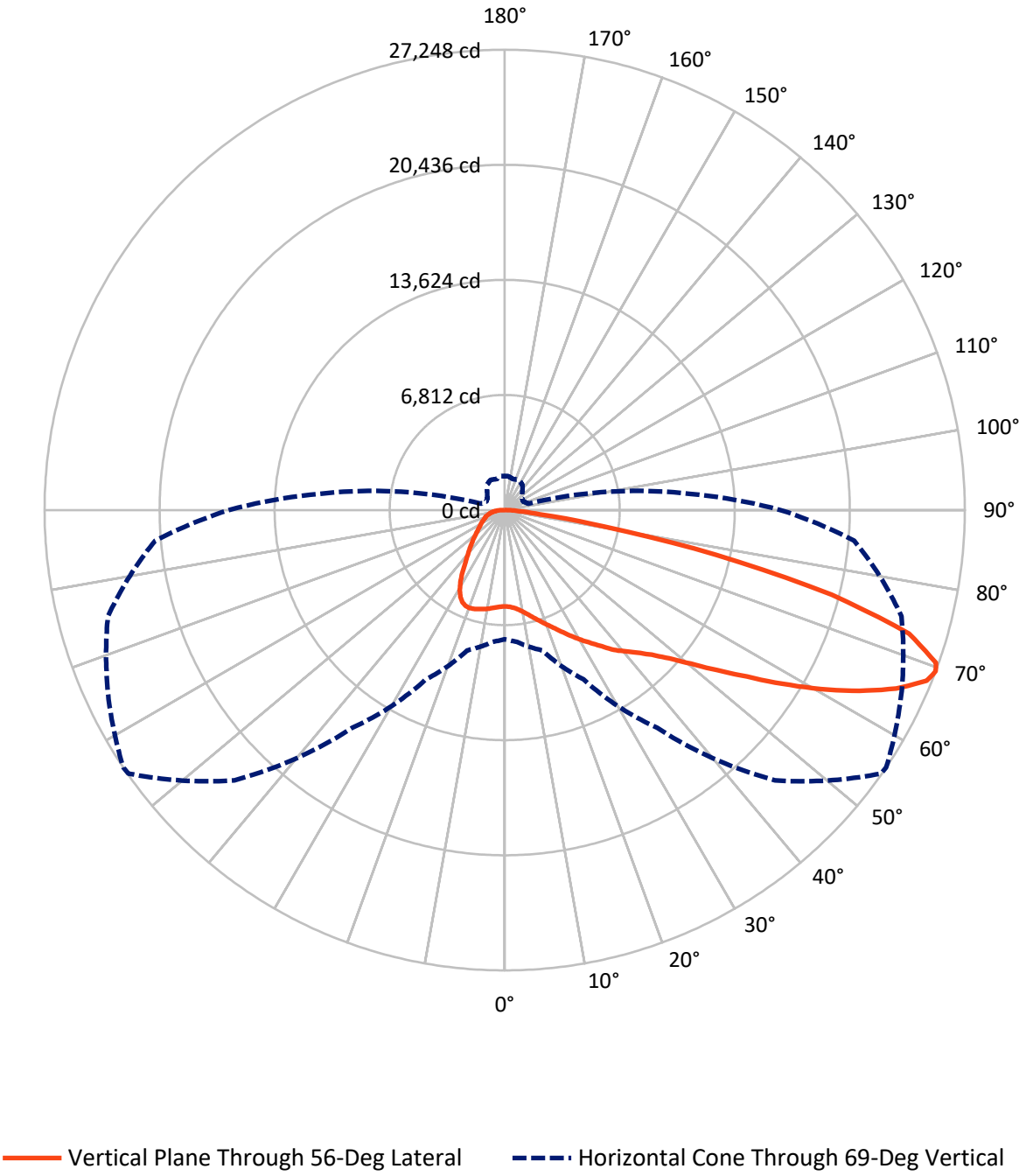
Luminous Intensity Polar Plot



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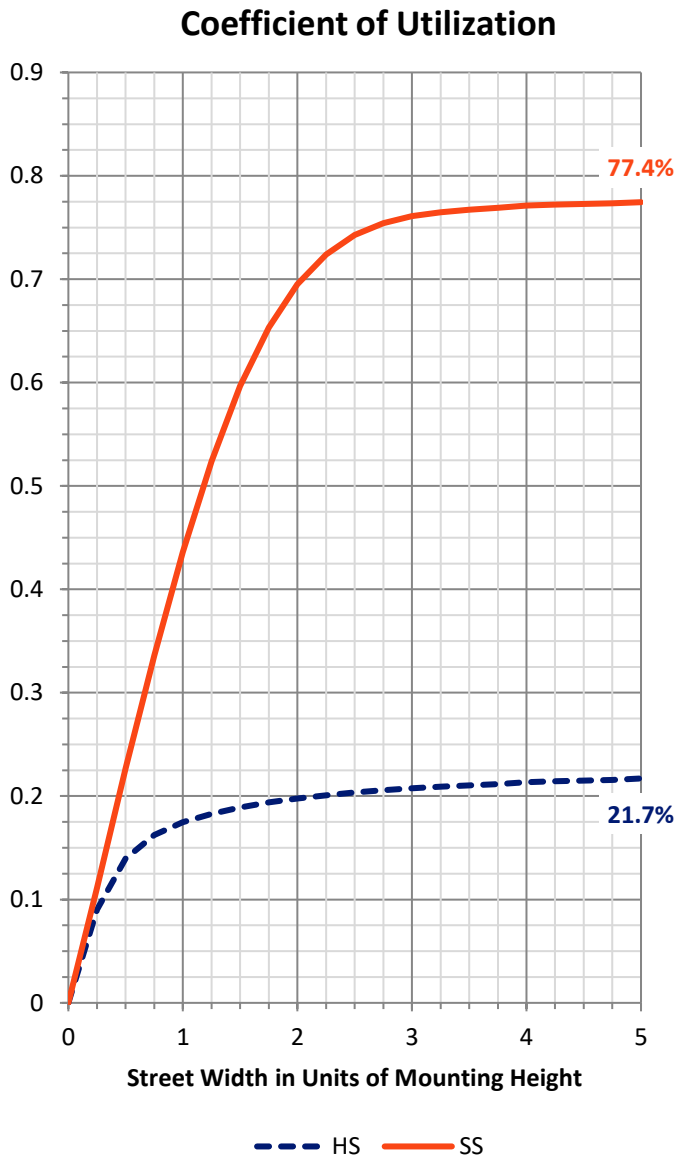
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9714.1	0.0	9714.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	33905.9	0.0	33905.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	43620.0	0.0	43620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.1	1.3
10°-20°	1801.0	4.1
20°-30°	3143.9	7.2
30°-40°	4516.1	10.4
40°-50°	6250.1	14.3
50°-60°	9157.2	21.0
60°-70°	11164.3	25.6
70°-80°	6172.4	14.2
80°-90°	854.9	2.0
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°	43620.0	100.0
0°-180°	43620.0	100.0



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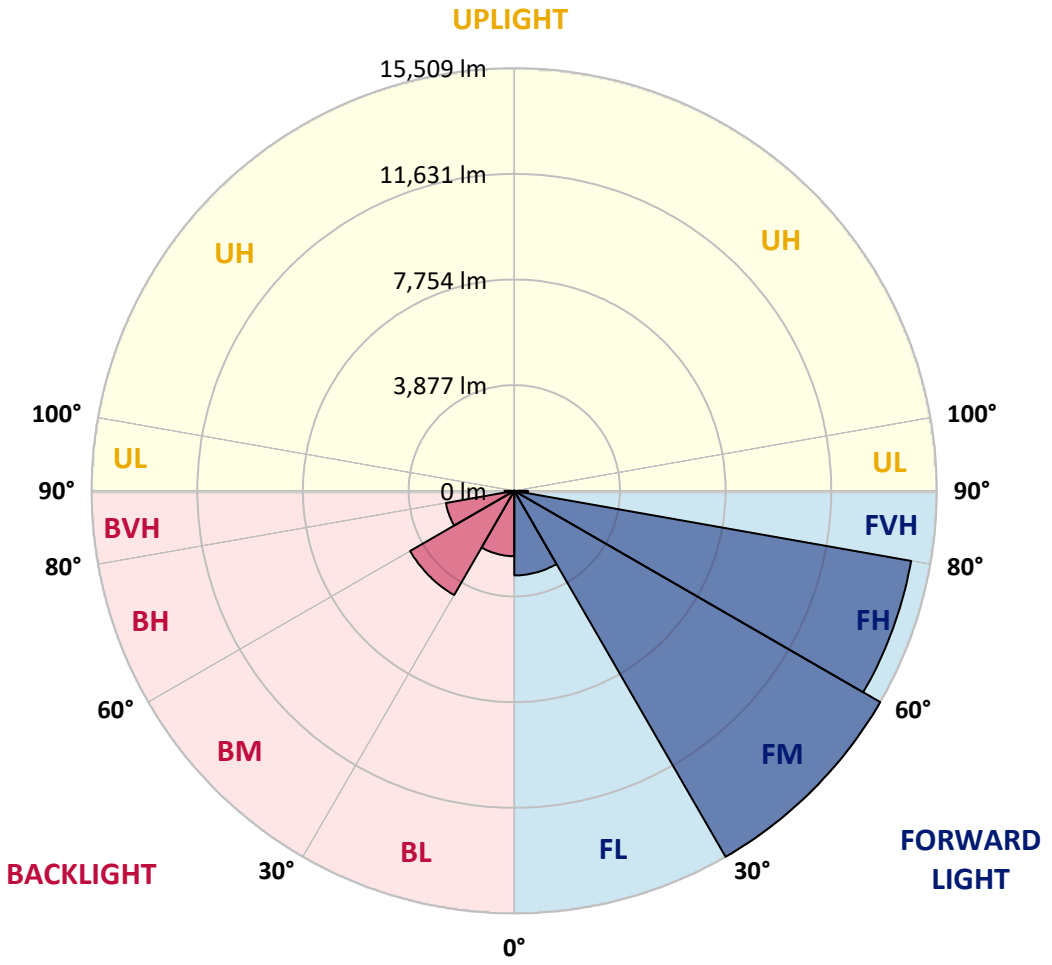
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3104.5	7.1			
FM	(30°-60°)	15508.5	35.6			
FH	(60°-80°)	14789.4	33.9			G5
FVH	(80°-90°)	503.6	1.2			G4/750
BL	(0°-30°)	2400.6	5.5	B3/2500		
BM	(30°-60°)	4414.8	10.1	B3/5000		
BH	(60°-80°)	2547.3	5.8	B4/5000		G4/5000
BVH	(80°-90°)	351.3	0.8			G3/500
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 Short



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REPORT NUMBER: P318581
CATALOG NUMBER: GLEON-SA7D-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7	*5702.7*	5702.7	5702.7	5702.7
2.5°	5738.7	5744.7	5740.2	5752.2	5738.7	5747.7	5740.2	*5740.2*	5735.7	5722.2	5707.2
5°	5828.9	5840.9	5833.4	5845.4	5828.9	5831.9	5818.4	*5818.4*	5804.8	5776.3	5746.2
7.5°	5970.1	5983.7	5977.6	5989.7	5967.1	5967.1	5949.1	*5947.6*	5920.5	5874.0	5839.4
10°	6138.4	6156.5	6150.5	6168.5	6150.5	6156.5	6138.4	*6138.4*	6102.4	6036.3	5992.7
12.5°	6383.4	6405.9	6389.4	6387.9	6380.4	6392.4	6377.4	*6374.4*	6341.3	6251.1	6191.0
15°	6711.0	6735.0	6700.4	6697.4	6655.4	6650.8	6650.8	*6646.3*	6625.3	6517.1	6417.9
17.5°	7088.1	7095.6	7065.6	7017.5	6963.4	6928.8	6924.3	*6936.4*	6936.4	6810.1	6652.4
20°	7457.8	7471.3	7447.3	7393.2	7324.0	7273.0	7236.9	*7260.9*	7259.4	7109.2	6885.3
22.5°	7860.5	7892.1	7856.0	7786.9	7705.7	7648.6	7585.5	*7606.5*	7608.1	7423.2	7113.7
25°	8381.9	8353.4	8330.8	8233.2	8117.5	8058.9	8000.3	*8021.3*	8015.3	7761.3	7349.6
27.5°	8843.3	8849.3	8819.2	8715.5	8581.8	8452.6	8449.6	*8463.1*	8440.5	8113.0	7572.0
30°	9379.7	9382.7	9340.6	9247.5	9101.7	8934.9	8895.8	*8918.4*	8870.3	8446.5	7806.4
32.5°	9913.2	9928.2	9881.6	9768.9	9651.7	9448.8	9370.7	*9385.7*	9265.5	8787.7	8048.3
35°	10380.5	10401.5	10386.5	10311.4	10183.6	10009.3	9916.2	*9907.1*	9758.4	9205.4	8368.4
37.5°	10856.8	10876.4	10859.8	10796.7	10745.6	10560.8	10511.2	*10511.2*	10252.8	9632.2	8775.6
40°	11346.7	11376.8	11357.2	11270.1	11226.5	11142.3	11023.6	*10995.1*	10715.6	10144.6	9439.8
42.5°	11802.0	11841.1	11919.2	11868.1	11779.5	11791.5	11552.6	*11537.6*	11333.2	10901.9	10273.8
45°	12448.2	12505.3	12637.5	12598.4	12580.4	12514.3	12230.3	*12216.8*	12138.6	11920.7	11309.1
47.5°	13152.9	13231.1	13470.0	13477.5	13671.4	13546.6	13160.4	*13113.9*	13131.9	13140.9	12572.9
50°	13802.1	13887.7	14279.9	14464.8	14921.6	14948.6	14331.0	*14289.0*	14359.6	14566.9	14045.5
52.5°	14320.5	14428.7	14918.6	15489.6	16272.5	16494.9	15772.1	*15740.5*	15793.1	16150.8	15710.5
55°	14700.7	14817.9	15351.3	16391.2	17641.4	18033.6	17431.1	*17401.0*	17434.1	17889.4	17521.2
57.5°	14789.3	14817.9	15591.8	16998.3	18797.0	19739.2	19461.2	*19401.1*	19238.8	19635.5	19519.8
60°	14373.1	14487.3	15393.4	17211.7	19691.1	21420.7	21582.9	*21507.8*	21052.5	21377.1	21283.9
62.5°	13528.6	13733.0	14652.6	16887.1	20041.2	22794.1	23664.2	*23574.0*	22789.6	23000.0	22552.2
65°	12149.1	12236.3	13202.5	15767.6	19596.4	23673.2	25520.0	*25474.9*	24487.6	24158.5	22786.6
67.5°	9681.7	9845.5	10666.0	13427.9	17776.7	23569.5	26955.0	*26950.5*	25596.6	24588.3	21955.6
69°	*7648.6*	*7818.4*	*8599.8*	*11061.2*	*15730.0*	*22621.3*	*27195.4*	*27248.0*	*25909.2*	*24326.8*	*20768.5*
70°	6097.9	6294.7	6831.2	9316.6	13913.3	21371.1	26995.6	*27090.3*	25849.0	23895.6	19673.0
72.5°	2595.1	2754.4	3136.1	4802.6	8479.6	15958.4	24683.0	*25040.6*	24456.1	21870.0	16259.0
75°	1133.0	1182.6	1355.4	1958.0	3764.2	8685.5	19336.4	*19997.6*	20911.3	18485.9	12111.6
77.5°	829.5	850.5	945.2	1149.5	1689.0	3280.3	12434.7	*12819.3*	15080.9	13452.0	7429.2
80°	641.6	656.7	730.3	844.5	1103.0	1326.9	5671.1	*6001.7*	8479.6	6909.3	3094.0
82.5°	510.9	521.4	572.5	622.1	761.9	803.9	1882.9	*2088.7*	3130.1	1908.4	819.0
85°	474.8	486.9	504.9	453.8	488.4	471.8	814.5	*852.0*	945.2	749.8	342.6
87.5°	214.9	254.0	500.4	353.1	260.0	207.4	333.6	*348.6*	392.2	393.7	151.8
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: P318581
CATALOG NUMBER: GLEON-SA7D-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7	5702.7
2.5°	5716.2	5711.7	5719.2	5701.2	5723.7	5722.2	5714.7	5717.7	5732.7	5731.2	5732.7
5°	5750.7	5747.7	5756.8	5743.2	5770.3	5779.3	5780.8	5794.3	5810.9	5815.4	5815.4
7.5°	5837.9	5837.9	5842.4	5824.4	5842.4	5840.9	5833.4	5846.9	5863.4	5864.9	5863.4
10°	5988.2	5989.7	5982.2	5935.6	5920.5	5880.0	5842.4	5843.9	5864.9	5881.5	5886.0
12.5°	6177.5	6171.5	6138.4	6052.8	5989.7	5907.0	5868.0	5866.5	5887.5	5901.0	5905.5
15°	6393.9	6377.4	6291.7	6152.0	6040.8	5959.6	5896.5	5881.5	5869.5	5854.4	5855.9
17.5°	6598.3	6560.7	6417.9	6224.1	6106.9	5998.7	5877.0	5779.3	5711.7	5672.6	5660.6
20°	6805.6	6732.0	6526.1	6291.7	6142.9	5946.1	5711.7	5513.3	5390.1	5333.0	5322.5
22.5°	6995.0	6876.2	6626.8	6362.3	6114.4	5768.8	5400.6	5112.1	4940.8	4864.2	4870.2
25°	7179.8	7014.5	6732.0	6411.9	5970.1	5456.2	4967.8	4613.2	4414.9	4329.2	4326.2
27.5°	7342.1	7154.2	6846.2	6371.3	5701.2	5011.4	4455.4	4109.8	3944.5	3870.9	3858.9
30°	7528.4	7330.1	6998.0	6216.6	5307.5	4497.5	3955.0	3711.6	3594.4	3520.8	3507.2
32.5°	7755.3	7569.0	7122.7	5935.6	4804.1	3961.1	3564.3	3394.5	3287.9	3205.2	3190.2
35°	8085.9	7884.5	7154.2	5532.9	4251.1	3537.3	3277.3	3103.0	2958.8	2852.1	2841.6
37.5°	8500.6	8279.7	7082.1	5011.4	3714.6	3262.3	3038.4	2823.5	2635.7	2485.4	2461.4
40°	9098.7	8765.1	6882.3	4410.4	3319.4	3050.4	2805.5	2560.6	2327.6	2151.8	2117.3
42.5°	9817.0	9334.6	6575.7	3812.3	3029.4	2835.6	2574.1	2270.5	2048.1	1923.4	1905.4
45°	10730.6	9926.7	6150.5	3289.4	2743.9	2620.7	2324.6	2045.1	1906.9	1815.2	1800.2
47.5°	11773.5	10590.9	5704.2	2864.1	2502.0	2419.3	2124.8	1944.5	1834.8	1762.6	1749.1
50°	13055.3	11340.7	5230.8	2515.5	2258.5	2177.4	2030.1	1888.9	1801.7	1746.1	1732.6
52.5°	14500.8	12186.7	4889.7	2240.5	2057.2	1998.6	1980.5	1858.8	1788.2	1746.1	1732.6
55°	16057.6	13047.7	4521.6	2009.1	1882.9	1899.4	1947.5	1861.8	1813.7	1762.6	1743.1
57.5°	17615.9	13937.3	4111.3	1813.7	1744.6	1825.8	1924.9	1867.8	1827.3	1777.7	1759.6
60°	18848.1	14500.8	3475.7	1649.9	1634.9	1744.6	1870.8	1822.7	1770.2	1771.7	1768.7
62.5°	19423.6	14470.8	2773.9	1504.2	1525.2	1634.9	1783.7	1752.1	1708.5	1767.1	1771.7
65°	19100.5	13749.5	2159.3	1371.9	1408.0	1520.7	1693.5	1717.6	1732.6	1845.3	1860.3
67.5°	17745.1	12346.0	1672.5	1256.2	1301.3	1442.6	1702.5	1870.8	1890.4	2009.1	2007.6
69°	*16343.1*	*11029.6*	*1453.1*	*1196.1*	*1248.7*	*1462.1*	*1819.7*	*1968.5*	*1894.9*	*2021.1*	*2003.1*
70°	15168.0	9988.3	1335.9	1155.6	1224.7	1496.7	1897.9	1967.0	1872.3	1980.5	1950.5
72.5°	11681.8	7185.8	1133.0	1080.4	1143.5	1432.1	1920.4	1923.4	1819.7	1840.8	1789.7
75°	8012.3	4541.1	988.8	978.2	1020.3	1290.8	1848.3	1837.8	1683.0	1652.9	1610.9
77.5°	4417.9	2306.6	840.0	880.6	909.1	1143.5	1680.0	1665.0	1537.2	1474.1	1459.1
80°	1704.0	1009.8	709.3	782.9	800.9	990.3	1472.6	1459.1	1352.4	1271.3	1248.7
82.5°	643.1	528.9	586.0	677.7	671.7	817.5	1247.2	1239.7	1136.0	1017.3	981.2
85°	297.5	317.1	464.3	559.0	515.4	605.6	997.8	1011.3	885.1	743.8	743.8
87.5°	126.2	177.3	329.1	422.3	347.1	408.7	731.8	698.7	641.6	444.8	417.7
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

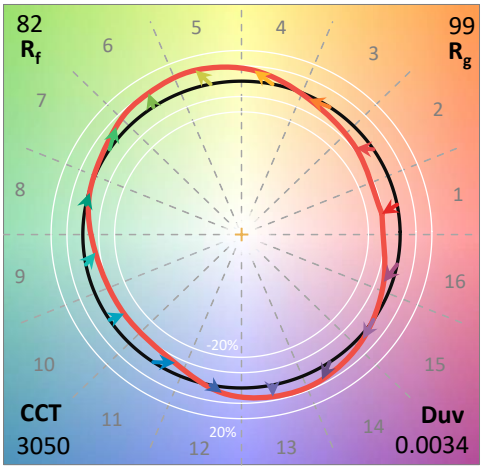
Test Information

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

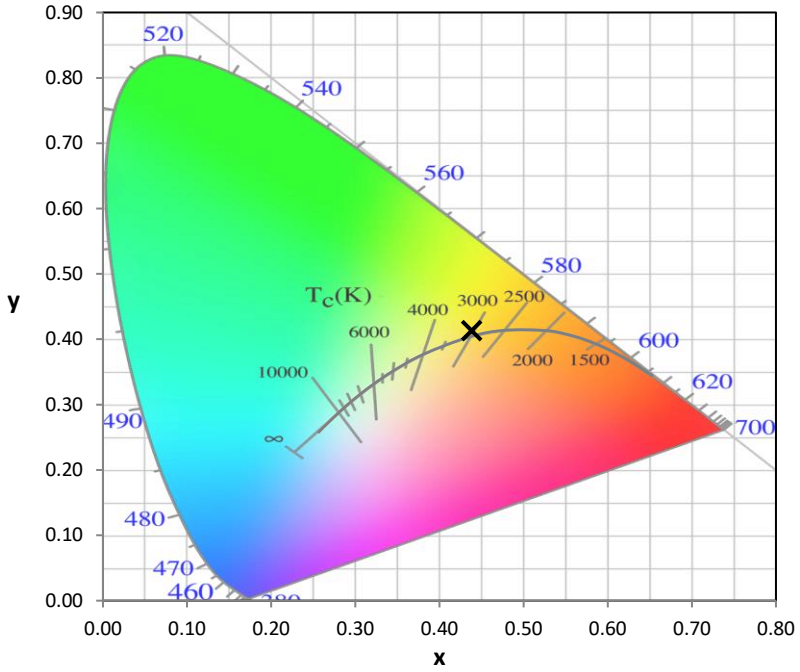
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

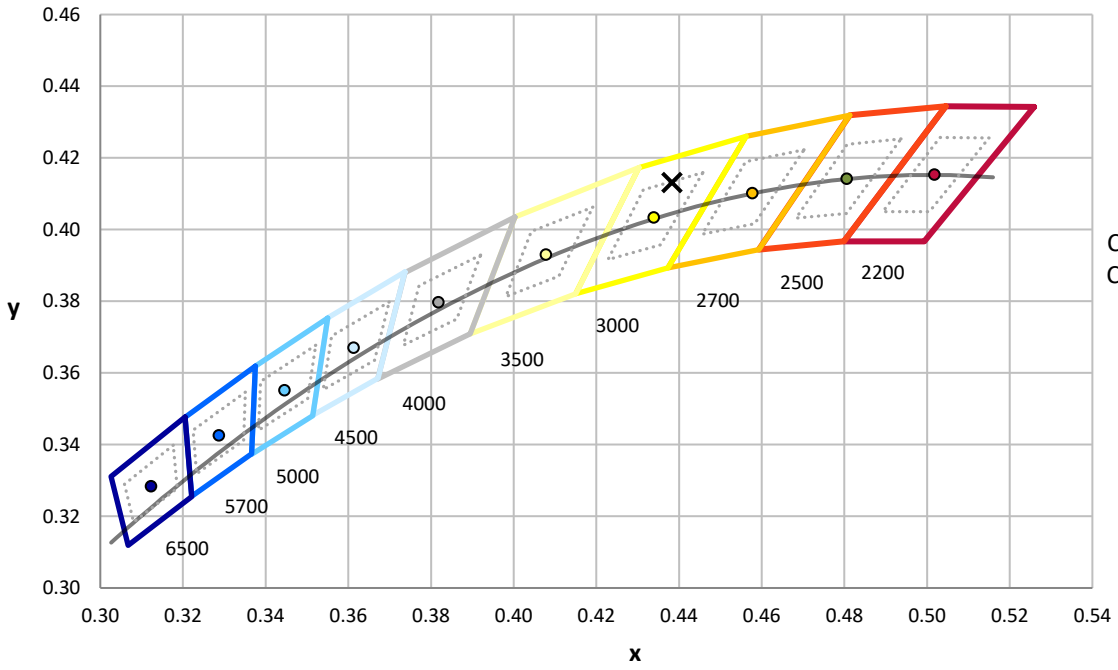
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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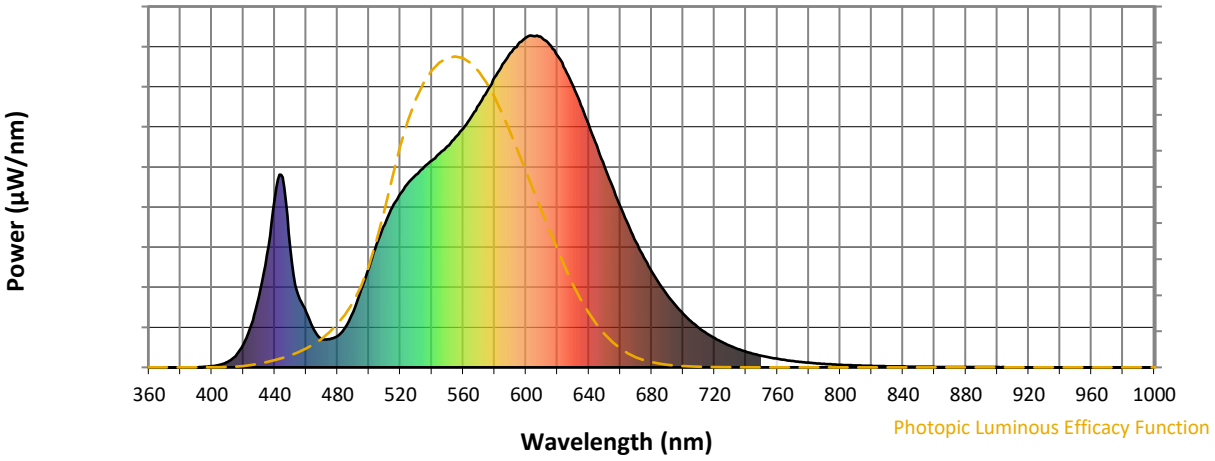
Photopic Flux vs. Wavelength



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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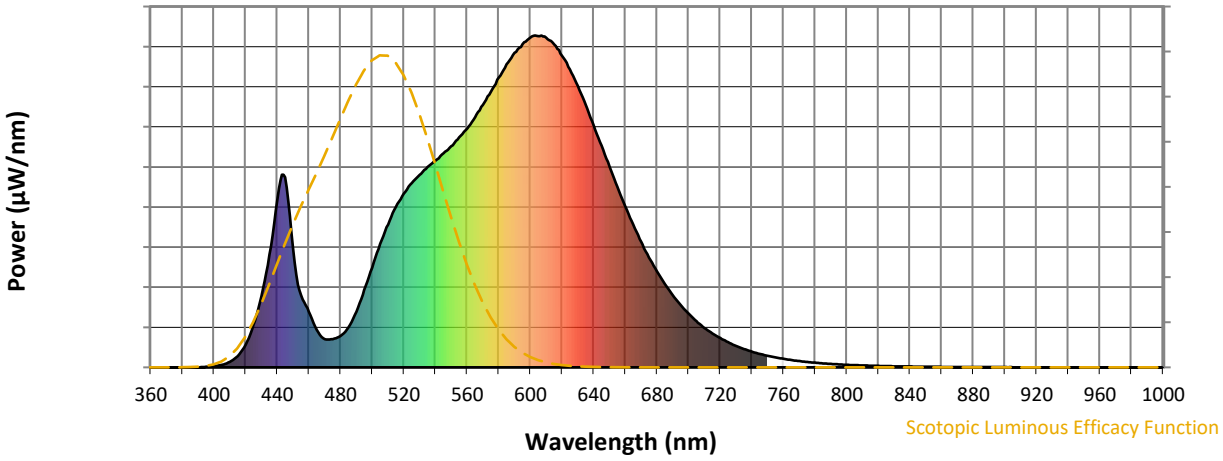
Scotopic Flux vs. Wavelength



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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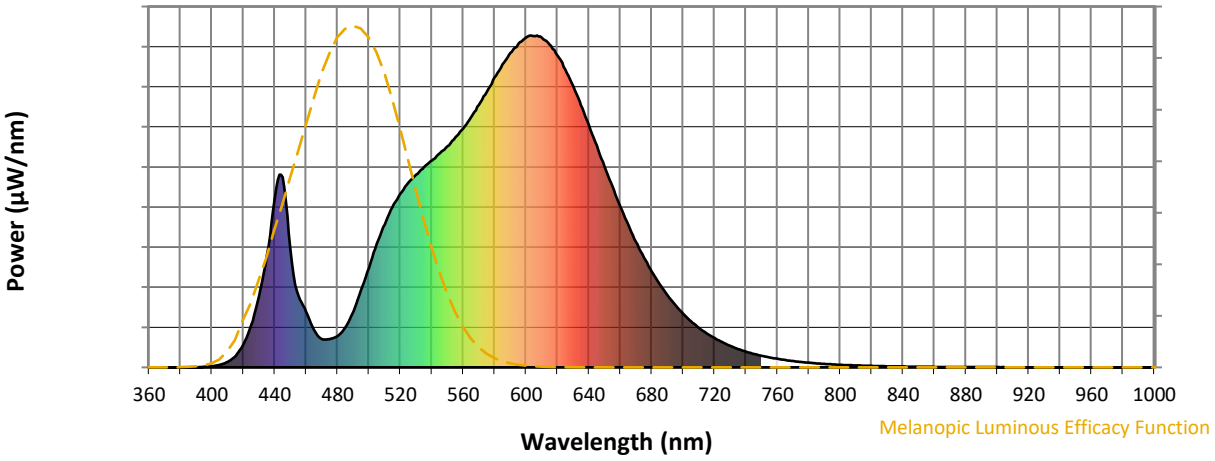
Melanopic Flux vs. Wavelength



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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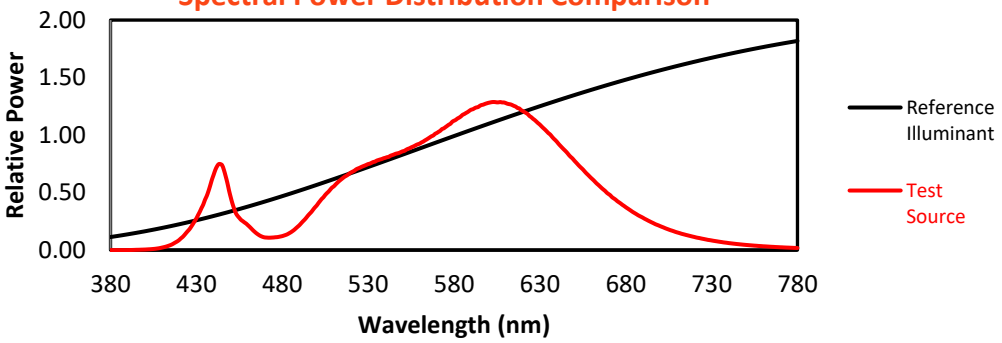
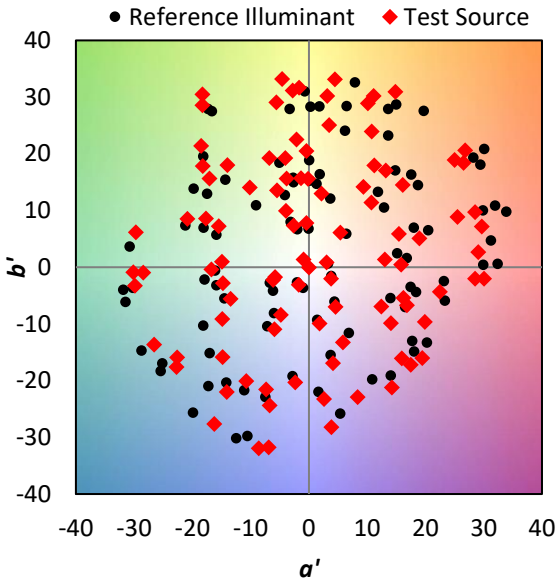
Summary

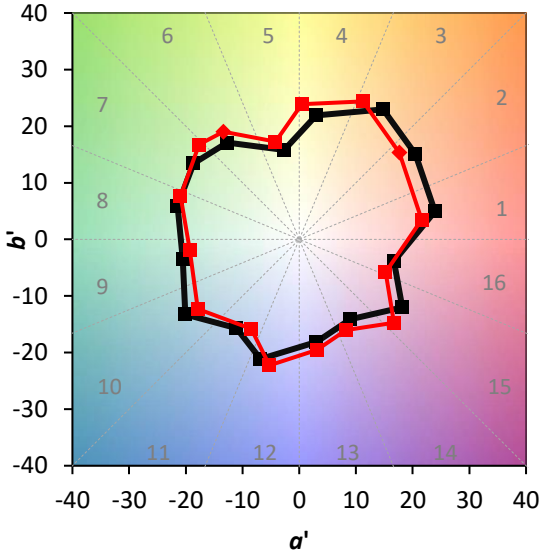
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

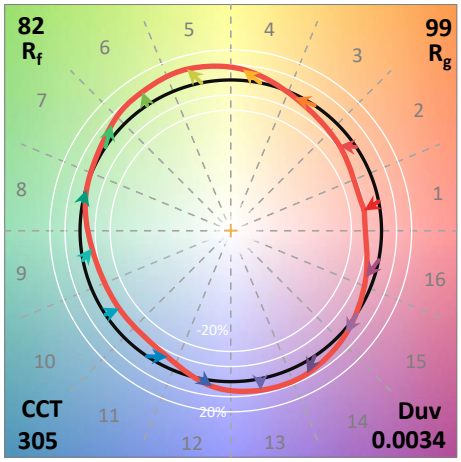
Spectral Power Distribution Comparison

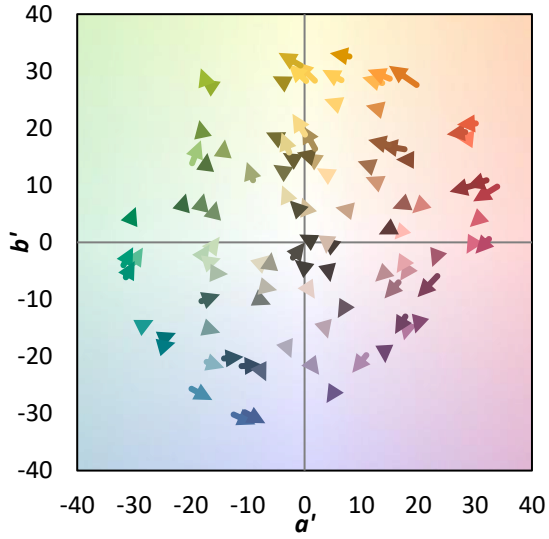


Color Vector Graphics









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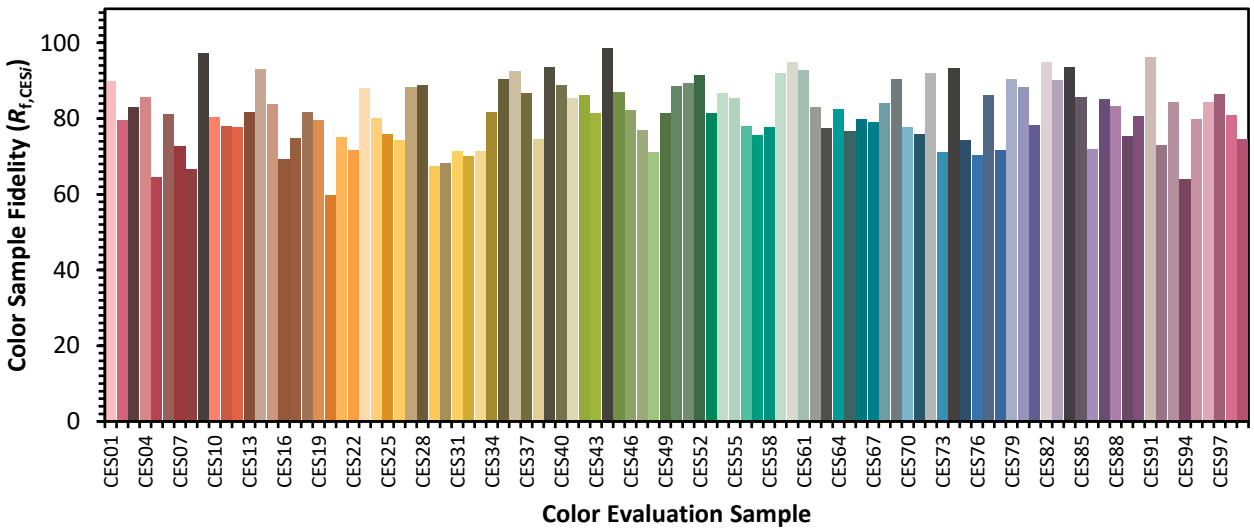
Individual Sample Fidelity Index ($R_{f,i}$)

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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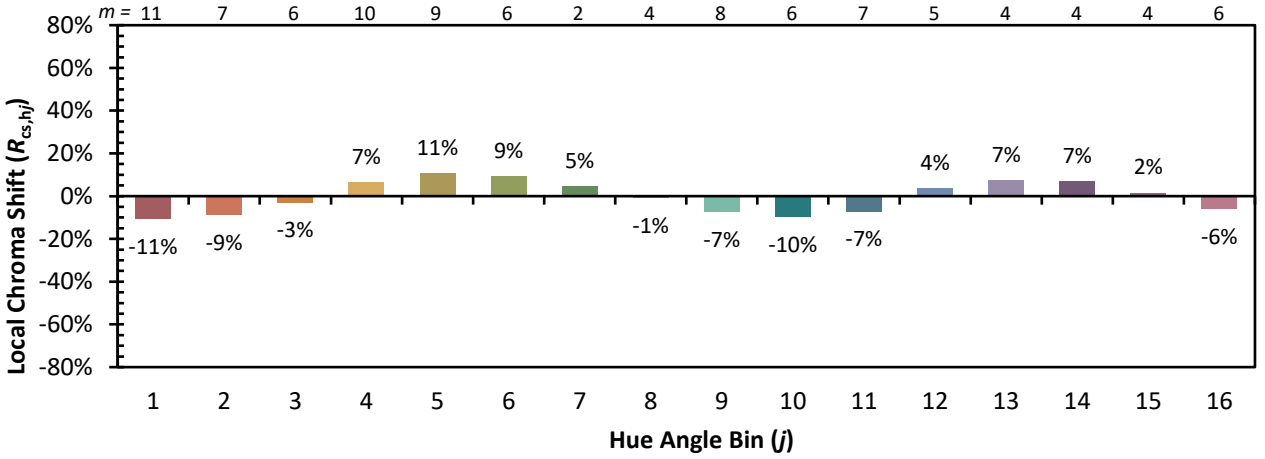
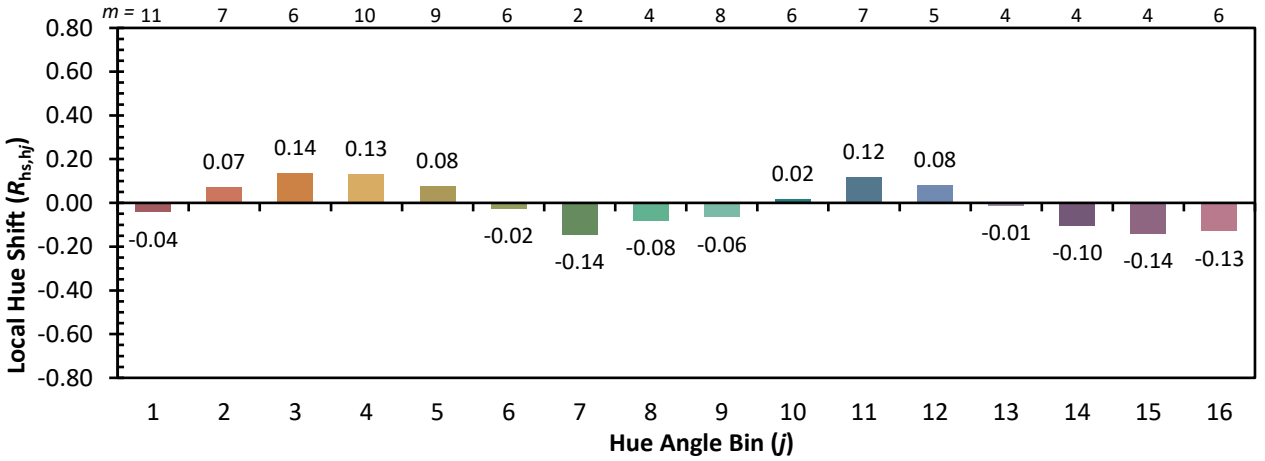
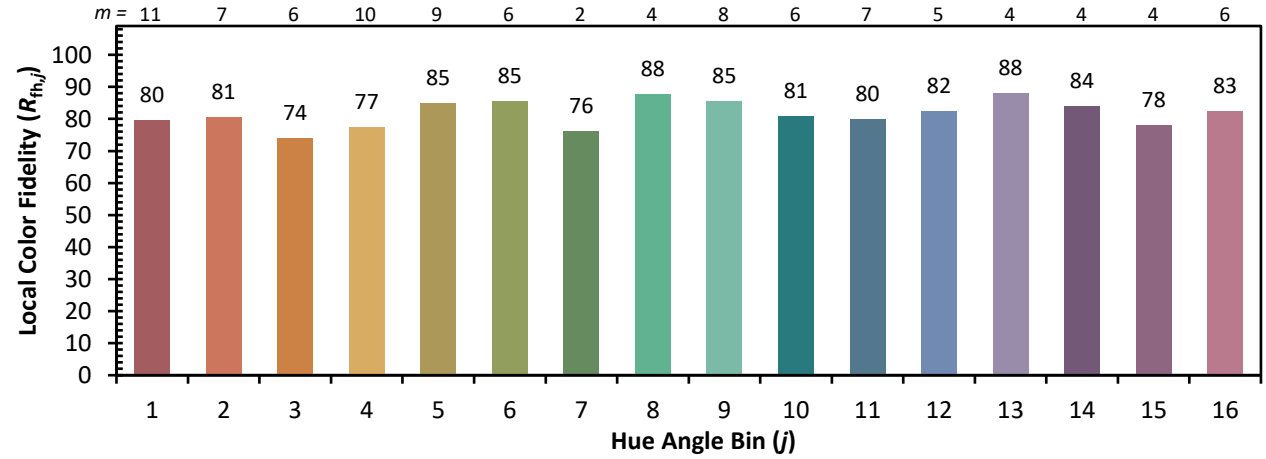
Color Rendition by Hue-Angle Bin







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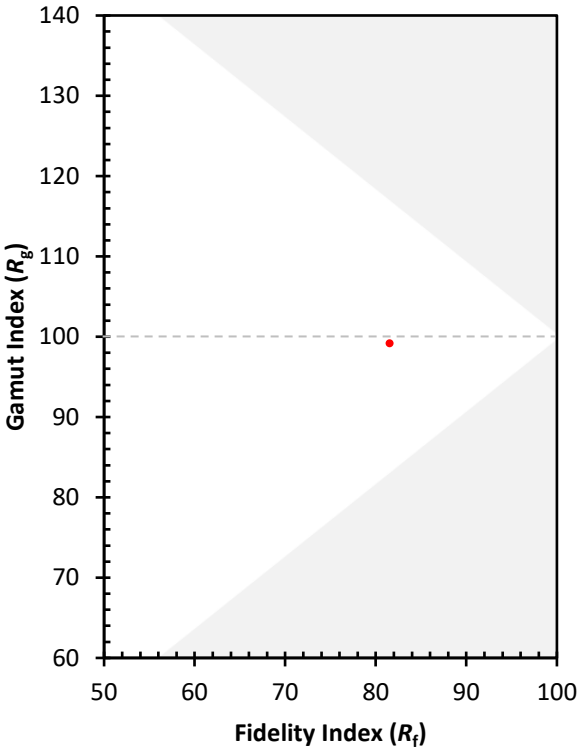
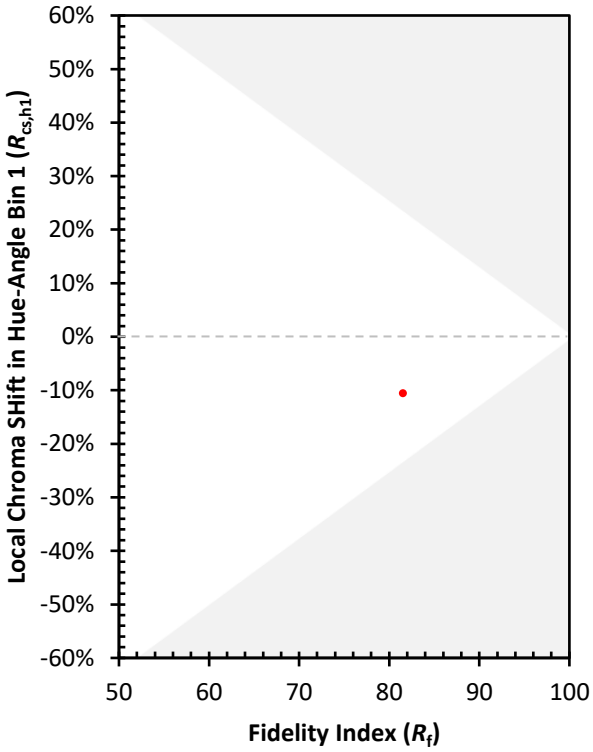
Measure Comparisons





(END OF REPORT)