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: P322074

Luminaire Tested: **GLEON-SA0A-830-U-T2-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:	P322074
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA0A-830-U-T2-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	26075 lumens
Efficiency:	N/A
Efficacy:	80.7 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B2 - U0 - G4

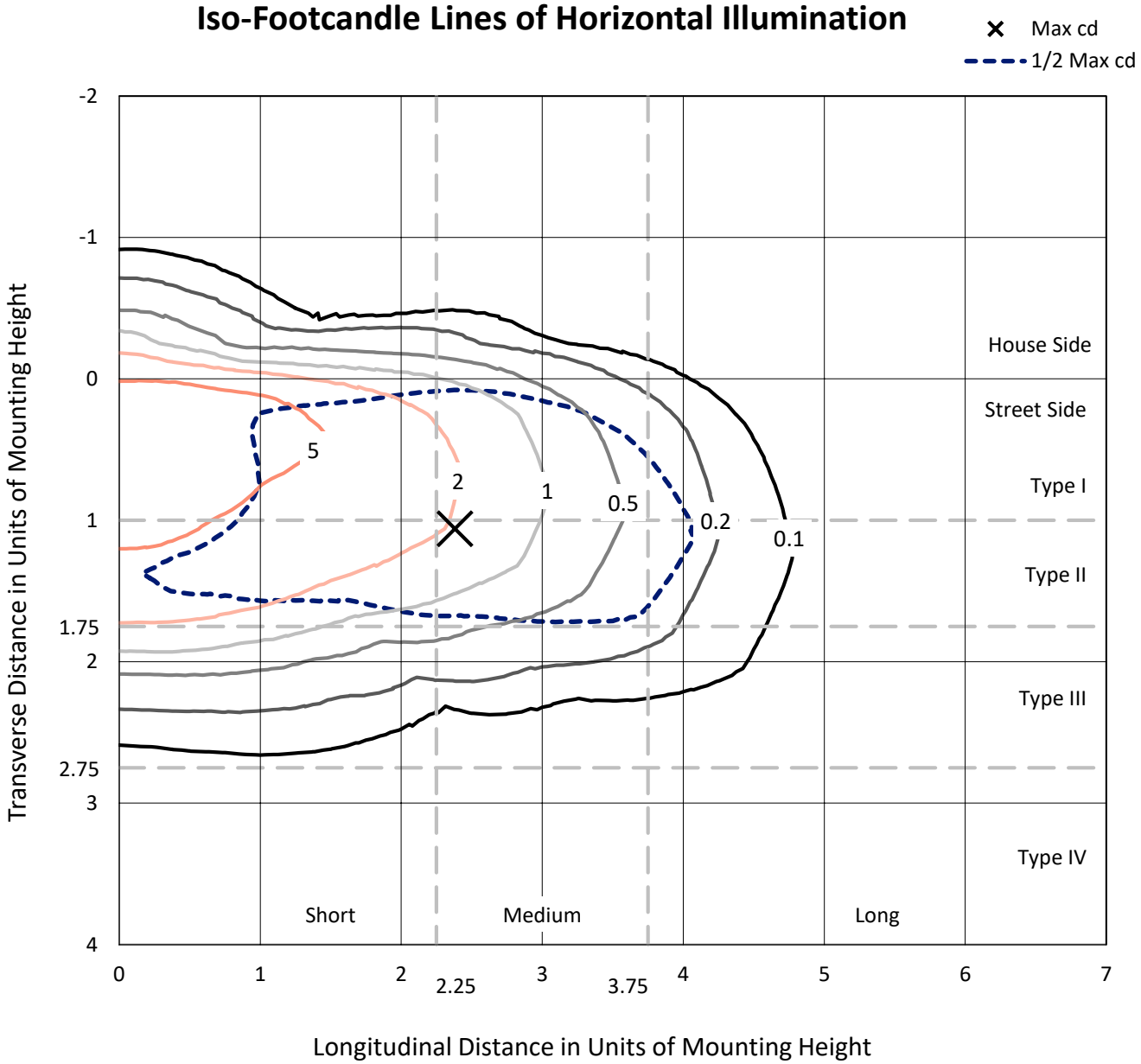
Input Watts (W):	323
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

REPORT NUMBER: P322074
CATALOG NUMBER: GLEON-SA0A-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination



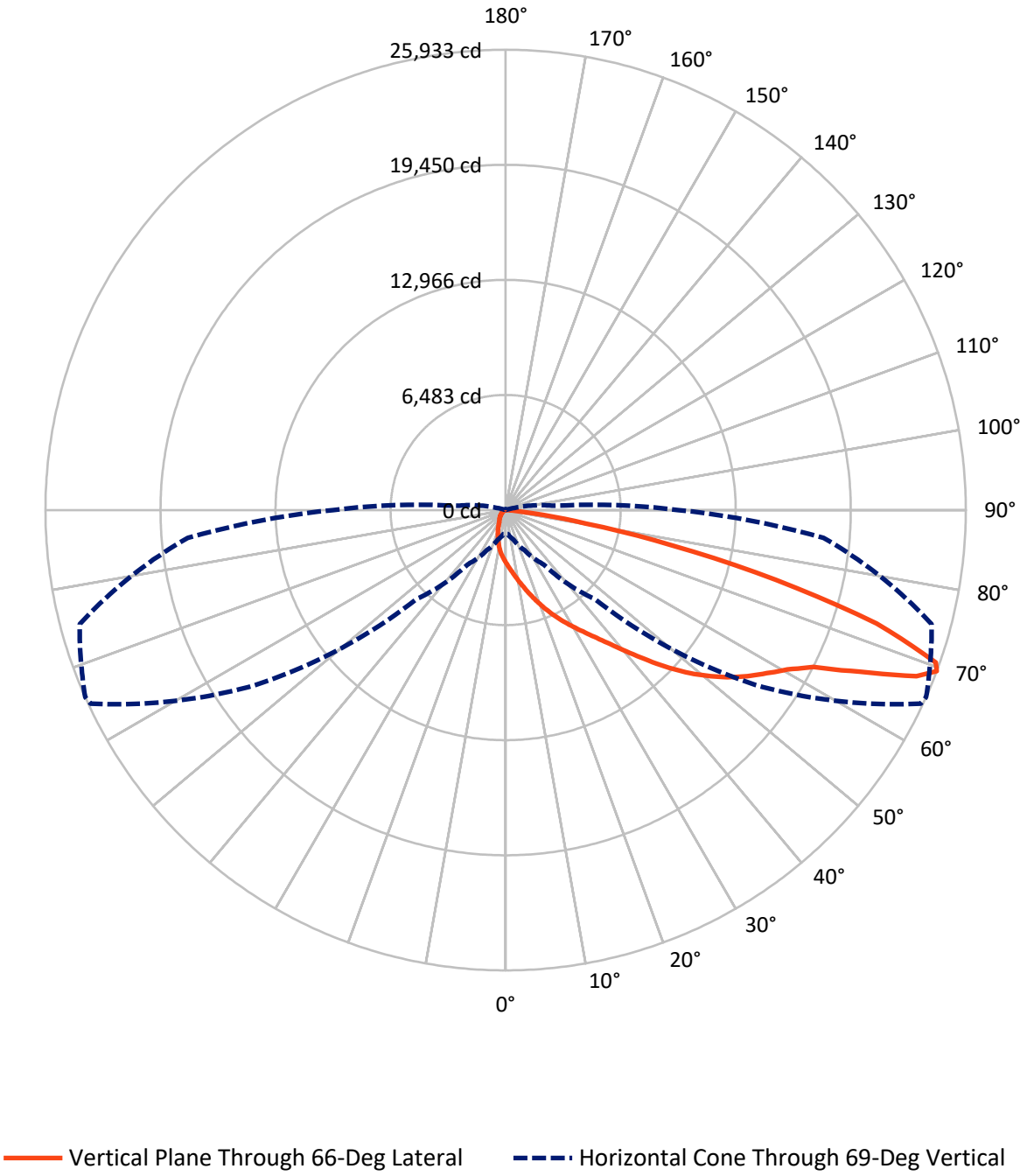
Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type II - Medium - N/A

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

Scaled Data Report

REPORT NUMBER: P322074
CATALOG NUMBER: GLEON-SA0A-830-U-T2-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

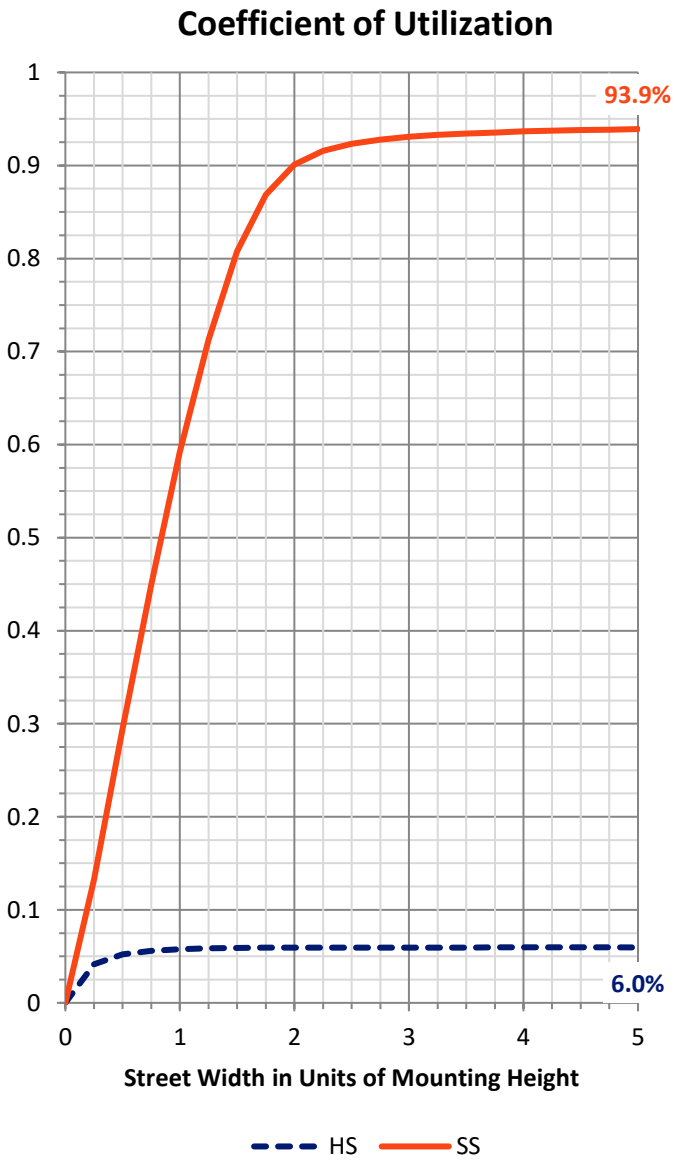
REPORT NUMBER: P322074
CATALOG NUMBER: GLEON-SA0A-830-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1564.1	0.0	1564.1
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	24510.9	0.0	24510.9
	% Fixture	94.0	0.0	94.0
Total	Lumens	26075.0	0.0	26075.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.8	1.1
10°-20°	853.7	3.3
20°-30°	1486.6	5.7
30°-40°	2608.2	10.0
40°-50°	4365.7	16.7
50°-60°	6417.2	24.6
60°-70°	6588.9	25.3
70°-80°	3252.7	12.5
80°-90°	215.1	0.8
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°	26075.0	100.0
0°-180°	26075.0	100.0



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

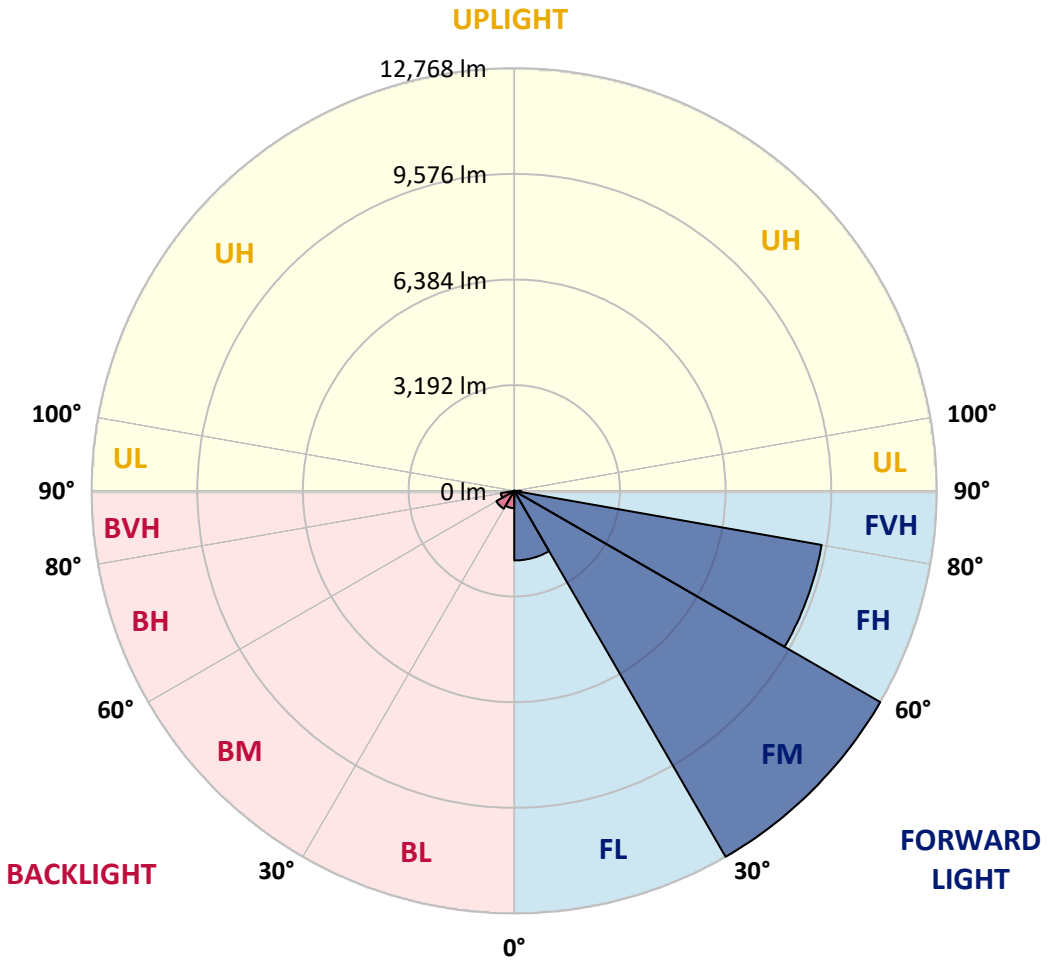
Scaled Data Report

REPORT NUMBER: P322074
CATALOG NUMBER: GLEON-SA0A-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2104.0	8.1			
FM	(30°-60°)	12767.6	49.0			
FH	(60°-80°)	9429.4	36.2			G4/12000
FVH	(80°-90°)	209.9	0.8			G2/225
BL	(0°-30°)	523.1	2.0	B2/1000		
BM	(30°-60°)	623.6	2.4	B1/1000		
BH	(60°-80°)	412.2	1.6	B1/500		G1/500
BVH	(80°-90°)	5.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
Type II Medium



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

Scaled Data Report

REPORT NUMBER: P322074
CATALOG NUMBER: GLEON-SA0A-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2967.4	2967.4	2967.4	2967.4	2967.4	2967.4	2967.4	2967.4	*2967.4*	2967.4	2967.4
2.5°	3492.5	3477.7	3471.5	3444.2	3397.2	3361.3	3291.9	3211.4	*3196.5*	3118.5	3023.2
5°	3945.8	3933.4	3924.8	3886.4	3838.1	3747.7	3621.3	3471.5	*3443.0*	3294.4	3103.7
7.5°	4261.6	4283.9	4283.9	4259.2	4198.5	4130.4	3975.5	3771.2	*3735.3*	3507.4	3211.4
10°	4446.2	4473.4	4494.5	4515.5	4506.9	4479.6	4333.5	4103.1	*4059.8*	3757.6	3336.5
12.5°	4463.5	4490.8	4550.2	4638.1	4723.6	4785.5	4693.9	4470.9	*4421.4*	4047.4	3485.1
15°	4366.9	4395.4	4487.0	4658.0	4864.8	5045.6	5075.3	4878.4	*4827.6*	4392.9	3670.9
17.5°	4198.5	4217.1	4348.3	4584.9	4909.4	5241.3	5420.9	5315.6	*5268.5*	4788.0	3877.7
20°	4073.4	4087.0	4202.2	4456.1	4882.1	5363.9	5747.8	5780.0	*5730.5*	5211.6	4101.9
22.5°	4287.6	4312.4	4316.1	4436.3	4807.8	5424.6	6035.2	6237.0	*6199.9*	5661.1	4322.3
25°	4873.5	4901.9	4807.8	4733.5	4871.0	5451.8	6281.6	6705.2	*6675.5*	6145.4	4544.0
27.5°	5647.5	5677.2	5555.9	5334.2	5201.7	5554.6	6500.8	7180.8	*7179.5*	6658.1	4783.0
30°	6407.9	6437.7	6313.8	6092.1	5787.5	5845.7	6690.3	7678.6	*7686.1*	7186.9	5036.9
32.5°	7205.5	7242.7	7115.1	6830.3	6512.0	6348.5	6956.6	8179.0	*8221.1*	7800.0	5323.0
35°	8112.1	8117.1	7937.5	7639.0	7272.4	7021.0	7383.9	8740.0	*8840.3*	8559.2	5685.9
37.5°	9001.3	9037.3	8889.9	8419.2	8082.4	7797.5	8019.2	9441.0	*9583.4*	9486.8	6160.2
40°	9660.2	9735.8	9714.7	9206.9	8887.4	8684.3	8808.1	10274.5	*10455.3*	10566.8	6758.4
42.5°	10073.9	10130.8	10227.4	9921.5	9631.7	9665.2	9739.5	11245.5	*11468.4*	11797.8	7445.8
45°	10548.2	10575.5	10656.0	10521.0	10325.3	10662.1	10727.8	12339.1	*12573.1*	13121.8	8208.7
47.5°	11127.8	11192.2	11214.5	11090.7	11001.5	11544.0	11680.2	13333.6	*13661.8*	14539.9	9016.2
50°	11866.0	11883.3	11921.7	11841.2	11752.0	12301.9	12534.7	14377.6	*14676.1*	15962.9	9812.5
52.5°	12588.0	12649.9	12783.7	12732.9	12697.0	12947.2	13296.4	15318.9	*15652.0*	17149.4	10607.7
55°	12796.1	12849.3	13311.3	13627.1	13919.4	13742.3	14024.6	16162.3	*16522.7*	18209.5	11373.0
57.5°	11965.0	12072.8	12872.9	13695.2	14907.7	14978.3	15025.3	17028.0	*17351.2*	19021.9	12169.4
60°	9864.6	9885.6	11198.4	12609.1	14744.2	16057.0	16486.8	17958.1	*18229.3*	19778.7	13123.0
62.5°	6274.2	6488.4	7928.8	9920.3	13015.3	15901.0	18254.1	19365.0	*19464.1*	20686.5	14490.3
65°	2988.5	3127.2	4165.0	6129.3	9427.4	13903.3	19474.0	21910.1	*21954.7*	22486.0	16317.1
67.5°	1654.6	1721.5	2215.7	3299.3	5511.3	9832.4	18981.1	24924.6	*24966.7*	24323.9	17919.7
69°	*1294.2*	*1351.2*	*1740.1*	*2486.9*	*3736.5*	*7066.8*	*17176.6*	*25807.6*	*25932.7*	*24850.3*	*17976.7*
70°	1098.5	1154.3	1498.6	2100.5	3004.6	5460.5	15289.1	25588.4	*25720.9*	24800.7	17551.9
72.5°	672.5	704.7	998.2	1478.8	2013.8	2747.0	9428.6	21640.1	*21864.3*	22749.8	15084.8
75°	453.3	470.6	624.2	1020.5	1440.4	1414.4	4898.2	15253.2	*15738.7*	17696.8	11141.4
77.5°	324.5	340.6	418.6	660.1	1009.4	933.8	2218.1	9479.4	*9583.4*	10613.8	6076.0
80°	184.5	199.4	296.0	392.6	684.9	623.0	881.8	4527.9	*4579.9*	4551.4	2028.6
82.5°	96.6	109.0	162.2	258.8	439.7	407.5	366.6	1515.9	*1523.3*	1267.0	444.6
85°	18.6	22.3	80.5	177.1	226.6	177.1	149.9	355.4	*362.9*	320.8	110.2
87.5°	0.0	1.2	32.2	39.6	44.6	45.8	48.3	69.4	*74.3*	100.3	29.7
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: P322074
CATALOG NUMBER: GLEON-SA0A-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2967.4	2967.4	2967.4	2967.4	2967.4	2967.4	2967.4	2967.4	2967.4	2967.4	2967.4
2.5°	2981.0	2936.5	2851.0	2751.9	2675.1	2599.6	2540.1	2478.2	2455.9	2444.8	2443.5
5°	3010.8	2916.6	2735.8	2550.0	2397.7	2254.0	2151.3	2053.4	2007.6	1986.5	1977.9
7.5°	3060.3	2909.2	2618.2	2334.6	2115.3	1935.8	1793.3	1686.8	1633.6	1611.3	1602.6
10°	3118.5	2899.3	2480.7	2106.7	1826.8	1641.0	1499.8	1394.5	1336.3	1311.6	1299.2
12.5°	3186.6	2882.0	2322.2	1876.3	1580.3	1394.5	1223.6	1093.6	1026.7	998.2	984.6
15°	3270.8	2864.6	2156.2	1659.6	1363.6	1136.9	949.9	862.0	848.4	843.4	844.6
17.5°	3353.8	2837.4	1975.4	1445.3	1135.7	888.0	792.6	787.7	790.2	790.2	790.2
20°	3428.1	2775.5	1778.5	1262.0	919.0	749.3	729.5	720.8	714.6	709.7	703.5
22.5°	3486.3	2692.5	1589.0	1080.0	750.5	686.1	655.2	627.9	605.6	590.8	583.3
25°	3526.0	2582.2	1415.6	905.3	675.0	624.2	568.5	522.6	488.0	466.9	458.2
27.5°	3555.7	2463.4	1260.8	758.0	623.0	552.4	479.3	424.8	388.9	370.3	362.9
30°	3576.8	2328.4	1124.5	666.3	564.8	476.8	398.8	345.5	319.5	309.6	304.7
32.5°	3596.6	2178.5	995.7	623.0	510.3	407.5	334.4	293.5	277.4	265.0	261.3
35°	3646.1	2039.8	873.1	577.1	454.5	348.0	287.3	257.6	241.5	234.1	231.6
37.5°	3763.8	1937.0	755.5	530.1	398.8	301.0	251.4	230.4	215.5	208.1	205.6
40°	3953.3	1885.0	656.4	479.3	344.3	265.0	227.9	208.1	192.0	180.8	178.3
42.5°	4231.9	1892.4	587.0	428.5	301.0	236.6	205.6	182.1	164.7	154.8	152.3
45°	4570.0	1946.9	538.7	379.0	265.0	214.3	180.8	156.0	139.9	131.3	128.8
47.5°	4936.6	2034.8	499.1	334.4	236.6	193.2	156.0	130.0	116.4	109.0	107.7
50°	5323.0	2120.3	458.2	291.0	211.8	172.1	131.3	107.7	96.6	90.4	87.9
52.5°	5714.4	2219.4	421.1	251.4	190.7	147.4	109.0	87.9	79.3	74.3	71.8
55°	6135.5	2293.7	385.2	220.5	169.7	125.1	90.4	73.1	65.6	59.4	58.2
57.5°	6630.9	2408.9	348.0	190.7	144.9	104.0	74.3	58.2	52.0	45.8	44.6
60°	7299.7	2543.9	308.4	168.4	118.9	85.5	60.7	47.1	39.6	34.7	33.4
62.5°	8181.5	2693.7	258.8	147.4	96.6	69.4	48.3	37.2	28.5	22.3	22.3
65°	9299.8	2937.7	211.8	123.8	79.3	57.0	37.2	27.2	16.1	9.9	9.9
67.5°	9952.5	2979.8	170.9	101.6	64.4	48.3	31.0	18.6	5.0	1.2	0.0
69°	*9743.2*	*2735.8*	*144.9*	*86.7*	*55.7*	*45.8*	*28.5*	*13.6*	*2.5*	*0.0*	*0.0*
70°	9349.4	2501.7	127.6	76.8	50.8	43.3	27.2	9.9	2.5	0.0	0.0
72.5°	7725.7	1780.9	96.6	57.0	37.2	38.4	24.8	6.2	2.5	0.0	0.0
75°	5627.7	1082.4	69.4	39.6	23.5	28.5	17.3	2.5	1.2	0.0	0.0
77.5°	3130.9	510.3	43.3	22.3	14.9	17.3	8.7	0.0	0.0	0.0	0.0
80°	1016.8	138.7	19.8	12.4	8.7	9.9	3.7	0.0	0.0	0.0	0.0
82.5°	188.3	39.6	11.1	6.2	2.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	40.9	16.1	6.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	5.0	1.2	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

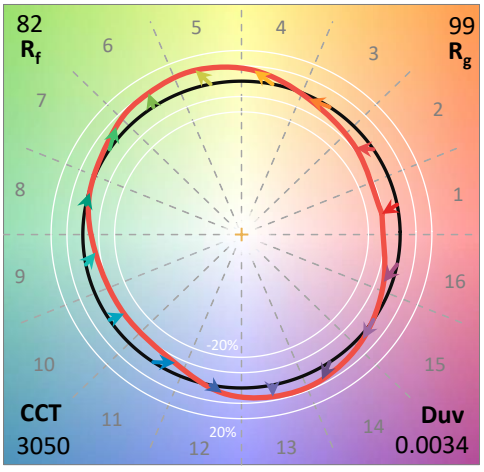
Test Information

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

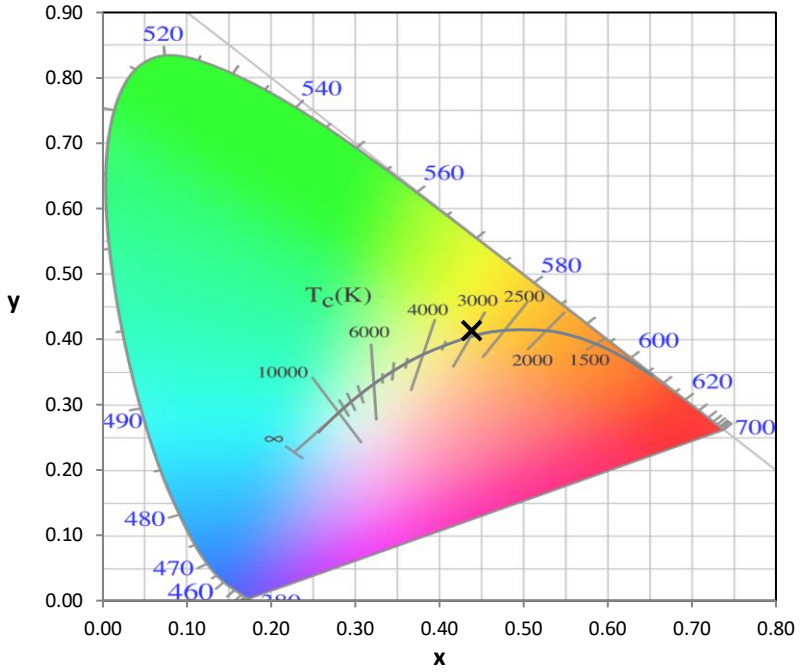
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

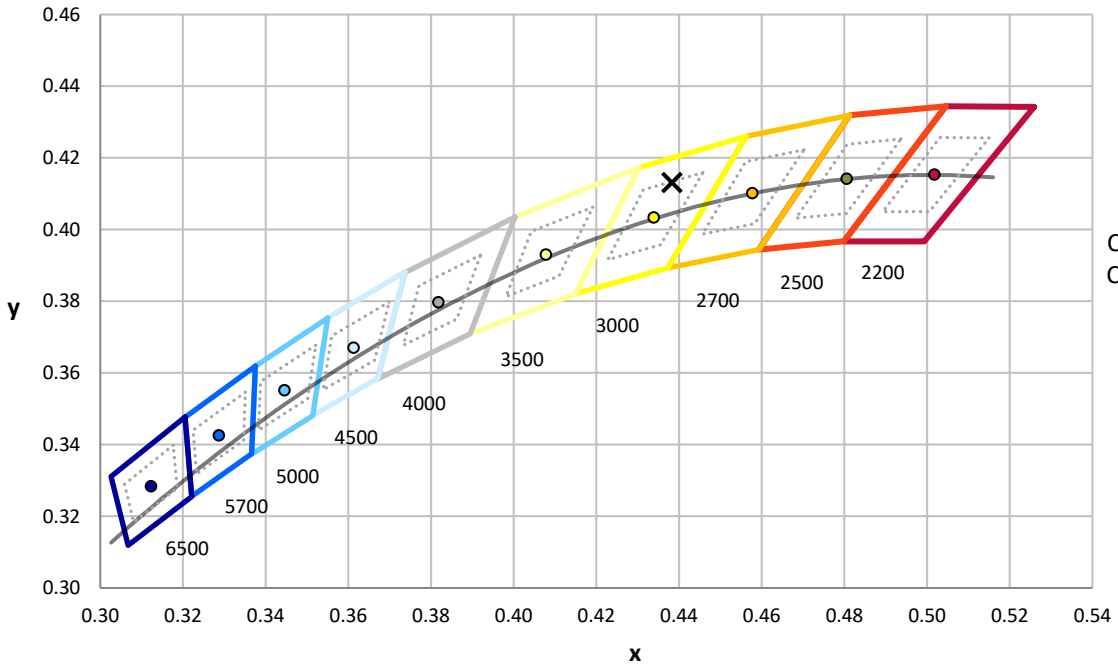
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

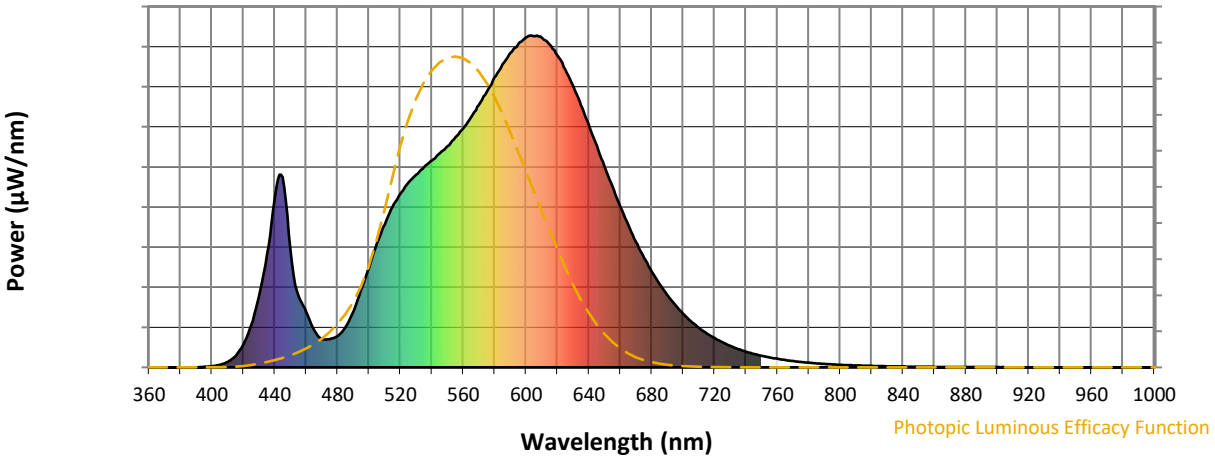


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

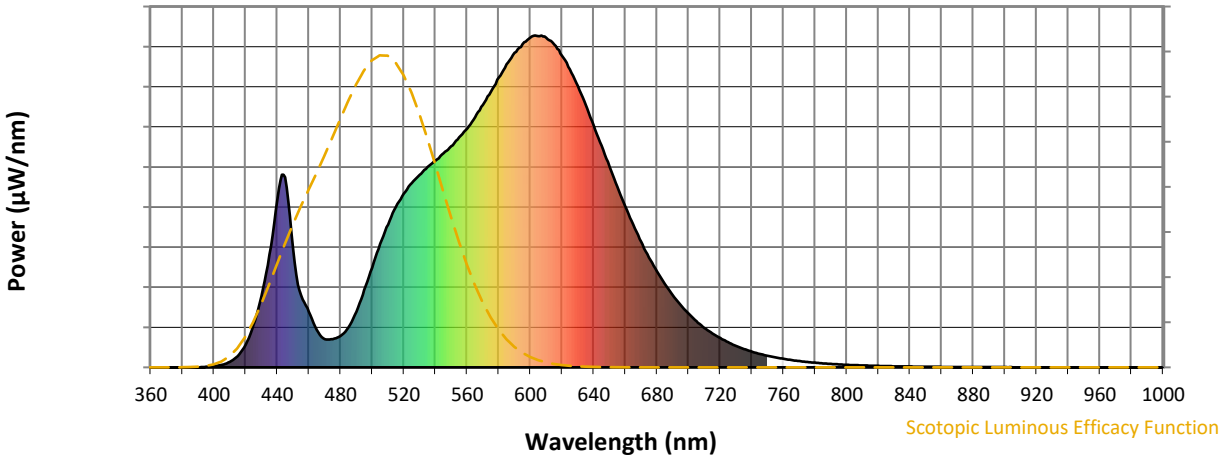


Photopic Lumens: NR

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

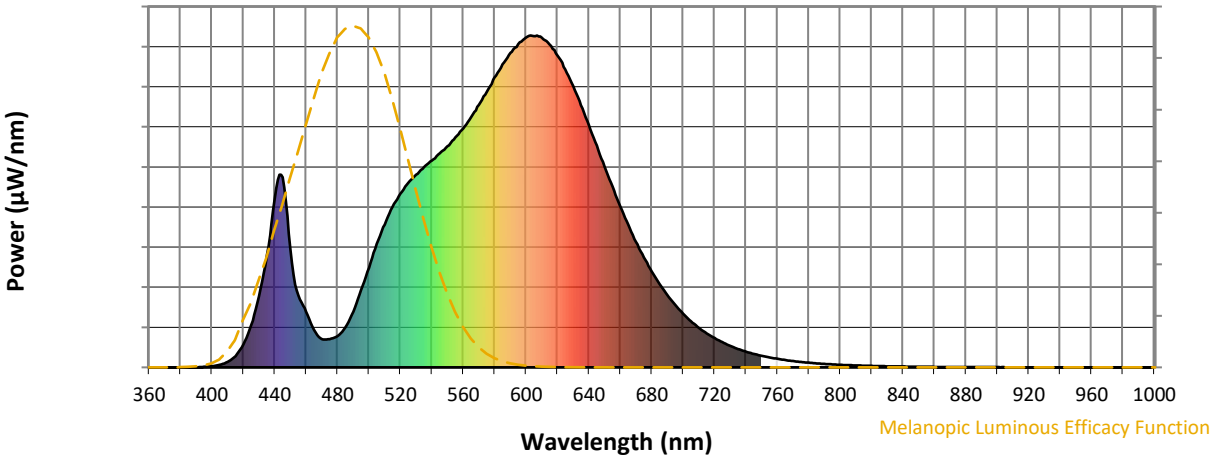


Scotopic Lumens: NR **S/P: 1.27**

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			

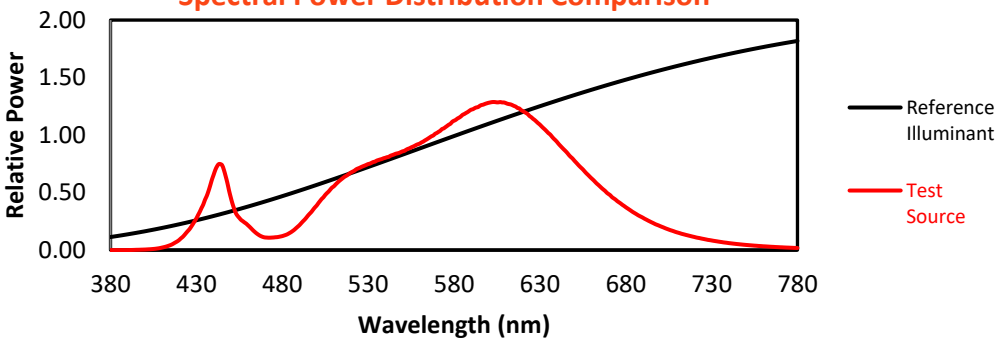
REPORT NUMBER: SP1-2408-195-9

TM-30-18

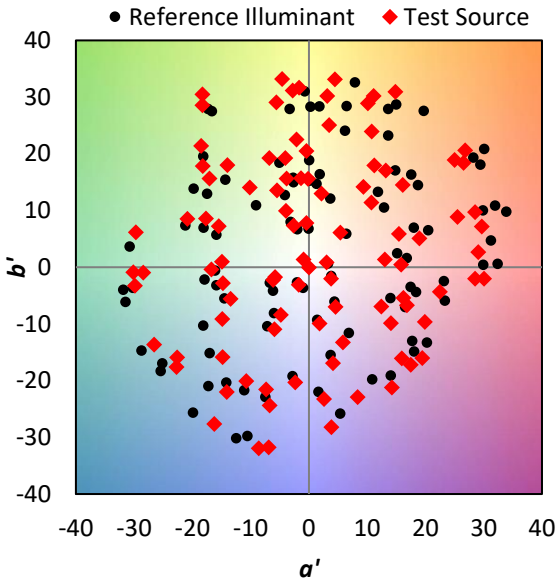
Summary

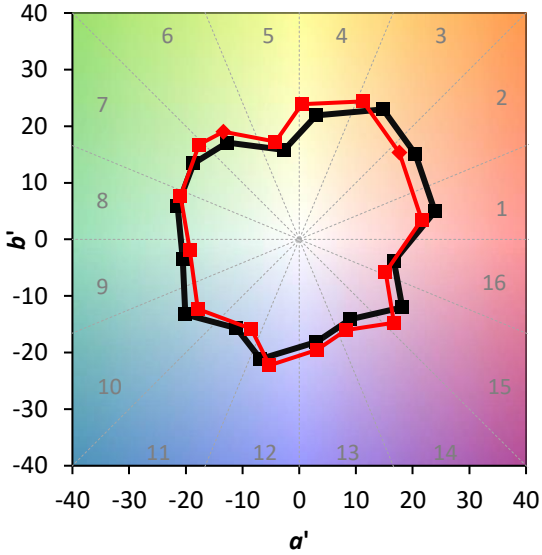
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

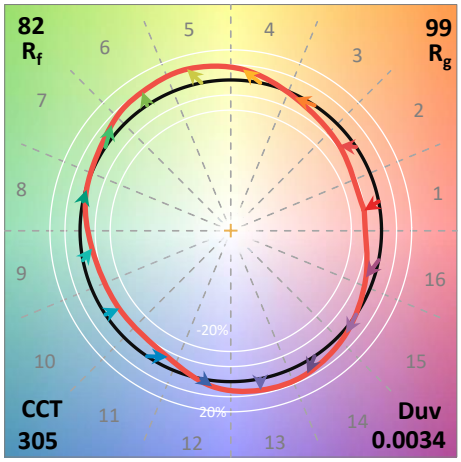
Spectral Power Distribution Comparison

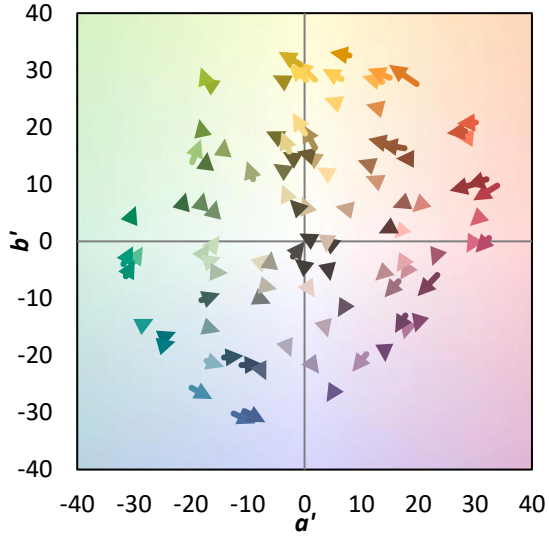


Color Vector Graphics







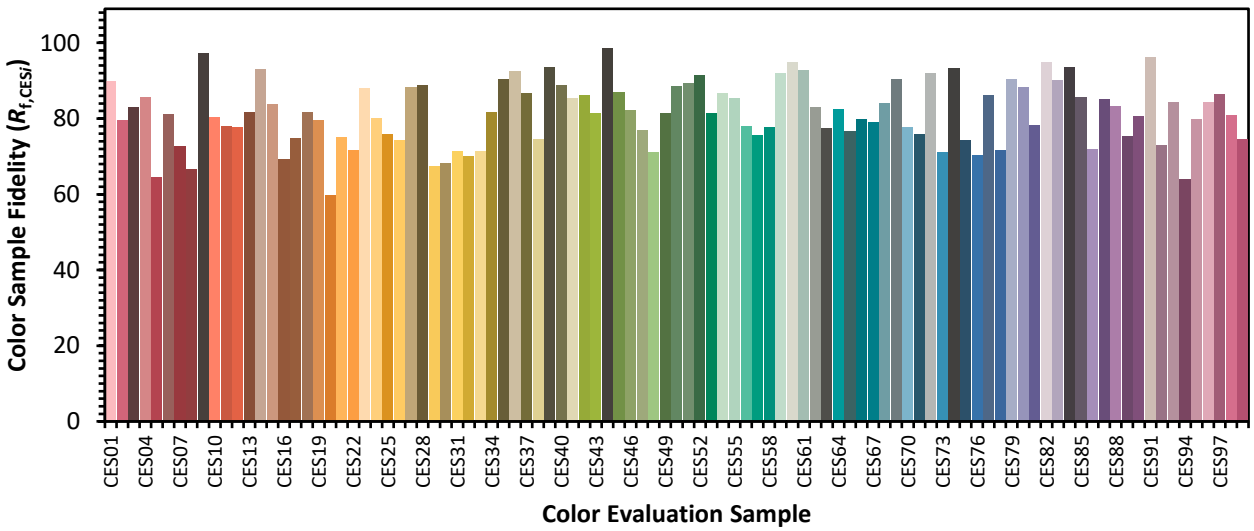


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

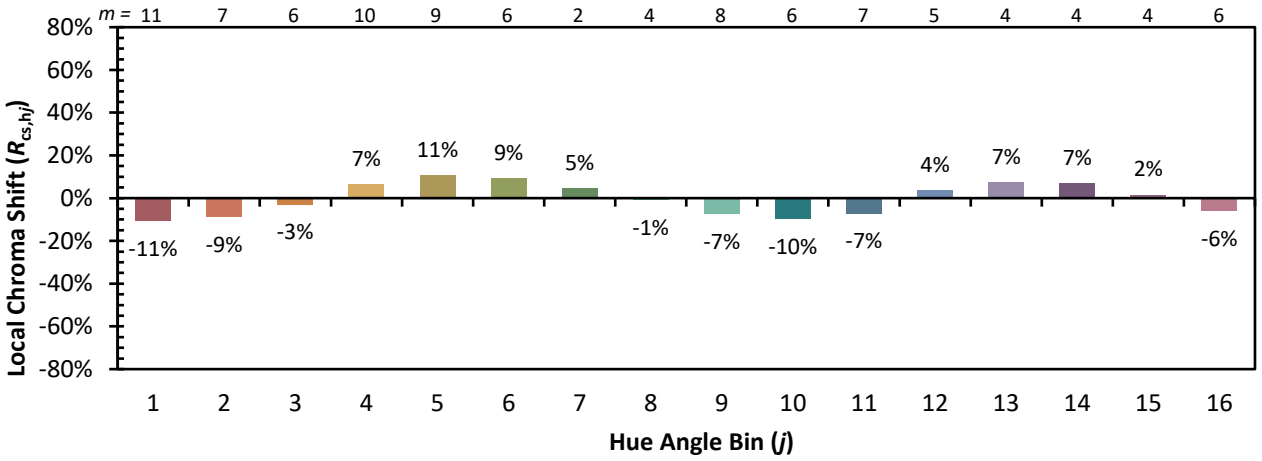
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

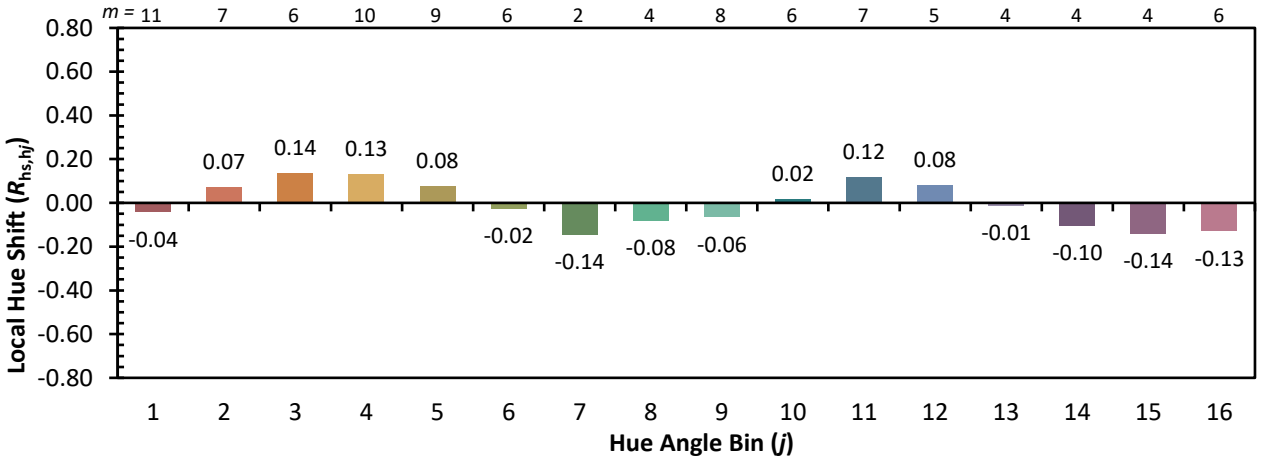


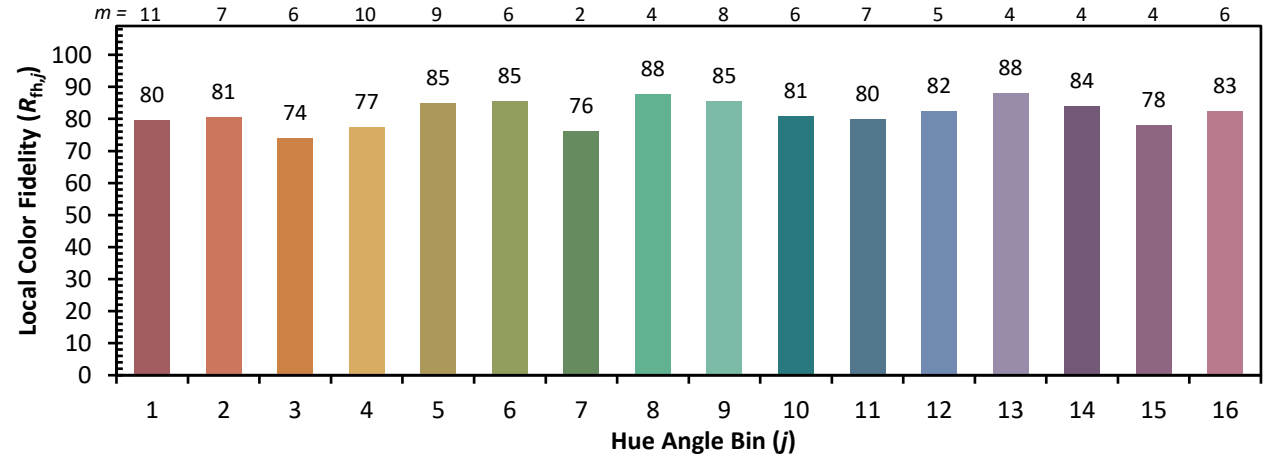
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



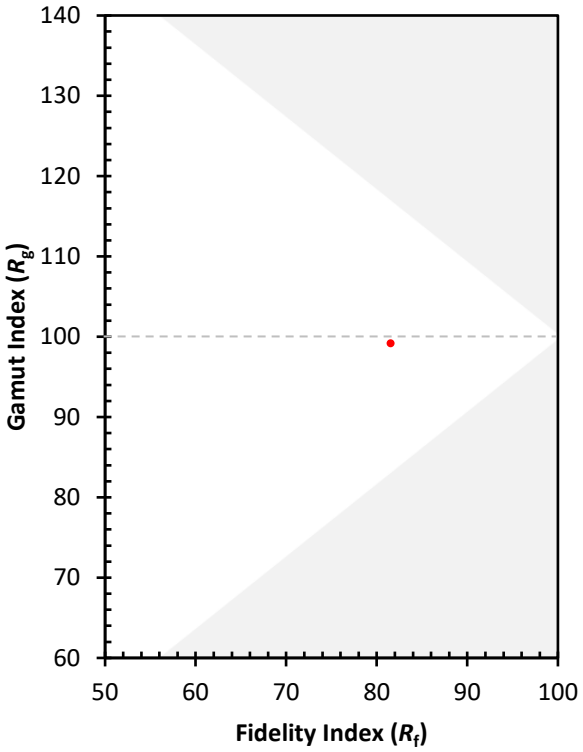


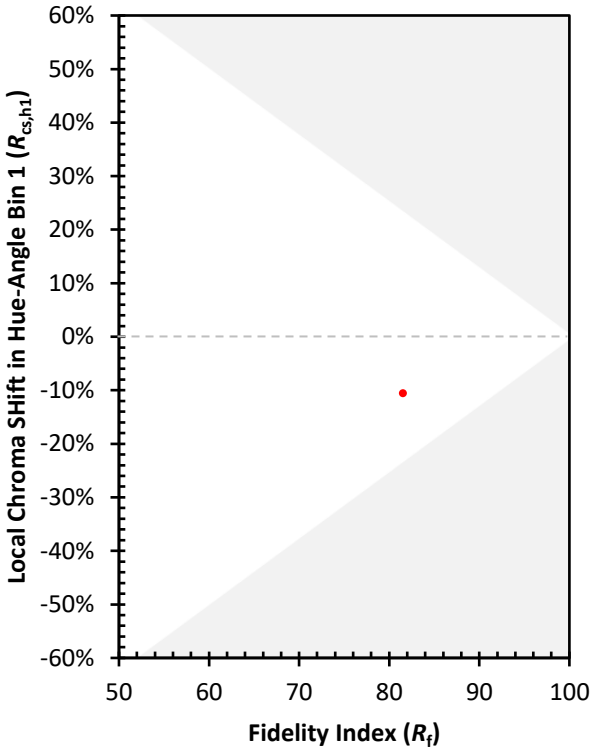


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)