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: P317599

Luminaire Tested: **GLEON-SA5B-830-U-T2R**

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:	P317599
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA5B-830-U-T2R
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	23645 lumens
Efficiency:	N/A
Efficacy:	112.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	210
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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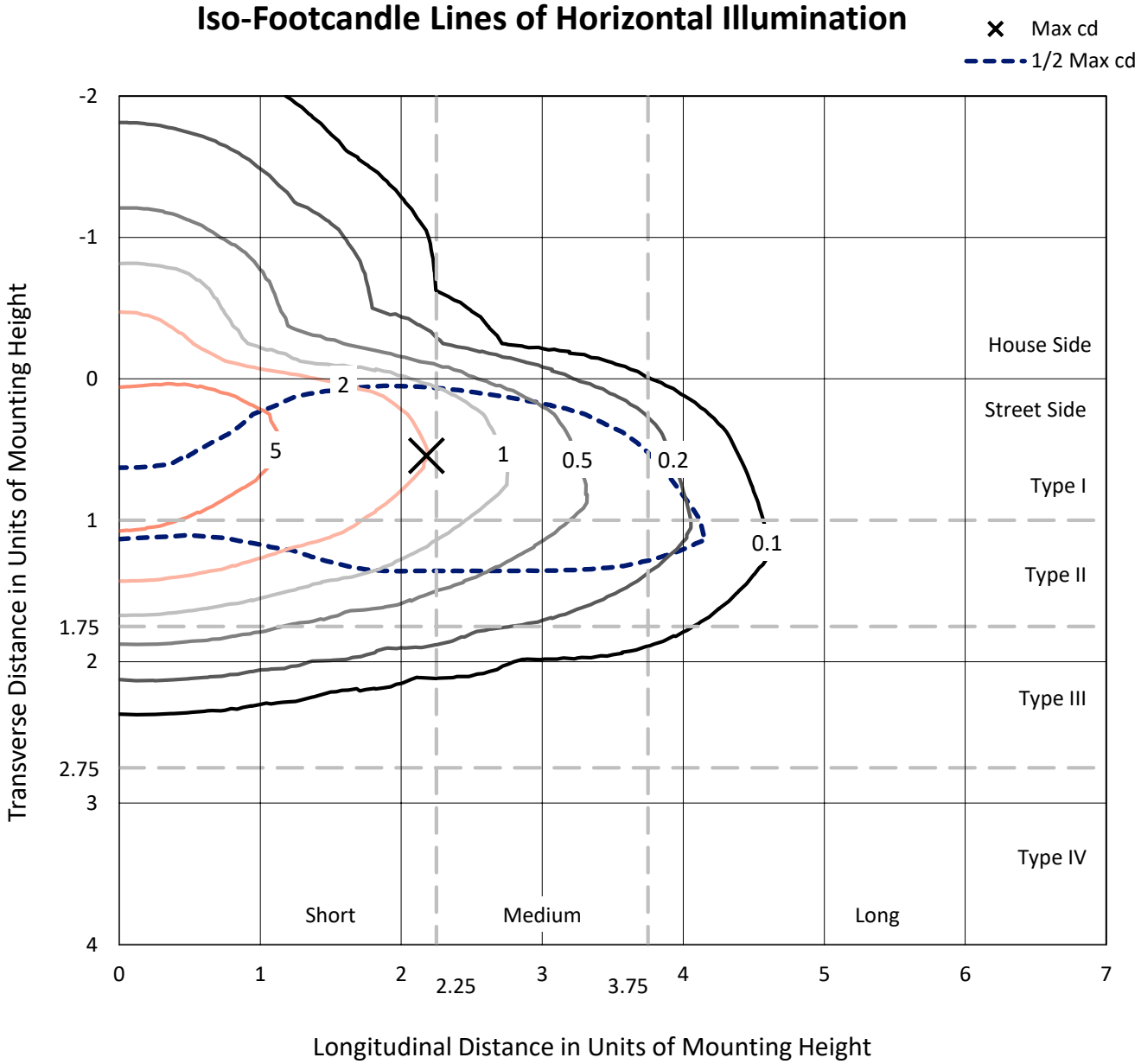
REPORT NUMBER: P317599
CATALOG NUMBER: GLEON-SA5B-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
Type II - Short - N/A

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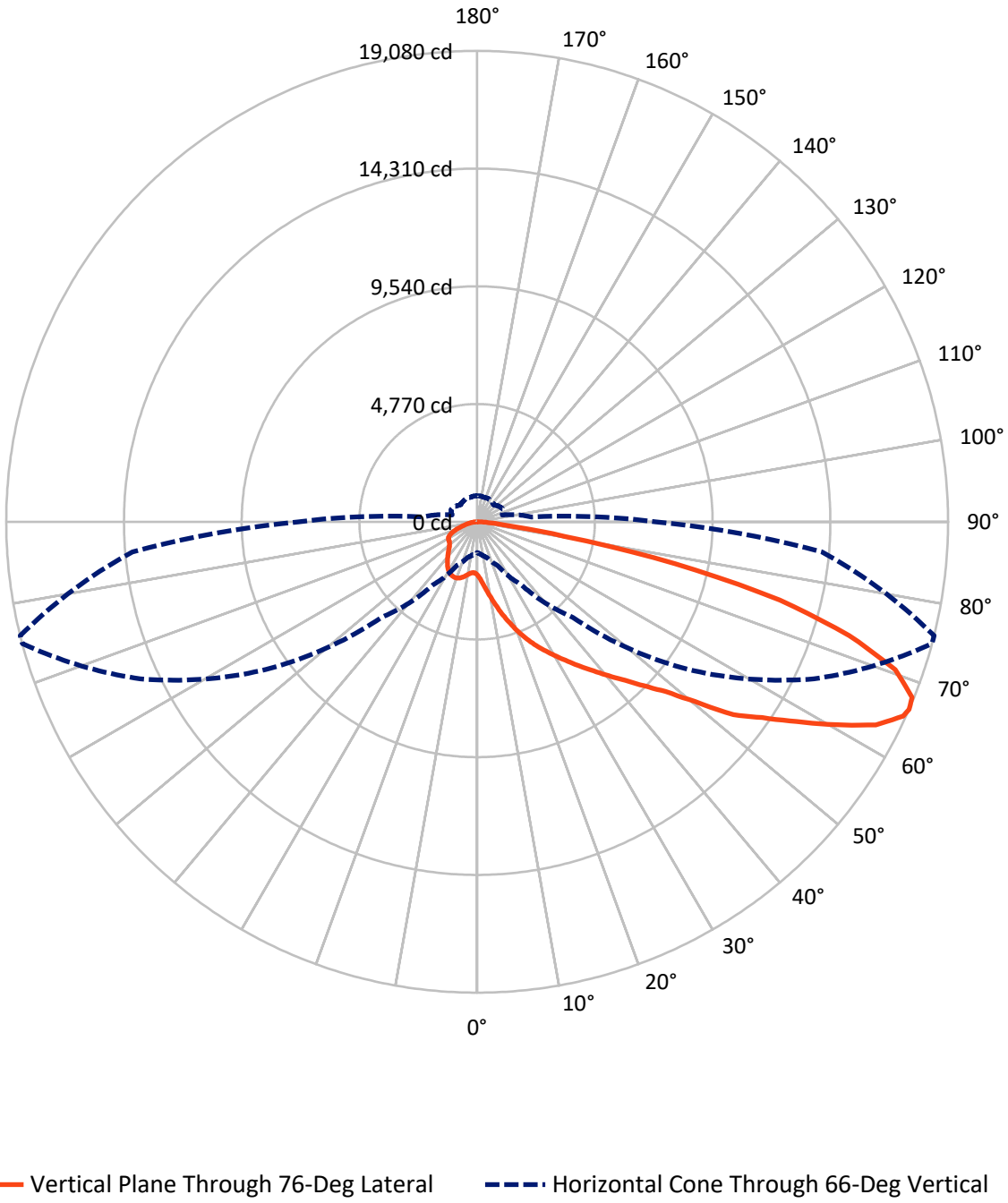
Luminous Intensity Polar Plot



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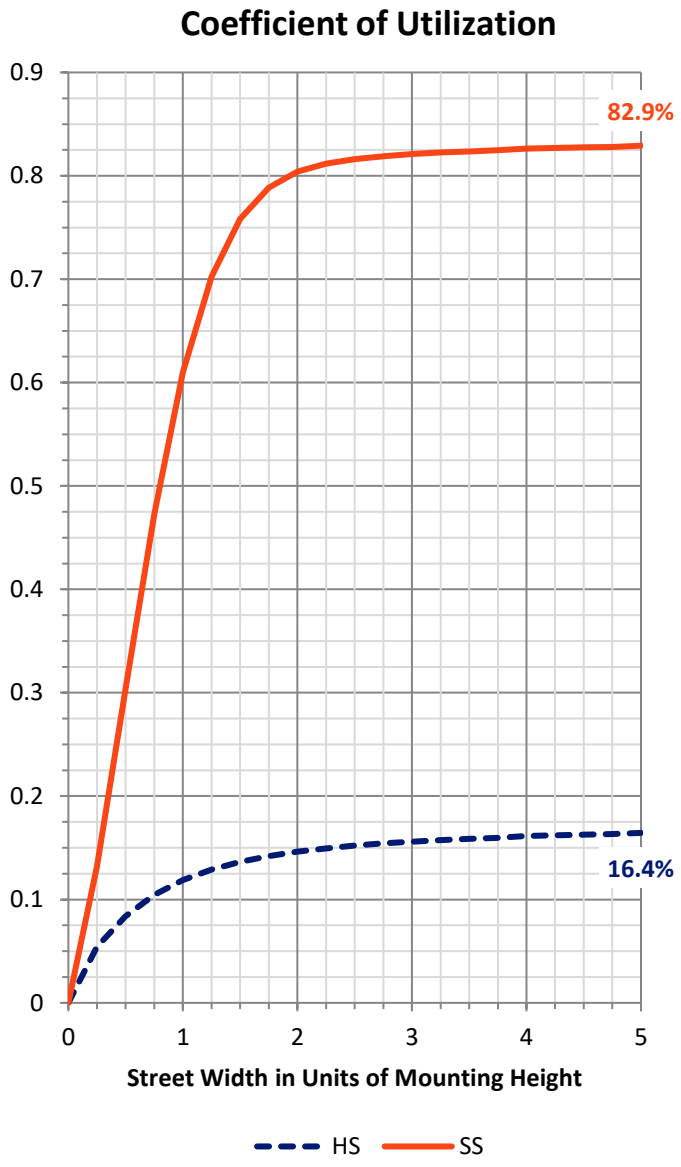
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3978.6	0.0	3978.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	19666.4	0.0	19666.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	23645.0	0.0	23645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.1	1.1
10°-20°	1031.1	4.4
20°-30°	2003.8	8.5
30°-40°	3270.6	13.8
40°-50°	4468.4	18.9
50°-60°	5204.8	22.0
60°-70°	4666.2	19.7
70°-80°	2358.1	10.0
80°-90°	380.8	1.6
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°	23645.0	100.0
0°-180°	23645.0	100.0



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REPORT NUMBER: P317599
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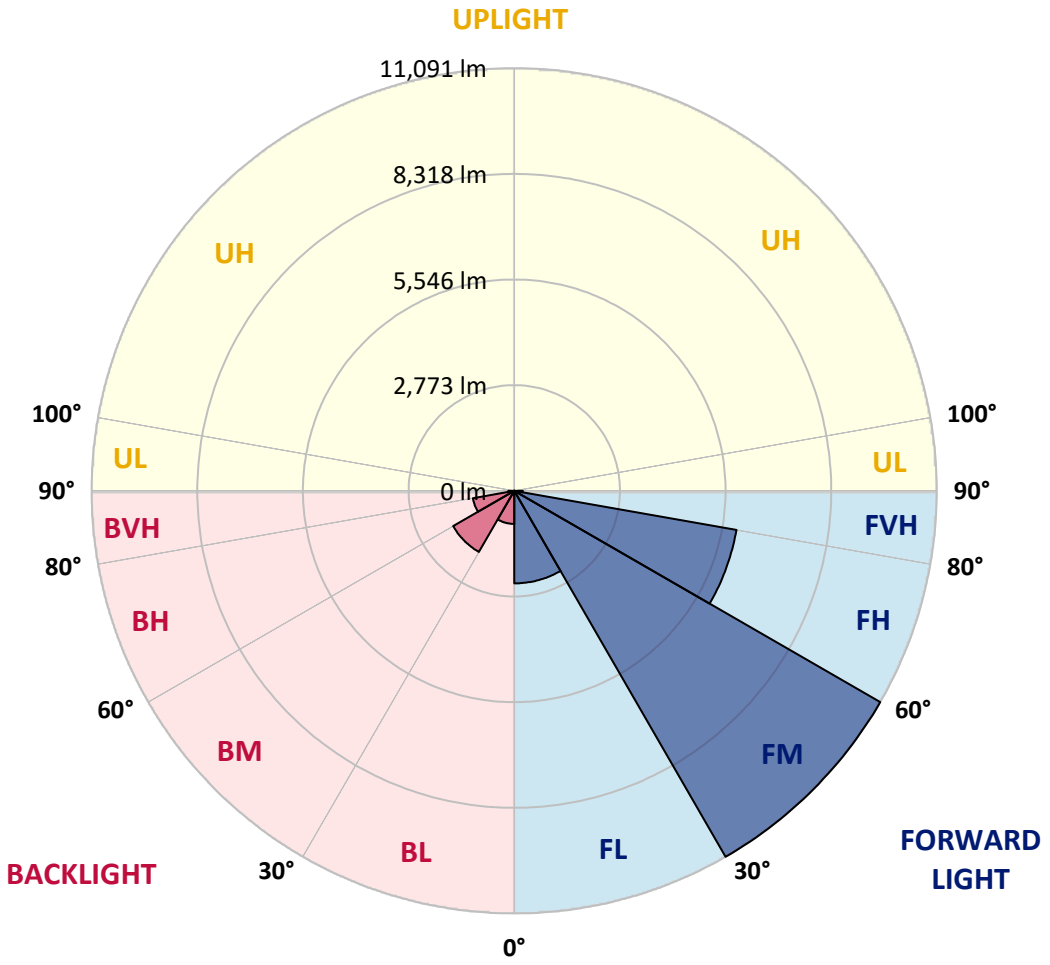
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2428.3	10.3			
FM	(30°-60°)	11091.1	46.9			
FH	(60°-80°)	5922.0	25.0			G3/7500
FVH	(80°-90°)	224.9	1.0			G2/225
BL	(0°-30°)	867.8	3.7	B2/1000		
BM	(30°-60°)	1852.7	7.8	B2/2500		
BH	(60°-80°)	1102.3	4.7	B3/2500		G3/2500
BVH	(80°-90°)	155.9	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2159.3	2159.3	2159.3	2159.3	2159.3	2159.3	2159.3	2159.3	2159.3	*2159.3*	2159.3
2.5°	2866.5	2823.2	2819.2	2755.7	2741.3	2620.1	2531.0	2437.9	2331.9	*2311.0*	2227.6
5°	3682.1	3678.1	3622.7	3519.1	3438.1	3231.0	3026.3	2809.5	2571.9	*2533.4*	2345.6
7.5°	4415.8	4409.4	4366.8	4255.2	4138.0	3883.6	3591.4	3259.1	2873.7	*2816.8*	2505.3
10°	4972.9	4970.5	4956.0	4874.1	4774.6	4530.6	4207.9	3754.3	3224.5	*3146.7*	2705.2
12.5°	5403.1	5407.9	5417.6	5388.7	5341.3	5133.4	4802.7	4279.3	3598.6	*3521.5*	2927.5
15°	5694.5	5709.0	5758.7	5799.7	5824.5	5696.9	5376.6	4816.3	4017.6	*3925.3*	3174.0
17.5°	5841.4	5857.5	5943.4	6067.0	6181.0	6168.1	5913.7	5328.5	4419.8	*4330.7*	3438.9
20°	5968.2	5980.3	6076.6	6225.1	6426.6	6515.7	6372.8	5821.3	4860.5	*4754.5*	3719.8
22.5°	6335.9	6351.1	6380.0	6464.3	6642.5	6806.3	6737.2	6287.7	5264.2	*5165.5*	3986.3
25°	7045.5	7064.0	7001.3	6929.9	6963.6	7077.6	7090.4	6713.2	5673.6	*5562.1*	4272.9
27.5°	7900.4	7926.9	7820.1	7636.3	7475.7	7431.6	7416.3	7061.5	6064.6	*5935.3*	4556.2
30°	8737.6	8783.4	8644.5	8406.1	8111.5	7904.4	7751.1	7402.7	6449.9	*6326.3*	4823.6
32.5°	9555.6	9537.1	9335.7	9102.9	8757.7	8498.4	8127.6	7768.7	6883.3	*6741.3*	5089.3
35°	10115.9	10122.3	9935.3	9659.2	9330.0	9131.0	8631.7	8163.7	7325.6	*7194.8*	5391.1
37.5°	10592.7	10563.0	10351.1	10093.4	9810.1	9725.0	9221.7	8598.8	7804.9	*7662.0*	5712.2
40°	10751.7	10717.1	10578.3	10392.8	10165.7	10158.4	9872.7	9091.6	8346.7	*8205.4*	6074.2
42.5°	10655.3	10611.2	10554.2	10503.6	10433.8	10465.9	10484.4	9669.6	8942.3	*8784.2*	6493.2
45°	10299.7	10233.1	10273.2	10383.2	10534.9	10716.3	11036.6	10309.4	9609.4	*9476.9*	6985.3
47.5°	9753.1	9692.9	9818.1	10053.3	10465.9	10925.0	11559.2	11015.8	10405.7	*10274.0*	7686.1
50°	8984.1	9001.7	9180.7	9608.6	10232.3	11021.4	12203.0	11950.9	11563.2	*11440.4*	8642.1
52.5°	7722.2	7725.4	8229.5	8931.9	9818.1	10971.6	12560.2	13146.2	13143.8	*12995.3*	9552.4
55°	6550.2	6621.7	7020.6	7954.2	9147.0	10772.5	12809.8	13727.3	14181.7	*14007.5*	10400.9
57.5°	5405.5	5447.3	5825.4	6762.9	8189.4	10241.9	13065.9	14424.9	15377.7	*15267.8*	11455.6
60°	4103.5	4167.7	4558.7	5424.8	6964.4	9300.3	13090.0	15153.0	16807.4	*16696.6*	12633.2
62.5°	2663.4	2774.2	3140.2	3951.8	5482.6	7946.1	12531.3	15629.0	18162.4	*18123.1*	13678.4
65°	1530.8	1614.3	1868.7	2494.9	3782.4	6246.0	11202.8	15446.0	18996.4	*18973.9*	14069.3
66°	*1250.6*	*1302.8*	*1497.9*	*1949.8*	*3121.0*	*5485.0*	*10430.6*	*15059.9*	*19079.1*	*19079.9*	*14024.4*
67.5°	1000.2	1023.5	1111.0	1395.9	2303.0	4347.5	9050.7	14208.2	18976.3	*19004.4*	13734.6
70°	827.6	839.6	866.9	936.0	1257.1	2621.7	6424.2	11995.1	17944.8	*17966.5*	12603.5
72.5°	742.5	749.7	760.2	769.8	887.0	1465.0	3923.7	9595.7	15733.3	*15761.4*	10880.1
75°	672.7	676.7	675.1	675.9	744.1	933.6	2027.7	7164.3	12721.5	*12665.3*	8334.7
77.5°	590.8	594.8	586.8	588.4	658.2	717.6	1009.0	5015.4	8585.1	*8188.6*	4695.9
80°	499.3	502.5	499.3	504.9	573.1	541.8	586.8	2821.6	3796.1	*3590.6*	1669.7
82.5°	377.3	390.9	400.6	423.0	472.0	385.3	392.5	1098.9	1155.9	*1100.5*	512.1
85°	165.4	201.5	301.8	323.5	354.8	231.2	257.7	447.9	470.4	*455.9*	186.2
87.5°	43.3	47.4	149.3	187.8	196.7	104.4	134.1	203.9	215.1	*203.9*	61.8
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: P317599
CATALOG NUMBER: GLEON-SA5B-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2159.3	2159.3	2159.3	2159.3	2159.3	2159.3	2159.3	2159.3	2159.3	2159.3	2159.3
2.5°	2183.4	2144.1	2073.4	2010.8	1963.5	1931.3	1899.2	1883.2	1873.6	1863.9	1865.5
5°	2253.2	2173.8	2052.6	1966.7	1918.5	1888.0	1871.9	1865.5	1861.5	1851.9	1851.9
7.5°	2358.4	2246.0	2079.0	1990.8	1953.0	1929.7	1920.1	1916.9	1912.1	1900.8	1902.5
10°	2490.8	2333.5	2134.4	2048.5	2014.0	1988.3	1974.7	1969.9	1961.0	1948.2	1949.8
12.5°	2646.6	2441.9	2207.5	2117.6	2075.8	2041.3	2018.8	2005.2	1989.9	1973.1	1973.9
15°	2816.8	2559.9	2286.2	2179.4	2122.4	2074.2	2038.1	2014.8	1990.8	1969.9	1969.1
17.5°	2989.3	2673.9	2346.4	2213.1	2136.0	2072.6	2023.7	1987.5	1957.8	1932.2	1929.7
20°	3175.6	2776.6	2380.1	2209.9	2110.4	2034.9	1969.9	1924.9	1892.0	1866.3	1862.3
22.5°	3365.0	2872.9	2385.7	2177.0	2053.4	1961.0	1892.8	1843.0	1809.3	1782.8	1773.2
25°	3538.4	2947.6	2362.4	2113.6	1973.9	1874.4	1807.7	1757.2	1729.9	1698.6	1688.9
27.5°	3696.5	2999.8	2315.9	2032.5	1884.8	1786.9	1724.2	1680.9	1651.2	1627.1	1619.1
30°	3838.6	3027.9	2239.6	1936.2	1793.3	1704.2	1651.2	1621.5	1595.8	1565.3	1559.7
32.5°	3973.5	3027.9	2141.7	1831.0	1702.6	1631.1	1599.8	1581.4	1552.5	1522.8	1514.7
35°	4108.3	3009.4	2026.1	1721.0	1619.1	1579.0	1577.3	1555.7	1511.5	1471.4	1461.0
37.5°	4250.4	2971.7	1896.0	1618.3	1550.9	1555.7	1569.3	1521.2	1458.5	1401.6	1386.3
40°	4411.0	2919.5	1761.2	1529.2	1493.9	1545.2	1547.6	1471.4	1349.4	1297.2	1283.6
42.5°	4599.6	2867.3	1635.9	1450.5	1448.9	1513.9	1506.7	1363.8	1290.8	1264.3	1257.1
45°	4847.6	2837.6	1517.1	1375.9	1413.6	1463.4	1436.9	1304.4	1273.9	1258.7	1252.2
47.5°	5238.6	2852.9	1408.0	1316.5	1378.3	1412.8	1306.8	1280.3	1258.7	1240.2	1233.8
50°	5728.2	2844.0	1319.7	1275.5	1338.1	1359.8	1248.2	1249.0	1237.8	1216.9	1207.3
52.5°	6096.7	2775.0	1262.7	1252.2	1302.8	1265.9	1211.3	1218.5	1212.9	1182.4	1172.0
55°	6452.3	2715.6	1233.8	1243.4	1277.1	1148.7	1168.0	1185.6	1180.0	1150.3	1145.5
57.5°	6894.6	2704.4	1216.1	1245.8	1255.5	1090.1	1126.2	1149.5	1145.5	1132.6	1130.2
60°	7436.4	2707.6	1200.1	1249.8	1231.4	1046.7	1086.9	1116.6	1119.0	1116.6	1115.0
62.5°	7734.2	2620.1	1159.9	1238.6	1188.8	1009.0	1045.9	1089.3	1090.1	1094.9	1094.1
65°	7481.4	2358.4	1085.3	1199.3	1117.4	977.7	1010.6	1058.0	1045.9	1067.6	1067.6
66°	*7235.7*	*2207.5*	*1048.4*	*1173.6*	*1086.9*	*965.7*	*999.4*	*1041.9*	*1026.7*	*1056.4*	*1056.4*
67.5°	6734.0	1953.0	981.7	1119.0	1043.5	948.8	986.5	1015.4	994.6	1038.7	1035.5
70°	5817.3	1510.7	847.7	995.4	972.1	923.9	968.9	962.5	932.0	999.4	986.5
72.5°	4904.6	1147.9	680.7	833.2	863.7	892.6	944.0	895.0	856.5	903.9	875.8
75°	3805.7	862.9	537.8	647.8	729.7	843.7	914.3	817.2	761.8	757.0	741.7
77.5°	2057.4	592.4	426.2	494.5	579.6	782.7	894.2	733.7	650.2	630.9	618.9
80°	814.8	385.3	309.9	374.9	405.4	694.4	846.1	636.6	536.2	517.0	498.5
82.5°	336.3	228.0	199.9	251.3	264.1	594.0	759.4	521.8	414.2	573.1	608.5
85°	144.5	125.2	118.8	130.0	149.3	416.6	604.4	398.2	447.1	399.0	317.1
87.5°	43.3	53.0	50.6	49.8	54.6	99.5	321.9	221.6	328.3	124.4	93.1
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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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

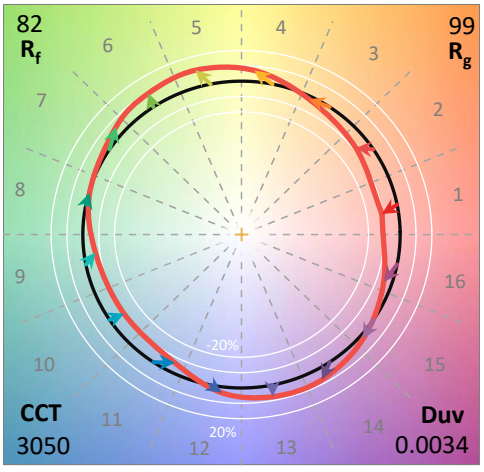
Test Information

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

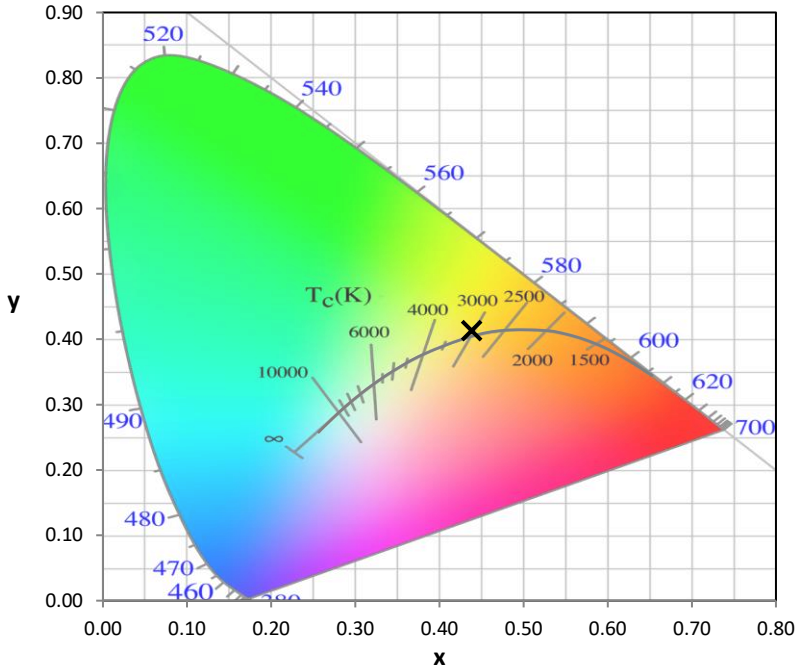
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

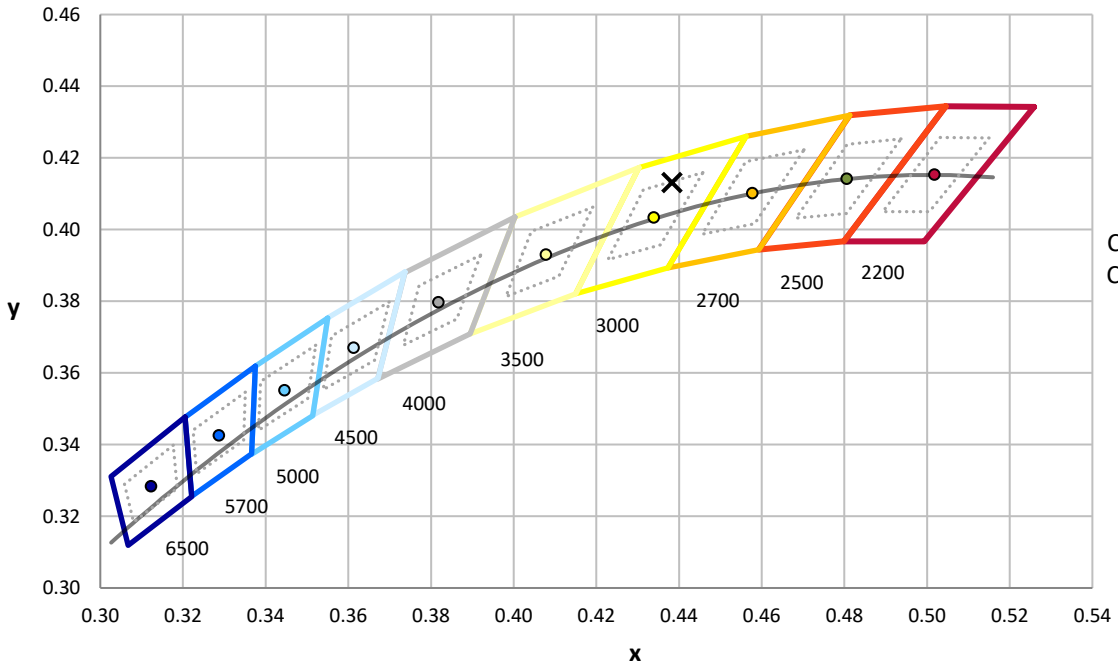
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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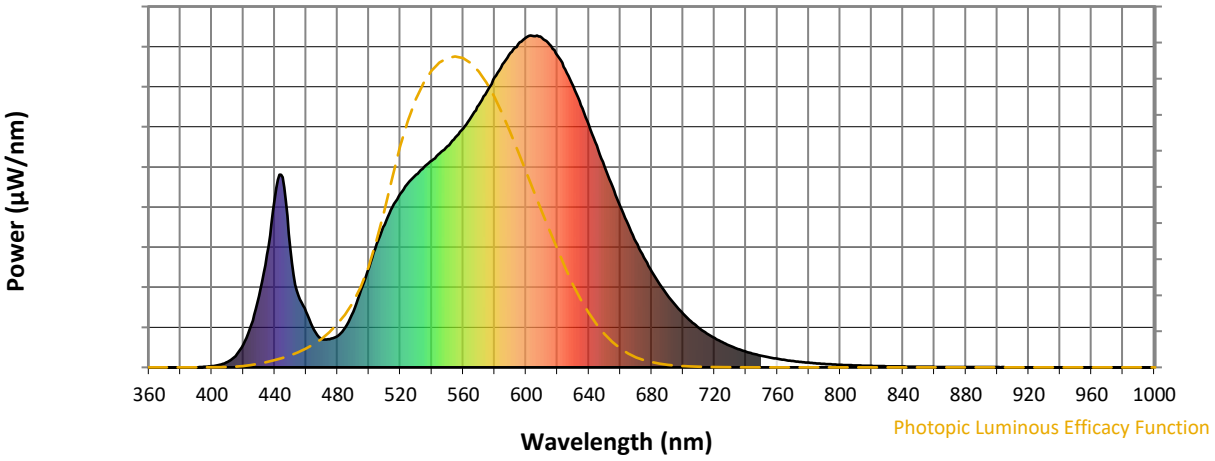
Photopic Flux vs. Wavelength



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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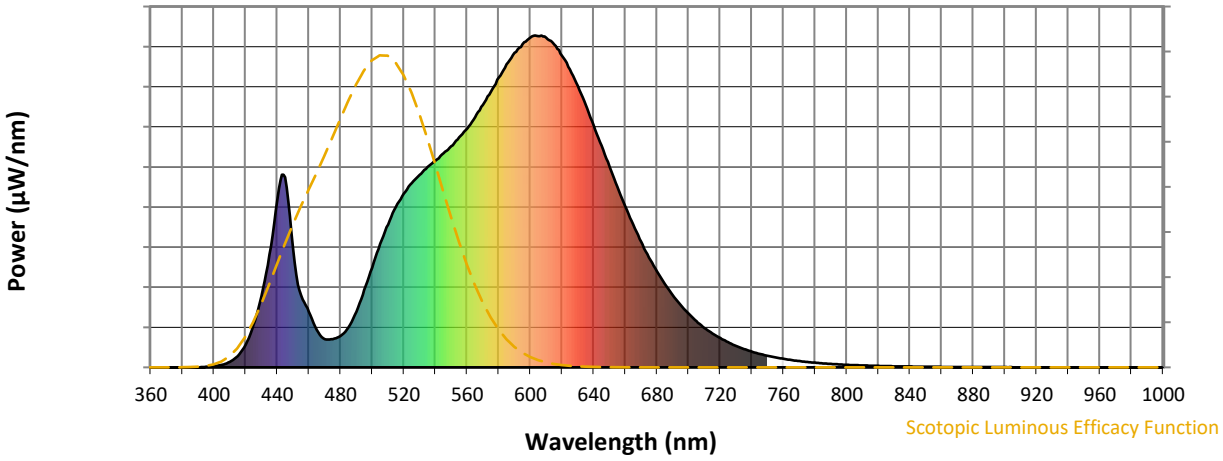
Scotopic Flux vs. Wavelength



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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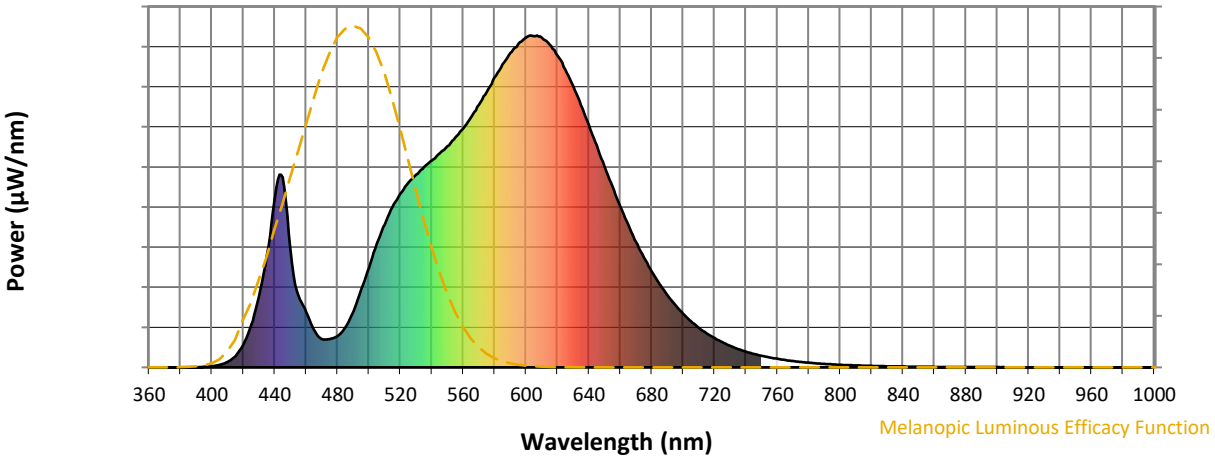
Melanopic Flux vs. Wavelength



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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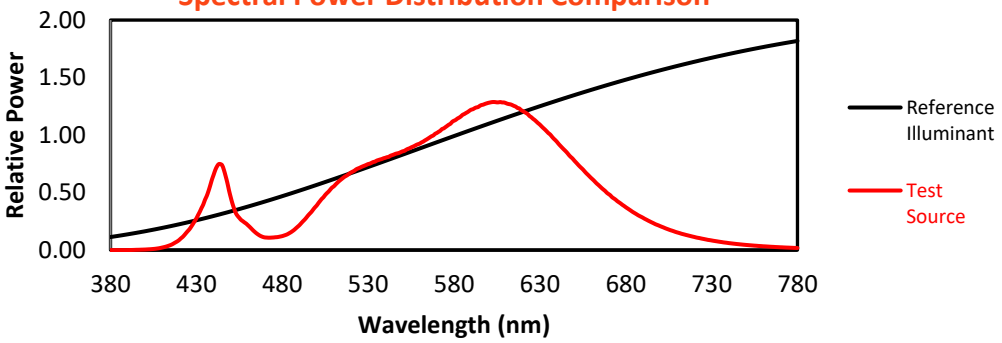
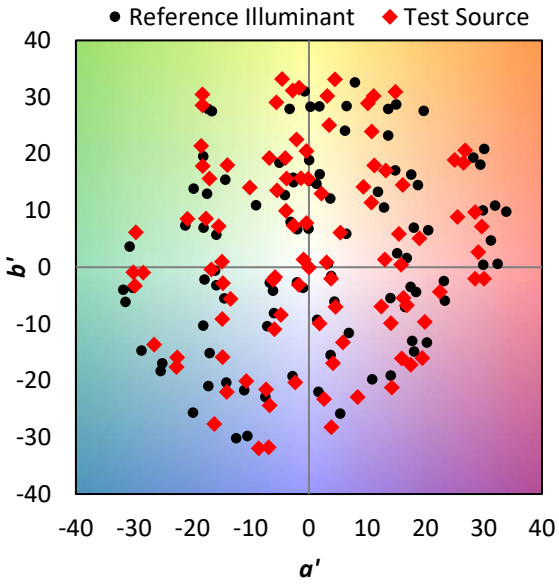
Summary

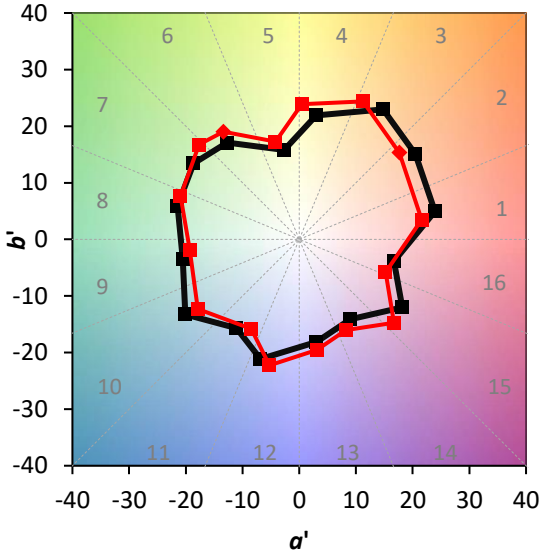
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

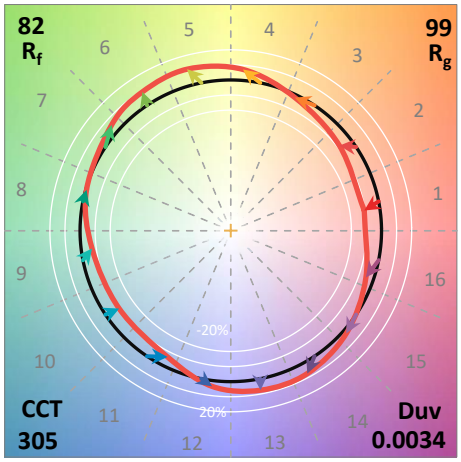
Spectral Power Distribution Comparison

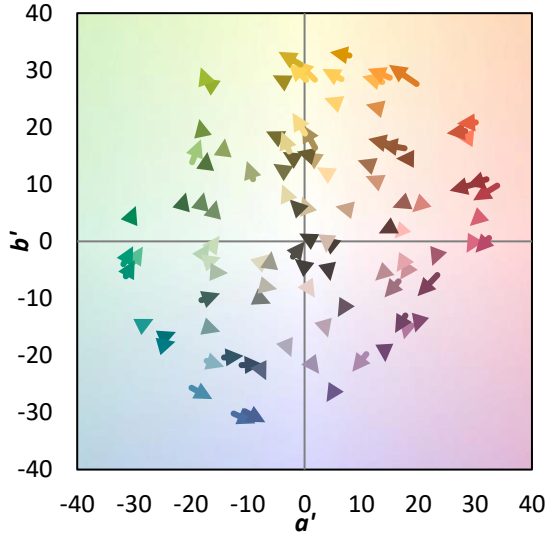


Color Vector Graphics









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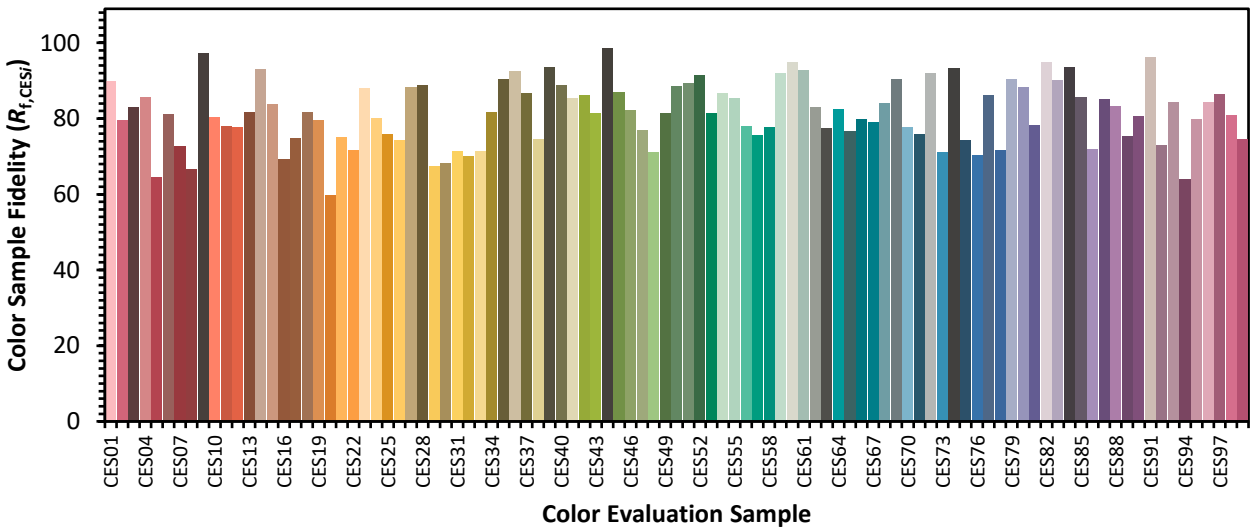
Individual Sample Fidelity Index ($R_{f,i}$)

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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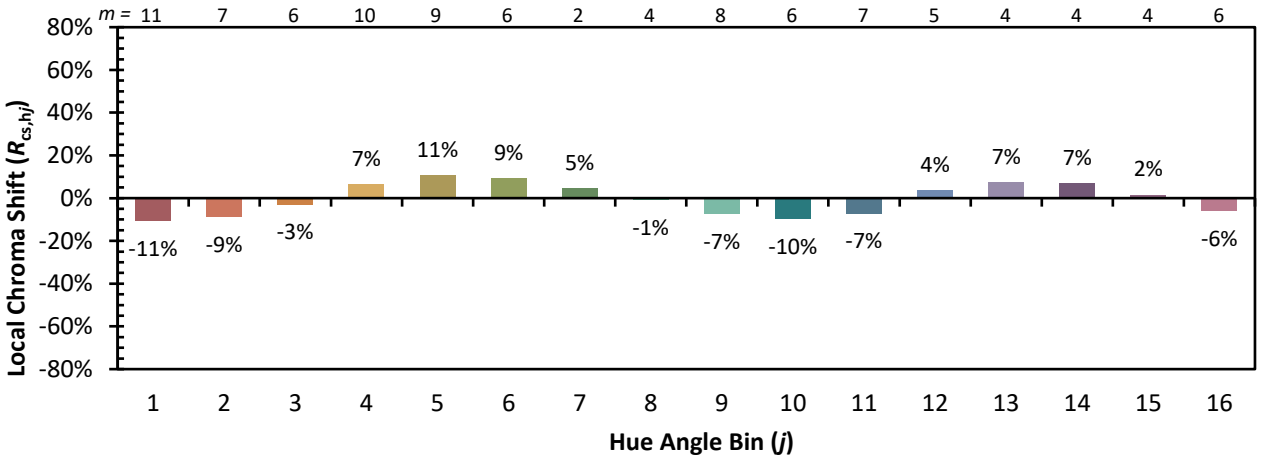
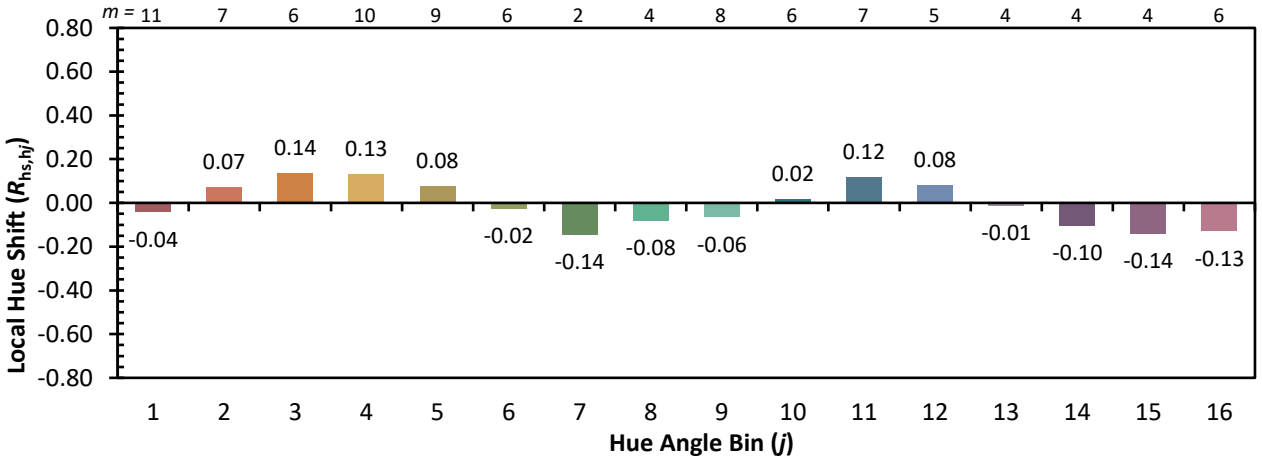
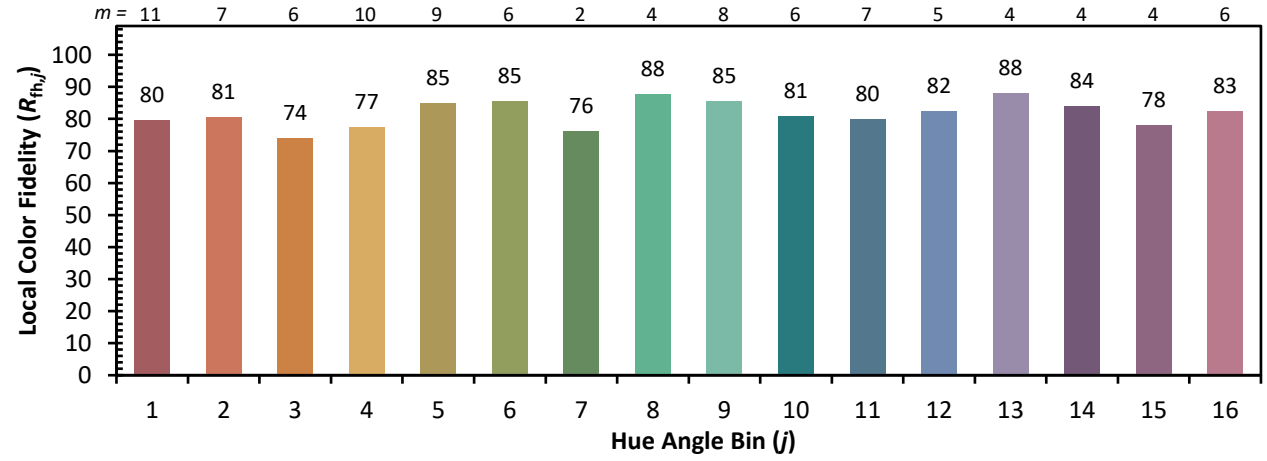
Color Rendition by Hue-Angle Bin







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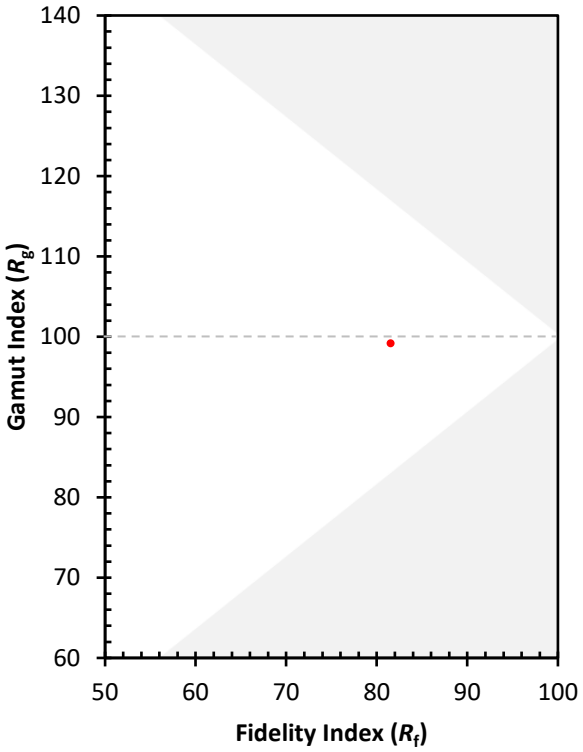
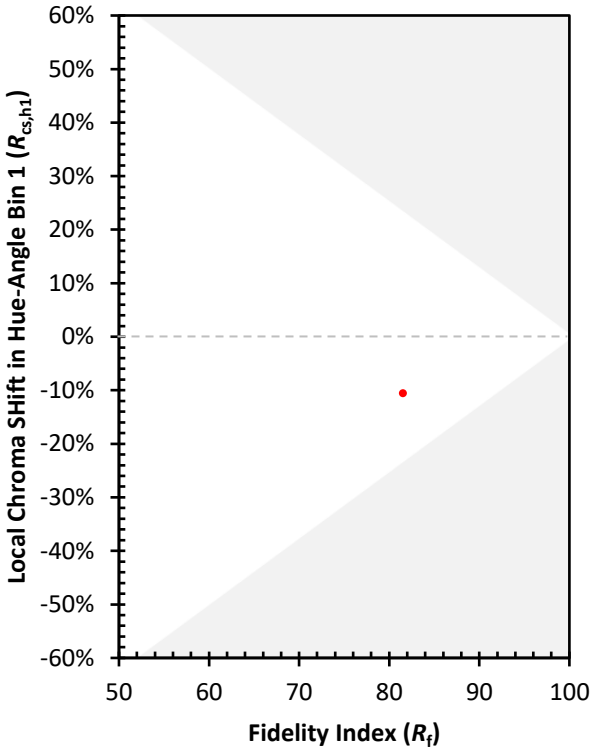
Measure Comparisons





(END OF REPORT)