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: P386955

Luminaire Tested: **GPC-SA2C-830-U-T2**

Issue Date: 3/3/2020

Report Generated By 670245982

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:	P386955
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GPC-SA2C-830-U-T2
Description:	GALLEON PEDESTRIAN LUMINAIRE
	(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11510 lumens
Efficiency:	N/A
Efficacy:	103.7 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G2

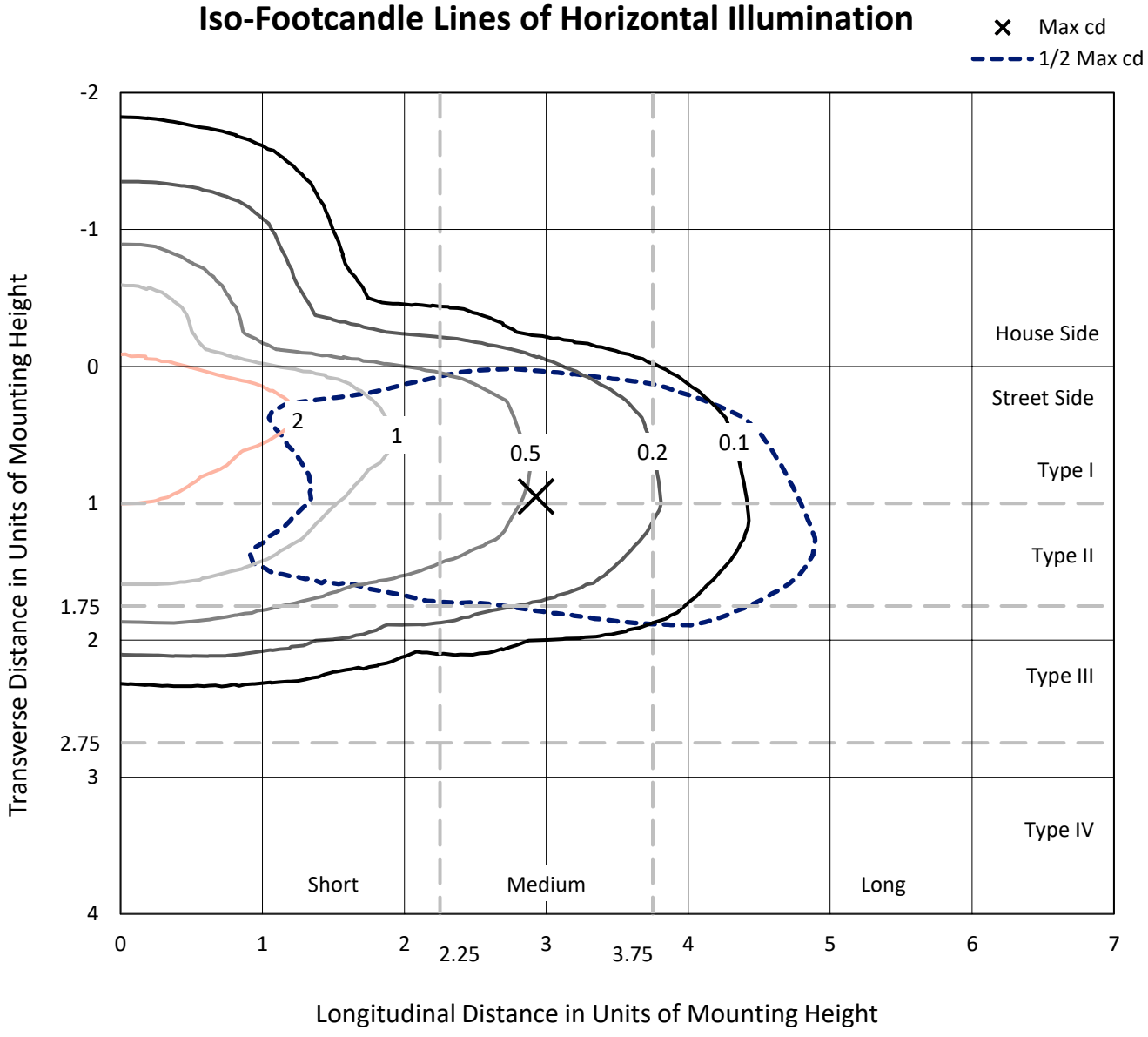
Input Watts (W):	111
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P386955
CATALOG NUMBER: GPC-SA2C-830-U-T2

Iso-Footcandle Lines of Horizontal Illumination



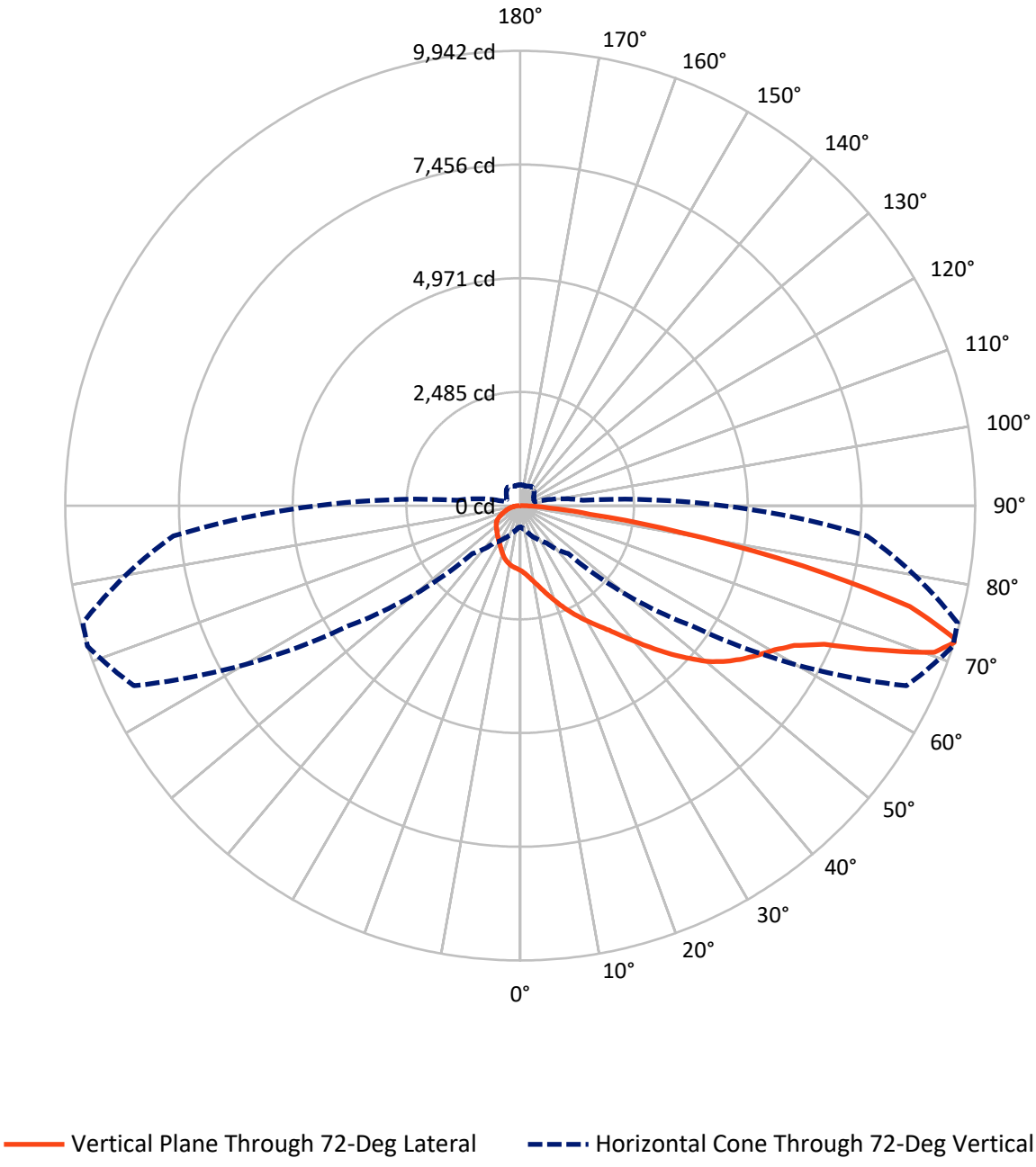
Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type III - Medium - N/A

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

Scaled Data Report

REPORT NUMBER: P386955
CATALOG NUMBER: GPC-SA2C-830-U-T2

Luminous Intensity Polar Plot



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

Scaled Data Report

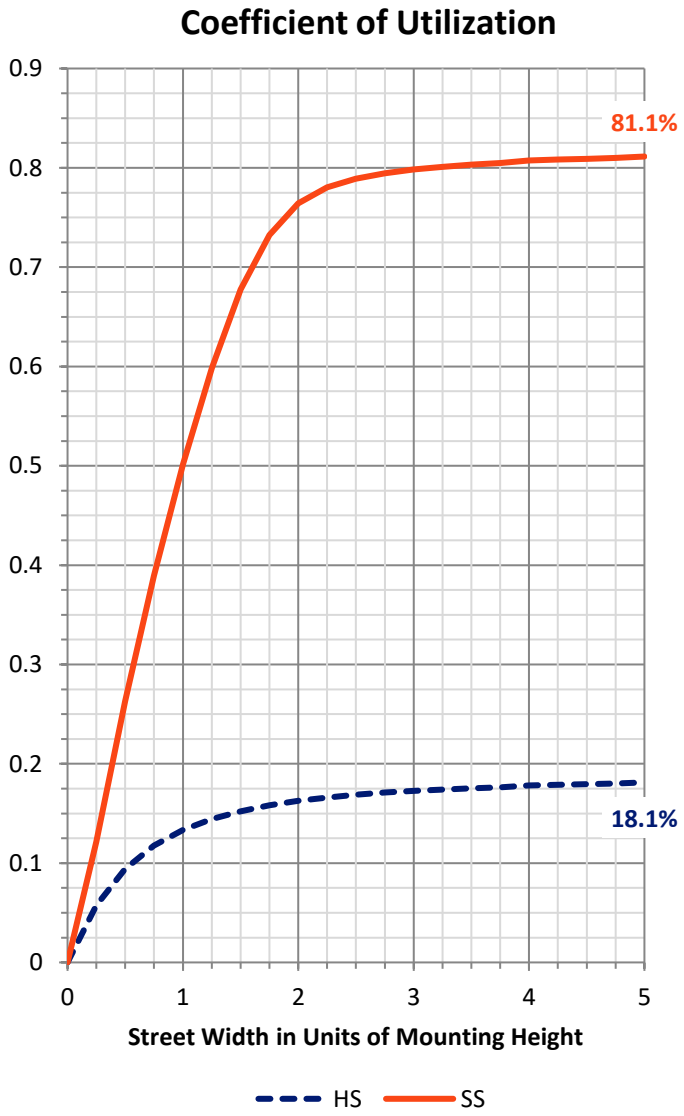
REPORT NUMBER: P386955
CATALOG NUMBER: GPC-SA2C-830-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2135.2	0.0	2135.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9374.8	0.0	9374.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	11510.0	0.0	11510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	1.2
10°-20°	458.5	4.0
20°-30°	803.5	7.0
30°-40°	1191.3	10.4
40°-50°	1742.4	15.1
50°-60°	2397.5	20.8
60°-70°	2669.1	23.2
70°-80°	1808.6	15.7
80°-90°	297.3	2.6
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°	11510.0	100.0
0°-180°	11510.0	100.0



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

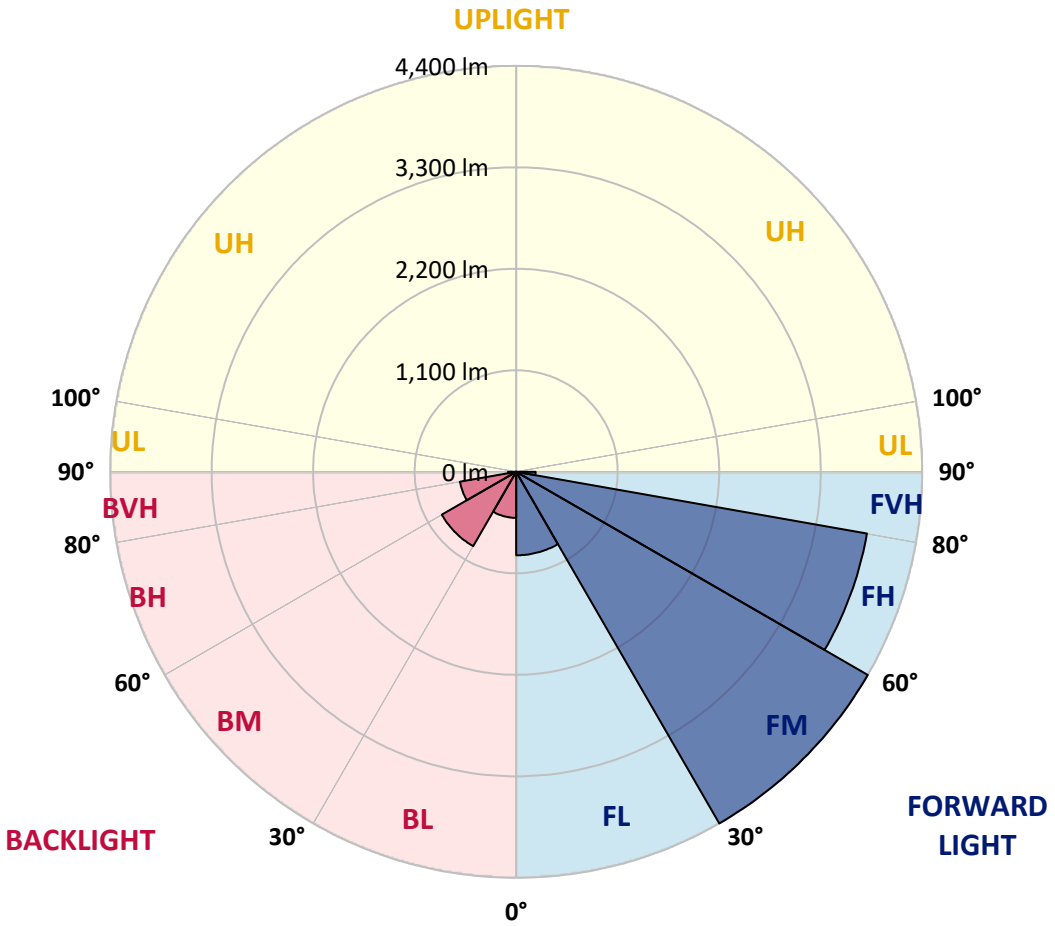
Scaled Data Report

REPORT NUMBER: P386955
CATALOG NUMBER: GPC-SA2C-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	904.8	7.9			
FM	(30°-60°)	4400.4	38.2			
FH	(60°-80°)	3860.0	33.5			G2/5000
FVH	(80°-90°)	209.7	1.8			G2/225
BL	(0°-30°)	499.1	4.3	B1/500		
BM	(30°-60°)	930.7	8.1	B1/1000		
BH	(60°-80°)	617.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	87.6	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type III Medium



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

Scaled Data Report

REPORT NUMBER: P386955
CATALOG NUMBER: GPC-SA2C-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	*1416.0*	1416.0	1416.0
2.5°	1564.3	1561.9	1553.6	1553.6	1537.7	1524.2	1498.9	1481.8	*1461.6*	1454.5	1430.7
5°	1715.6	1716.4	1706.1	1699.0	1675.6	1647.1	1603.9	1564.6	*1525.4*	1509.6	1460.8
7.5°	1842.9	1841.3	1838.5	1832.6	1810.8	1781.4	1723.2	1664.9	*1607.1*	1583.3	1499.3
10°	1924.5	1928.1	1930.4	1933.2	1924.1	1903.1	1848.0	1777.1	*1701.4*	1668.9	1545.2
12.5°	1965.7	1972.1	1983.2	2002.2	2017.2	2014.9	1974.8	1899.5	*1809.6*	1768.7	1602.7
15°	1989.9	1998.2	2015.7	2049.7	2092.1	2116.3	2105.6	2037.5	*1937.2*	1886.9	1672.8
17.5°	2005.0	2011.7	2038.6	2084.2	2147.2	2211.4	2239.6	2182.5	*2081.4*	2024.0	1753.3
20°	2015.3	2020.4	2054.1	2107.6	2189.2	2291.5	2370.0	2355.7	*2240.4*	2165.9	1837.3
22.5°	2038.2	2042.6	2074.7	2128.6	2219.0	2350.9	2495.6	2517.0	*2408.0*	2323.6	1927.3
25°	2102.4	2102.4	2129.4	2167.0	2251.9	2402.5	2601.8	2696.5	*2579.2*	2480.9	2010.5
27.5°	2224.9	2223.7	2233.6	2246.7	2310.9	2454.8	2696.5	2855.0	*2756.8*	2649.4	2091.3
30°	2370.0	2377.9	2379.1	2372.7	2402.9	2520.2	2784.1	3022.3	*2935.5*	2819.8	2174.2
32.5°	2556.6	2561.8	2555.8	2534.8	2530.5	2612.9	2870.1	3197.5	*3128.9*	2997.7	2249.9
35°	2793.6	2783.7	2765.1	2722.3	2681.5	2736.9	2968.4	3372.6	*3346.1*	3212.9	2354.1
37.5°	3047.7	3048.1	3025.1	2928.0	2871.7	2895.5	3103.9	3571.2	*3608.8*	3468.9	2487.7
40°	3251.4	3262.1	3276.3	3148.7	3075.8	3108.7	3276.3	3801.4	*3919.5*	3772.5	2661.6
42.5°	3393.6	3405.9	3446.3	3366.3	3290.6	3351.6	3479.2	4047.2	*4268.3*	4122.9	2865.4
45°	3544.2	3551.0	3579.5	3545.0	3496.7	3634.2	3707.9	4301.6	*4637.3*	4496.2	3093.2
47.5°	3702.8	3709.9	3739.2	3716.2	3690.9	3898.1	3946.5	4541.4	*4990.8*	4906.4	3336.6
50°	3898.5	3903.3	3931.0	3889.4	3897.4	4097.1	4159.7	4761.3	*5361.3*	5274.9	3580.7
52.5°	4165.7	4166.8	4205.3	4167.6	4130.4	4242.9	4343.2	4968.6	*5651.8*	5611.0	3824.8
55°	4374.9	4387.6	4513.6	4505.7	4484.3	4375.3	4496.6	5166.0	*5911.0*	5930.4	4084.0
57.5°	4241.4	4290.9	4546.1	4726.0	4901.2	4704.6	4703.9	5388.3	*6152.0*	6243.9	4369.0
60°	3714.7	3782.0	4158.1	4557.2	5105.3	5277.7	5134.2	5659.8	*6395.3*	6554.6	4726.0
62.5°	2652.9	2763.9	3273.6	3910.8	4825.5	5657.4	6010.1	6090.6	*6726.2*	6914.5	5190.1
65°	1341.1	1425.1	1852.4	2620.0	3855.3	5409.3	6962.0	7033.8	*7301.3*	7468.5	5904.7
67.5°	814.8	846.5	1055.0	1457.2	2363.6	4213.6	7272.8	8606.0	*8414.1*	8502.9	6923.6
70°	600.4	623.8	753.8	967.8	1359.4	2472.6	6319.2	9727.9	*9601.9*	9592.0	7676.6
72°	*467.7*	*484.7*	*599.6*	*781.9*	*994.0*	*1483.4*	*4580.2*	*9313.8*	*9941.9*	*9892.0*	*7607.6*
72.5°	443.5	458.5	563.2	736.0	939.3	1344.7	4118.1	9034.4	*9917.4*	9894.8	7518.5
75°	349.2	359.9	416.9	569.1	735.2	762.9	2256.6	7001.3	*8797.8*	9163.6	6762.3
77.5°	288.9	290.5	320.6	414.1	573.1	539.4	1108.5	4857.6	*6299.8*	6702.1	4790.2
80°	235.4	237.4	251.7	290.5	433.6	399.1	526.3	2793.2	*3527.2*	3531.6	2278.0
82.5°	187.5	187.9	203.7	212.4	311.5	285.3	301.6	1311.4	*1541.3*	1482.6	818.8
85°	132.0	129.2	198.9	174.4	203.7	183.1	166.5	519.2	*637.3*	609.5	256.4
87.5°	44.0	45.6	88.4	112.9	118.9	103.8	74.1	198.9	*240.6*	238.6	81.2
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: P386955
CATALOG NUMBER: GPC-SA2C-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0
2.5°	1423.2	1410.5	1391.9	1371.2	1355.0	1338.4	1326.1	1319.7	1312.6	1306.6	1313.8
5°	1438.2	1414.4	1374.8	1336.0	1307.4	1282.1	1263.8	1254.3	1245.6	1239.7	1240.5
7.5°	1462.8	1424.4	1357.8	1301.1	1261.5	1234.1	1215.5	1209.2	1203.6	1202.0	1204.0
10°	1489.0	1432.3	1335.2	1259.9	1214.7	1192.1	1183.8	1188.1	1192.1	1195.7	1199.6
12.5°	1518.7	1439.4	1302.3	1211.5	1173.1	1164.4	1172.7	1191.7	1205.6	1213.9	1219.1
15°	1557.5	1445.8	1264.2	1163.2	1137.4	1147.3	1175.5	1208.4	1232.5	1248.0	1250.4
17.5°	1593.2	1445.4	1215.5	1114.4	1108.5	1137.4	1179.8	1226.2	1258.7	1280.5	1284.9
20°	1630.0	1434.7	1158.8	1066.9	1079.2	1126.7	1181.8	1237.7	1276.9	1302.3	1308.2
22.5°	1664.5	1416.0	1096.6	1023.7	1054.6	1112.5	1174.3	1231.0	1270.2	1290.8	1297.1
25°	1687.9	1383.5	1033.6	987.2	1032.8	1095.0	1149.7	1195.3	1224.6	1234.9	1236.5
27.5°	1699.8	1341.1	974.1	955.5	1010.2	1066.5	1104.1	1126.7	1135.0	1134.3	1132.7
30°	1701.4	1285.2	923.0	929.8	984.0	1024.5	1042.3	1037.9	1027.2	1009.0	1010.6
32.5°	1696.2	1222.2	880.2	905.2	950.8	973.3	974.1	953.1	924.6	895.7	887.7
35°	1697.8	1160.4	842.6	877.4	910.3	920.2	911.1	880.2	841.4	804.1	796.2
37.5°	1715.2	1106.5	810.1	845.3	865.5	867.9	854.8	822.4	793.8	757.4	754.2
40°	1756.9	1068.1	779.2	809.3	820.8	822.0	803.3	780.3	782.7	763.3	762.9
42.5°	1831.8	1051.4	751.8	771.6	778.8	781.1	766.9	752.2	772.8	760.1	755.8
45°	1928.5	1055.4	728.8	734.8	747.8	758.9	750.2	732.4	740.3	685.2	667.0
47.5°	2040.2	1080.7	710.6	703.1	725.7	746.7	733.2	706.2	678.1	623.4	613.1
50°	2171.0	1120.0	693.9	671.8	701.5	730.0	716.5	678.1	635.7	609.1	605.6
52.5°	2307.3	1167.9	677.3	637.3	671.0	717.3	710.6	671.8	619.4	593.3	588.5
55°	2461.9	1216.3	656.3	597.2	638.1	711.4	707.8	648.8	607.2	592.5	588.9
57.5°	2654.1	1271.4	628.6	555.6	607.2	690.0	678.9	634.9	594.5	583.4	582.2
60°	2904.6	1352.6	588.5	511.2	569.5	657.1	654.7	614.7	574.3	566.3	564.7
62.5°	3280.3	1487.0	533.4	466.9	527.5	601.2	623.0	587.3	552.9	552.5	553.3
65°	3862.9	1689.1	473.6	428.0	485.1	554.0	586.1	559.2	531.1	539.0	540.2
67.5°	4538.2	1856.7	414.9	390.0	441.9	509.3	552.9	531.1	502.1	522.7	523.1
70°	4762.9	1706.9	363.4	352.3	397.1	466.1	516.8	500.1	470.8	491.4	489.4
72°	*4432.4*	*1378.0*	*330.1*	*323.8*	*363.4*	*430.4*	*484.7*	*471.2*	*442.3*	*456.2*	*451.0*
72.5°	4328.1	1313.8	321.8	316.7	354.3	421.3	476.4	464.1	435.2	447.0	442.3
75°	3860.9	1141.0	276.6	277.8	309.1	376.9	429.6	425.6	395.9	397.1	395.5
77.5°	2800.4	836.6	233.0	241.0	263.2	331.3	382.4	380.1	347.6	341.6	340.4
80°	1299.5	426.8	189.8	193.4	216.4	277.0	326.2	323.0	296.8	289.3	284.9
82.5°	445.1	202.9	142.7	145.1	167.6	223.1	283.0	281.0	259.2	244.5	235.4
85°	158.9	101.1	99.9	97.5	119.7	175.6	246.5	235.8	203.7	173.6	172.8
87.5°	51.5	43.2	51.5	51.1	69.8	118.9	179.1	152.6	147.8	122.9	120.5
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

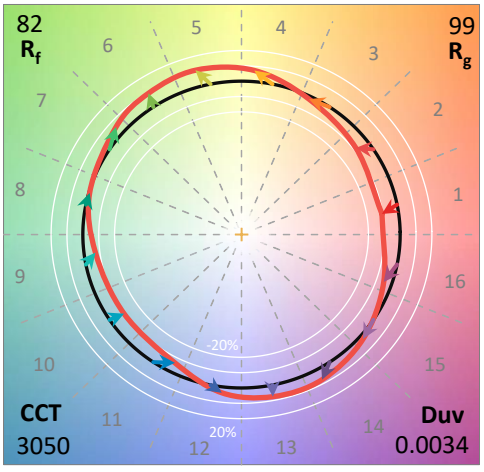
Test Information

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

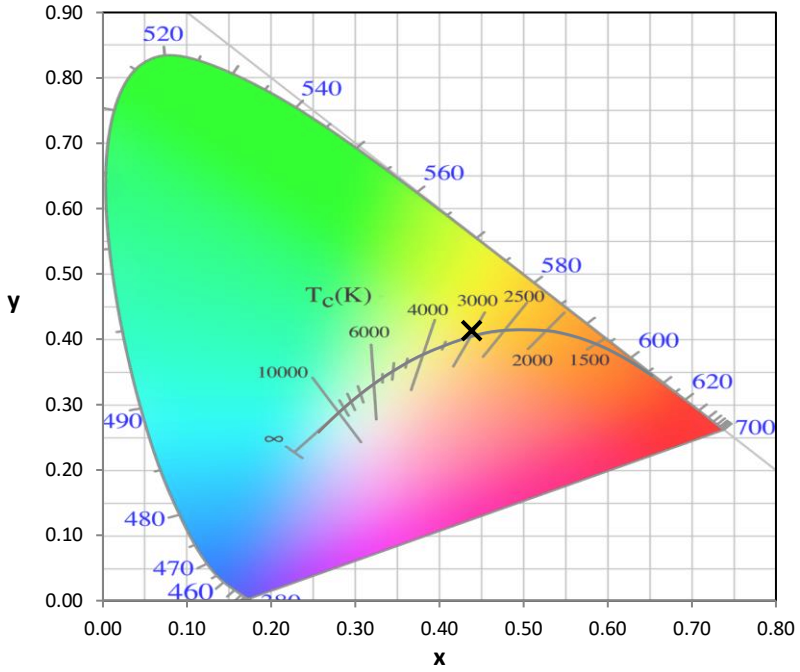
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

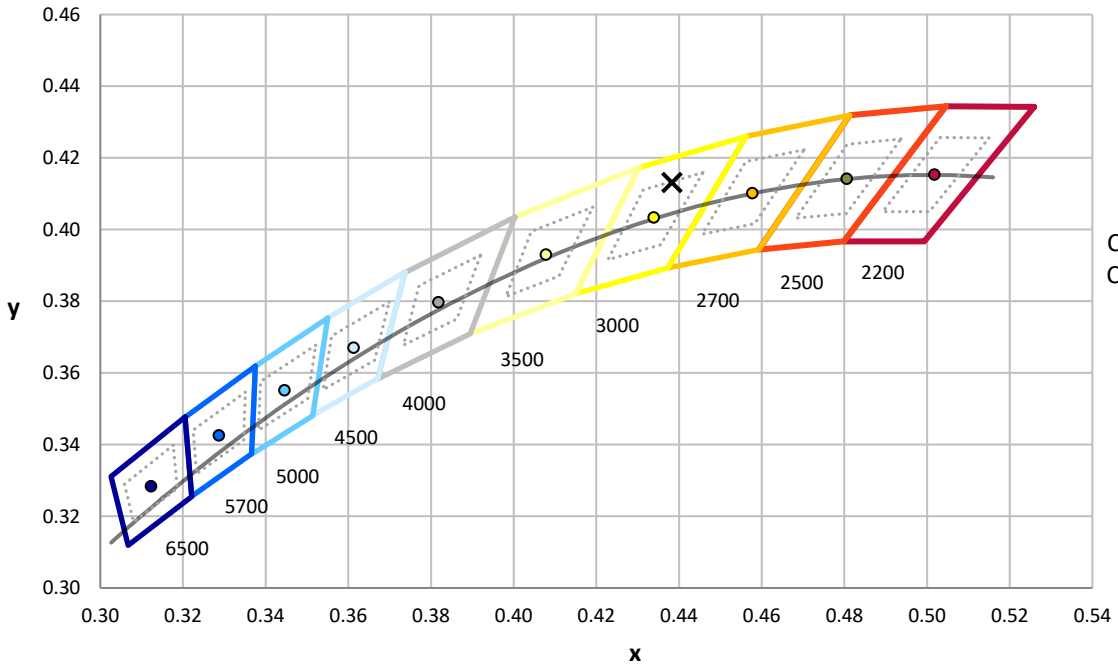
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

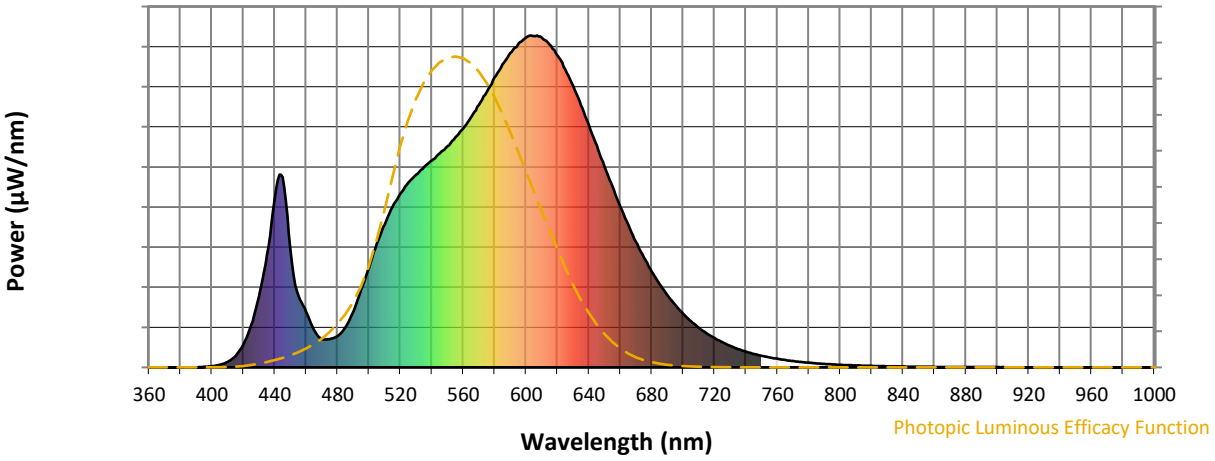


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

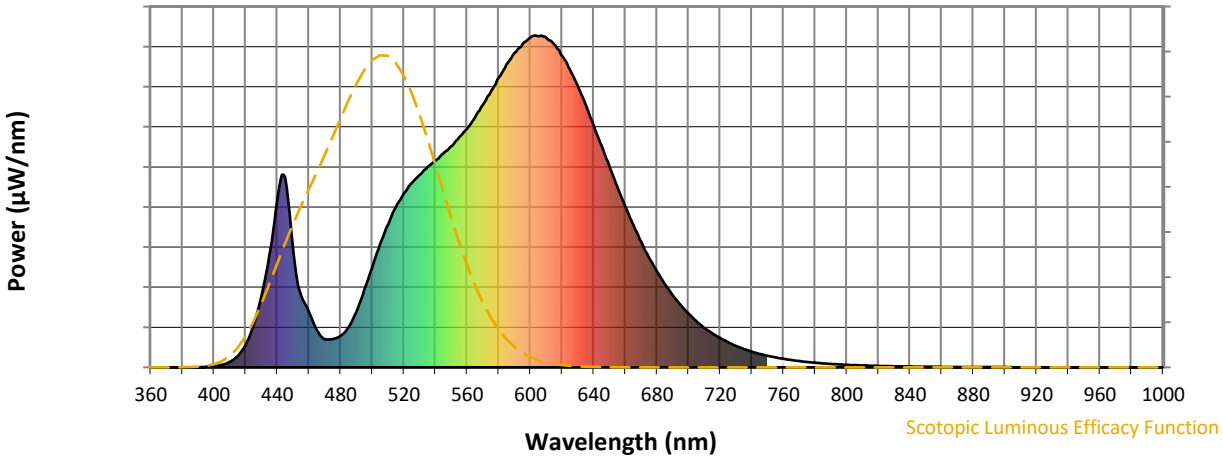


Photopic Lumens: NR

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

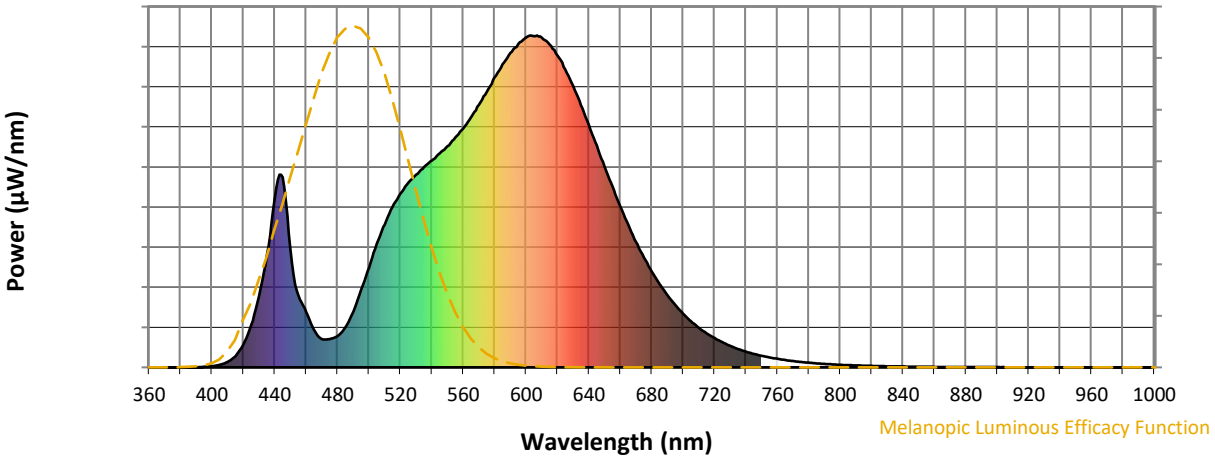


Scotopic Lumens: NR **S/P: 1.27**

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			

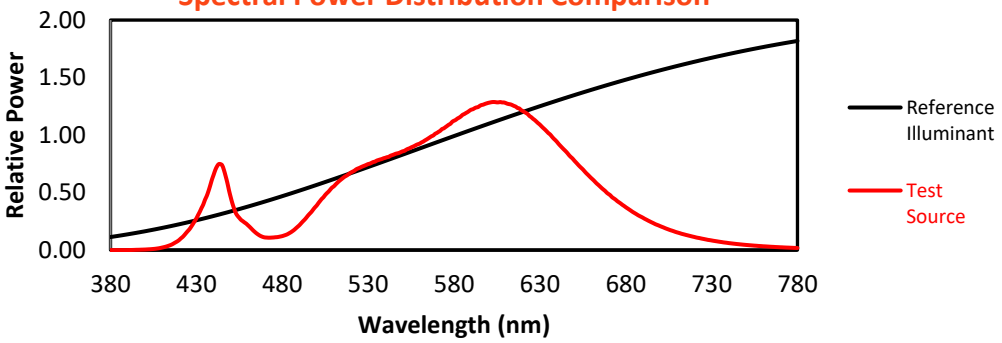
REPORT NUMBER: SP1-2408-195-9

TM-30-18

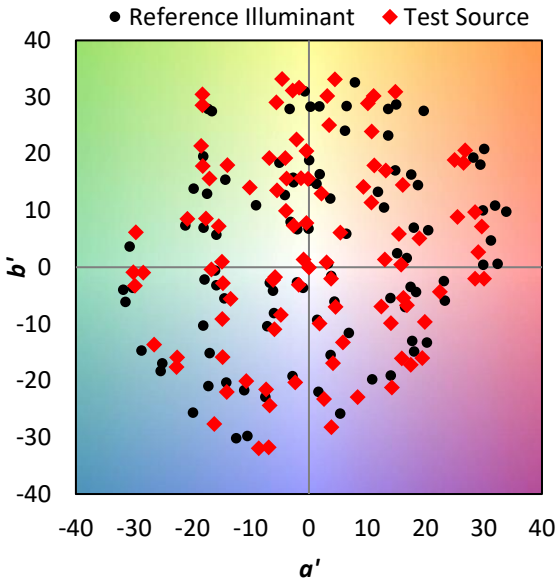
Summary

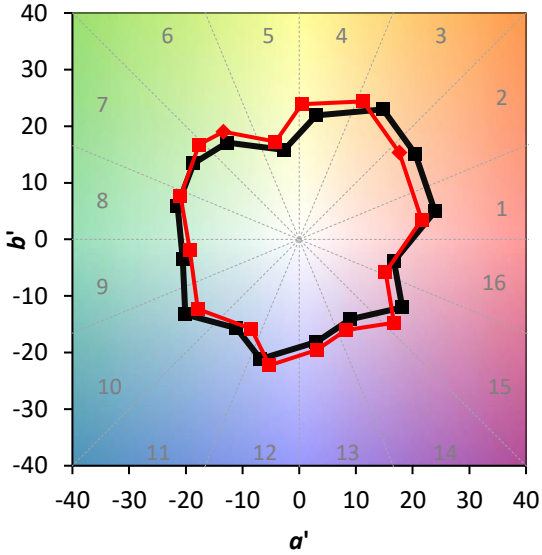
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

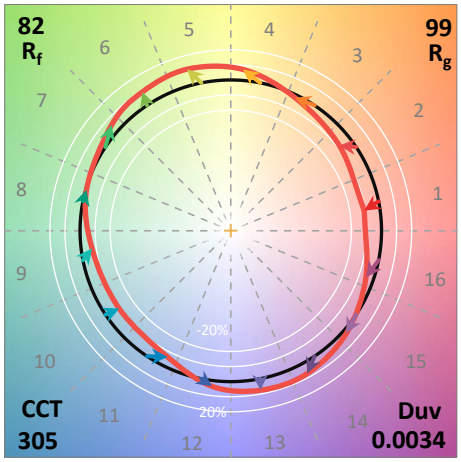
Spectral Power Distribution Comparison

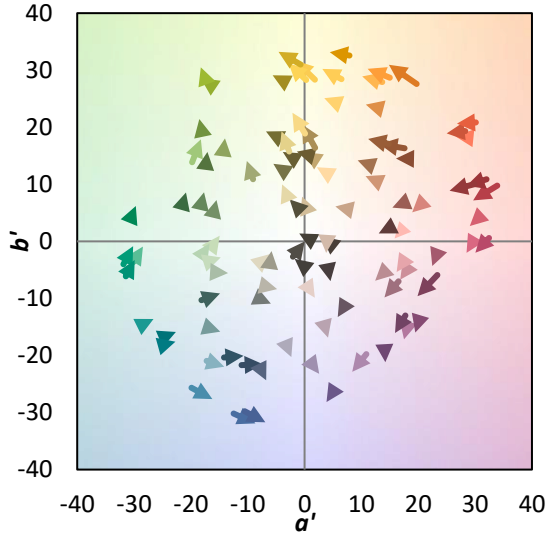


Color Vector Graphics







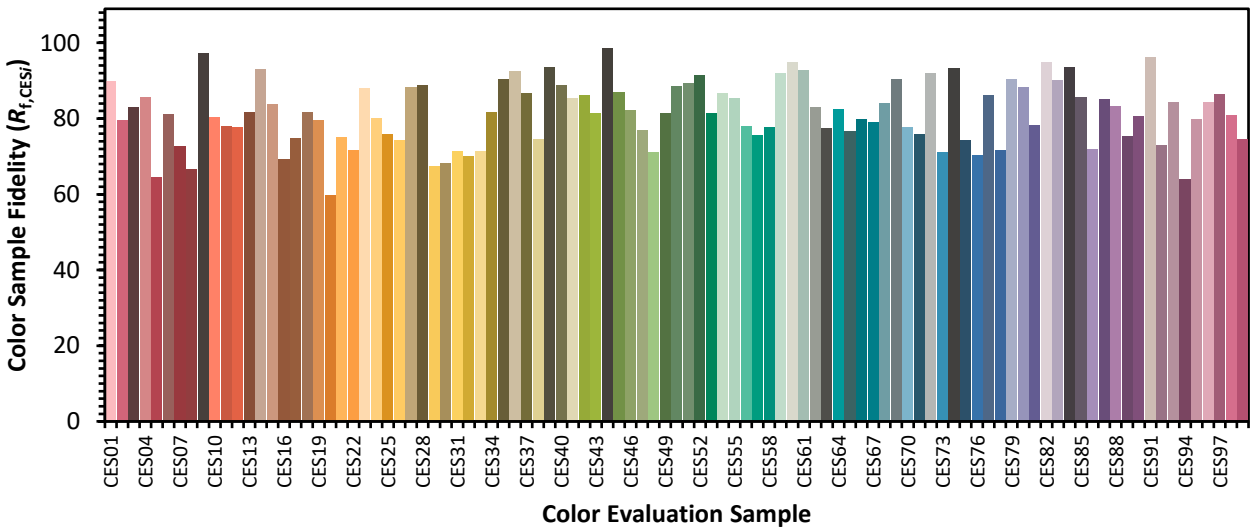


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

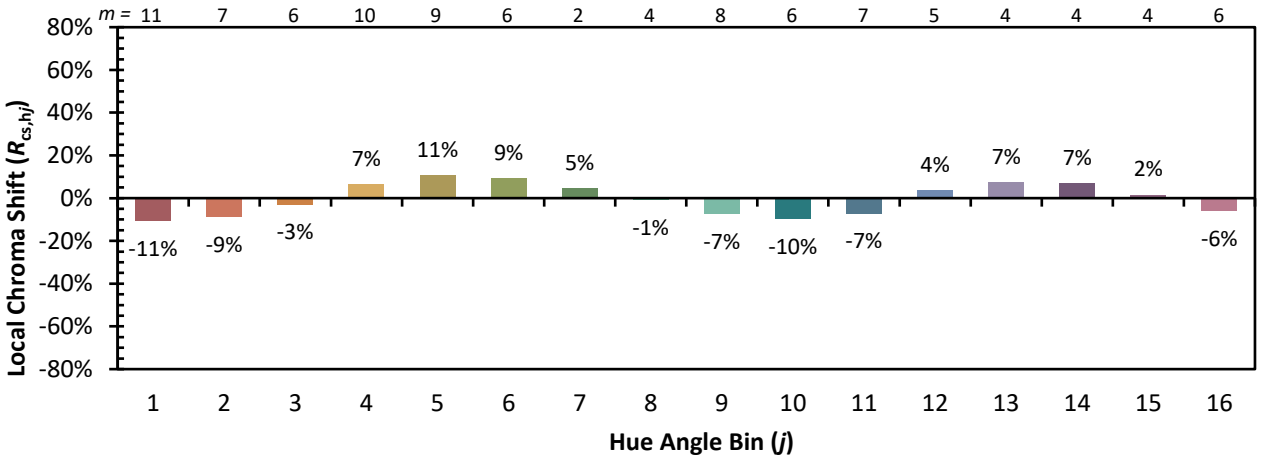
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

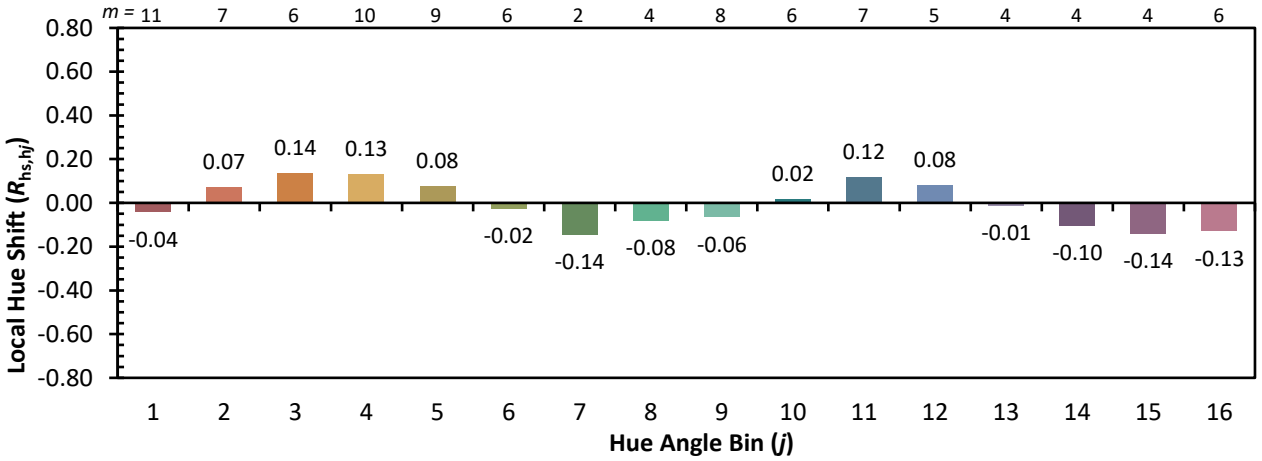


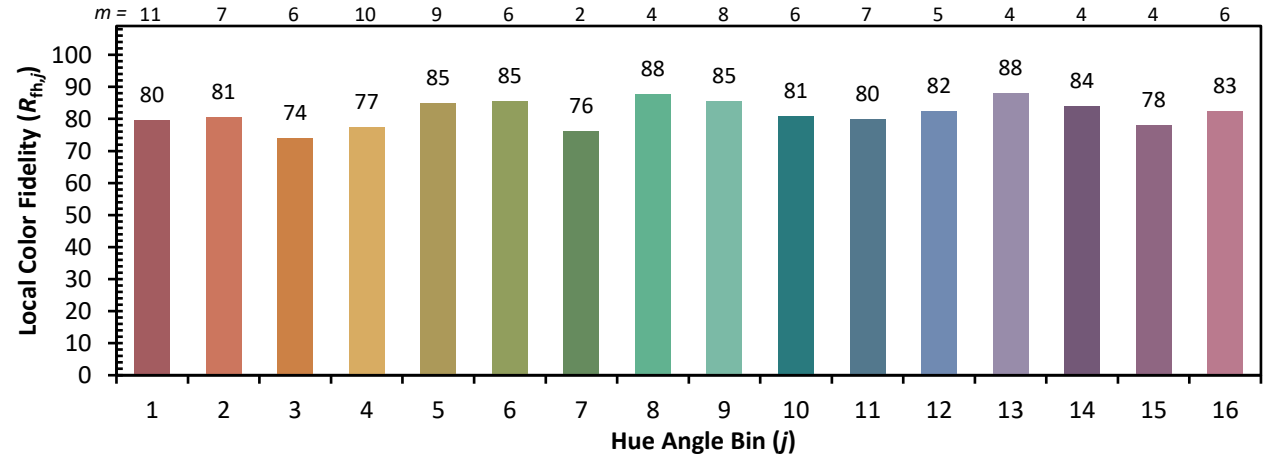
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



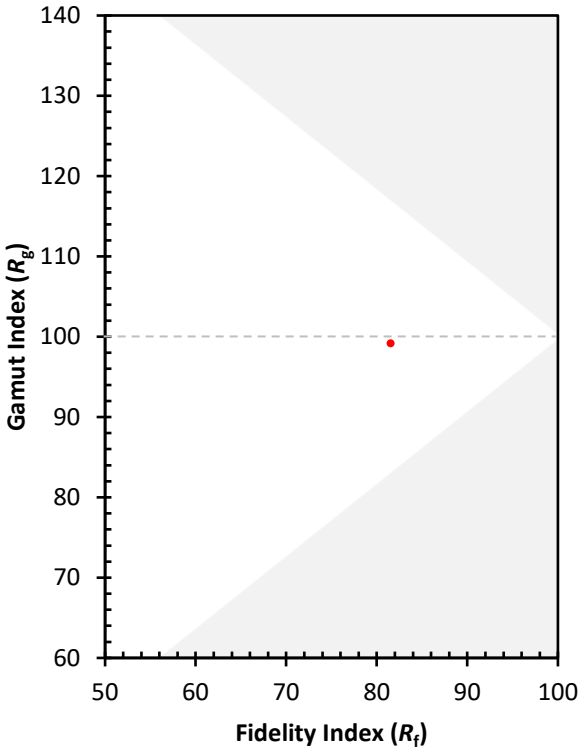


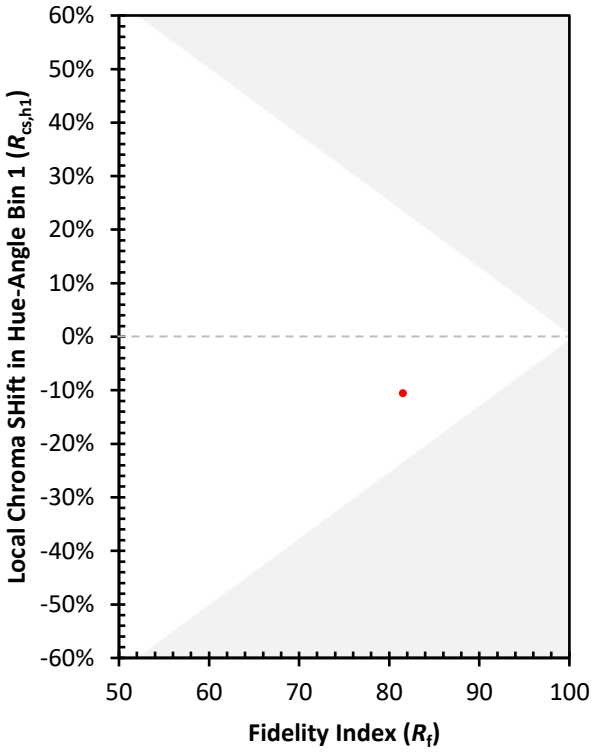


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)