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: P321747

Luminaire Tested: **GLEON-SA3A-830-U-T3R-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:	P321747
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA3A-830-U-T3R-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8695 lumens
Efficiency:	N/A
Efficacy:	90.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - U0 - G2

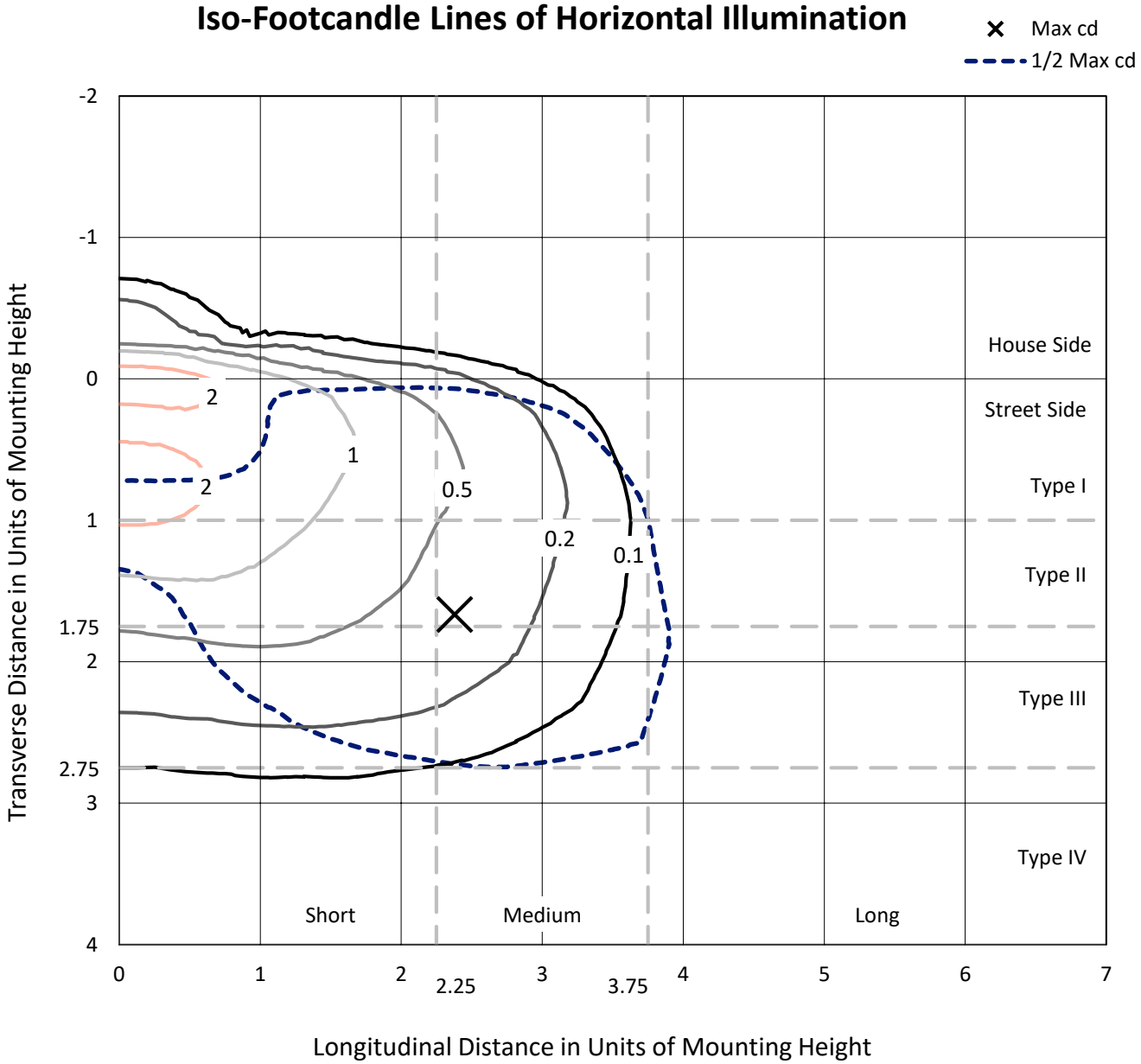
Input Watts (W):	96
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P321747
CATALOG NUMBER: GLEON-SA3A-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination



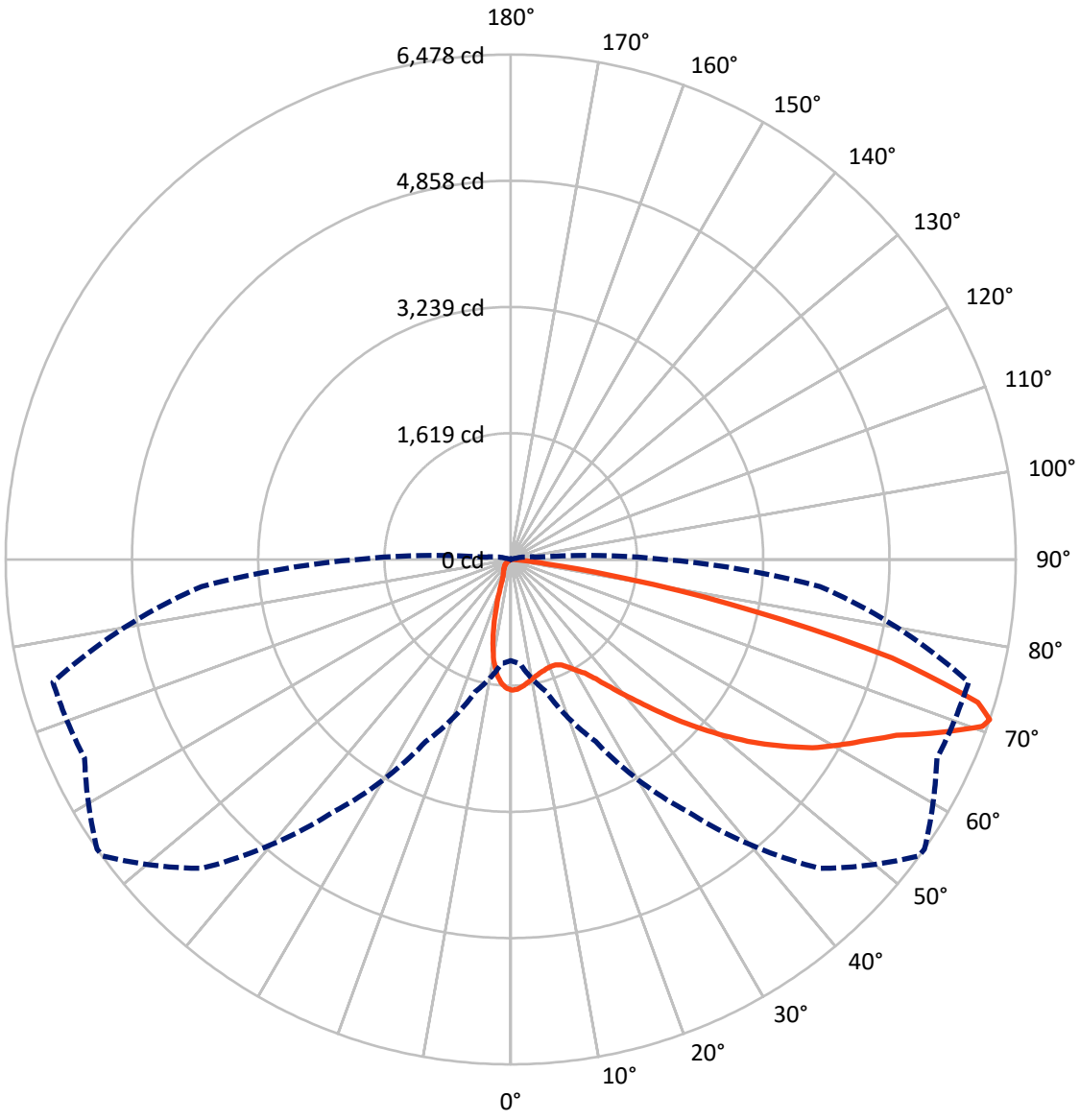
Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type III - Medium - N/A

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P321747
CATALOG NUMBER: GLEON-SA3A-830-U-T3R-HSS

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

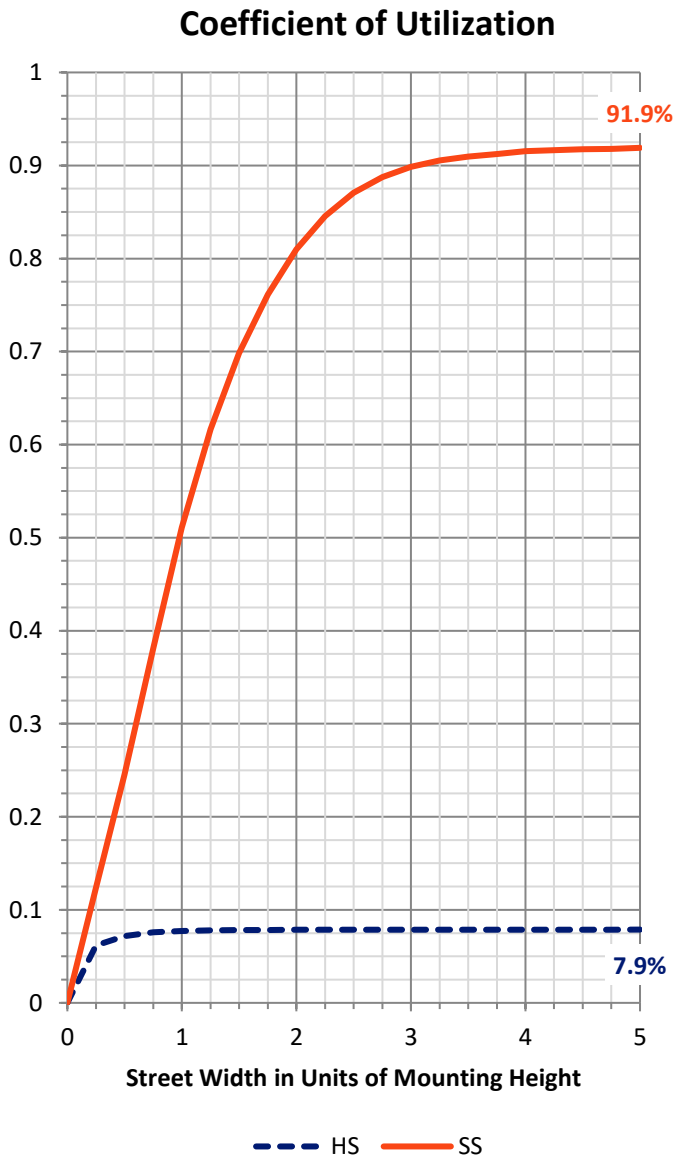
REPORT NUMBER: P321747
CATALOG NUMBER: GLEON-SA3A-830-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	688.4	0.0	688.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	8006.6	0.0	8006.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	8695.0	0.0	8695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	1.6
10°-20°	322.8	3.7
20°-30°	518.7	6.0
30°-40°	881.3	10.1
40°-50°	1367.9	15.7
50°-60°	1839.1	21.2
60°-70°	2249.9	25.9
70°-80°	1315.4	15.1
80°-90°	56.9	0.7
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°	8695.0	100.0
0°-180°	8695.0	100.0



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

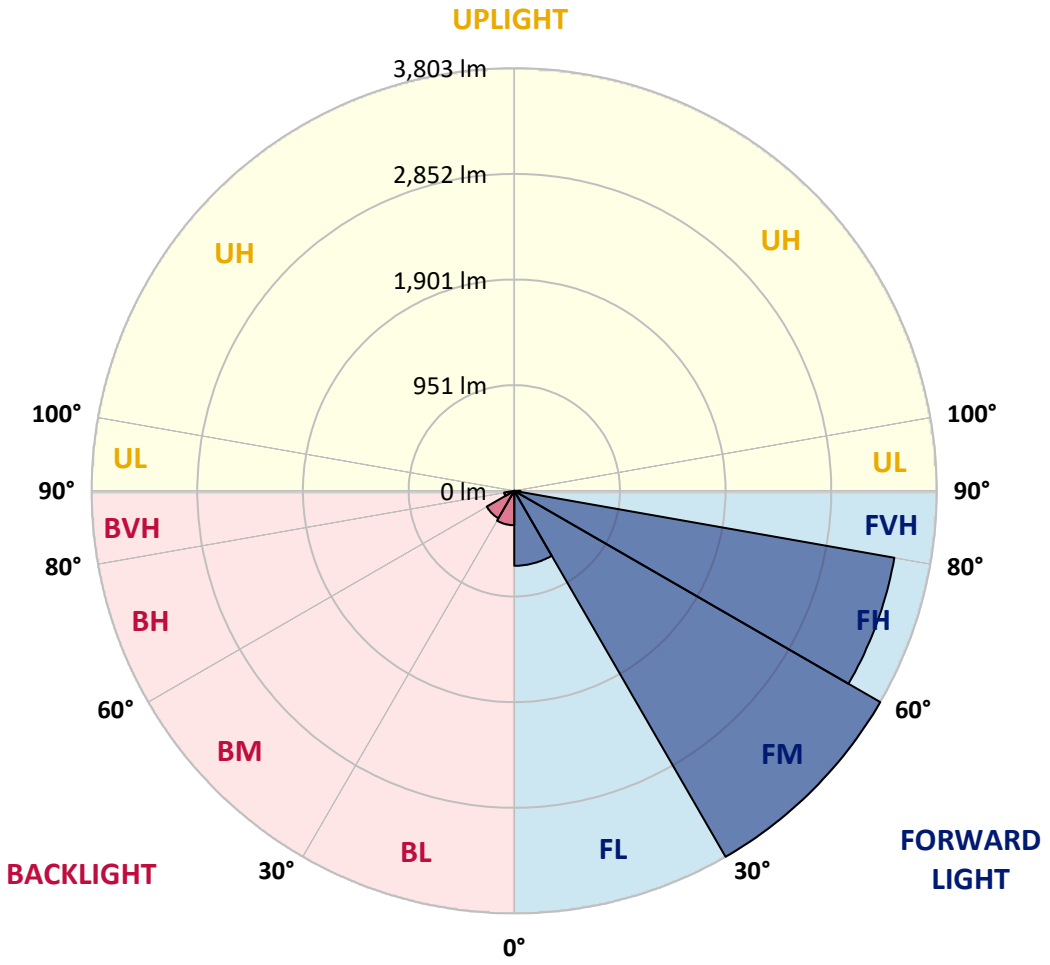
Scaled Data Report

REPORT NUMBER: P321747
CATALOG NUMBER: GLEON-SA3A-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	674.6	7.8			
FM	(30°-60°)	3802.9	43.7			
FH	(60°-80°)	3473.1	39.9			G2/5000
FVH	(80°-90°)	56.0	0.6			G1/100
BL	(0°-30°)	309.9	3.6	B1/500		
BM	(30°-60°)	285.4	3.3	B1/1000		
BH	(60°-80°)	92.2	1.1	B0/110		G0/110
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type III Medium



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P321747
CATALOG NUMBER: GLEON-SA3A-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	*1676.9*	1676.9	1676.9	1676.9
2.5°	1627.7	1629.6	1636.6	1639.8	1647.2	1659.7	1665.9	*1666.3*	1676.5	1680.4	1683.5
5°	1512.5	1524.2	1535.9	1548.4	1571.1	1601.1	1630.8	*1633.5*	1666.3	1690.5	1703.4
7.5°	1413.3	1423.9	1437.9	1457.8	1489.8	1537.1	1586.7	*1592.5*	1654.6	1709.7	1738.5
10°	1311.4	1320.0	1340.3	1369.6	1413.7	1477.0	1543.7	*1553.5*	1644.1	1735.4	1786.2
12.5°	1202.5	1207.6	1232.2	1274.3	1339.1	1419.6	1507.4	*1520.3*	1637.4	1765.1	1842.4
15°	1119.7	1122.1	1145.5	1189.2	1263.4	1368.0	1479.3	*1494.9*	1639.0	1800.6	1903.7
17.5°	1098.6	1099.8	1112.3	1142.4	1208.0	1322.0	1457.1	*1476.2*	1643.7	1835.4	1965.4
20°	1184.1	1176.0	1163.1	1158.4	1186.5	1294.2	1443.8	*1465.3*	1649.9	1866.2	2020.8
22.5°	1418.8	1394.6	1341.1	1269.7	1226.3	1296.2	1447.3	*1468.8*	1669.8	1904.1	2084.9
25°	1767.0	1733.5	1642.5	1502.0	1366.9	1352.4	1476.6	*1498.4*	1708.5	1949.4	2146.1
27.5°	2163.3	2130.1	2018.9	1818.2	1587.8	1463.7	1543.7	*1564.0*	1765.9	1989.6	2193.0
30°	2542.8	2533.4	2402.3	2174.3	1865.8	1644.1	1630.4	*1647.6*	1808.4	2013.8	2230.1
32.5°	2864.5	2849.7	2744.3	2522.5	2184.0	1860.8	1732.3	*1737.4*	1840.4	2045.0	2278.5
35°	3162.8	3144.5	3051.9	2842.3	2510.4	2125.5	1889.3	*1881.8*	1910.3	2107.9	2348.8
37.5°	3423.2	3440.0	3337.3	3137.8	2803.2	2400.7	2100.9	*2078.6*	2019.7	2210.2	2450.7
40°	3641.1	3641.1	3587.6	3421.3	3119.5	2685.3	2340.2	*2310.9*	2184.0	2367.9	2579.9
42.5°	3719.5	3736.3	3756.2	3662.2	3402.5	2981.3	2606.8	*2576.4*	2415.5	2591.6	2743.1
45°	3724.2	3750.8	3852.7	3852.3	3658.3	3275.2	2907.5	*2893.0*	2712.3	2879.0	2945.3
47.5°	3658.3	3691.4	3859.3	3954.6	3860.9	3548.9	3236.2	*3218.2*	3060.9	3231.1	3157.0
50°	3556.4	3593.1	3788.3	3994.8	3998.7	3787.1	3582.5	*3555.6*	3444.7	3633.7	3375.6
52.5°	3374.0	3445.1	3724.6	4004.2	4089.3	3992.8	3912.0	*3900.3*	3874.2	4021.3	3549.7
55°	2984.0	3062.9	3564.9	4007.3	4173.2	4175.2	4220.9	*4224.0*	4276.7	4383.7	3679.3
57.5°	2799.7	2844.2	3286.2	4022.1	4297.8	4382.1	4535.5	*4559.7*	4641.3	4727.6	3827.3
60°	2683.8	2736.5	3148.8	4001.8	4493.4	4653.4	4827.2	*4835.4*	4922.8	5082.5	4027.6
62.5°	2591.2	2643.2	3062.1	3923.7	4713.2	4979.8	5112.2	*5113.0*	5178.6	5505.3	4255.2
65°	2362.8	2406.6	2886.8	3835.9	4858.4	5302.7	5443.3	*5438.2*	5491.7	5951.2	4519.5
67.5°	2032.5	2066.1	2528.8	3502.9	4803.8	5596.3	5943.0	*5926.2*	5861.4	6336.5	4623.4
70°	1571.4	1583.6	1993.1	2919.2	4291.5	5709.1	6426.0	*6417.4*	6088.2	6267.4	4242.7
71°	*1298.9*	*1338.8*	*1756.5*	*2576.4*	*3948.3*	*5604.9*	*6472.8*	*6477.9*	*6031.2*	*6079.3*	*3980.7*
72.5°	754.3	788.3	1273.2	1978.7	3352.2	5170.0	6230.0	*6266.7*	5765.0	5529.5	3400.2
75°	161.6	173.0	472.0	957.7	1844.0	3623.5	4917.4	*5048.2*	4698.7	3761.7	2049.3
77.5°	112.4	121.4	202.2	434.5	609.4	1790.5	3054.7	*3202.2*	2807.1	1413.7	655.9
80°	89.0	99.2	157.7	214.7	164.8	577.4	1430.9	*1521.1*	936.2	315.5	110.5
82.5°	49.6	59.0	123.0	116.0	63.2	109.7	400.6	*452.9*	187.4	63.6	26.2
85°	14.4	17.6	79.3	84.3	26.9	21.1	68.3	*84.7*	35.5	16.8	11.7
87.5°	0.0	0.0	38.3	32.4	7.8	3.1	6.2	*7.0*	7.0	7.0	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P321747
CATALOG NUMBER: GLEON-SA3A-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9
2.5°	1683.5	1686.2	1676.5	1663.6	1649.9	1633.1	1615.6	1601.9	1601.5	1594.9	1588.2
5°	1704.2	1702.6	1675.7	1634.7	1586.3	1535.9	1487.9	1433.6	1415.7	1393.4	1386.0
7.5°	1742.5	1731.5	1674.5	1584.7	1478.5	1373.1	1264.2	1154.5	1107.6	1065.5	1058.0
10°	1790.5	1769.8	1667.1	1509.8	1314.9	1120.5	956.1	807.0	741.4	691.0	688.7
12.5°	1840.4	1808.8	1646.4	1396.5	1100.6	827.3	637.9	491.2	436.5	401.4	404.5
15°	1892.8	1845.5	1601.9	1243.9	856.6	561.4	392.0	305.7	283.8	274.9	277.2
17.5°	1946.3	1870.9	1539.8	1060.0	615.7	362.3	271.3	247.1	247.1	249.1	249.9
20°	1992.7	1884.6	1448.5	853.9	417.4	263.9	237.4	233.9	235.8	238.9	239.3
22.5°	2038.8	1885.3	1329.4	645.0	292.0	231.1	226.1	224.5	225.7	229.2	229.6
25°	2076.3	1876.0	1180.2	458.7	233.1	217.9	215.5	214.7	215.5	219.8	219.8
27.5°	2091.5	1842.0	998.3	322.5	208.9	203.0	202.2	203.0	204.2	207.3	207.7
30°	2093.1	1782.7	800.0	233.5	189.4	183.1	184.7	187.4	186.2	185.5	186.2
32.5°	2097.0	1714.0	606.7	192.1	173.0	163.2	161.2	161.2	156.6	153.8	152.3
35°	2109.8	1633.1	440.0	172.6	156.2	144.8	137.4	128.8	119.9	115.2	114.0
37.5°	2130.1	1548.4	315.1	159.7	141.3	128.4	114.4	99.2	86.3	82.8	82.8
40°	2167.2	1461.0	233.1	149.5	129.6	113.6	92.5	72.6	60.9	59.0	59.0
42.5°	2225.8	1368.8	185.8	140.6	119.5	98.4	70.7	52.7	44.1	42.9	42.6
45°	2286.7	1267.3	162.4	132.0	108.5	80.8	52.3	39.0	34.0	32.8	32.8
47.5°	2347.6	1159.2	151.1	123.8	98.0	62.9	39.0	30.8	28.5	28.5	28.9
50°	2399.1	1046.3	142.9	114.8	84.3	47.6	30.8	26.2	25.4	26.9	27.3
52.5°	2412.0	935.5	132.7	103.5	67.5	36.3	25.4	23.0	23.0	23.0	23.0
55°	2404.2	849.6	119.5	89.4	50.0	28.9	21.9	20.3	19.9	19.9	19.9
57.5°	2430.8	798.8	95.7	69.5	35.9	23.4	19.1	18.0	17.2	16.8	16.8
60°	2484.3	765.6	68.3	50.0	26.9	19.5	16.4	15.2	14.1	13.3	13.3
62.5°	2555.3	736.7	50.8	37.1	20.7	15.6	13.7	12.5	10.9	10.2	10.2
65°	2610.0	685.2	38.7	27.7	15.6	12.5	10.5	10.2	7.8	7.0	6.6
67.5°	2526.4	572.0	31.2	20.3	11.7	9.8	8.2	7.8	4.7	3.9	3.9
70°	2166.8	398.2	25.0	14.8	8.6	7.8	6.6	5.1	3.5	3.1	3.1
71°	*1965.0*	*332.6*	*22.6*	*12.5*	*7.4*	*7.4*	*6.2*	*4.3*	*3.1*	*2.7*	*2.7*
72.5°	1632.4	236.2	19.1	9.8	6.6	7.8	6.6	3.9	3.1	2.7	2.3
75°	947.6	98.8	13.3	6.6	5.1	9.4	8.6	3.5	2.3	2.0	2.0
77.5°	285.0	36.3	7.4	4.3	3.9	8.2	9.8	3.1	1.2	0.4	0.4
80°	51.9	15.6	4.7	2.7	2.7	5.1	7.4	1.6	0.0	0.0	0.0
82.5°	18.3	7.8	2.7	1.6	1.2	2.3	3.5	0.0	0.0	0.0	0.0
85°	10.5	5.5	1.6	0.8	0.0	0.4	0.8	0.0	0.0	0.0	0.0
87.5°	7.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

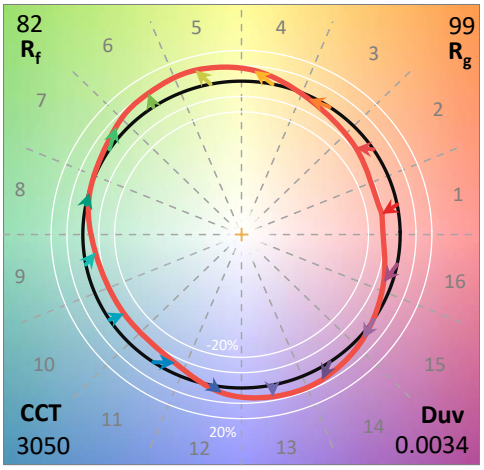
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2408-195-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/07/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**GALN-SB1A-830-U-5WQ**
Description:	GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K):	3050	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				

Rf:	81.5
Rg:	99.2



Test Conditions

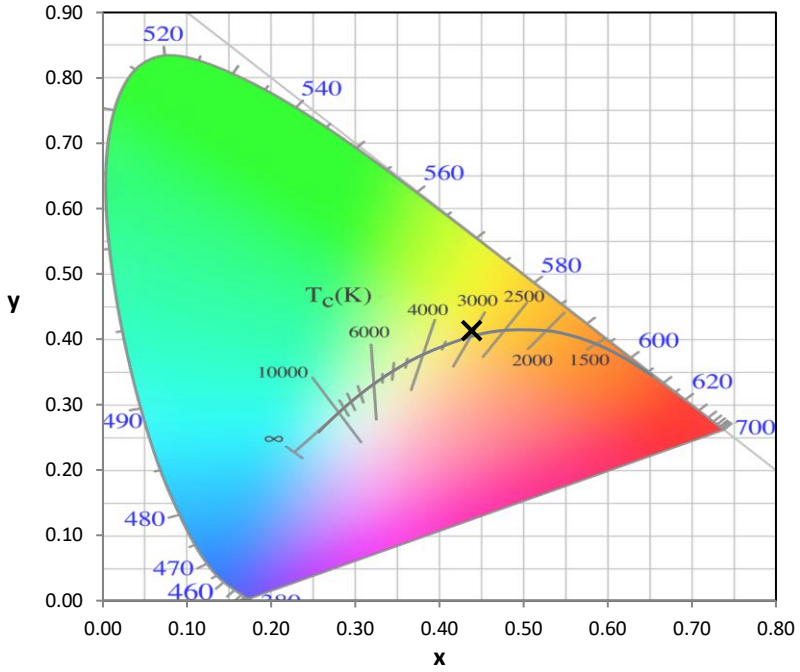
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

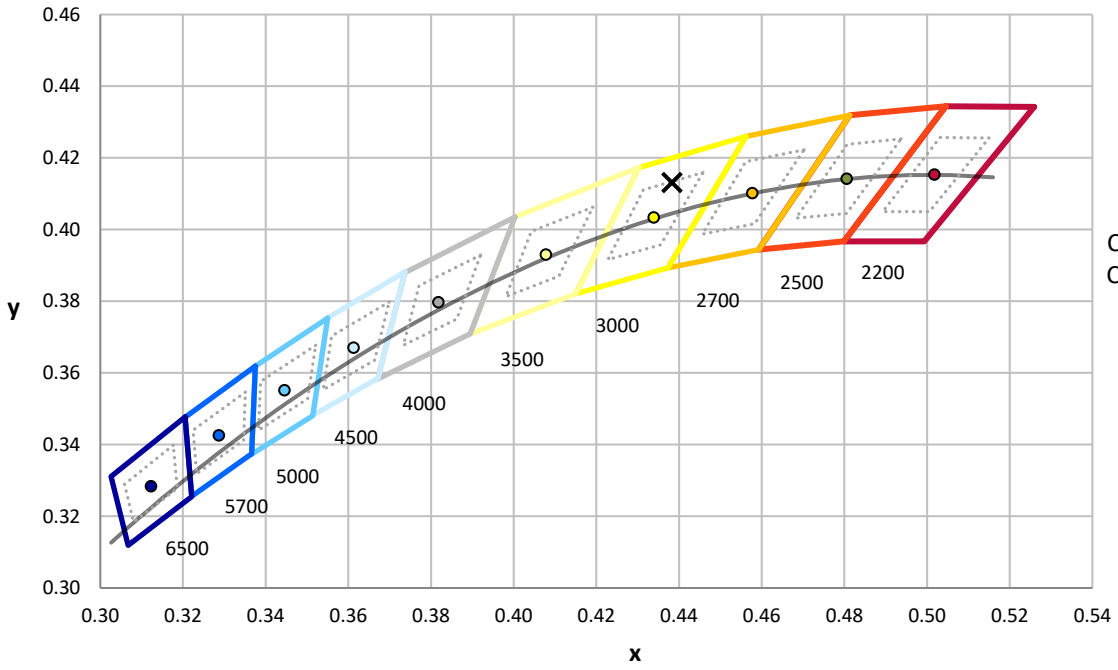
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

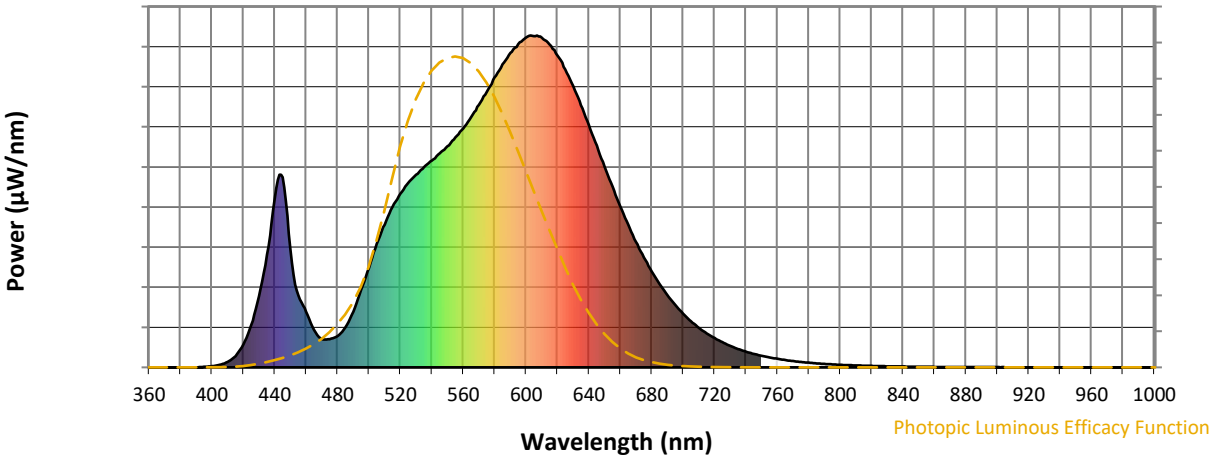


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

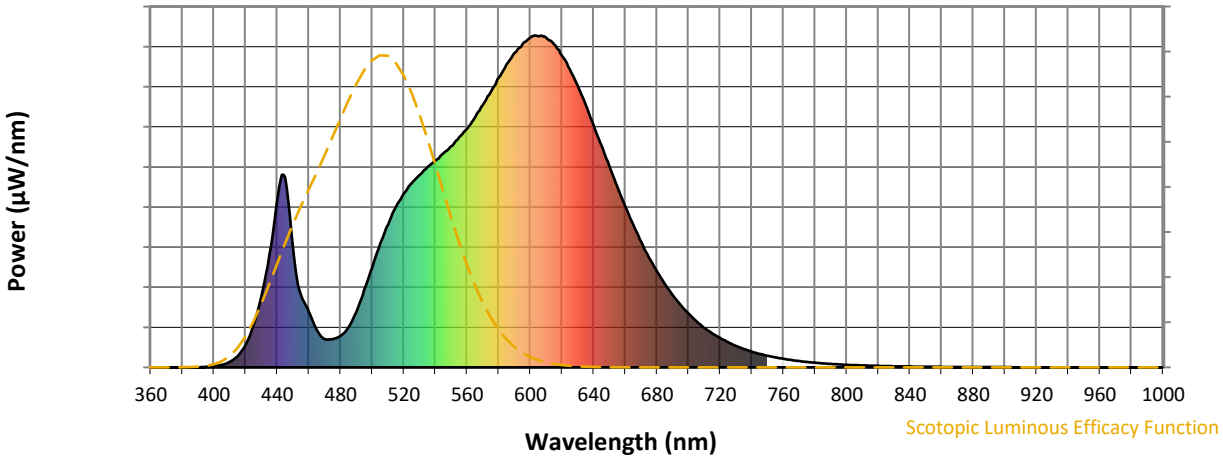


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

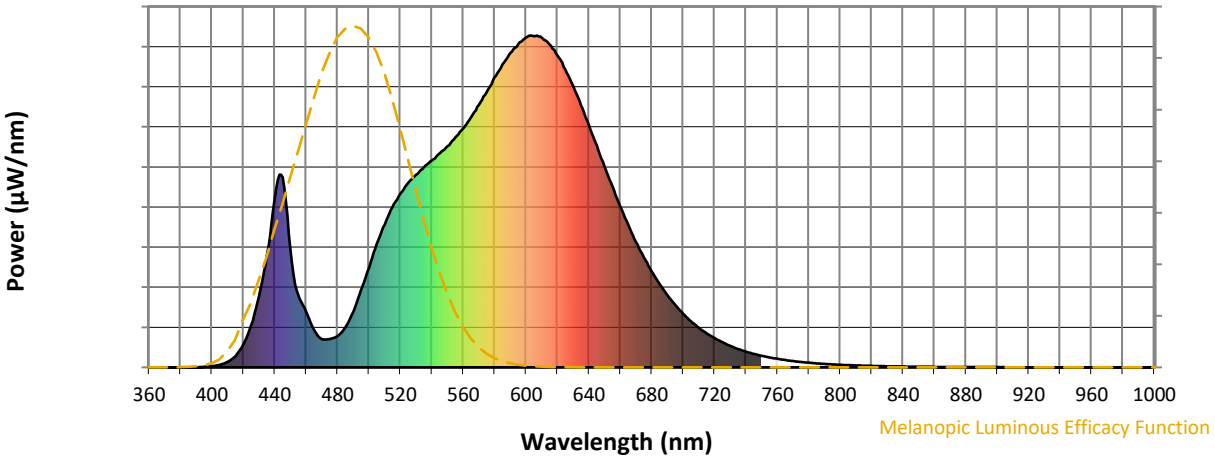


Scotopic Lumens: NR **S/P: 1.27**

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			

REPORT NUMBER: SP1-2408-195-9

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			

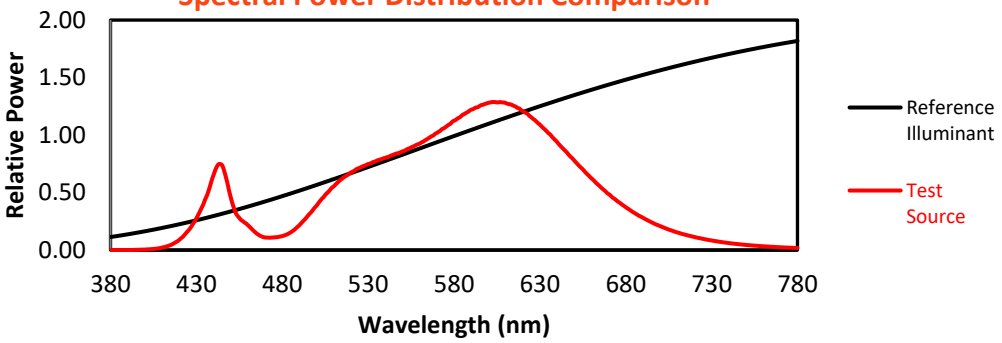
REPORT NUMBER: SP1-2408-195-9

TM-30-18

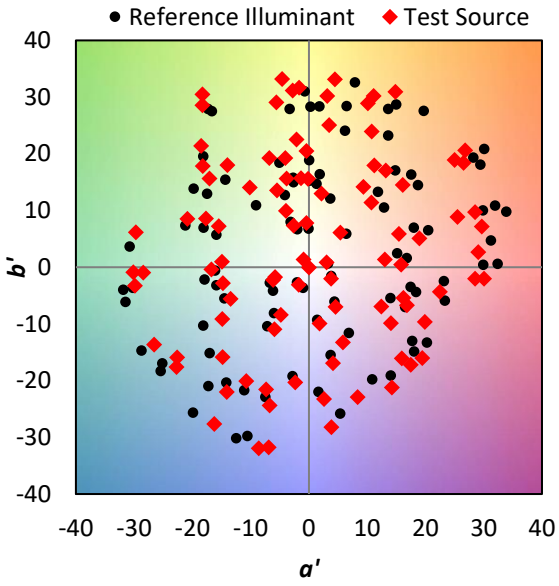
Summary

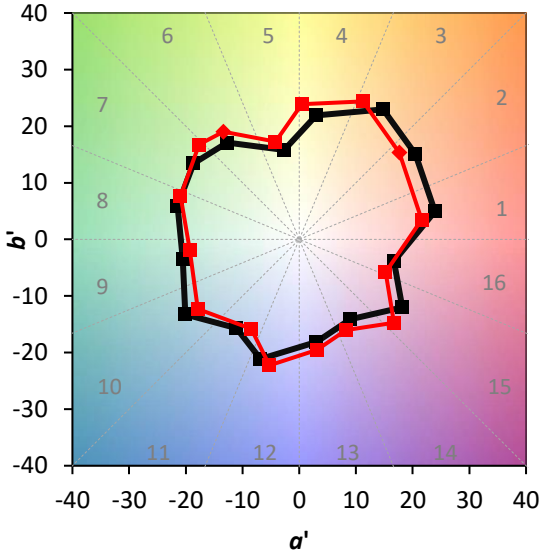
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

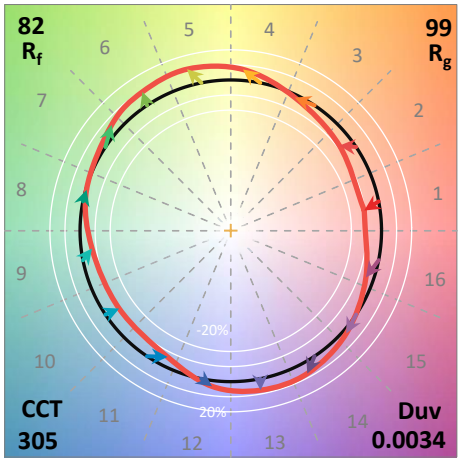
Spectral Power Distribution Comparison

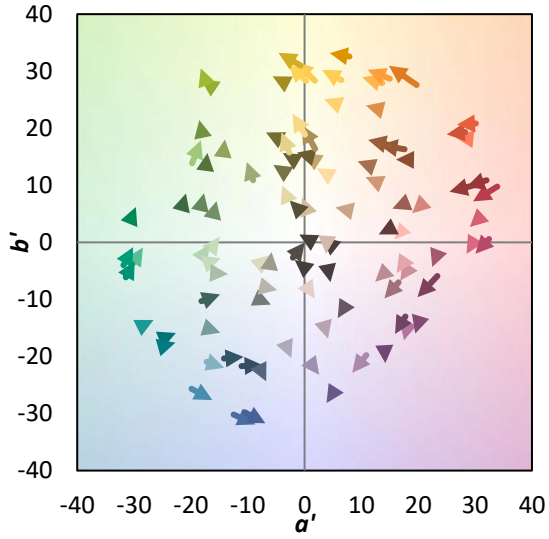


Color Vector Graphics







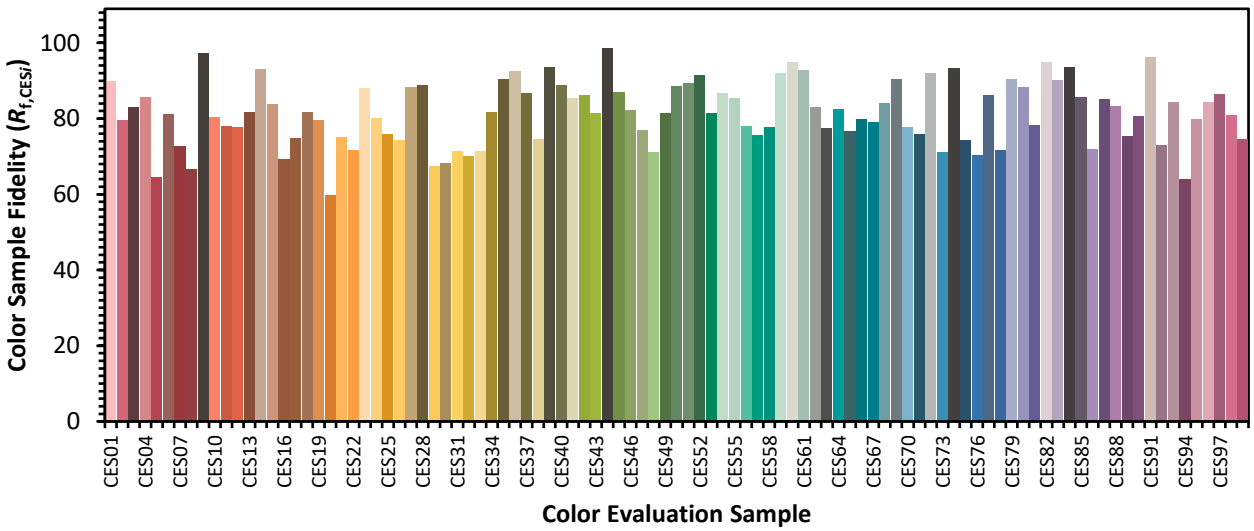


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

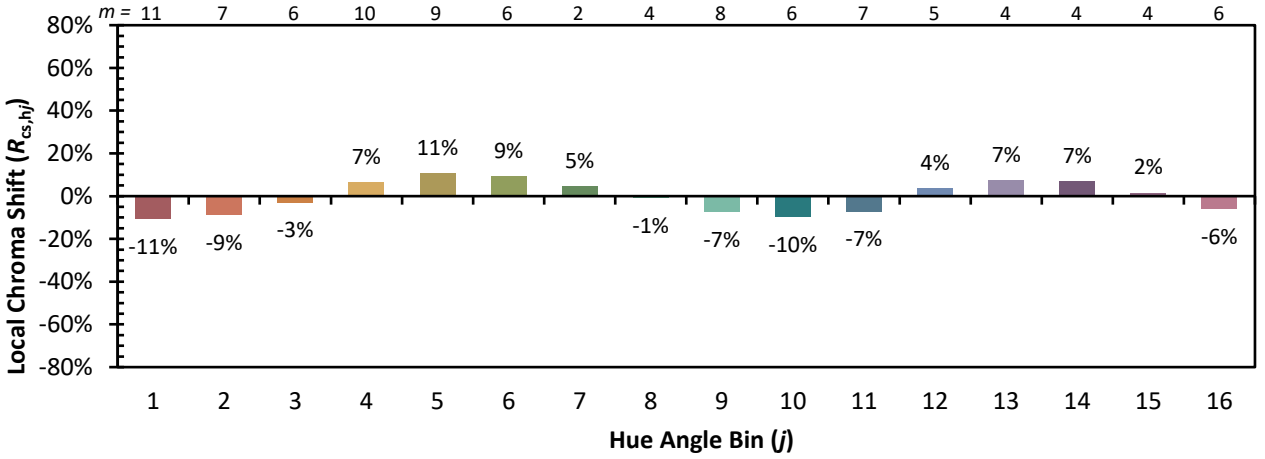
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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	

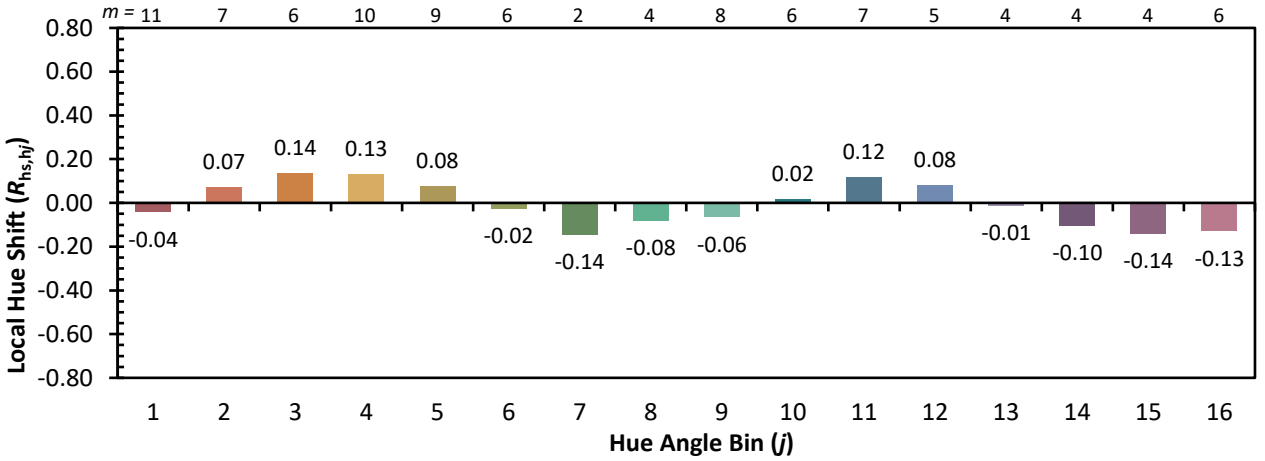


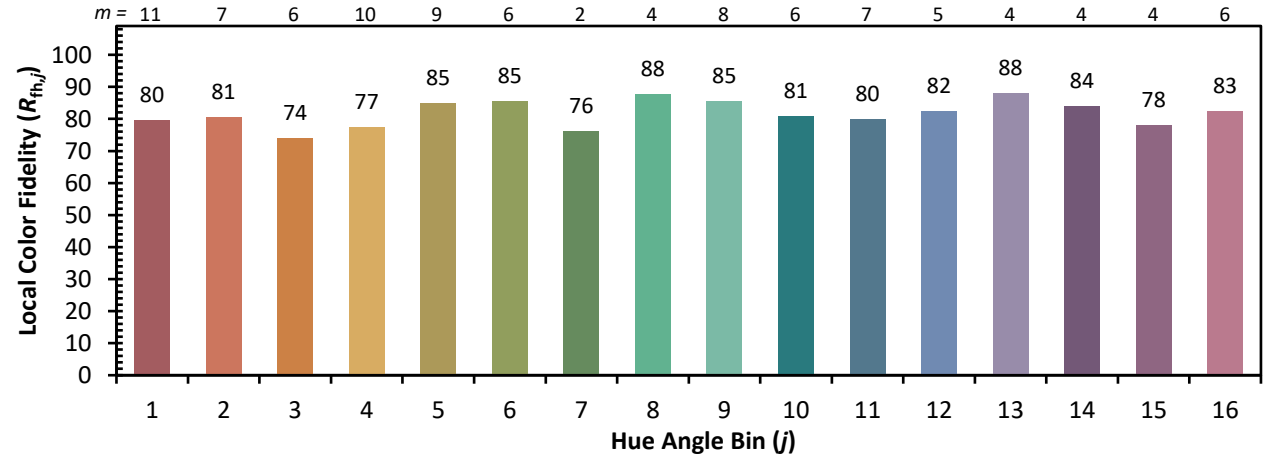
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



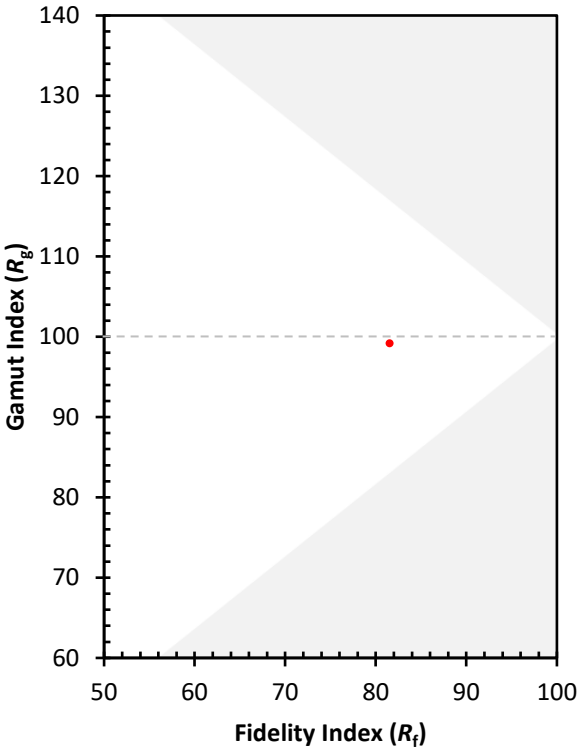


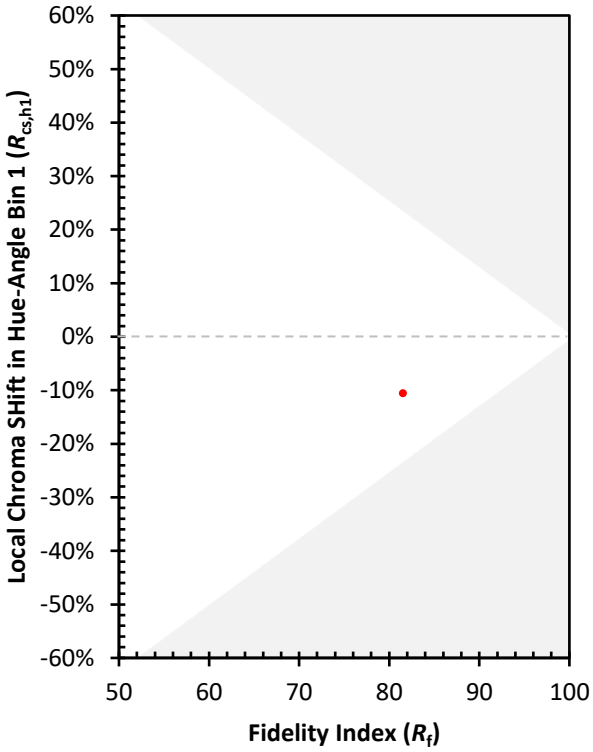


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)