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: P320180

Luminaire Tested: **GLEON-SA6D-830-U-SL4**

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:	P320180
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA6D-830-U-SL4
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	35041 lumens
Efficiency:	N/A
Efficacy:	91.7 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G5

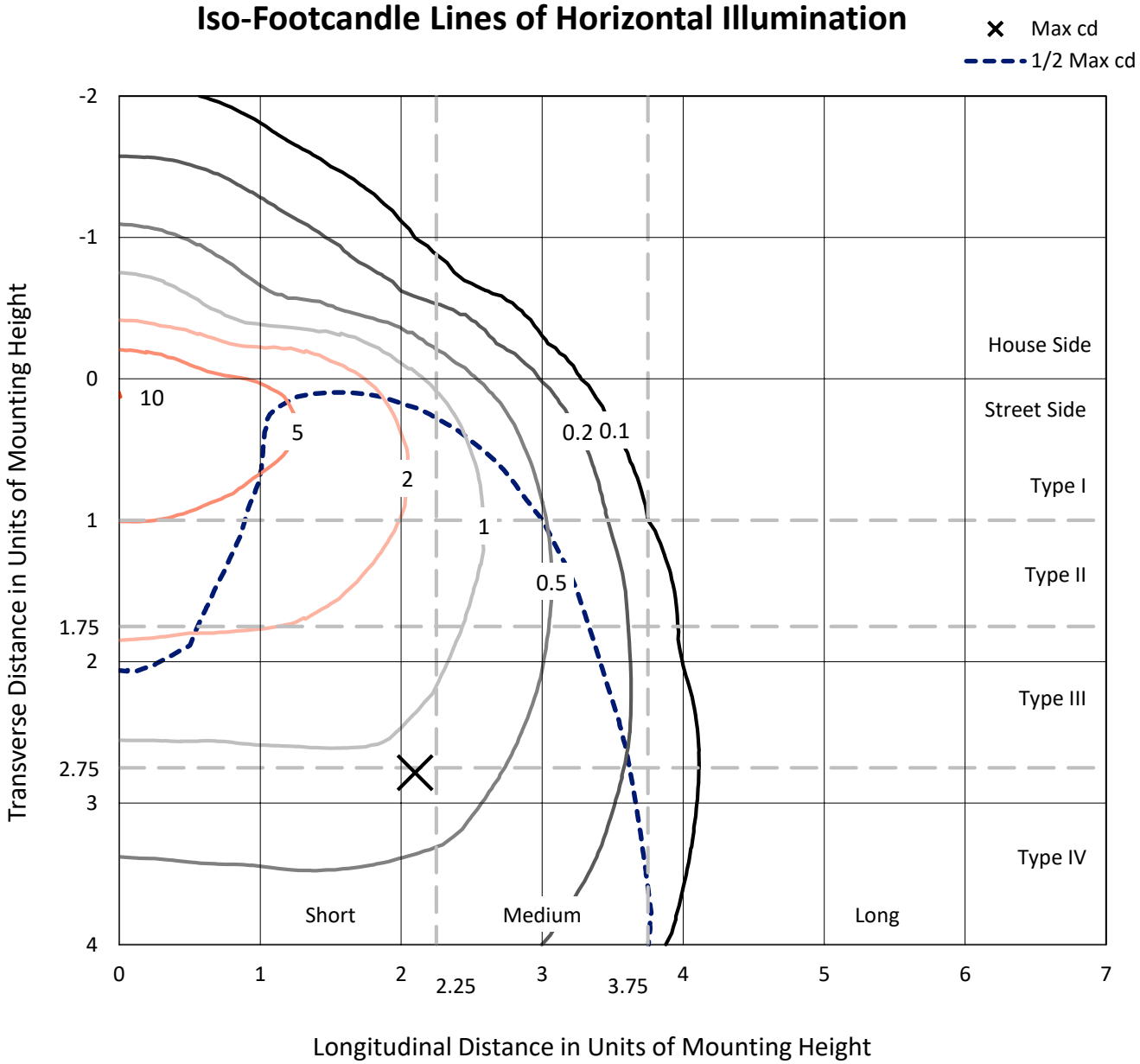
Input Watts (W):	382
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

REPORT NUMBER: P320180
CATALOG NUMBER: GLEON-SA6D-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination



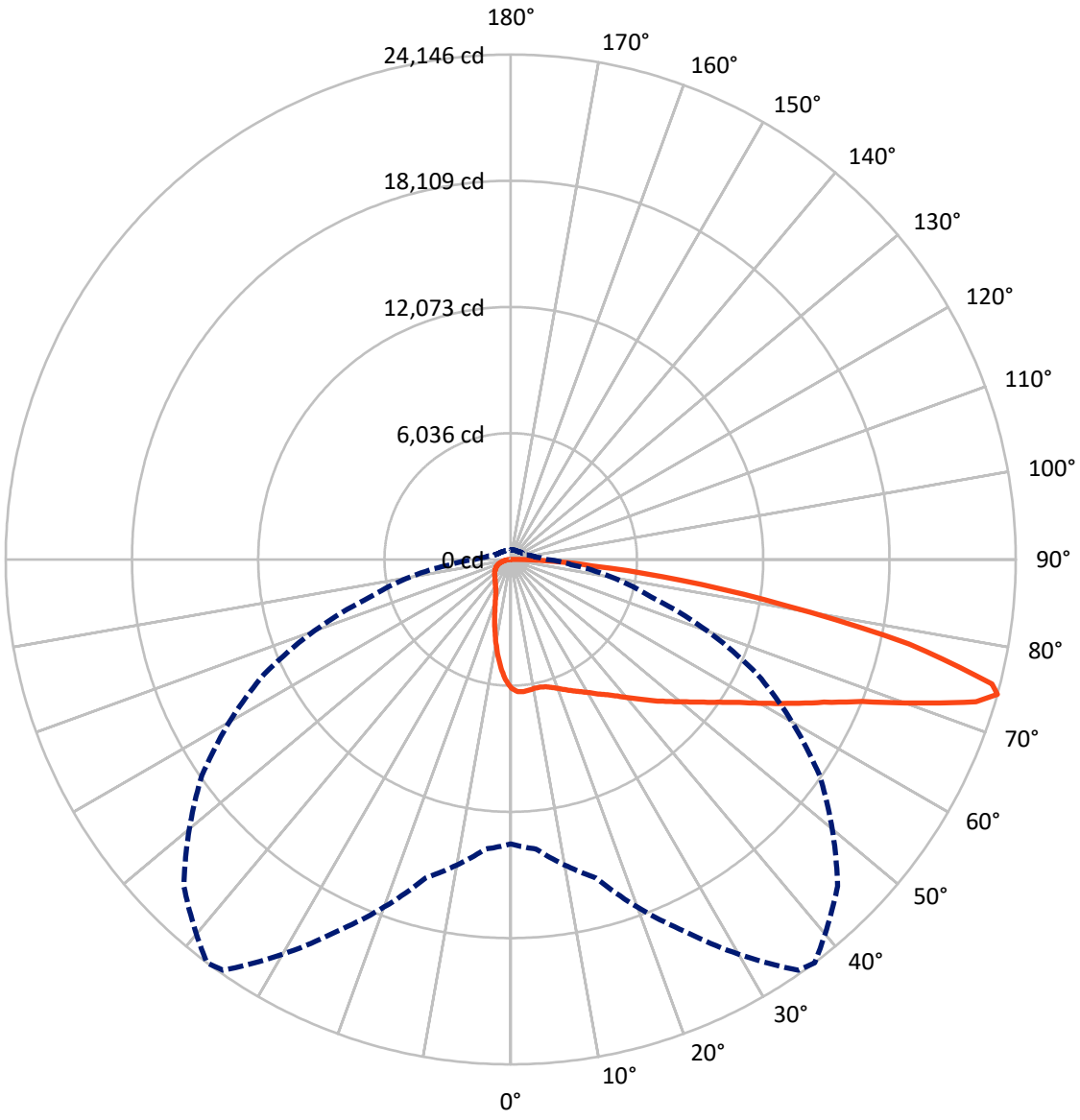
Based on 25 foot mounting height. Maximum calculated value = 10 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P320180
CATALOG NUMBER: GLEON-SA6D-830-U-SL4

Luminous Intensity Polar Plot



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

Scaled Data Report

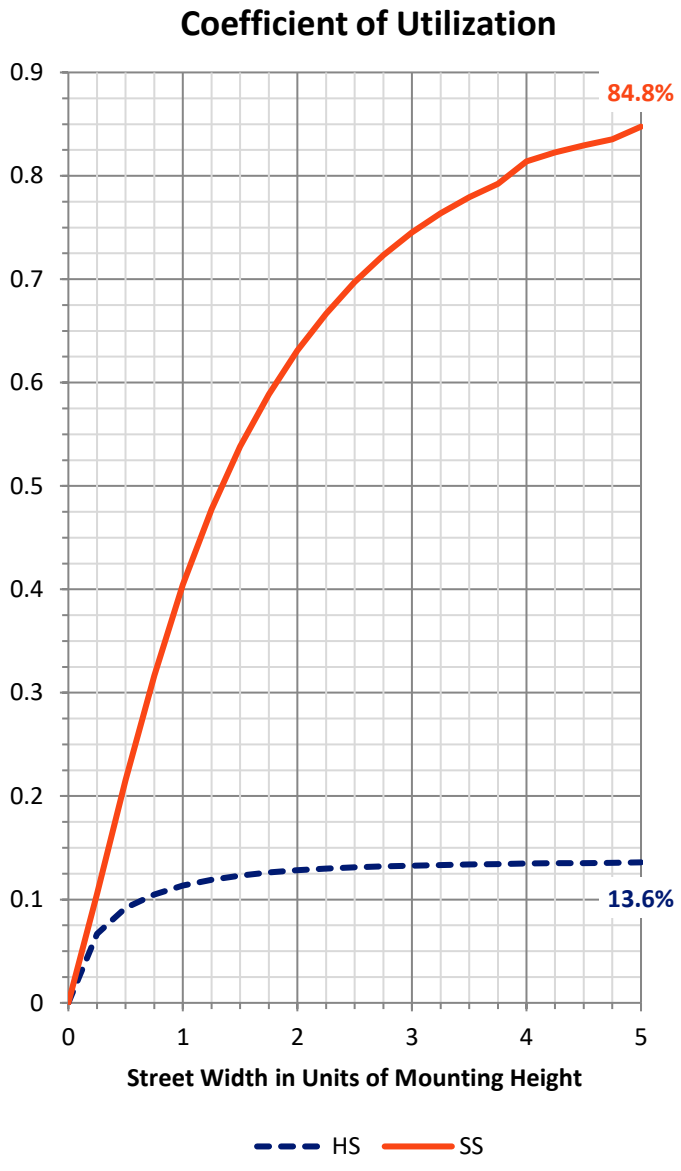
REPORT NUMBER: P320180
CATALOG NUMBER: GLEON-SA6D-830-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4821.4	0.0	4821.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	30219.6	0.0	30219.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	35041.0	0.0	35041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.7	1.6
10°-20°	1393.6	4.0
20°-30°	2147.3	6.1
30°-40°	3122.5	8.9
40°-50°	4595.8	13.1
50°-60°	6454.0	18.4
60°-70°	8168.8	23.3
70°-80°	7192.9	20.5
80°-90°	1422.2	4.1
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°	35041.0	100.0
0°-180°	35041.0	100.0



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

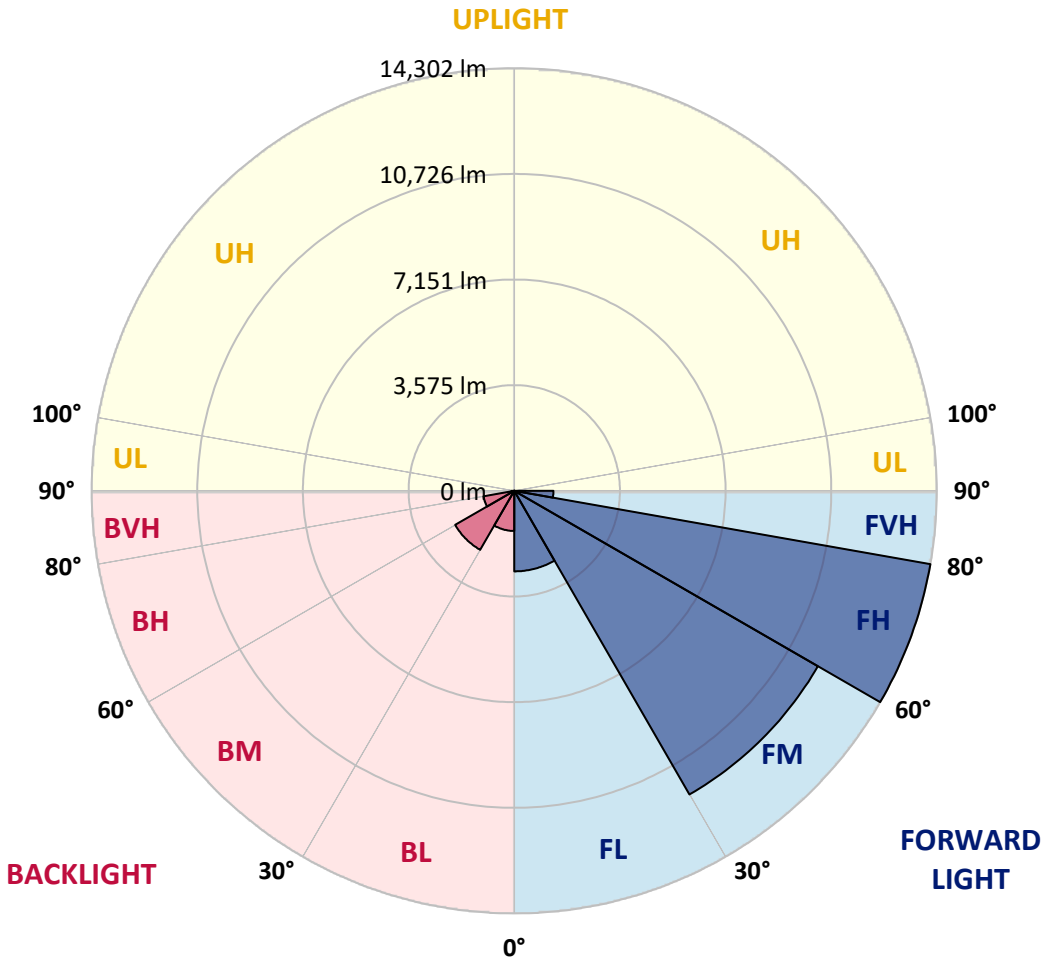
Scaled Data Report

REPORT NUMBER: P320180
CATALOG NUMBER: GLEON-SA6D-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2726.6	7.8			
FM	(30°-60°)	11865.2	33.9			
FH	(60°-80°)	14301.9	40.8			G5
FVH	(80°-90°)	1325.9	3.8			G5
BL	(0°-30°)	1358.1	3.9	B3/2500		
BM	(30°-60°)	2307.2	6.6	B2/2500		
BH	(60°-80°)	1059.8	3.0	B3/2500		G3/2500
BVH	(80°-90°)	96.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P320180
CATALOG NUMBER: GLEON-SA6D-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	6174.1	6174.1	6174.1	6174.1	6174.1	6174.1	6174.1	6174.1	6174.1	6174.1	6174.1
2.5°	6385.2	6386.4	6385.2	6375.3	6351.8	6332.1	6316.0	6292.6	6240.7	6201.2	6142.0
5°	6445.6	6438.2	6433.3	6414.8	6377.8	6355.5	6324.7	6280.2	6195.1	6116.1	6019.8
7.5°	6417.3	6408.6	6397.5	6375.3	6333.3	6314.8	6271.6	6213.6	6111.1	6007.5	5869.2
10°	6329.6	6327.1	6322.2	6317.3	6281.5	6266.7	6227.2	6165.4	6064.2	5938.3	5776.6
12.5°	6232.1	6238.3	6258.0	6283.9	6267.9	6260.5	6235.8	6193.8	6090.2	5954.4	5759.4
15°	6170.4	6187.7	6240.7	6308.6	6322.2	6319.7	6313.6	6286.4	6176.6	6026.0	5798.9
17.5°	6149.4	6177.8	6279.0	6391.3	6430.8	6439.5	6441.9	6395.0	6272.8	6113.6	5839.6
20°	6187.7	6223.5	6371.6	6525.9	6588.8	6593.8	6582.6	6501.2	6364.2	6188.9	5861.8
22.5°	6303.7	6335.8	6520.9	6695.0	6766.6	6774.0	6740.6	6617.2	6460.5	6277.8	5892.7
25°	6527.1	6566.6	6751.8	6925.8	6962.8	6964.1	6915.9	6762.9	6586.4	6402.4	5959.3
27.5°	6818.4	6857.9	7024.5	7194.9	7175.1	7164.0	7098.6	6945.5	6750.5	6574.0	6077.8
30°	7143.0	7186.2	7344.2	7465.2	7418.3	7396.1	7343.0	7145.5	6978.9	6808.5	6259.3
32.5°	7478.8	7518.3	7656.5	7739.2	7680.0	7670.1	7589.9	7409.6	7276.3	7166.5	6553.0
35°	7823.1	7851.5	7987.3	8034.2	7955.2	7952.7	7930.5	7765.1	7681.2	7733.0	6980.1
37.5°	8174.9	8182.3	8298.4	8300.8	8277.4	8287.3	8310.7	8207.0	8230.5	8392.2	7535.5
40°	8488.4	8508.2	8592.1	8618.0	8658.8	8693.3	8810.6	8742.7	8924.2	9210.5	8226.8
42.5°	8720.5	8758.8	8893.3	8960.0	9092.0	9146.3	9311.7	9374.7	9740.1	10169.6	9048.8
45°	8916.8	8976.0	9192.0	9329.0	9552.4	9647.5	9884.5	10095.5	10662.1	11210.1	9914.1
47.5°	9129.1	9204.4	9474.7	9736.3	10040.0	10147.4	10578.2	10894.1	11645.8	12256.8	10730.0
50°	9441.3	9499.4	9763.5	10174.5	10553.5	10691.7	11287.9	11740.9	12645.6	13254.2	11437.2
52.5°	9877.1	9854.8	10078.3	10654.7	11163.2	11333.6	12045.8	12641.9	13659.0	14156.5	12034.7
55°	10315.2	10278.2	10435.0	11157.1	11874.2	12053.2	12880.2	13546.7	14623.0	14968.6	12492.6
57.5°	10802.8	10732.4	10864.5	11723.6	12683.9	12897.5	13814.6	14508.2	15571.0	15625.3	12783.9
60°	11305.2	11210.1	11358.2	12425.9	13712.1	13963.9	14908.2	15446.3	16464.6	16151.1	12877.7
62.5°	11744.6	11677.9	11906.3	13209.7	14871.1	15147.6	15982.0	16443.7	17346.0	16369.6	12539.5
65°	12128.5	12139.6	12534.6	14091.0	16163.5	16458.5	17213.9	17673.1	18039.6	16240.0	11748.3
67.5°	12586.4	12649.4	13323.3	15251.3	17790.3	18113.7	19006.1	19013.5	18427.2	15479.7	10190.6
70°	13254.2	13383.8	14408.3	16860.9	20103.4	20547.8	21236.5	19801.0	17882.9	13418.3	8018.2
72.5°	13846.6	14088.6	15562.4	18702.5	22922.6	23259.6	22541.2	19346.8	15608.0	10056.0	4995.3
74°	13606.0	13905.9	15772.2	19609.7	23984.1	24145.8	22100.6	18021.1	13013.5	6964.1	2903.1
75°	13087.5	13413.4	15466.1	19601.1	23849.6	23759.5	21036.6	16506.6	10717.6	4749.7	1931.7
77.5°	10562.1	10906.5	13032.0	16799.1	19555.4	19470.2	16159.8	11073.1	4694.1	1557.7	981.3
80°	6140.8	6403.7	8089.8	10668.3	13186.3	13340.6	10627.5	5479.2	1846.5	875.1	665.3
82.5°	2727.9	2909.3	3907.9	5445.8	7957.7	8156.4	5565.6	2871.0	1140.5	532.0	399.9
85°	1789.8	1924.3	2372.4	2593.3	3789.4	3925.2	2724.2	2235.4	752.9	292.5	293.8
87.5°	1287.4	1417.0	1762.6	1539.2	1739.2	1646.6	1482.4	2068.7	302.4	166.6	98.7
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: P320180
CATALOG NUMBER: GLEON-SA6D-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6174.1	6174.1	6174.1	6174.1	6174.1	6174.1	6174.1	6174.1	6174.1	6174.1	6174.1
2.5°	6116.1	6096.3	6051.9	5968.0	5921.1	5881.6	5816.1	5777.9	5760.6	5759.4	5766.8
5°	5964.3	5918.6	5803.8	5663.1	5550.8	5448.3	5321.2	5244.6	5190.3	5158.2	5166.9
7.5°	5787.7	5716.2	5535.9	5311.3	5131.1	4932.4	4736.1	4618.8	4527.5	4459.6	4472.0
10°	5666.8	5568.0	5305.1	4981.7	4681.8	4393.0	4122.6	3960.9	3832.6	3733.8	3741.2
12.5°	5626.0	5492.7	5128.6	4696.6	4275.7	3880.7	3527.7	3279.6	3147.5	3035.2	3043.8
15°	5632.2	5453.2	4980.5	4439.9	3910.3	3412.9	2984.6	2694.5	2515.6	2437.8	2439.0
17.5°	5637.2	5407.6	4825.0	4164.6	3548.7	2976.0	2510.6	2216.8	2047.7	1976.2	1977.4
20°	5621.1	5333.5	4632.4	3848.6	3171.0	2574.8	2124.3	1874.9	1746.6	1691.0	1691.0
22.5°	5600.1	5245.9	4415.2	3531.4	2798.2	2226.7	1847.8	1657.7	1583.6	1546.6	1545.4
25°	5610.0	5180.5	4193.0	3205.5	2455.1	1949.0	1663.9	1538.0	1488.6	1465.1	1463.9
27.5°	5663.1	5149.6	3988.1	2880.9	2155.1	1740.4	1540.4	1451.6	1419.5	1404.7	1404.7
30°	5759.4	5149.6	3774.6	2604.4	1905.8	1586.1	1445.4	1384.9	1362.7	1352.8	1352.8
32.5°	5927.2	5178.0	3568.4	2330.4	1707.1	1465.1	1366.4	1325.7	1308.4	1303.4	1303.4
35°	6216.1	5274.3	3367.2	2071.2	1546.6	1366.4	1291.1	1267.7	1255.3	1254.1	1257.8
37.5°	6622.1	5470.5	3178.4	1879.9	1433.1	1286.2	1228.2	1209.6	1202.2	1208.4	1213.3
40°	7133.2	5737.1	3006.8	1707.1	1346.6	1222.0	1170.1	1157.8	1154.1	1162.7	1170.1
42.5°	7750.3	6097.6	2866.1	1582.4	1280.0	1167.7	1120.8	1106.0	1102.3	1112.1	1122.0
45°	8418.1	6485.1	2767.4	1489.8	1228.2	1126.9	1077.6	1061.5	1054.1	1059.0	1070.2
47.5°	9025.4	6851.7	2727.9	1424.4	1178.8	1092.4	1039.3	1019.6	1007.2	1004.7	1013.4
50°	9537.6	7124.5	2746.4	1384.9	1139.3	1054.1	1002.3	980.1	961.5	950.4	956.6
52.5°	9910.4	7296.1	2763.7	1367.6	1108.4	1012.1	961.5	940.6	915.9	897.4	897.4
55°	10180.7	7335.6	2725.4	1354.1	1085.0	966.5	915.9	896.1	871.4	850.4	848.0
57.5°	10286.9	7224.5	2583.4	1334.3	1068.9	923.3	867.7	852.9	831.9	807.2	806.0
60°	10143.7	6881.4	2309.4	1292.3	1047.9	887.5	819.6	809.7	799.8	776.4	775.2
62.5°	9568.5	6128.4	1955.2	1207.2	1006.0	849.2	775.2	780.1	781.3	765.3	762.8
65°	8525.5	5094.1	1609.6	1096.1	943.0	803.5	729.5	752.9	766.5	764.0	760.3
67.5°	7009.7	3964.6	1363.9	978.8	860.3	740.6	680.1	707.3	718.4	727.0	724.5
70°	5202.7	2795.7	1128.2	855.4	760.3	666.5	615.9	629.5	622.1	632.0	635.7
72.5°	2900.7	1677.4	919.6	732.0	656.7	580.1	544.3	541.9	525.8	525.8	525.8
74°	*1740.4*	*1230.6*	*808.5*	*655.4*	*593.7*	*523.4*	*492.5*	*481.4*	*466.6*	*467.8*	*466.6*
75°	1399.7	1057.8	741.8	604.8	549.3	490.0	459.2	444.4	433.2	433.2	432.0
77.5°	883.8	803.5	597.4	481.4	439.4	403.6	382.6	362.9	362.9	361.7	360.4
80°	667.8	639.4	465.3	364.1	337.0	309.8	296.2	287.6	287.6	291.3	290.1
82.5°	457.9	481.4	327.1	254.3	240.7	220.9	218.5	219.7	216.0	211.1	209.8
85°	334.5	361.7	220.9	160.5	146.9	134.5	144.4	149.4	143.2	132.1	127.1
87.5°	128.4	237.0	118.5	66.7	61.7	53.1	61.7	64.2	69.1	54.3	55.5
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

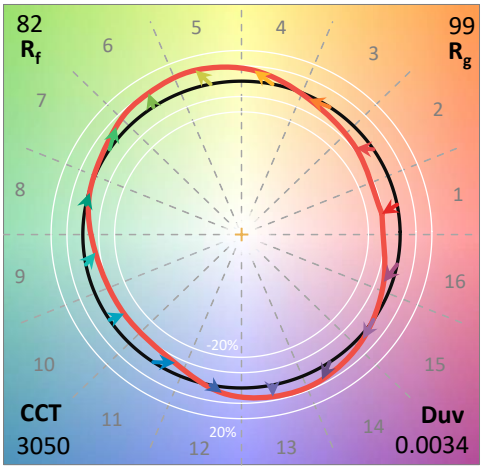
Test Information

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

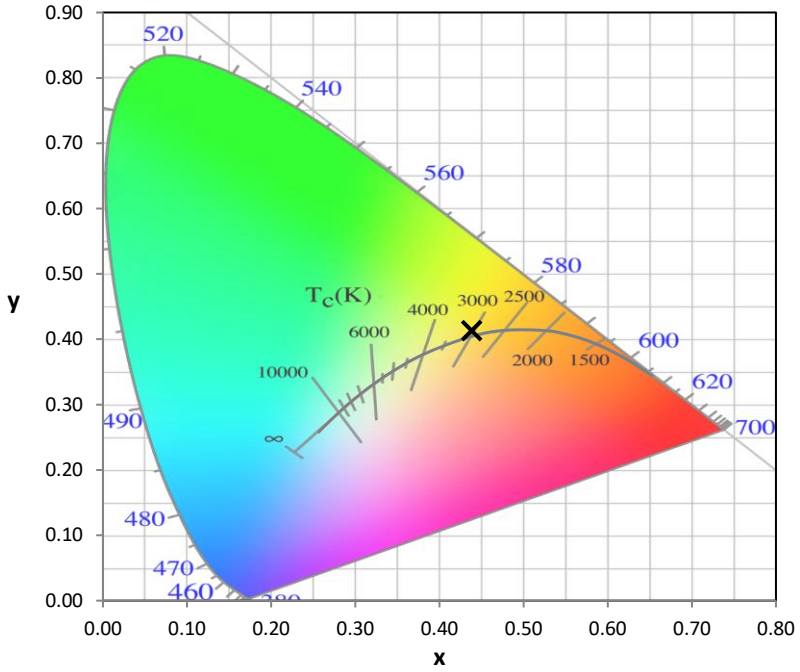
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

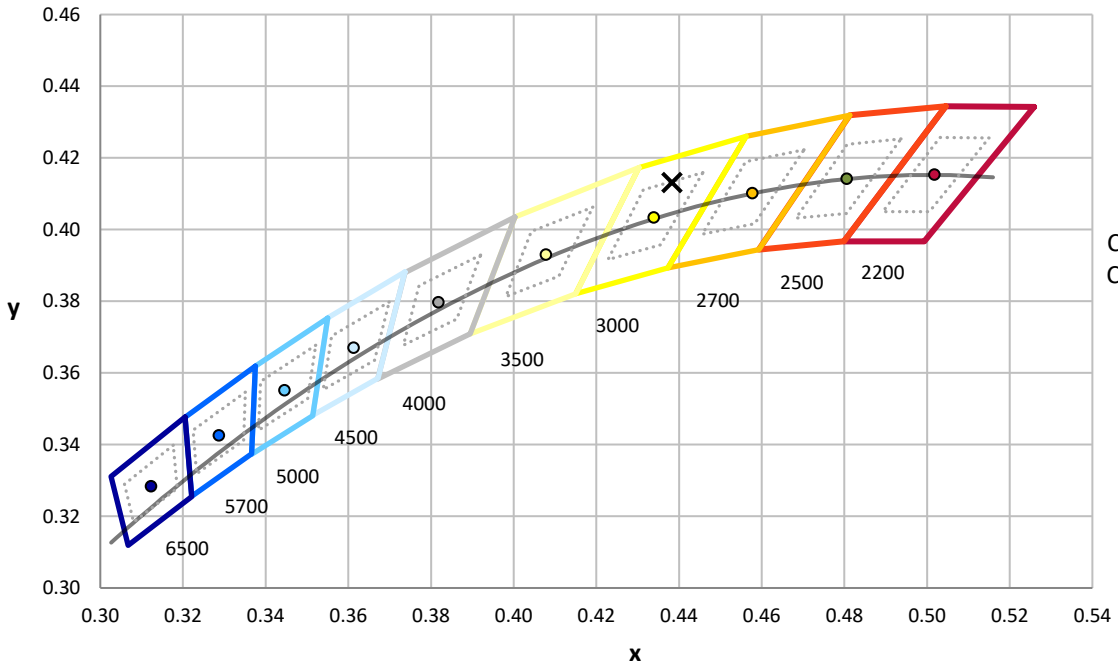
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

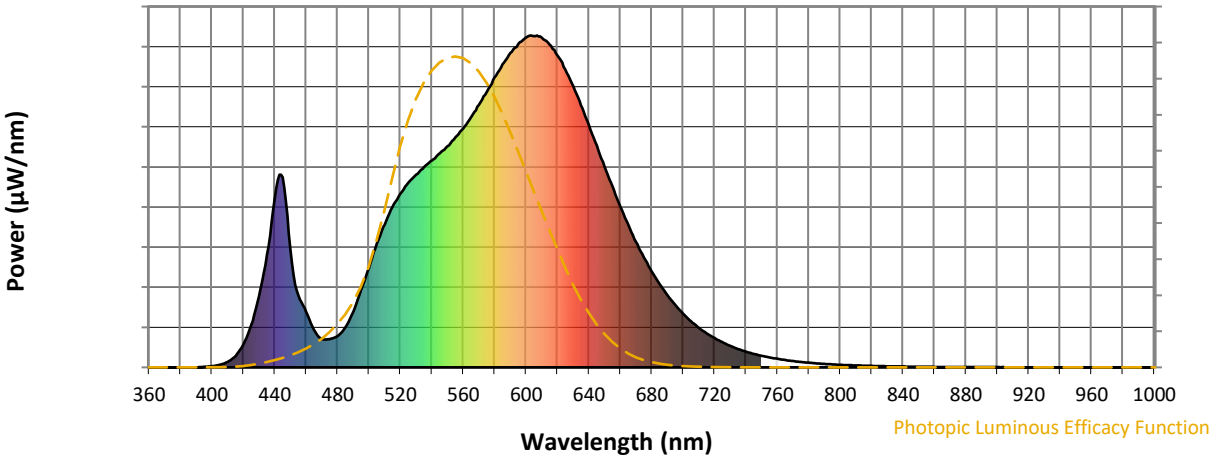


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

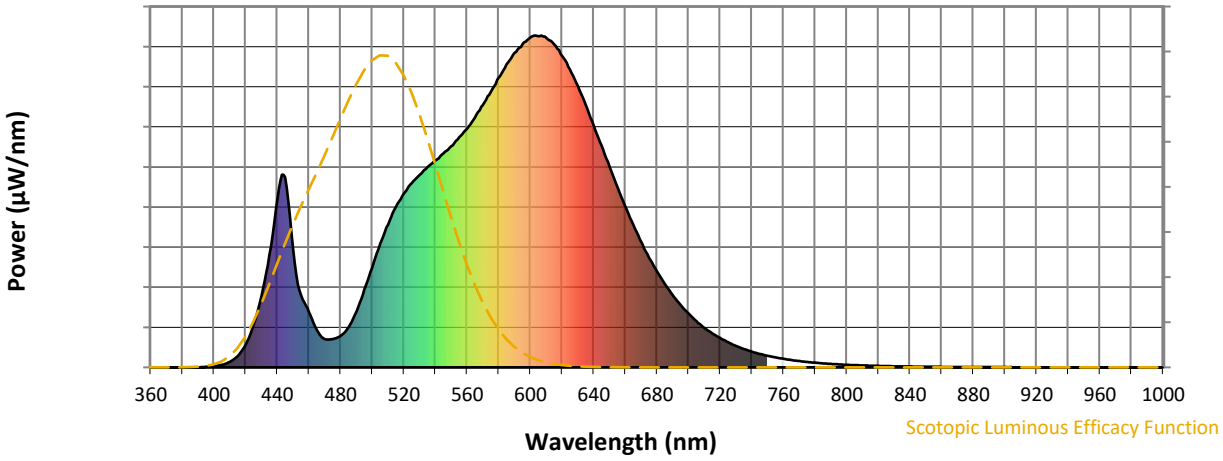


Photopic Lumens: NR

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

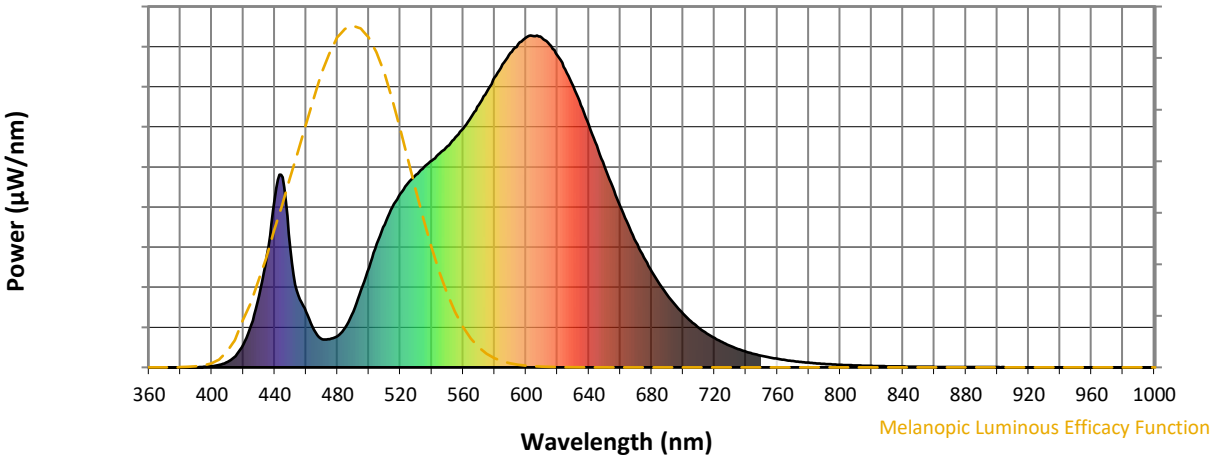


Scotopic Lumens: NR **S/P: 1.27**

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			

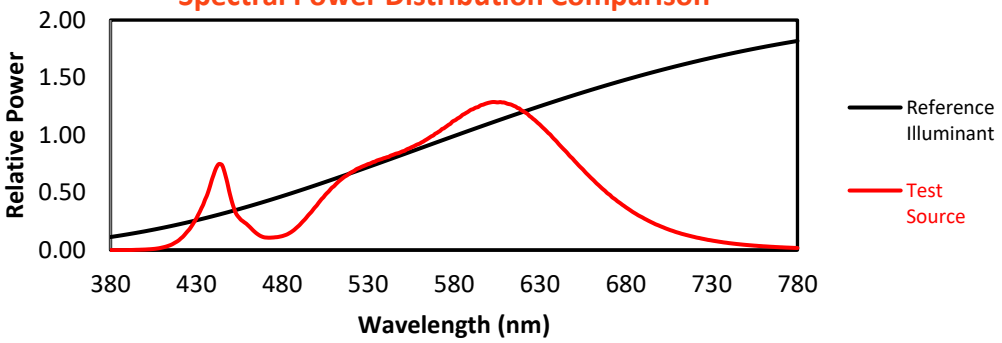
REPORT NUMBER: SP1-2408-195-9

TM-30-18

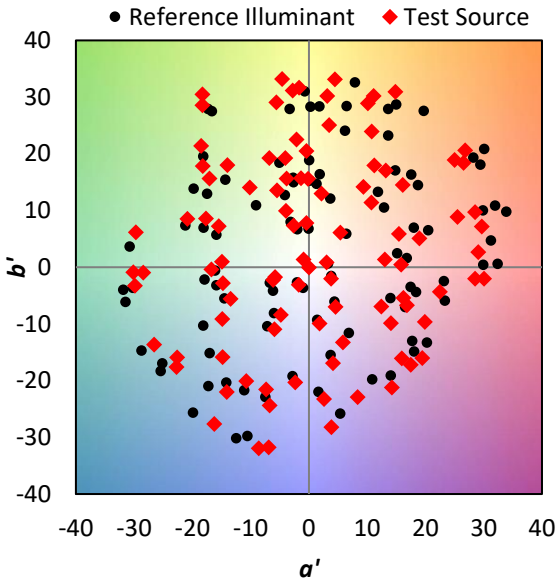
Summary

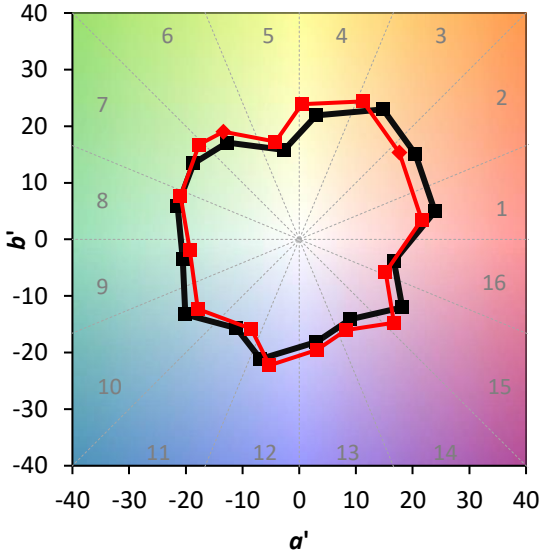
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

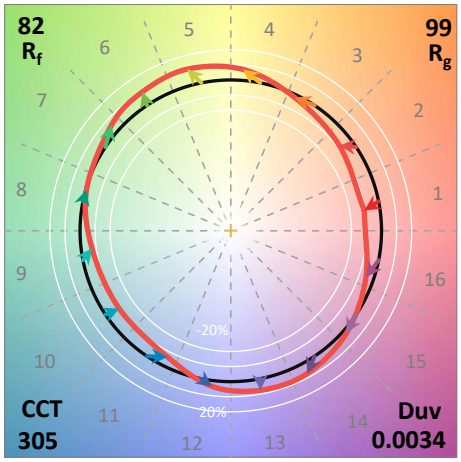
Spectral Power Distribution Comparison

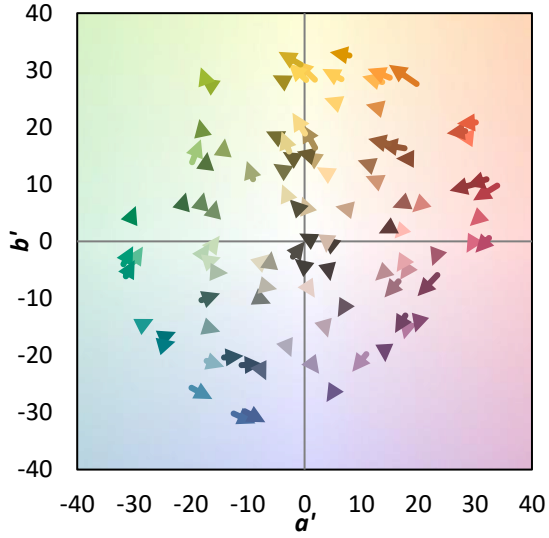


Color Vector Graphics







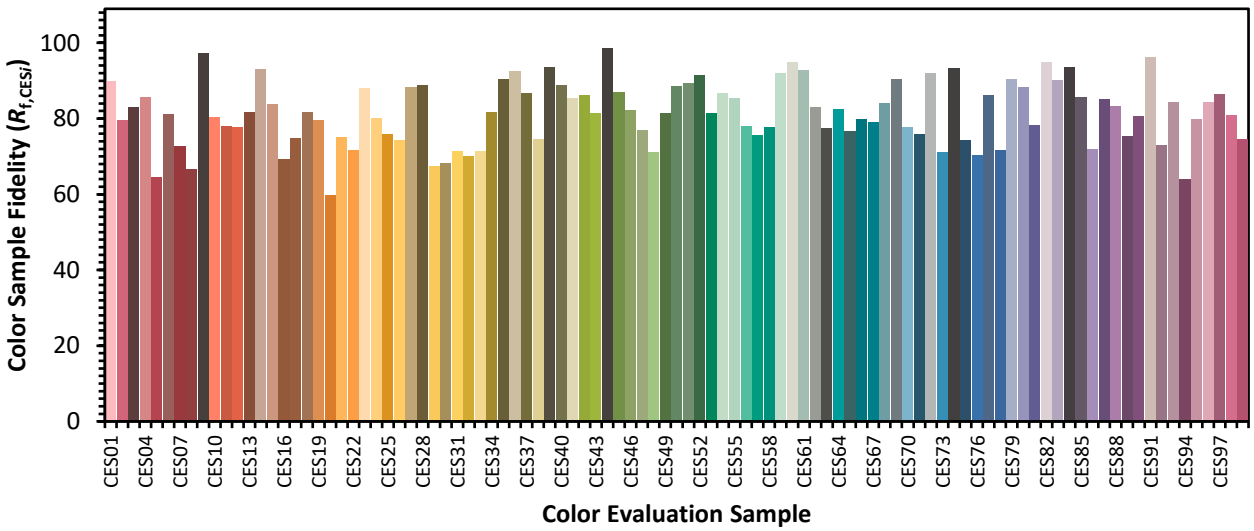


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

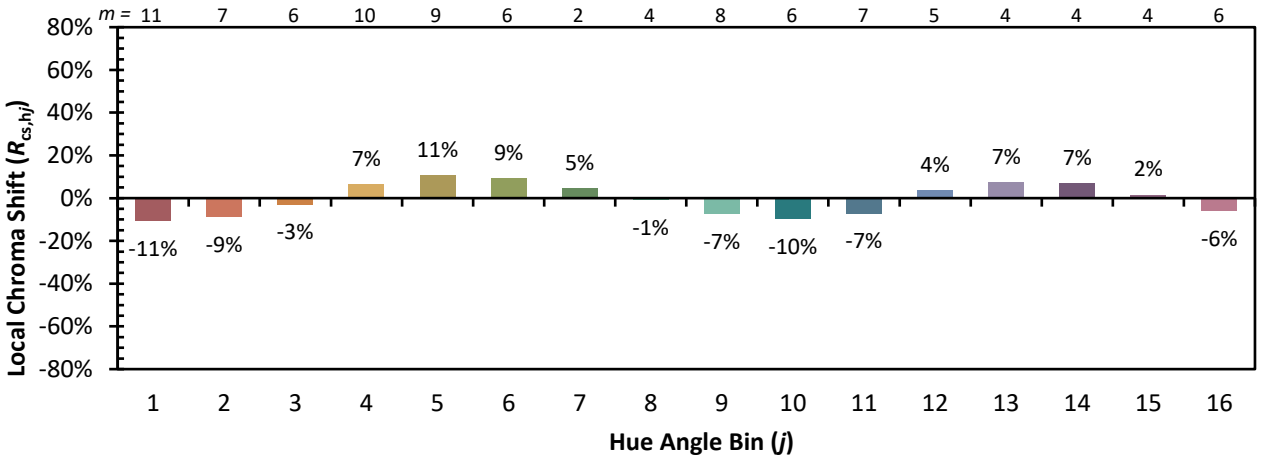
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

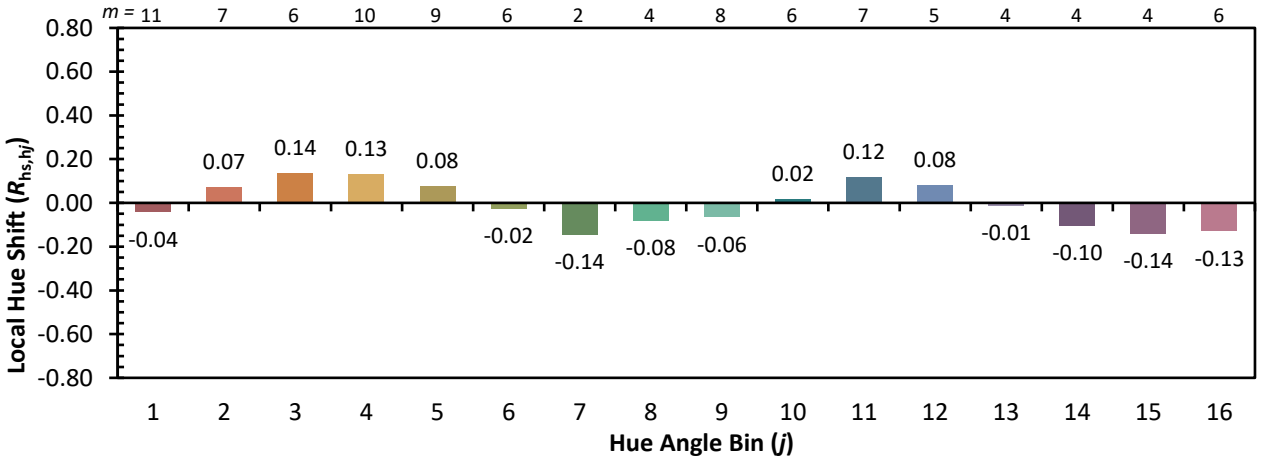


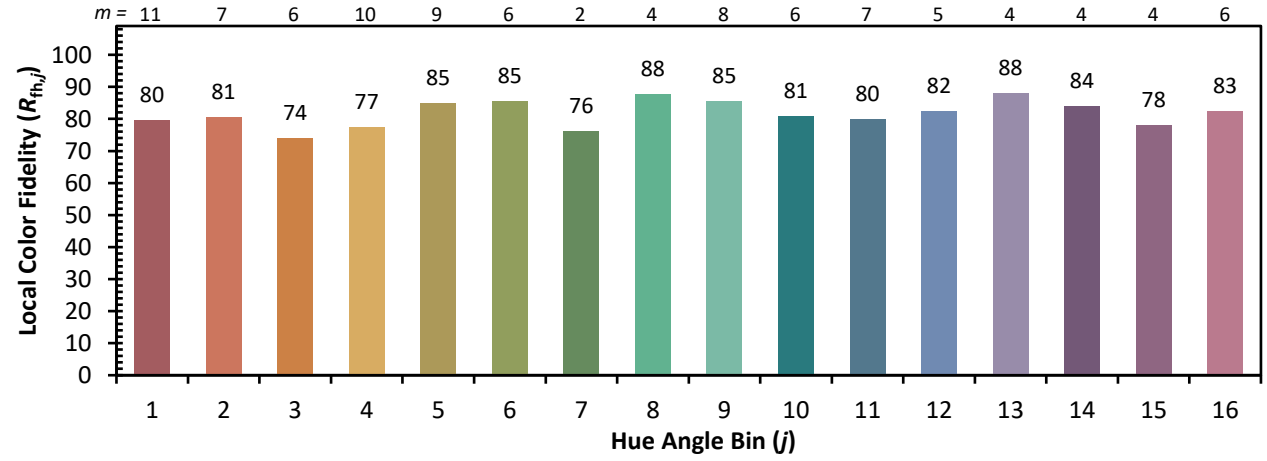
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



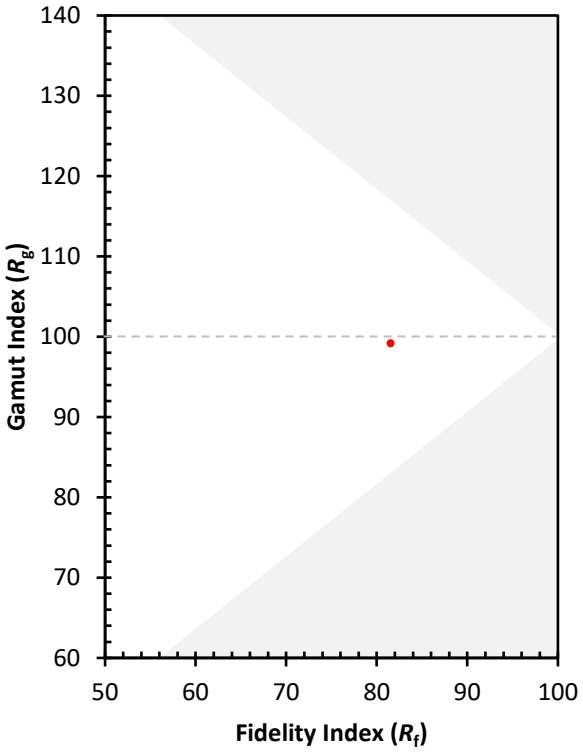


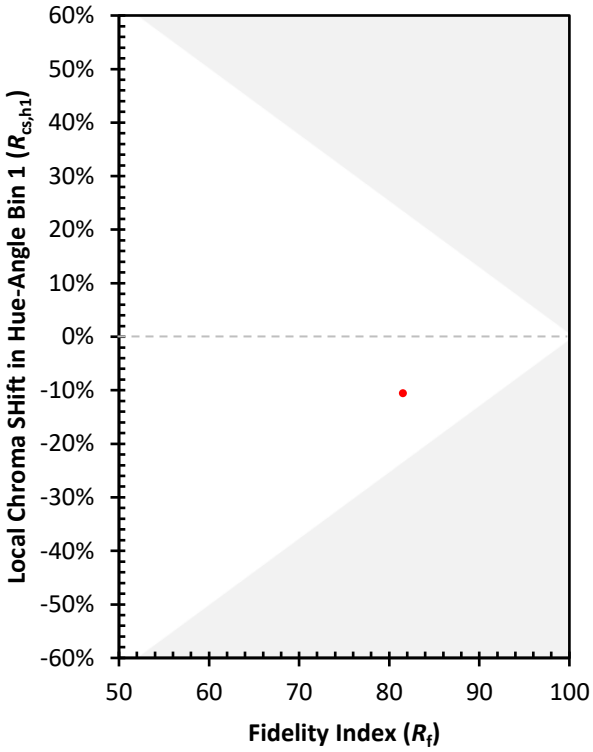


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)