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: P321780

Luminaire Tested: **GLEON-SA6D-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:	P321780
	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-SA6D-830-U-T3R-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(6) 80 CRI, 3000K, 1200mA 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:	28362 lumens
Efficiency:	N/A
Efficacy:	74.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B3 - U0 - G4

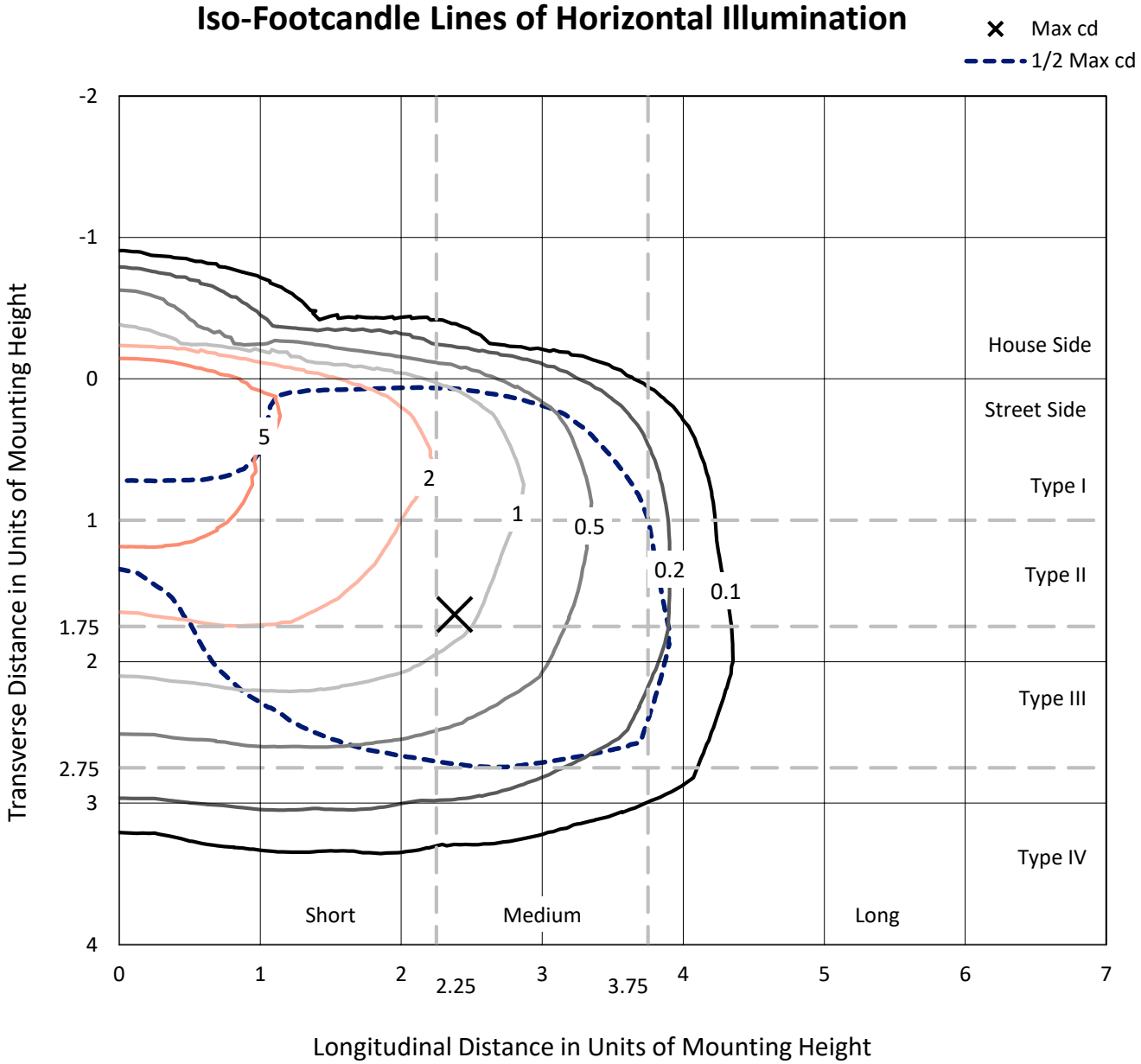
Input Watts (W):	382
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

REPORT NUMBER: P321780
CATALOG NUMBER: GLEON-SA6D-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination



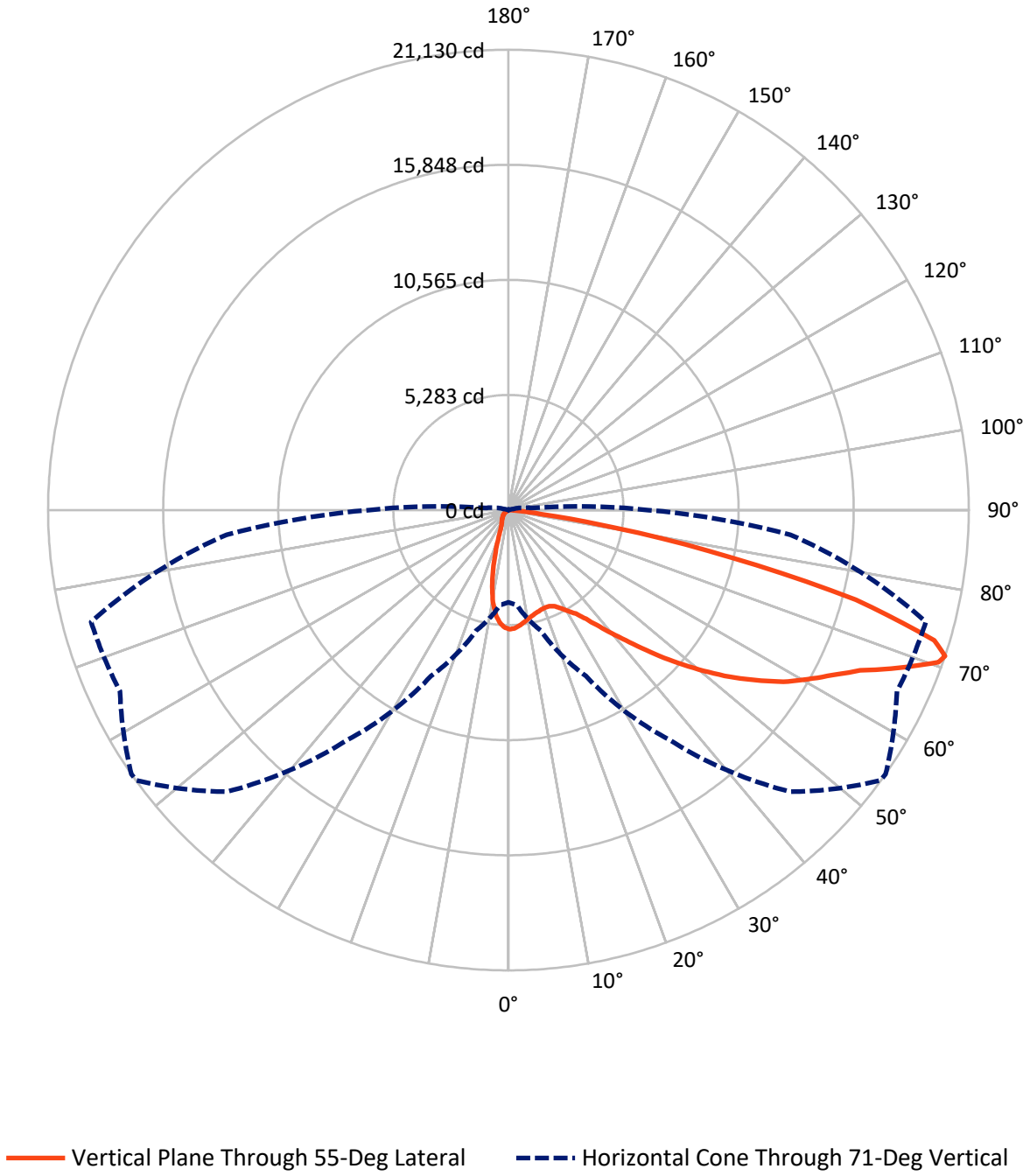
Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type III - Medium - N/A

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

Scaled Data Report

REPORT NUMBER: P321780
CATALOG NUMBER: GLEON-SA6D-830-U-T3R-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

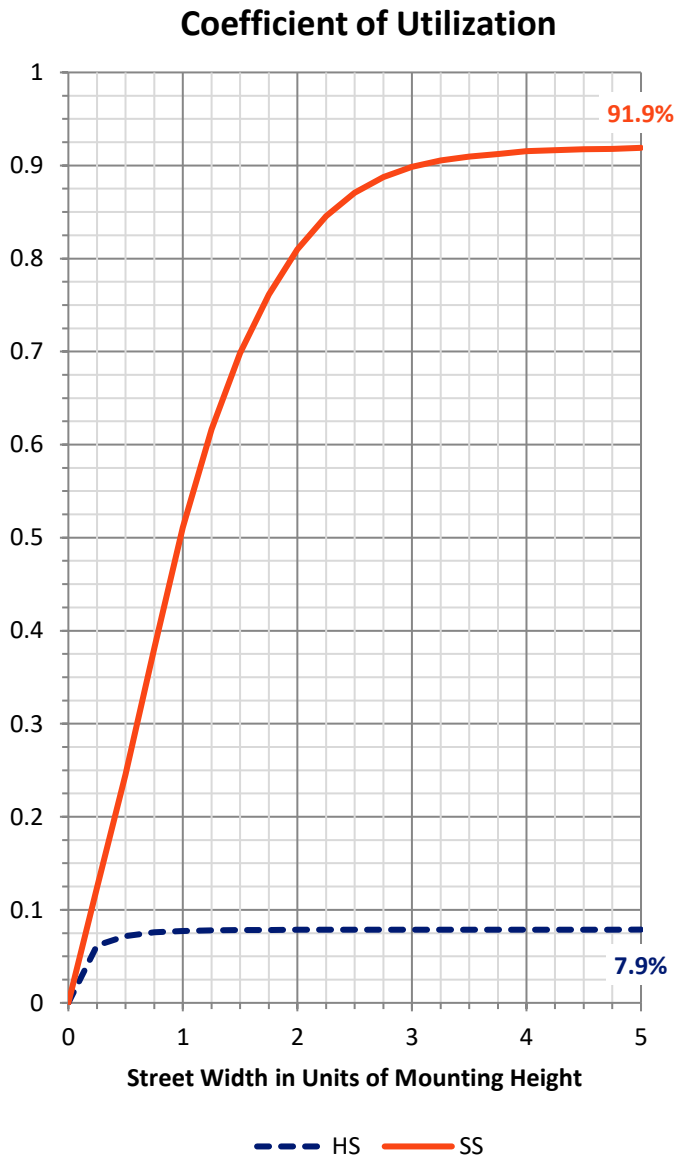
REPORT NUMBER: P321780
CATALOG NUMBER: GLEON-SA6D-830-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2245.5	0.0	2245.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	26116.5	0.0	26116.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	28362.0	0.0	28362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.4	1.6
10°-20°	1052.9	3.7
20°-30°	1692.0	6.0
30°-40°	2874.8	10.1
40°-50°	4462.0	15.7
50°-60°	5999.0	21.2
60°-70°	7338.8	25.9
70°-80°	4290.8	15.1
80°-90°	185.5	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°	28362.0	100.0
0°-180°	28362.0	100.0



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

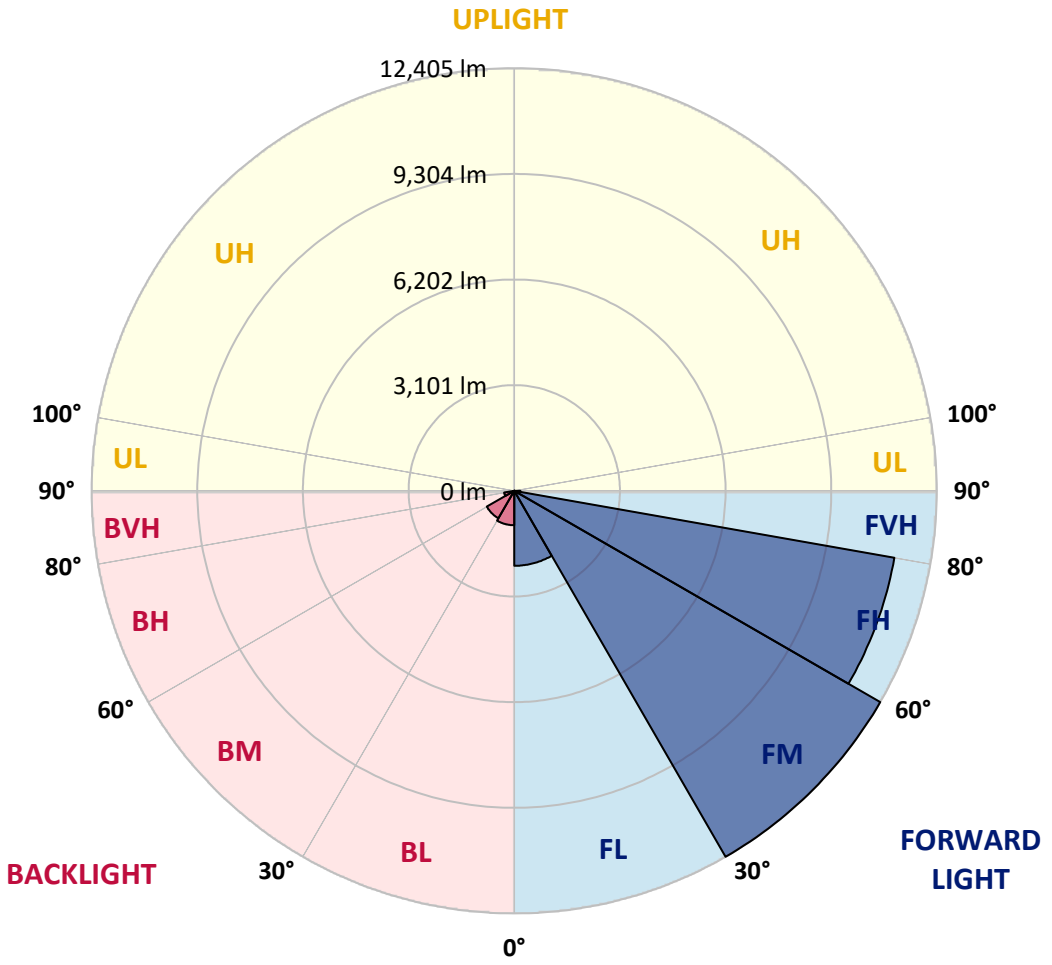
Scaled Data Report

REPORT NUMBER: P321780
CATALOG NUMBER: GLEON-SA6D-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°)	2200.5	7.8			
FM	(30°-60°)	12404.7	43.7			
FH	(60°-80°)	11328.7	39.9			G4/12000
FVH	(80°-90°)	182.6	0.6			G2/225
BL	(0°-30°)	1010.7	3.6	B3/2500		
BM	(30°-60°)	931.0	3.3	B1/1000		
BH	(60°-80°)	300.8	1.1	B1/500		G1/500
BVH	(80°-90°)	2.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
Type III Medium



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

Scaled Data Report

REPORT NUMBER: P321780
CATALOG NUMBER: GLEON-SA6D-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7
2.5°	5309.3	5315.6	5338.5	5348.7	5372.9	5413.7	5434.1	5435.3	5468.4	5481.2	5491.4
5°	4933.6	4971.8	5010.0	5050.7	5124.6	5222.7	5319.4	5328.4	5435.3	5514.3	5556.3
7.5°	4610.1	4644.5	4690.3	4755.3	4859.7	5013.8	5175.5	5194.6	5397.1	5576.7	5670.9
10°	4277.7	4305.7	4372.0	4467.5	4611.4	4817.7	5035.4	5067.3	5362.7	5660.7	5826.3
12.5°	3922.4	3939.0	4019.2	4156.7	4368.1	4630.5	4917.0	4959.0	5341.1	5757.5	6009.7
15°	3652.4	3660.1	3736.5	3879.1	4121.1	4462.4	4825.3	4876.3	5346.2	5873.4	6209.6
17.5°	3583.6	3587.5	3628.2	3726.3	3940.2	4312.1	4752.7	4815.1	5361.5	5986.8	6410.8
20°	3862.5	3835.8	3793.8	3778.5	3870.2	4221.7	4709.4	4779.5	5381.8	6087.4	6591.7
22.5°	4627.9	4549.0	4374.5	4141.4	4000.1	4228.0	4720.9	4790.9	5446.8	6210.9	6800.5
25°	5763.9	5654.4	5357.6	4899.2	4458.5	4411.4	4816.4	4887.7	5572.9	6358.6	7000.5
27.5°	7056.5	6948.3	6585.3	5930.7	5179.4	4774.4	5035.4	5101.7	5760.1	6489.8	7153.3
30°	8294.4	8263.8	7835.9	7092.2	6086.1	5362.7	5318.2	5374.2	5898.9	6568.8	7274.3
32.5°	9343.7	9295.3	8951.5	8228.1	7124.0	6069.5	5650.6	5667.1	6003.3	6670.6	7432.2
35°	10316.7	10256.8	9955.0	9271.1	8188.7	6933.0	6162.5	6138.3	6231.3	6875.7	7661.4
37.5°	11166.1	11220.9	10885.9	10235.2	9143.8	7830.8	6852.7	6780.2	6587.9	7209.3	7993.8
40°	11876.7	11876.7	11702.3	11159.7	10175.3	8759.2	7633.4	7537.9	7124.0	7723.8	8415.3
42.5°	12132.7	12187.5	12252.4	11945.5	11098.6	9724.5	8503.2	8403.9	7879.2	8453.5	8947.7
45°	12148.0	12234.6	12567.0	12565.7	11932.8	10683.5	9483.8	9436.7	8847.1	9390.8	9607.3
47.5°	11932.8	12041.0	12588.6	12899.4	12593.7	11576.2	10556.1	10497.5	9984.3	10539.5	10297.6
50°	11600.4	11720.1	12356.8	13030.5	13043.3	12353.0	11685.7	11597.8	11236.2	11852.5	11010.7
52.5°	11005.6	11237.4	12149.3	13061.1	13338.7	13024.2	12760.5	12722.3	12637.0	13117.1	11578.7
55°	9733.4	9990.7	11628.4	13071.3	13612.5	13618.9	13767.9	13778.1	13950.0	14298.9	12001.5
57.5°	9132.3	9277.5	10719.1	13119.7	14018.8	14293.8	14794.3	14873.3	15139.5	15420.9	12484.2
60°	8754.1	8926.0	10270.8	13053.4	14656.8	15178.9	15745.6	15772.4	16057.7	16578.5	13137.5
62.5°	8452.3	8621.6	9988.1	12798.7	15373.8	16243.6	16675.3	16677.9	16891.8	17957.7	13880.0
65°	7707.3	7849.9	9416.3	12512.2	15847.5	17296.8	17755.2	17738.7	17913.2	19412.1	14742.1
67.5°	6629.9	6739.4	8248.5	11425.9	15669.2	18254.5	19385.3	19330.6	19119.2	20669.0	15080.9
70°	5125.9	5165.3	6501.3	9522.0	13998.4	18622.5	20960.7	20932.6	19859.1	20443.6	13839.2
71°	4237.0	4366.9	5729.5	8403.9	12879.0	18282.5	21113.5	21130.0	19673.1	19829.8	12984.7
72.5°	2460.4	2571.2	4152.9	6454.1	10934.3	16863.8	20321.4	20441.1	18804.6	18036.7	11091.0
75°	527.2	564.2	1539.7	3123.9	6014.8	11819.4	16039.8	16466.4	15326.7	12270.2	6684.6
77.5°	366.8	396.1	659.7	1417.4	1987.9	5840.3	9963.9	10445.3	9156.5	4611.4	2139.5
80°	290.4	323.5	514.5	700.4	537.4	1883.5	4667.4	4961.6	3053.9	1029.0	360.4
82.5°	161.7	192.3	401.2	378.2	206.3	357.9	1306.6	1477.3	611.3	207.6	85.3
85°	47.1	57.3	258.5	275.1	87.9	68.8	222.9	276.4	115.9	54.8	38.2
87.5°	0.0	0.0	124.8	105.7	25.5	10.2	20.4	22.9	22.9	22.9	25.5
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

Scaled Data Report

REPORT NUMBER: P321780
CATALOG NUMBER: GLEON-SA6D-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7	5469.7
2.5°	5491.4	5500.3	5468.4	5426.4	5381.8	5327.1	5269.8	5225.2	5223.9	5202.3	5180.6
5°	5558.9	5553.8	5465.9	5332.2	5174.3	5010.0	4853.3	4676.3	4617.7	4545.1	4521.0
7.5°	5683.7	5648.0	5462.1	5169.2	4822.8	4478.9	4123.6	3765.8	3612.9	3475.4	3451.2
10°	5840.3	5772.8	5437.9	4924.7	4289.2	3655.0	3118.8	2632.3	2418.4	2254.1	2246.5
12.5°	6003.3	5900.2	5370.4	4555.3	3590.0	2698.6	2080.9	1602.1	1423.8	1309.2	1319.4
15°	6174.0	6019.9	5225.2	4057.4	2794.1	1831.3	1278.6	997.2	925.8	896.5	904.2
17.5°	6348.4	6102.6	5022.7	3457.6	2008.3	1181.8	885.1	806.1	806.1	812.5	815.0
20°	6500.0	6147.2	4724.7	2785.2	1361.4	860.9	774.3	762.8	769.2	779.4	780.7
22.5°	6650.3	6149.8	4336.3	2103.8	952.6	753.9	737.4	732.3	736.1	747.5	748.8
25°	6772.5	6119.2	3849.8	1496.4	760.3	710.6	703.0	700.4	703.0	717.0	717.0
27.5°	6822.2	6008.4	3256.4	1051.9	681.3	662.2	659.7	662.2	666.0	676.2	677.5
30°	6827.3	5814.8	2609.4	761.6	617.7	597.3	602.4	611.3	607.5	604.9	607.5
32.5°	6840.0	5590.7	1979.0	626.6	564.2	532.3	526.0	526.0	510.7	501.8	496.7
35°	6882.0	5327.1	1435.2	562.9	509.4	472.5	448.3	420.3	391.0	375.7	371.9
37.5°	6948.3	5050.7	1027.7	520.9	461.0	419.0	373.1	323.5	281.4	270.0	270.0
40°	7069.2	4765.5	760.3	487.8	422.8	370.6	301.8	236.9	198.7	192.3	192.3
42.5°	7260.3	4464.9	606.2	458.5	389.7	320.9	230.5	171.9	143.9	140.1	138.8
45°	7458.9	4133.8	529.8	430.4	354.0	263.6	170.6	127.4	110.8	107.0	107.0
47.5°	7657.6	3781.0	492.8	403.7	319.7	205.0	127.4	100.6	93.0	93.0	94.2
50°	7825.7	3413.0	466.1	374.4	275.1	155.4	100.6	85.3	82.8	87.9	89.1
52.5°	7867.7	3051.3	433.0	337.5	220.3	118.4	82.8	75.1	75.1	75.1	75.1
55°	7842.3	2771.2	389.7	291.6	163.0	94.2	71.3	66.2	64.9	64.9	64.9
57.5°	7928.9	2605.6	312.0	226.7	117.2	76.4	62.4	58.6	56.0	54.8	54.8
60°	8103.3	2497.3	222.9	163.0	87.9	63.7	53.5	49.7	45.8	43.3	43.3
62.5°	8335.1	2403.1	165.6	121.0	67.5	50.9	44.6	40.8	35.7	33.1	33.1
65°	8513.4	2235.0	126.1	90.4	50.9	40.8	34.4	33.1	25.5	22.9	21.6
67.5°	8240.9	1865.7	101.9	66.2	38.2	31.8	26.7	25.5	15.3	12.7	12.7
70°	7068.0	1299.0	81.5	48.4	28.0	25.5	21.6	16.6	11.5	10.2	10.2
71°	*6409.6*	*1085.0*	*73.9*	*40.8*	*24.2*	*24.2*	*20.4*	*14.0*	*10.2*	*8.9*	*8.9*
72.5°	5324.5	770.5	62.4	31.8	21.6	25.5	21.6	12.7	10.2	8.9	7.6
75°	3090.8	322.2	43.3	21.6	16.6	30.6	28.0	11.5	7.6	6.4	6.4
77.5°	929.7	118.4	24.2	14.0	12.7	26.7	31.8	10.2	3.8	1.3	1.3
80°	169.4	50.9	15.3	8.9	8.9	16.6	24.2	5.1	0.0	0.0	0.0
82.5°	59.9	25.5	8.9	5.1	3.8	7.6	11.5	0.0	0.0	0.0	0.0
85°	34.4	17.8	5.1	2.5	0.0	1.3	2.5	0.0	0.0	0.0	0.0
87.5°	22.9	5.1	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

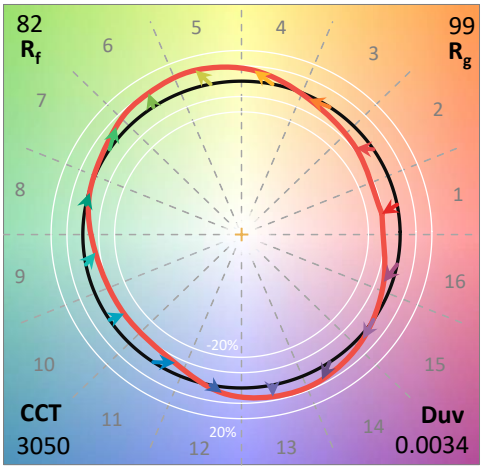
Test Information

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

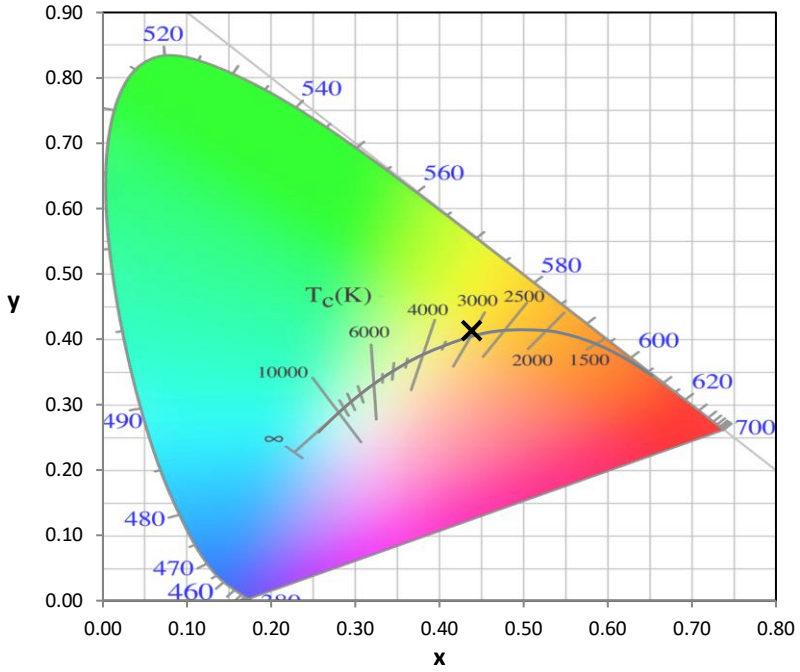
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

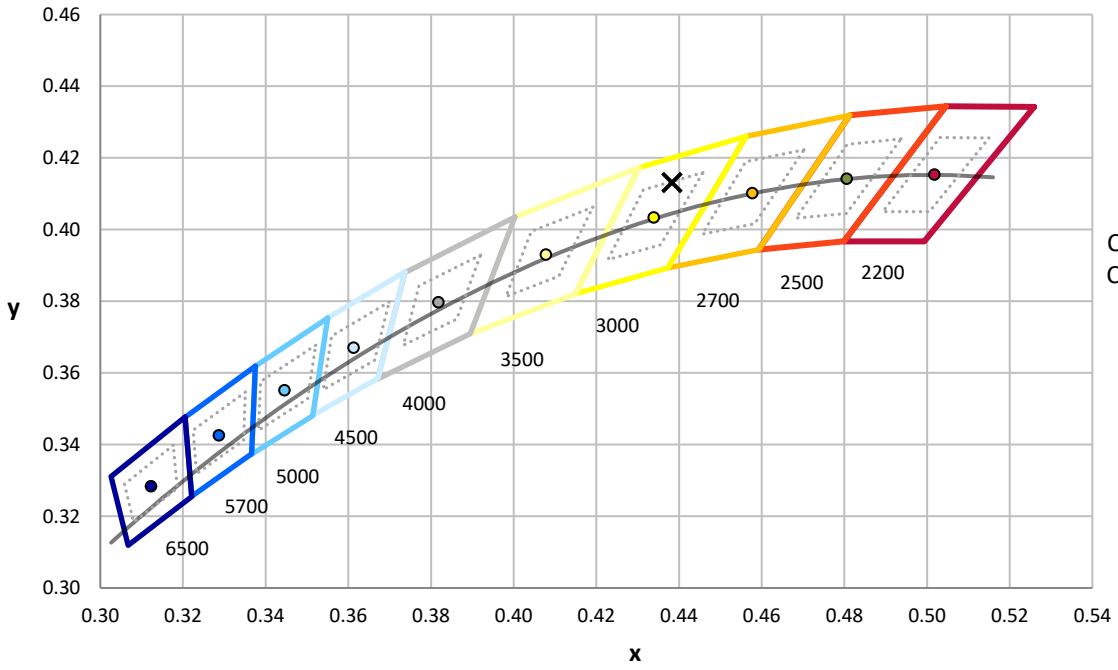
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

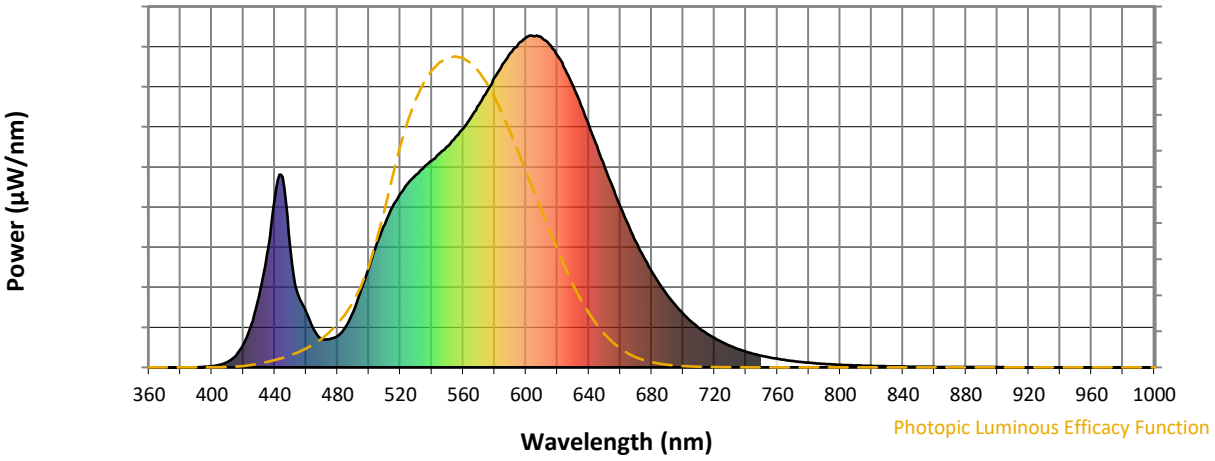


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

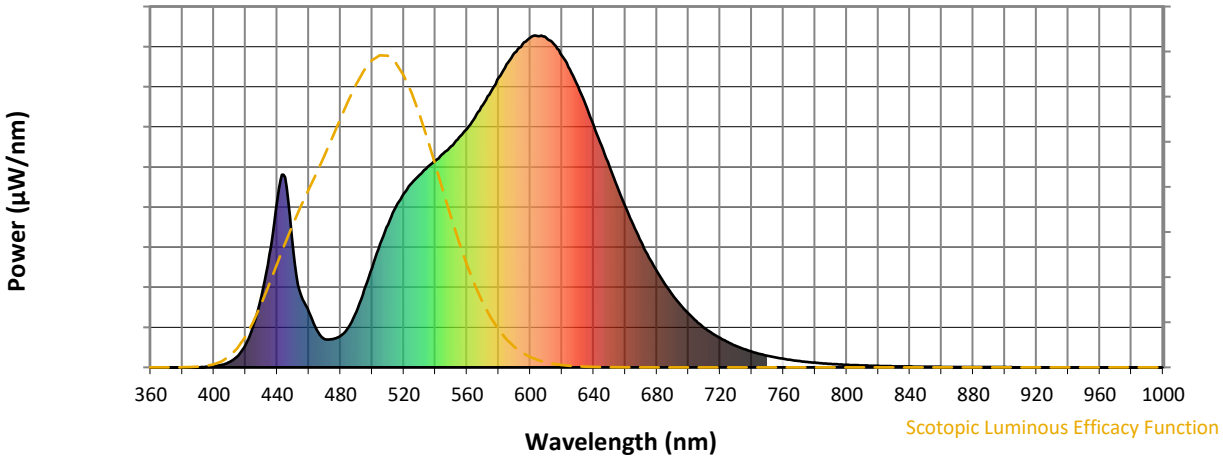


Photopic Lumens: NR

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

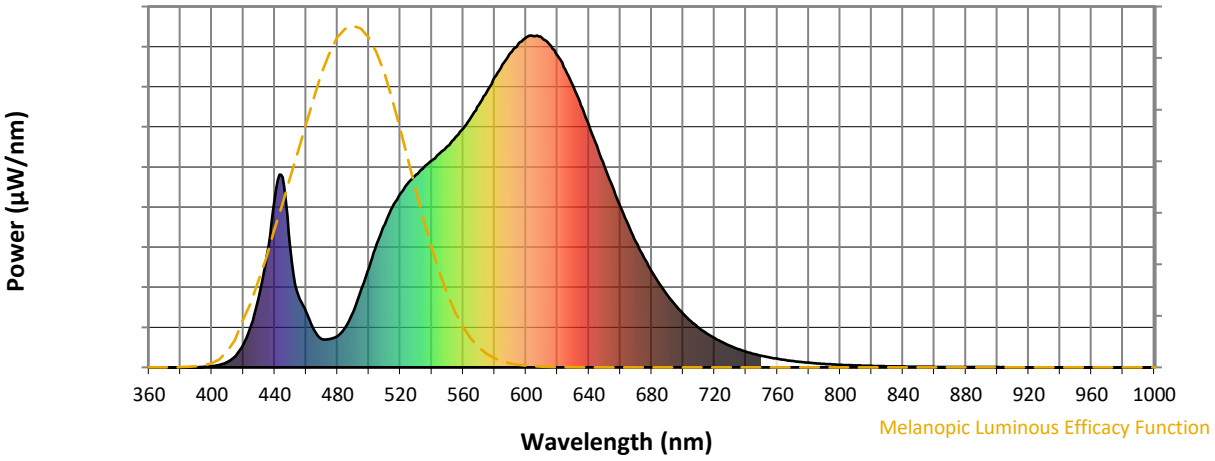


Scotopic Lumens: NR **S/P: 1.27**

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			

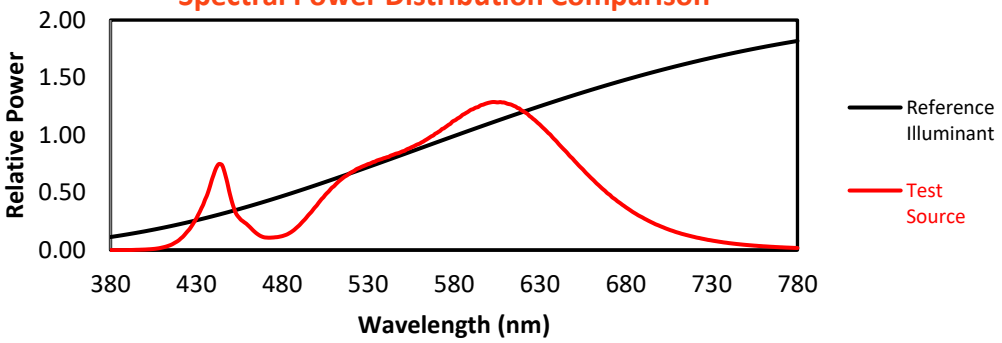
REPORT NUMBER: SP1-2408-195-9

TM-30-18

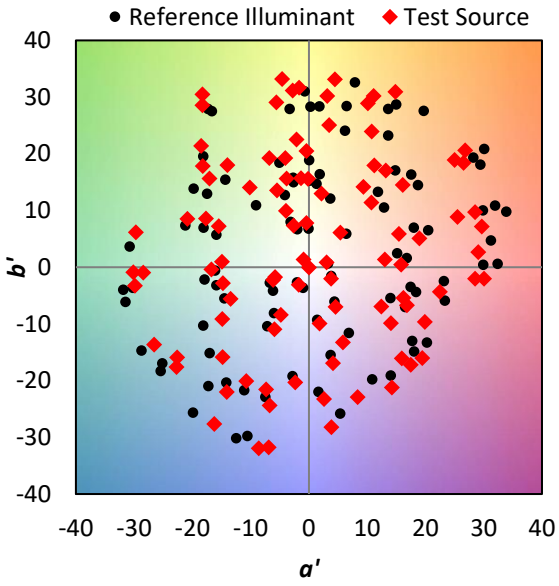
Summary

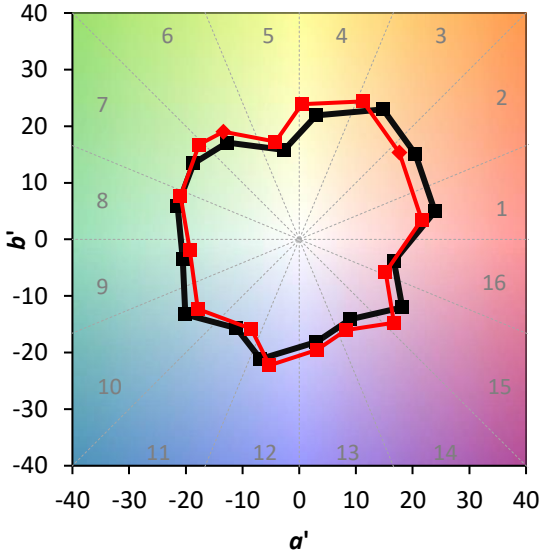
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

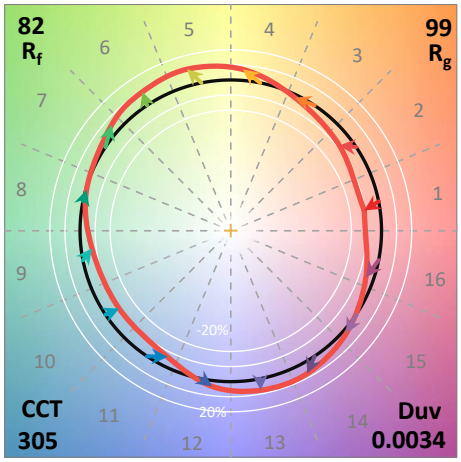
Spectral Power Distribution Comparison

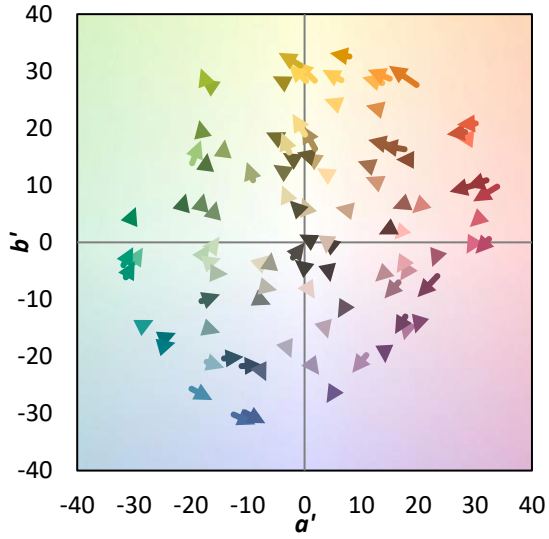


Color Vector Graphics







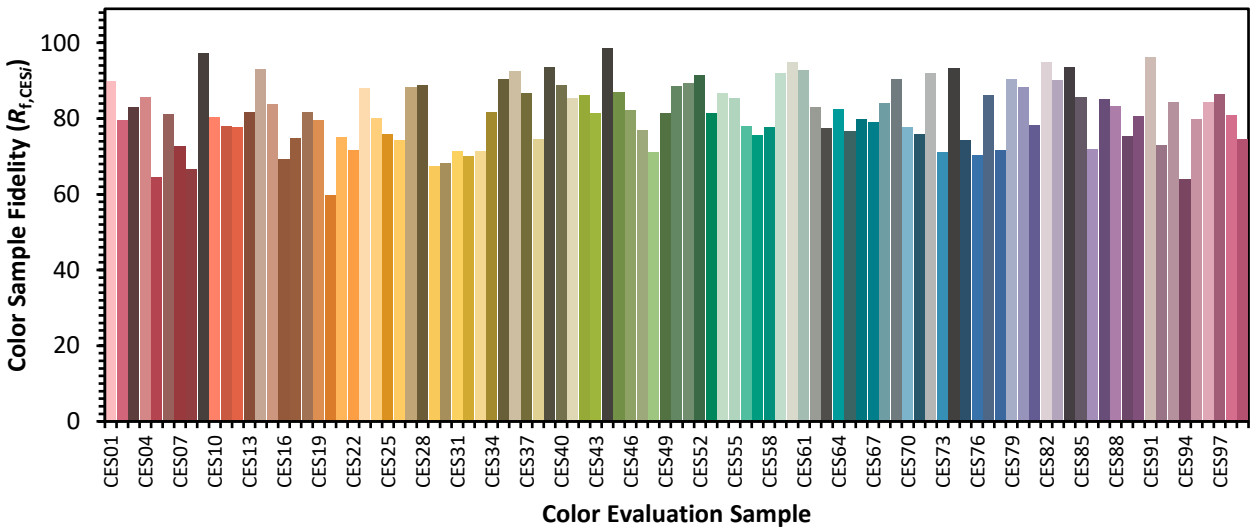


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

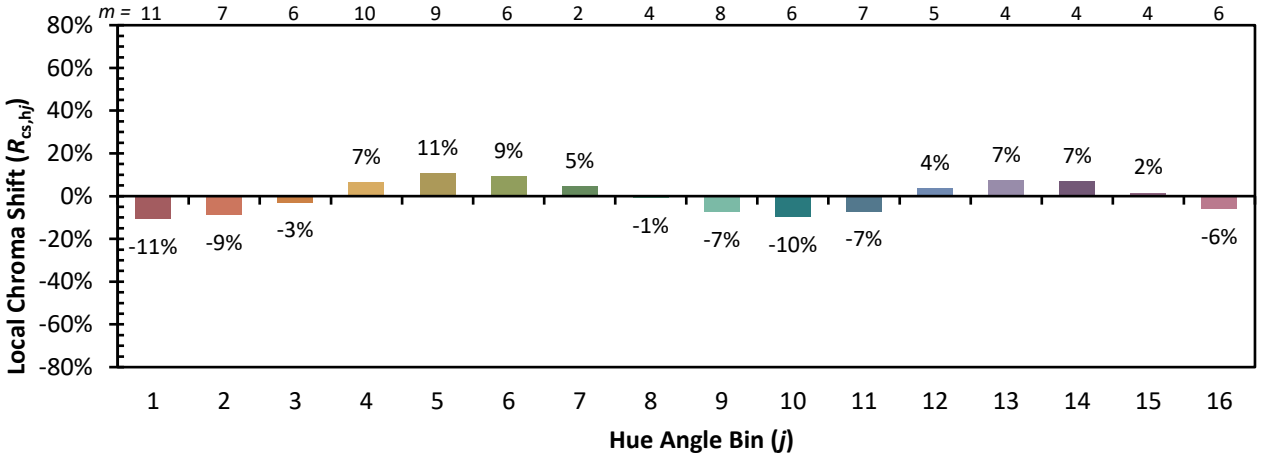
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

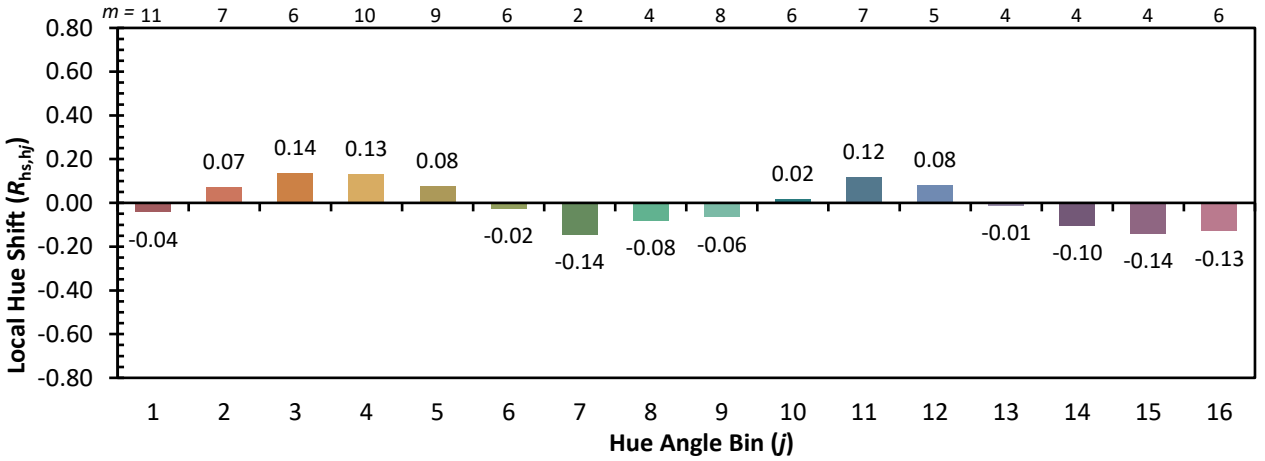


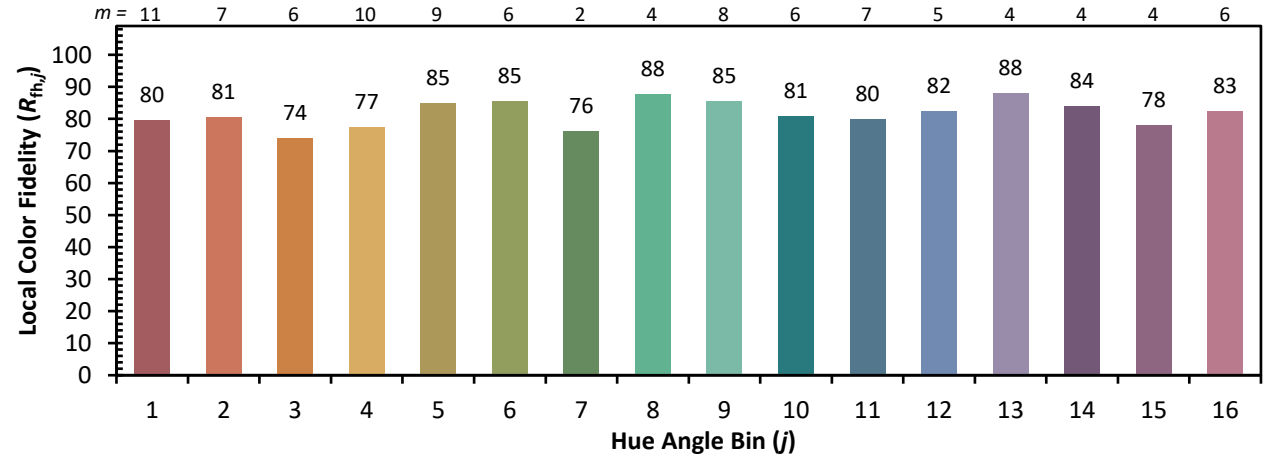
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



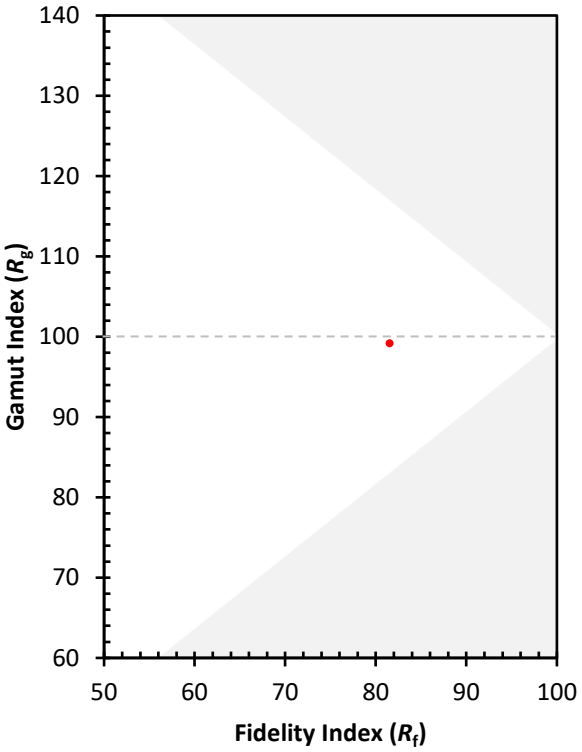


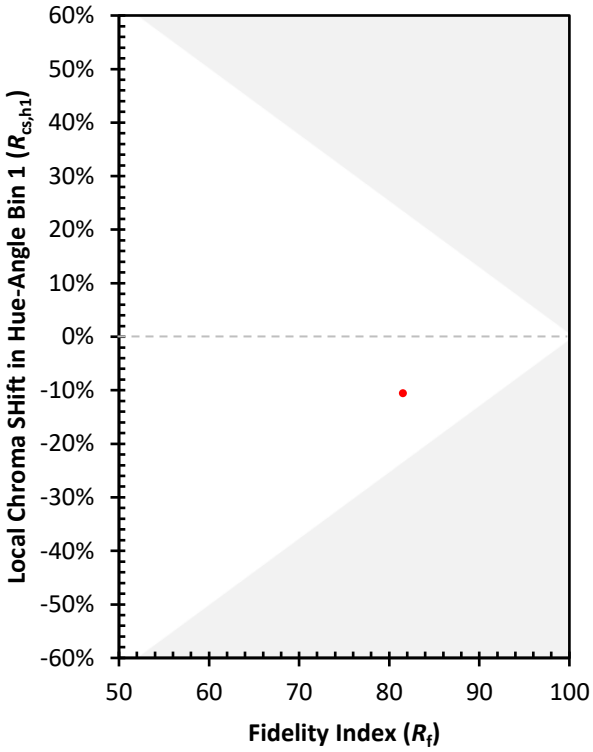


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)