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: P321759

Luminaire Tested: **GLEON-SA5B-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:	P321759
	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-SA5B-830-U-T3R-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 80 CRI, 3000K, 800mA 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:	17456 lumens
Efficiency:	N/A
Efficacy:	83.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G3

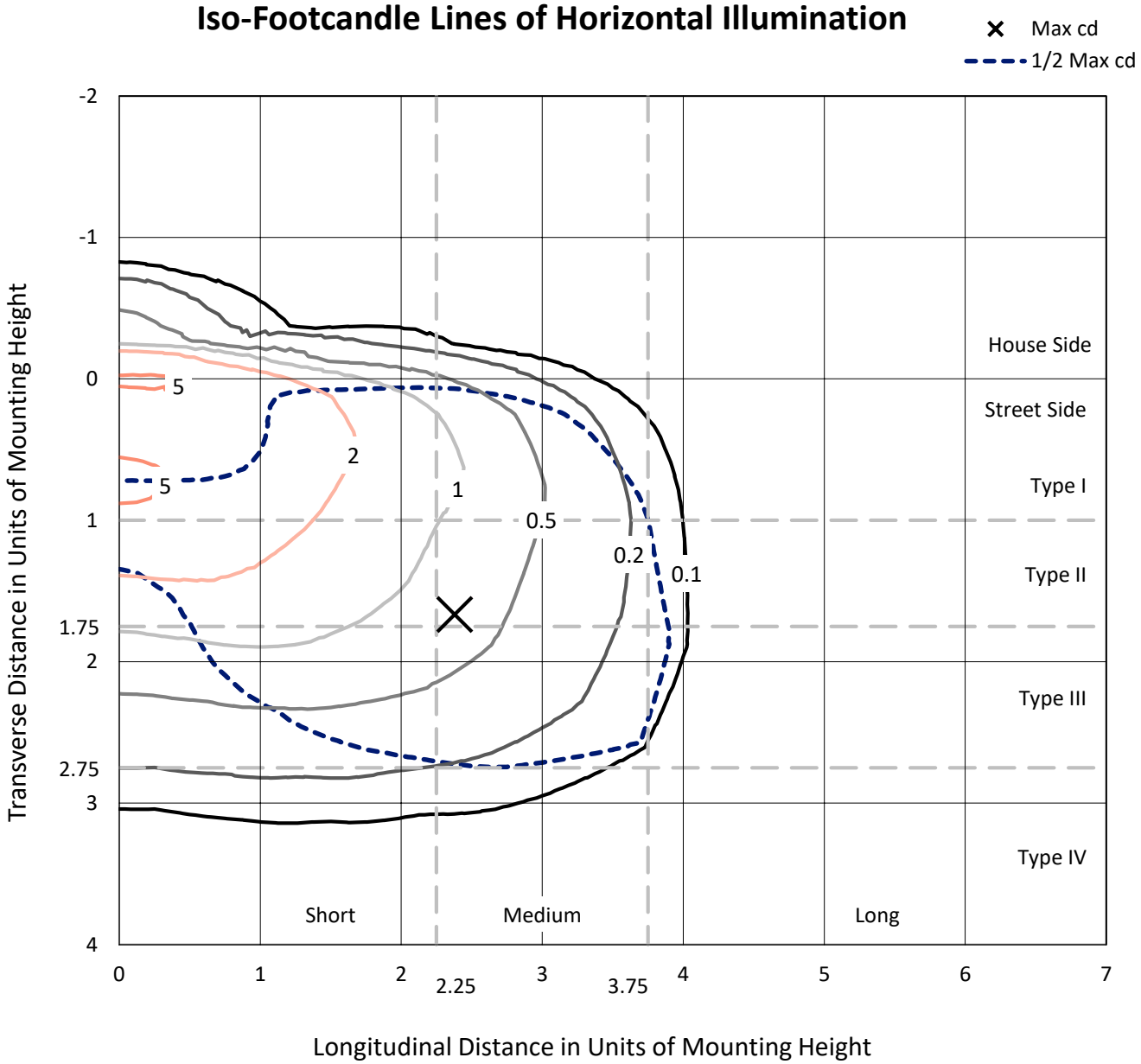
Input Watts (W):	210
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

REPORT NUMBER: P321759
CATALOG NUMBER: GLEON-SA5B-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination



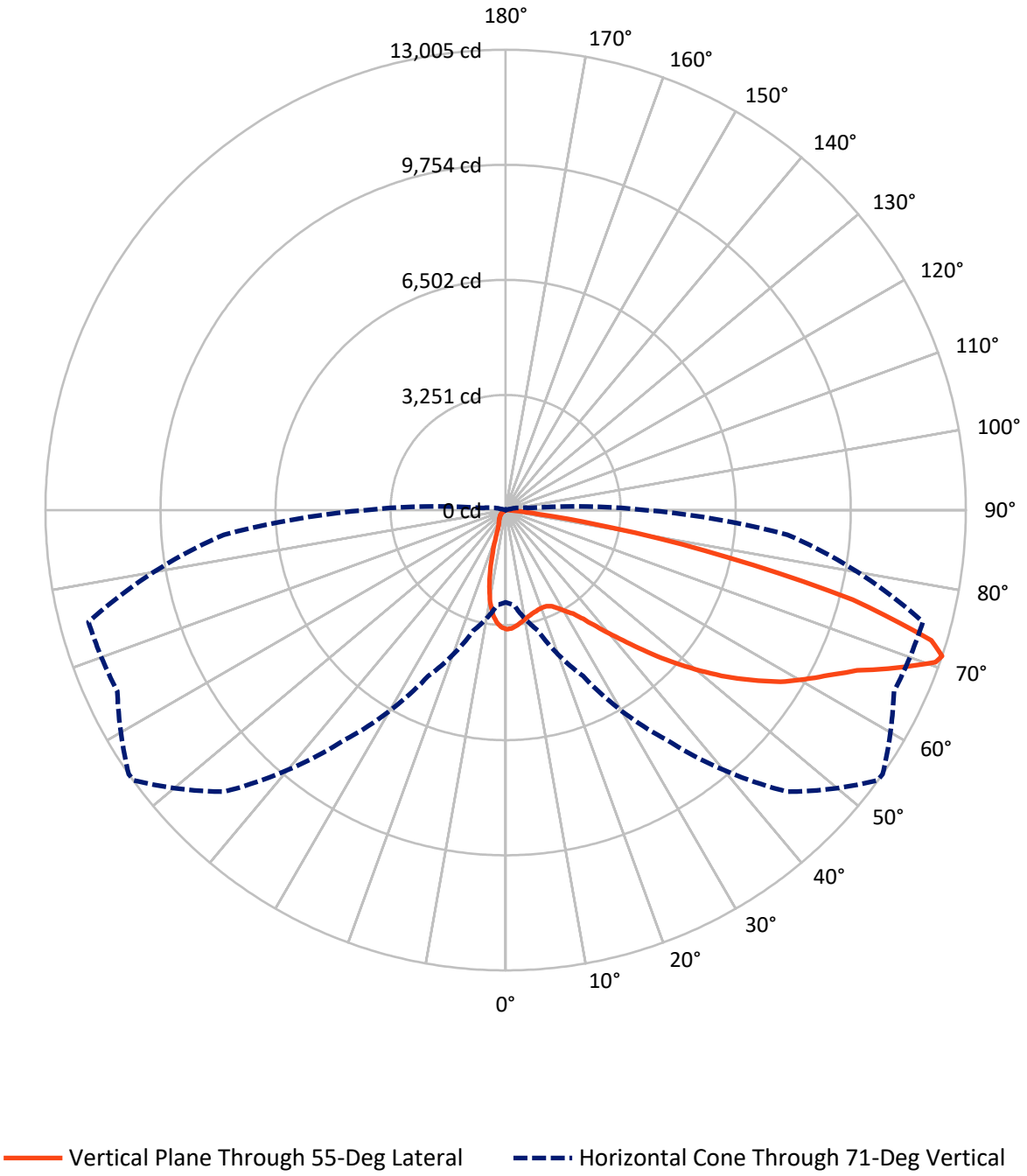
Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type III - Medium - N/A

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

Scaled Data Report

REPORT NUMBER: P321759
CATALOG NUMBER: GLEON-SA5B-830-U-T3R-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

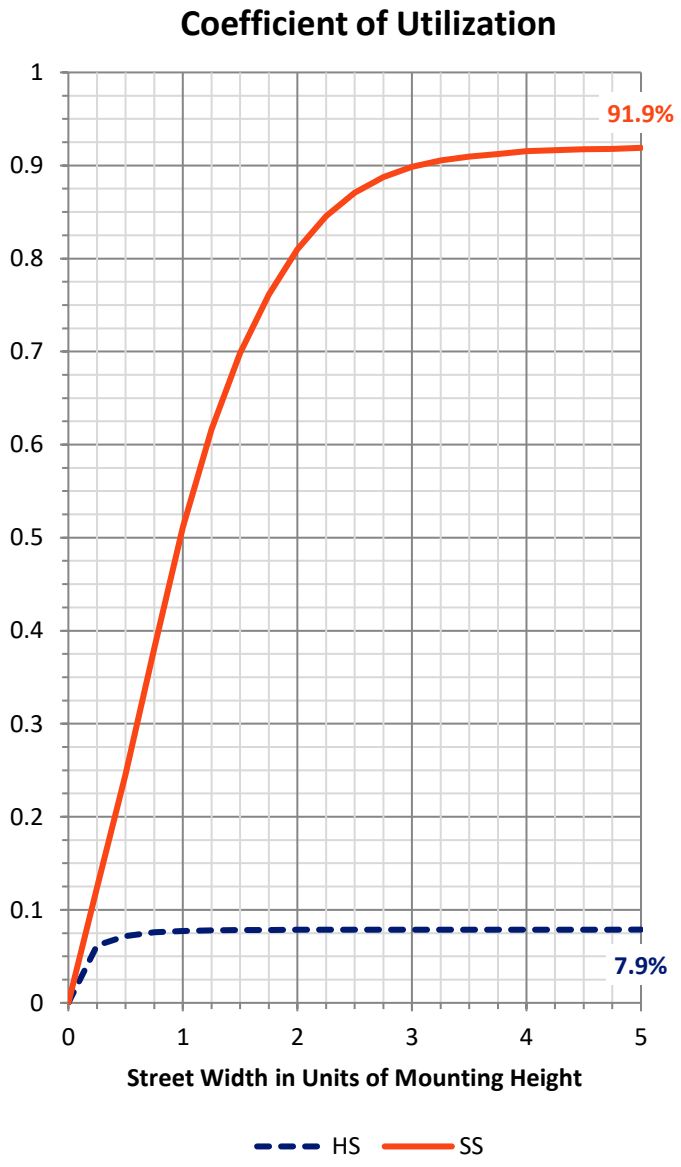
REPORT NUMBER: P321759
CATALOG NUMBER: GLEON-SA5B-830-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1382.0	0.0	1382.0
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	16074.0	0.0	16074.0
	% Fixture	92.1	0.0	92.1
Total	Lumens	17456.0	0.0	17456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.0	1.6
10°-20°	648.0	3.7
20°-30°	1041.4	6.0
30°-40°	1769.3	10.1
40°-50°	2746.2	15.7
50°-60°	3692.2	21.2
60°-70°	4516.8	25.9
70°-80°	2640.9	15.1
80°-90°	114.2	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°	17456.0	100.0
0°-180°	17456.0	100.0



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

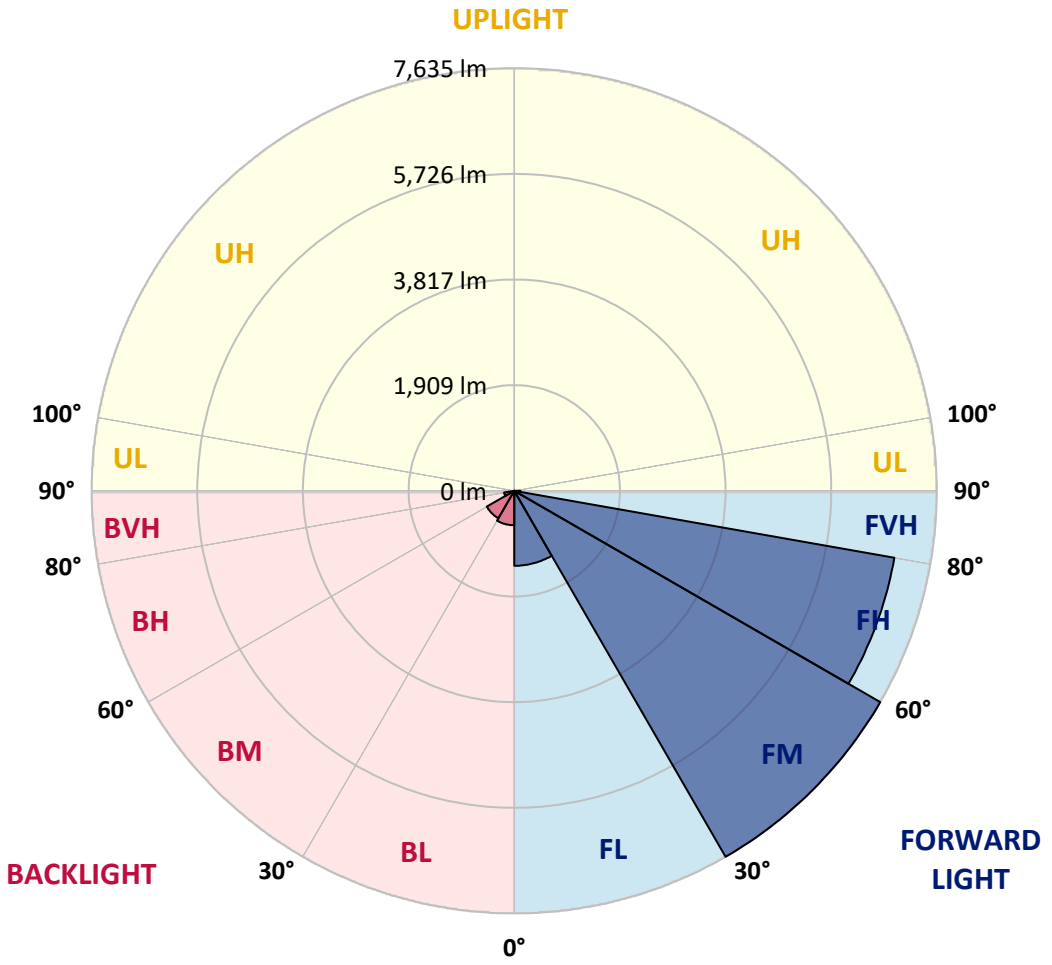
Scaled Data Report

REPORT NUMBER: P321759
CATALOG NUMBER: GLEON-SA5B-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°)	1354.3	7.8			
FM	(30°-60°)	7634.7	43.7			
FH	(60°-80°)	6972.5	39.9			G3/7500
FVH	(80°-90°)	112.4	0.6			G2/225
BL	(0°-30°)	622.1	3.6	B2/1000		
BM	(30°-60°)	573.0	3.3	B1/1000		
BH	(60°-80°)	185.2	1.1	B1/500		G1/500
BVH	(80°-90°)	1.8	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-G3
Type III Medium



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

Scaled Data Report

REPORT NUMBER: P321759
CATALOG NUMBER: GLEON-SA5B-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3366.5	3366.5	3366.5	3366.5	3366.5	3366.5	3366.5	3366.5	3366.5	3366.5	3366.5
2.5°	3267.7	3271.6	3285.7	3292.0	3306.9	3332.0	3344.5	3345.3	3365.7	3373.5	3379.8
5°	3036.5	3060.0	3083.5	3108.6	3154.0	3214.4	3274.0	3279.4	3345.3	3393.9	3419.8
7.5°	2837.4	2858.5	2886.8	2926.7	2991.0	3085.8	3185.4	3197.1	3321.8	3432.3	3490.3
10°	2632.8	2650.1	2690.8	2749.6	2838.2	2965.1	3099.2	3118.8	3300.6	3484.0	3585.9
12.5°	2414.1	2424.3	2473.7	2558.3	2688.5	2849.9	3026.3	3052.1	3287.3	3543.6	3698.8
15°	2248.0	2252.7	2299.7	2387.5	2536.4	2746.5	2969.8	3001.2	3290.4	3614.9	3821.8
17.5°	2205.6	2208.0	2233.1	2293.4	2425.1	2654.0	2925.2	2963.6	3299.8	3684.7	3945.7
20°	2377.3	2360.8	2335.0	2325.6	2382.0	2598.3	2898.5	2941.6	3312.4	3746.6	4057.0
22.5°	2848.4	2799.8	2692.4	2548.9	2461.9	2602.2	2905.6	2948.7	3352.3	3822.6	4185.5
25°	3547.5	3480.1	3297.5	3015.3	2744.1	2715.1	2964.4	3008.3	3429.9	3913.5	4308.6
27.5°	4343.1	4276.5	4053.1	3650.2	3187.7	2938.5	3099.2	3139.9	3545.2	3994.3	4402.6
30°	5104.9	5086.1	4822.8	4365.0	3745.8	3300.6	3273.2	3307.7	3630.6	4042.9	4477.1
32.5°	5750.8	5721.0	5509.4	5064.2	4384.6	3735.6	3477.8	3487.9	3694.9	4105.6	4574.3
35°	6349.6	6312.8	6127.0	5706.1	5039.9	4267.0	3792.8	3778.0	3835.2	4231.8	4715.4
37.5°	6872.4	6906.1	6700.0	6299.5	5627.7	4819.6	4217.7	4173.0	4054.6	4437.1	4920.0
40°	7309.8	7309.8	7202.4	6868.5	6262.6	5391.0	4698.1	4639.4	4384.6	4753.8	5179.4
42.5°	7467.3	7501.0	7541.0	7352.1	6830.9	5985.2	5233.5	5172.3	4849.4	5202.9	5507.0
45°	7476.7	7530.0	7734.6	7733.8	7344.3	6575.4	5837.0	5808.0	5445.1	5779.8	5913.0
47.5°	7344.3	7410.9	7747.9	7939.2	7751.1	7124.8	6497.0	6460.9	6145.0	6486.8	6337.9
50°	7139.7	7213.4	7605.3	8019.9	8027.8	7602.9	7192.2	7138.1	6915.5	7294.9	6776.8
52.5°	6773.7	6916.3	7477.5	8038.7	8209.6	8016.0	7853.7	7830.2	7777.7	8073.2	7126.4
55°	5990.6	6149.0	7156.9	8045.0	8378.1	8382.0	8473.7	8480.0	8585.8	8800.6	7386.6
57.5°	5620.7	5710.0	6597.3	8074.8	8628.2	8797.5	9105.5	9154.1	9317.9	9491.1	7683.7
60°	5387.9	5493.7	6321.4	8034.0	9020.8	9342.2	9691.0	9707.5	9883.0	10203.6	8085.8
62.5°	5202.1	5306.4	6147.4	7877.3	9462.1	9997.5	10263.2	10264.7	10396.4	11052.5	8542.7
65°	4743.6	4831.4	5795.5	7700.9	9753.7	10645.7	10927.8	10917.7	11025.0	11947.6	9073.4
67.5°	4080.5	4147.9	5076.7	7032.3	9644.0	11235.1	11931.1	11897.4	11767.3	12721.2	9281.8
70°	3154.8	3179.1	4001.3	5860.5	8615.6	11461.6	12900.7	12883.4	12222.7	12582.5	8517.6
71°	2607.7	2687.7	3526.3	5172.3	7926.6	11252.3	12994.7	13004.9	12108.3	12204.7	7991.7
72.5°	1514.3	1582.5	2556.0	3972.3	6729.8	10379.2	12507.2	12580.9	11573.7	11101.1	6826.2
75°	324.5	347.2	947.6	1922.7	3701.9	7274.5	9872.1	10134.6	9433.1	7552.0	4114.2
77.5°	225.7	243.8	406.0	872.4	1223.5	3594.5	6132.5	6428.8	5635.6	2838.2	1316.8
80°	178.7	199.1	316.7	431.1	330.8	1159.3	2872.7	3053.7	1879.6	633.3	221.8
82.5°	99.5	118.4	246.9	232.8	127.0	220.2	804.2	909.2	376.2	127.8	52.5
85°	29.0	35.3	159.1	169.3	54.1	42.3	137.2	170.1	71.3	33.7	23.5
87.5°	0.0	0.0	76.8	65.1	15.7	6.3	12.5	14.1	14.1	14.1	15.7
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: P321759
CATALOG NUMBER: GLEON-SA5B-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3366.5	3366.5	3366.5	3366.5	3366.5	3366.5	3366.5	3366.5	3366.5	3366.5	3366.5
2.5°	3379.8	3385.3	3365.7	3339.8	3312.4	3278.7	3243.4	3216.0	3215.2	3201.9	3188.5
5°	3421.3	3418.2	3364.1	3281.8	3184.6	3083.5	2987.1	2878.1	2842.1	2797.4	2782.5
7.5°	3498.1	3476.2	3361.7	3181.5	2968.3	2756.7	2538.0	2317.7	2223.7	2139.0	2124.1
10°	3594.5	3553.0	3346.9	3031.0	2639.9	2249.5	1919.5	1620.1	1488.5	1387.3	1382.6
12.5°	3694.9	3631.4	3305.3	2803.7	2209.6	1660.9	1280.7	986.0	876.3	805.8	812.0
15°	3799.9	3705.1	3216.0	2497.2	1719.7	1127.1	786.9	613.7	569.8	551.8	556.5
17.5°	3907.3	3756.0	3091.3	2128.0	1236.1	727.4	544.7	496.2	496.2	500.1	501.6
20°	4000.6	3783.4	2907.9	1714.2	837.9	529.9	476.6	469.5	473.4	479.7	480.5
22.5°	4093.0	3785.0	2668.9	1294.8	586.3	464.0	453.8	450.7	453.0	460.1	460.9
25°	4168.3	3766.2	2369.4	921.0	467.9	437.4	432.7	431.1	432.7	441.3	441.3
27.5°	4198.9	3698.0	2004.2	647.4	419.3	407.6	406.0	407.6	409.9	416.2	417.0
30°	4202.0	3578.9	1606.0	468.7	380.1	367.6	370.7	376.2	373.9	372.3	373.9
32.5°	4209.8	3440.9	1218.0	385.6	347.2	327.6	323.7	323.7	314.3	308.8	305.7
35°	4235.7	3278.7	883.4	346.4	313.5	290.8	275.9	258.7	240.6	231.2	228.9
37.5°	4276.5	3108.6	632.5	320.6	283.7	257.9	229.7	199.1	173.2	166.2	166.2
40°	4350.9	2933.0	467.9	300.2	260.2	228.1	185.8	145.8	122.3	118.4	118.4
42.5°	4468.5	2748.0	373.1	282.2	239.8	197.5	141.9	105.8	88.6	86.2	85.4
45°	4590.8	2544.2	326.1	264.9	217.9	162.2	105.0	78.4	68.2	65.8	65.8
47.5°	4713.0	2327.1	303.3	248.5	196.7	126.2	78.4	61.9	57.2	57.2	58.0
50°	4816.5	2100.6	286.9	230.4	169.3	95.6	61.9	52.5	50.9	54.1	54.9
52.5°	4842.4	1878.0	266.5	207.7	135.6	72.9	50.9	46.2	46.2	46.2	46.2
55°	4826.7	1705.6	239.8	179.5	100.3	58.0	43.9	40.8	40.0	40.0	40.0
57.5°	4880.0	1603.7	192.0	139.5	72.1	47.0	38.4	36.1	34.5	33.7	33.7
60°	4987.4	1537.0	137.2	100.3	54.1	39.2	32.9	30.6	28.2	26.6	26.6
62.5°	5130.0	1479.0	101.9	74.5	41.5	31.4	27.4	25.1	21.9	20.4	20.4
65°	5239.8	1375.6	77.6	55.7	31.4	25.1	21.2	20.4	15.7	14.1	13.3
67.5°	5072.0	1148.3	62.7	40.8	23.5	19.6	16.5	15.7	9.4	7.8	7.8
70°	4350.1	799.5	50.2	29.8	17.2	15.7	13.3	10.2	7.1	6.3	6.3
71°	*3944.9*	*667.8*	*45.5*	*25.1*	*14.9*	*14.9*	*12.5*	*8.6*	*6.3*	*5.5*	*5.5*
72.5°	3277.1	474.2	38.4	19.6	13.3	15.7	13.3	7.8	6.3	5.5	4.7
75°	1902.3	198.3	26.6	13.3	10.2	18.8	17.2	7.1	4.7	3.9	3.9
77.5°	572.2	72.9	14.9	8.6	7.8	16.5	19.6	6.3	2.4	0.8	0.8
80°	104.2	31.4	9.4	5.5	5.5	10.2	14.9	3.1	0.0	0.0	0.0
82.5°	36.8	15.7	5.5	3.1	2.4	4.7	7.1	0.0	0.0	0.0	0.0
85°	21.2	11.0	3.1	1.6	0.0	0.8	1.6	0.0	0.0	0.0	0.0
87.5°	14.1	3.1	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

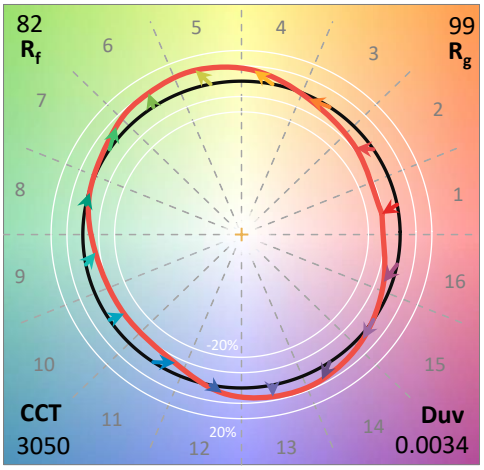
Test Information

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

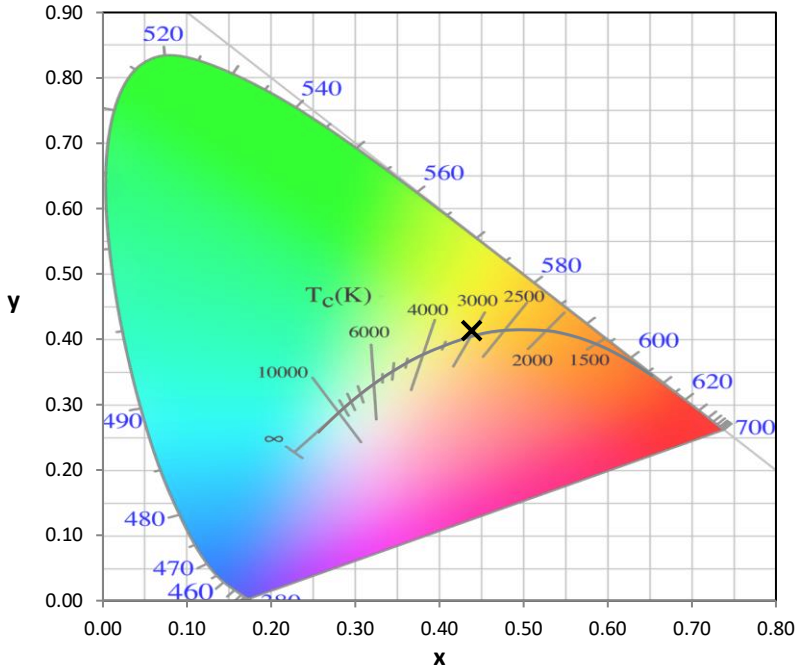
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

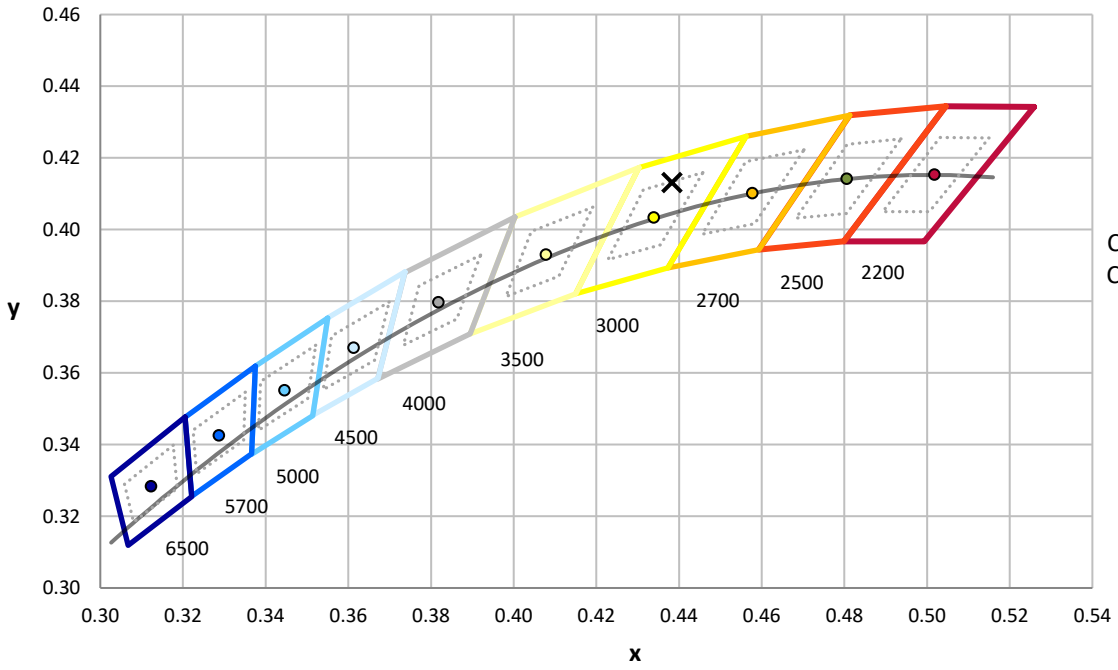
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

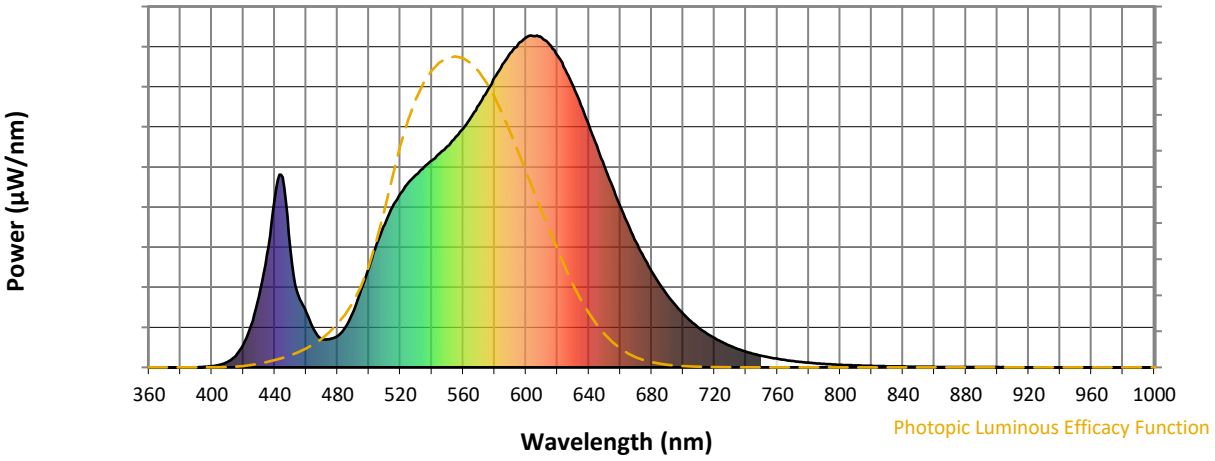


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

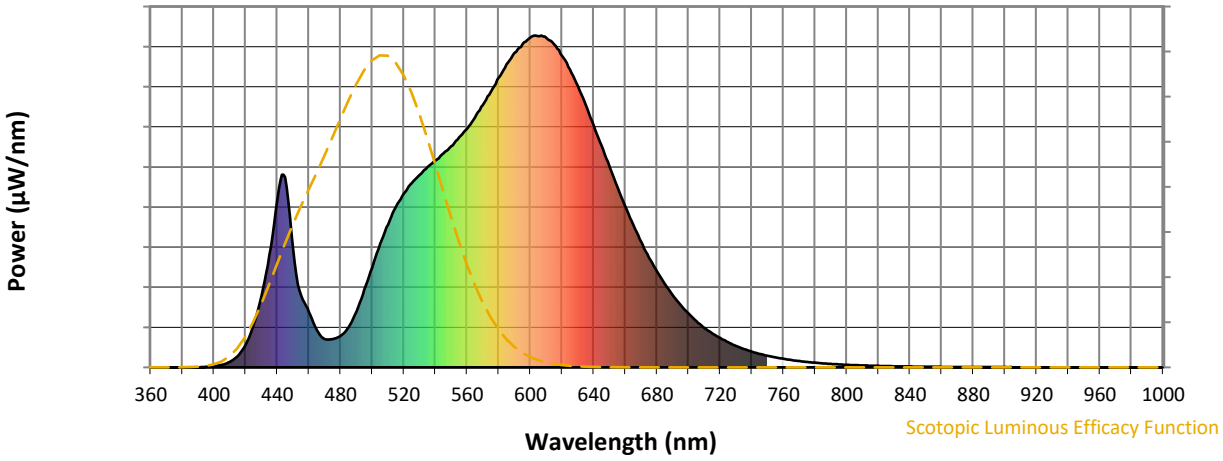


Photopic Lumens: NR

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

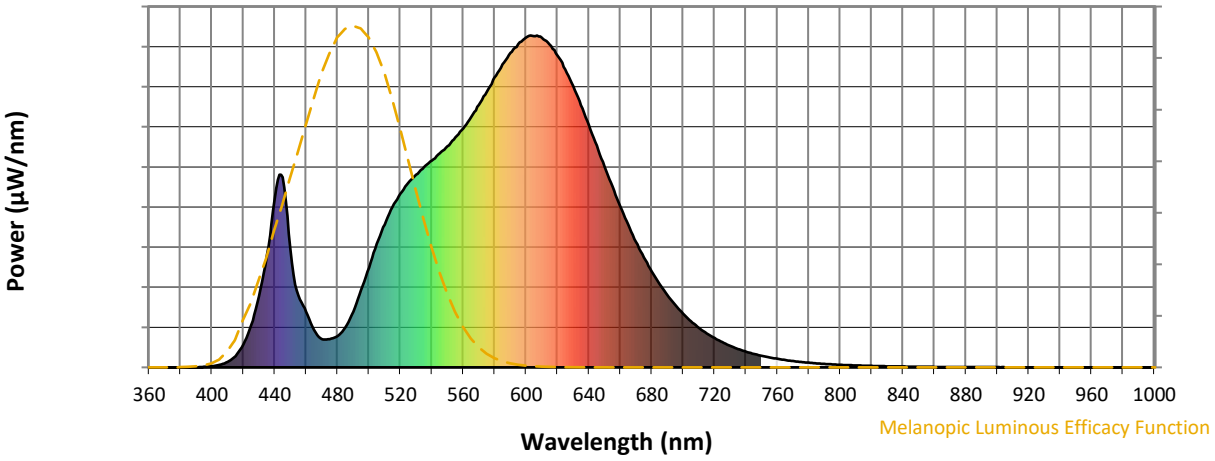


Scotopic Lumens: NR **S/P: 1.27**

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			

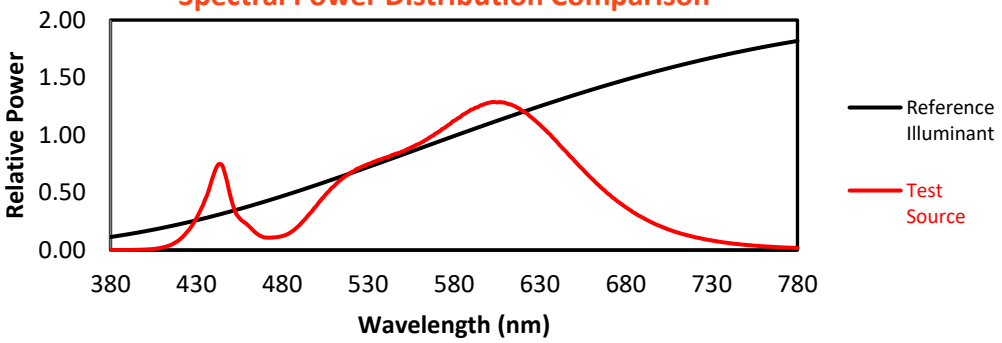
REPORT NUMBER: SP1-2408-195-9

TM-30-18

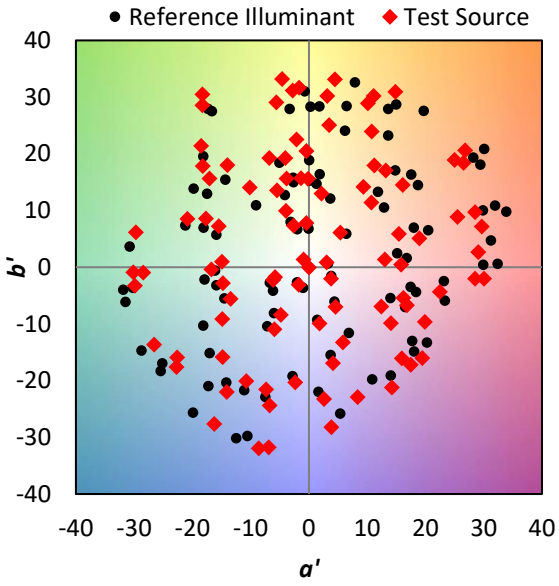
Summary

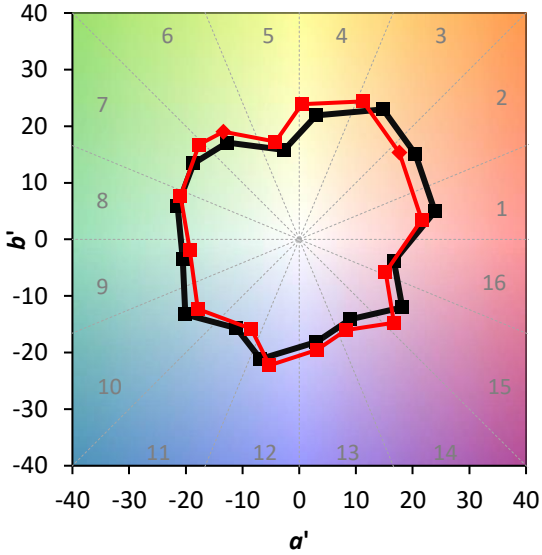
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

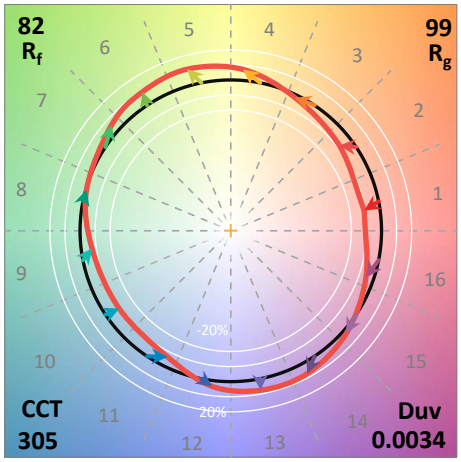
Spectral Power Distribution Comparison

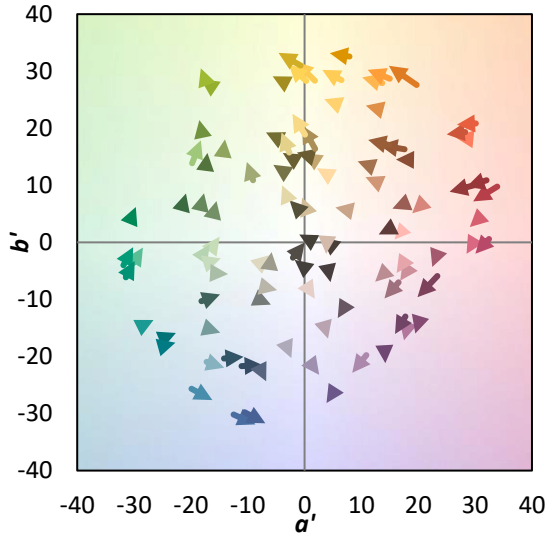


Color Vector Graphics







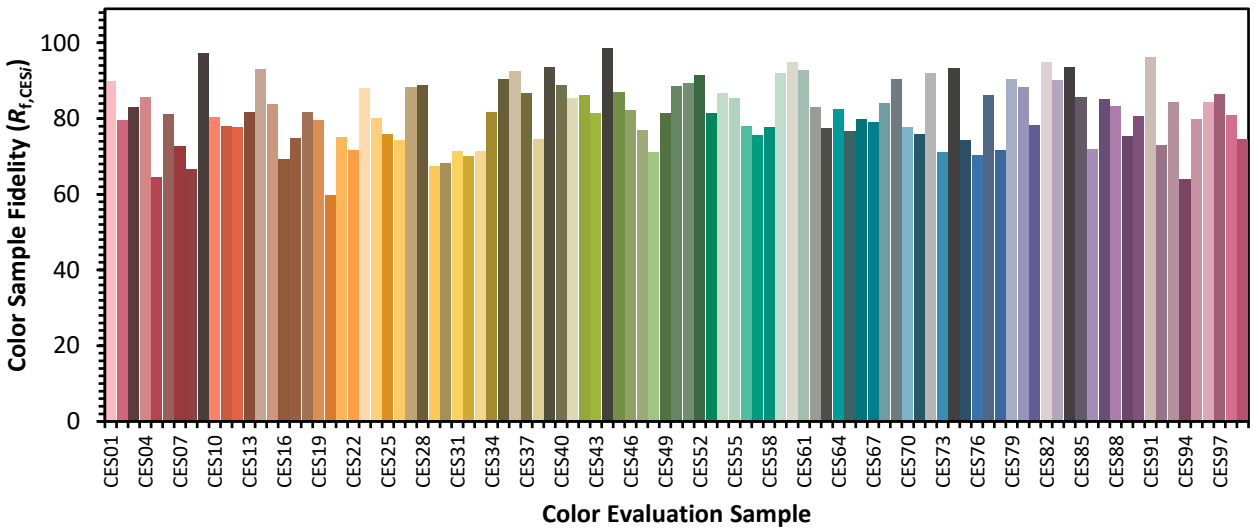


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

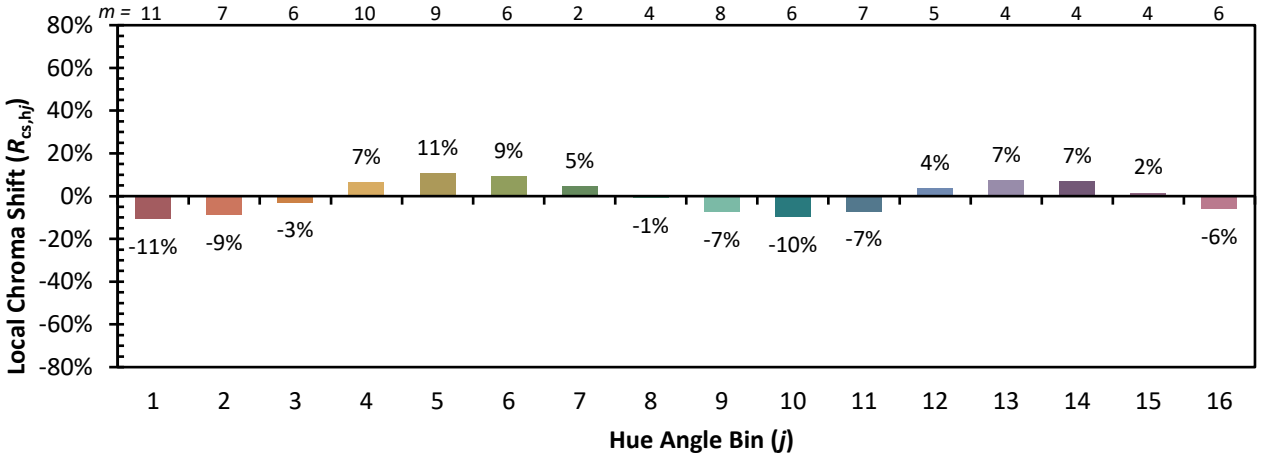
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

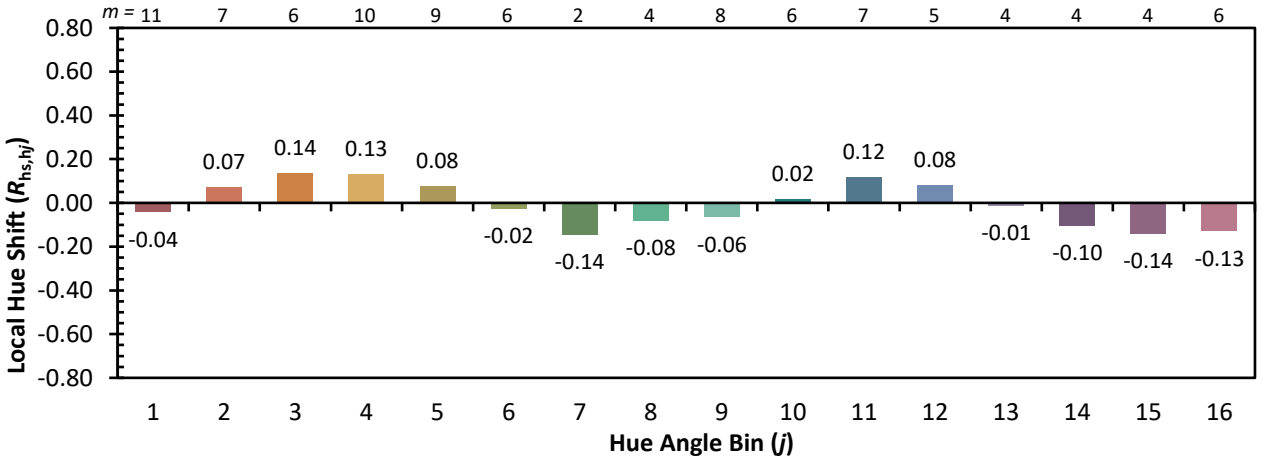


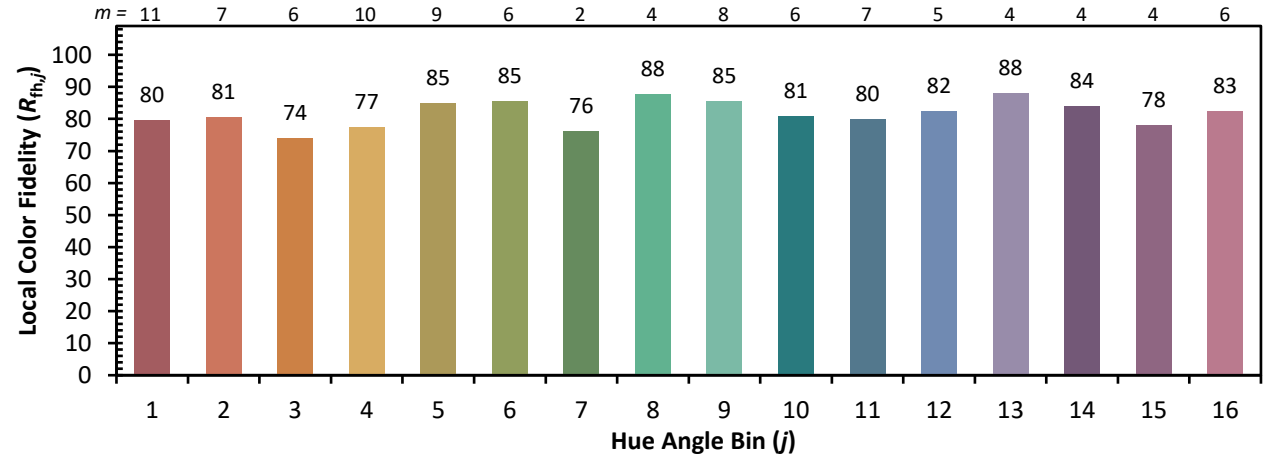
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



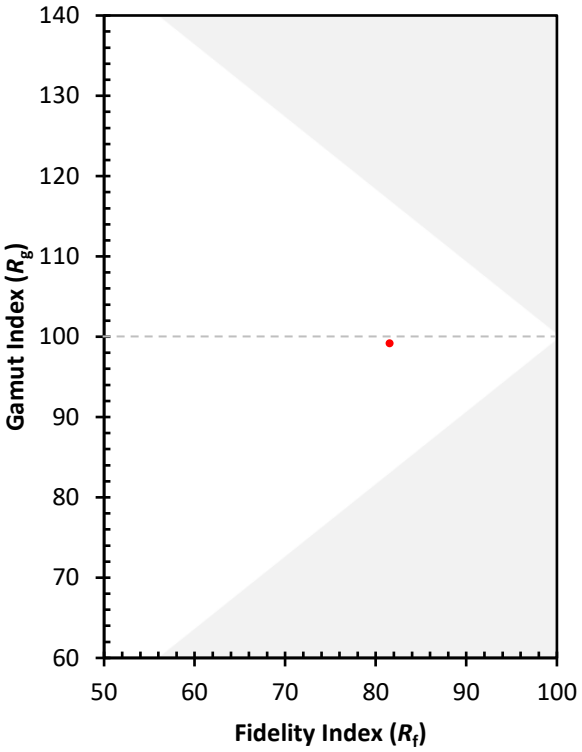


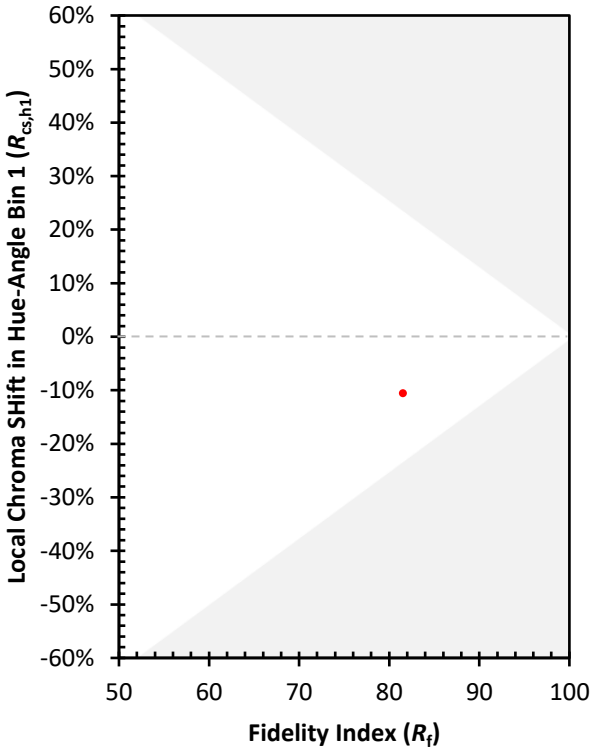


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)