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: P324971

Luminaire Tested: **GLEON-SA7C-830-U-AFL-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:	P324971
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA7C-830-U-AFL-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	32545 lumens
Efficiency:	N/A
Efficacy:	83.2 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

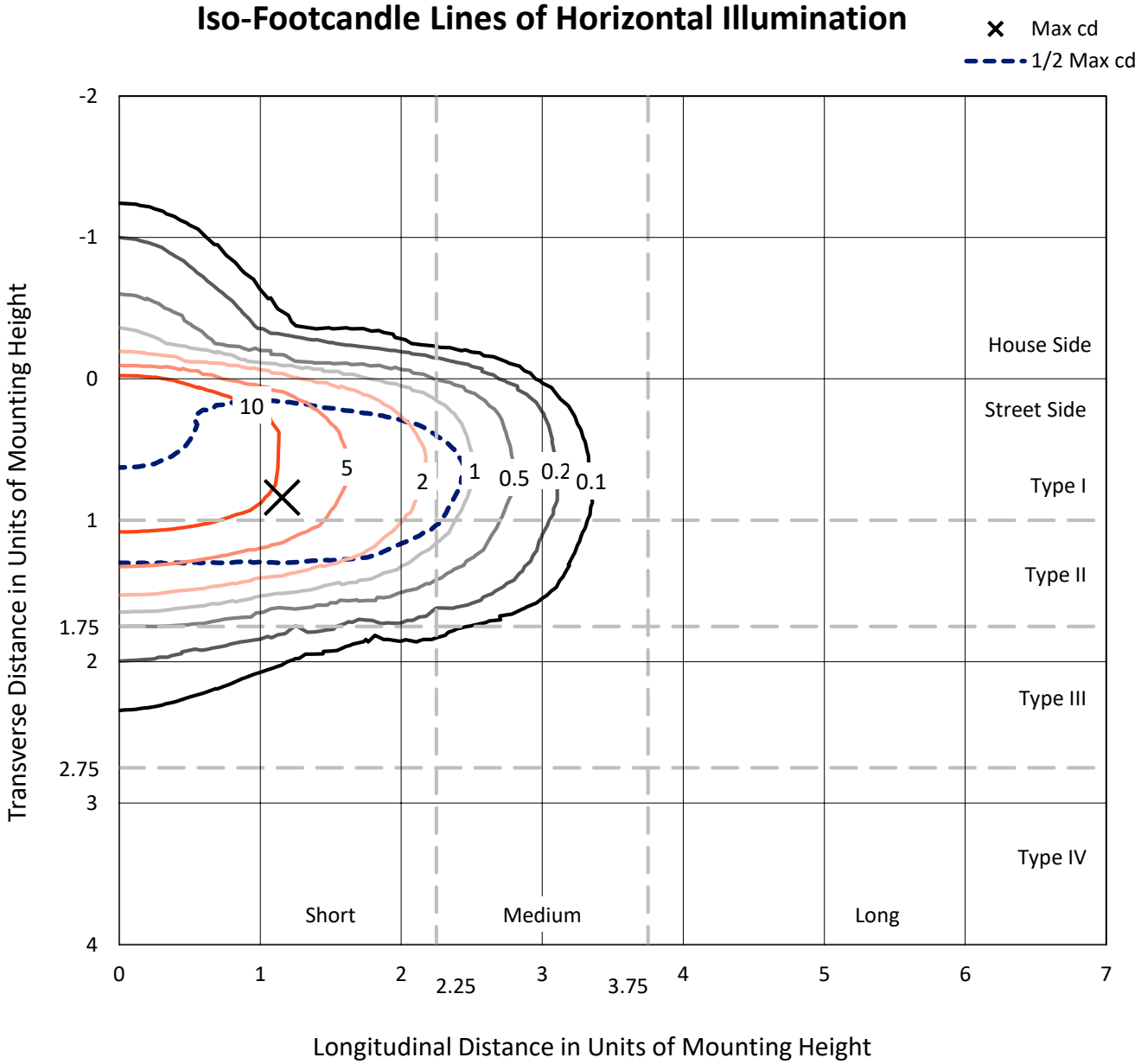
Input Watts (W):	391
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

REPORT NUMBER: P324971
CATALOG NUMBER: GLEON-SA7C-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination



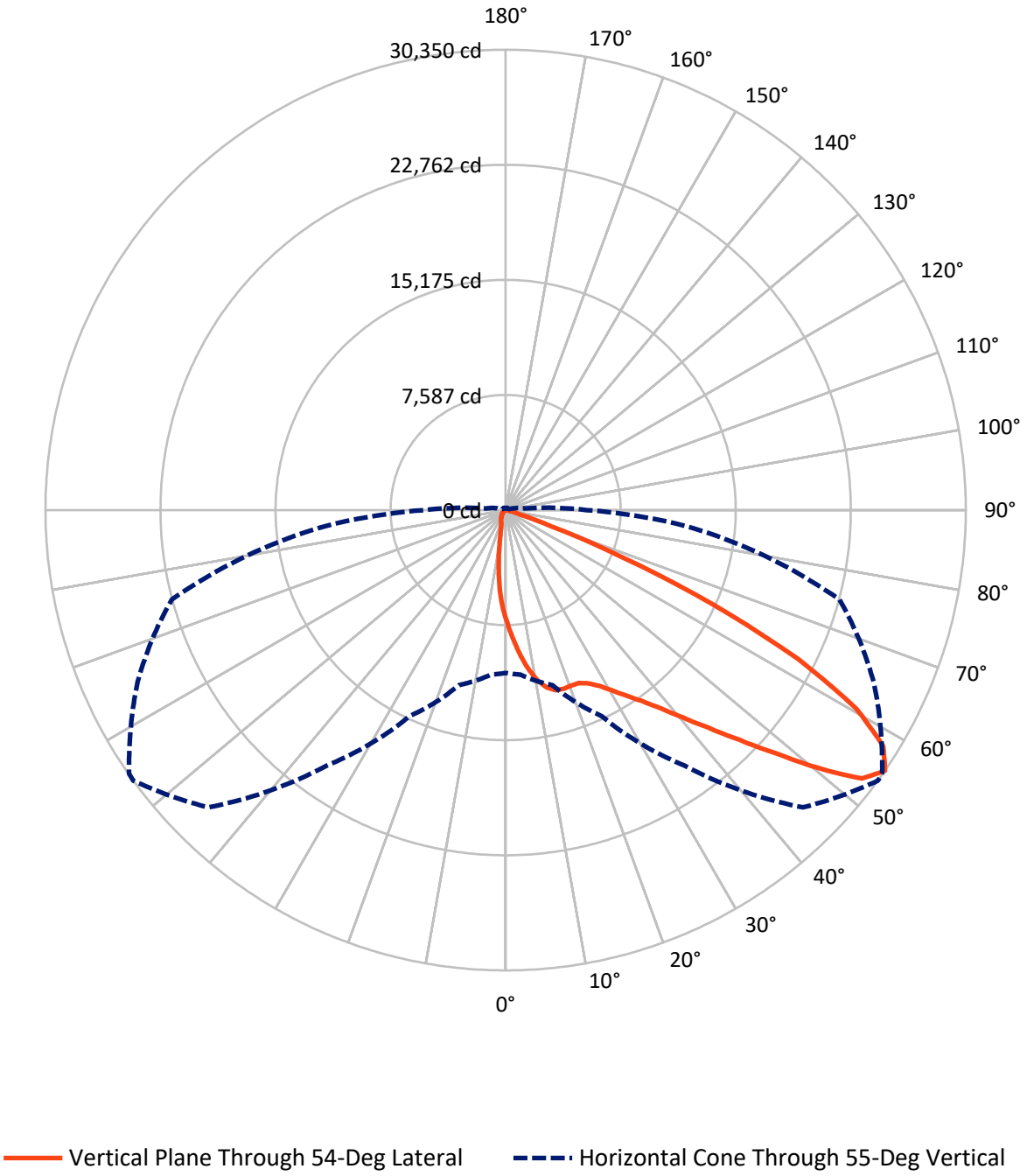
Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
Type II - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P324971
CATALOG NUMBER: GLEON-SA7C-830-U-AFL-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

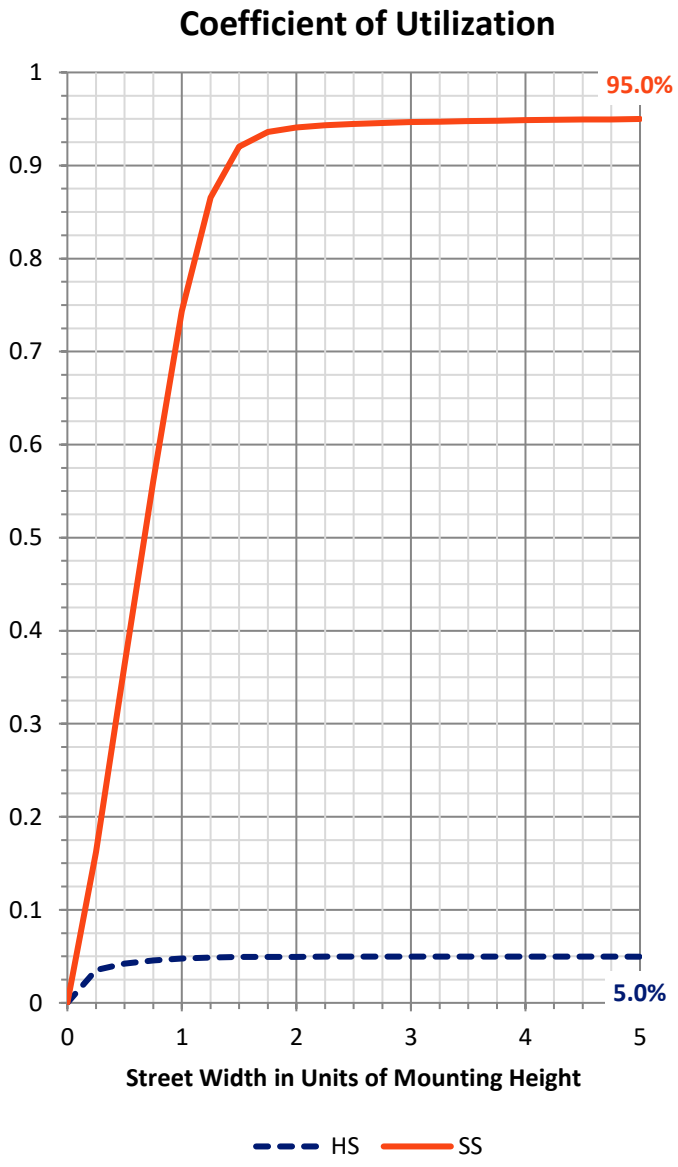
REPORT NUMBER: P324971
CATALOG NUMBER: GLEON-SA7C-830-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1623.7	0.0	1623.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	30921.3	0.0	30921.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	32545.0	0.0	32545.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.2	2.1
10°-20°	1840.8	5.7
20°-30°	3142.9	9.7
30°-40°	5043.8	15.5
40°-50°	8060.0	24.8
50°-60°	8636.5	26.5
60°-70°	4434.3	13.6
70°-80°	671.7	2.1
80°-90°	43.7	0.1
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°	32545.0	100.0
0°-180°	32545.0	100.0



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

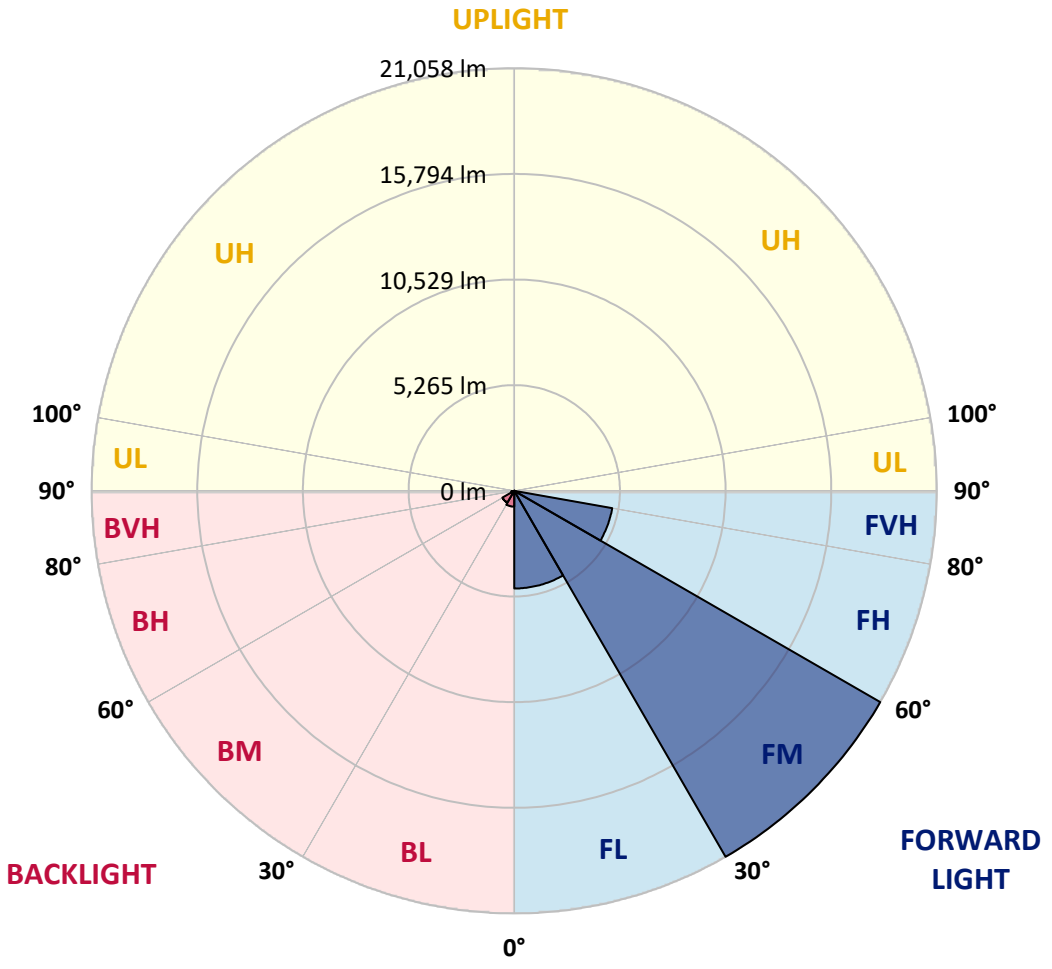
Scaled Data Report

REPORT NUMBER: P324971
CATALOG NUMBER: GLEON-SA7C-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	4864.9	14.9			
FM	(30°-60°)	21058.1	64.7			
FH	(60°-80°)	4956.3	15.2			G2/5000
FVH	(80°-90°)	42.0	0.1			G1/100
BL	(0°-30°)	790.0	2.4	B2/1000		
BM	(30°-60°)	682.3	2.1	B1/1000		
BH	(60°-80°)	149.6	0.5	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-G2
Type II Short



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

Scaled Data Report

REPORT NUMBER: P324971
CATALOG NUMBER: GLEON-SA7C-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7288.8	7288.8	7288.8	7288.8	7288.8	7288.8	*7288.8*	7288.8	7288.8	7288.8	7288.8
2.5°	9146.8	9010.5	9014.7	8952.9	8726.6	8549.5	*8365.4*	8321.8	8035.1	7734.3	7444.8
5°	10728.0	10628.2	10604.3	10484.8	10170.0	9836.9	*9479.9*	9397.0	8836.2	8220.6	7614.8
7.5°	11540.3	11541.7	11522.1	11478.5	11281.7	10958.5	*10522.8*	10435.6	9672.5	8749.1	7791.9
10°	11304.2	11357.6	11467.2	11612.0	11762.4	11721.6	*11394.2*	11315.4	10486.2	9308.4	7988.7
12.5°	10753.3	10760.3	10882.6	11120.1	11553.0	11997.1	*12002.7*	11976.0	11263.4	9893.1	8205.1
15°	10479.2	10505.9	10550.9	10704.1	11114.5	11825.6	*12334.4*	12372.4	11976.0	10514.3	8435.6
17.5°	10659.1	10697.0	10659.1	10677.4	10914.9	11554.4	*12392.0*	12489.0	12598.6	11128.5	8653.5
20°	11146.8	11181.9	11114.5	11040.0	11086.4	11475.7	*12351.3*	12482.0	13086.3	11673.8	8836.2
22.5°	11804.6	11818.6	11716.0	11593.7	11560.0	11742.7	*12385.0*	12519.9	13477.1	12167.2	8951.4
25°	12528.4	12541.0	12413.1	12272.6	12192.5	12267.0	*12661.9*	12763.1	13821.4	12638.0	9017.5
27.5°	13316.8	13328.1	13167.9	12995.0	12902.2	12905.0	*13118.7*	13226.9	14188.2	13174.9	9070.9
30°	14150.3	14144.7	13997.1	13756.8	13638.7	13635.9	*13776.4*	13886.1	14719.5	13863.6	9144.0
32.5°	15086.3	15075.1	14865.7	14567.7	14434.2	14453.9	*14579.0*	14642.2	15378.7	14597.2	9274.7
35°	16318.9	16286.6	15970.4	15600.7	15354.8	15347.7	*15453.2*	15503.8	16219.1	15485.5	9492.6
37.5°	17918.4	17888.8	17460.2	16923.3	16577.5	16448.2	*16573.3*	16638.0	17418.0	16625.3	9842.5
40°	19495.3	19465.8	19211.4	18719.5	18186.8	17876.2	*17974.6*	18043.4	18914.8	18008.3	10283.8
42.5°	20583.1	20608.4	20697.0	20737.7	20238.8	19586.6	*19631.6*	19703.3	20487.6	19486.9	10788.4
45°	20869.8	20924.7	21425.0	22407.4	22594.4	22085.6	*21614.7*	21654.1	22085.6	20965.4	11293.0
47.5°	20008.3	20109.5	21075.0	22902.2	24484.7	24844.5	*23953.4*	23901.4	23618.9	22161.5	11651.4
50°	18050.5	18143.2	19394.1	22096.8	25058.1	27478.4	*26756.0*	26602.8	24964.0	22876.9	11777.8
52.5°	15217.0	15329.5	16345.6	19561.3	23977.3	28653.3	*29409.5*	29281.6	25950.6	22933.1	11798.9
55°	*10746.2*	*10882.6*	*11957.7*	*14992.2*	*20552.2*	*27718.7*	*30349.7*	*30311.8*	*26770.0*	*22784.1*	*11843.9*
57.5°	6039.3	6137.7	7297.2	9610.6	15052.6	24143.2	*29367.3*	29618.9	27264.7	22525.5	11911.4
60°	2681.6	2708.3	3308.5	4784.2	8812.3	18451.0	*26555.0*	26979.4	26840.3	22179.7	12025.2
62.5°	1487.0	1464.5	1464.5	1988.7	3829.9	11422.3	*21654.1*	22355.4	25028.6	21770.7	12030.8
65°	1165.1	1144.1	1083.6	1092.1	1458.9	5069.5	*14995.0*	16241.6	21588.0	20571.9	11626.1
67.5°	988.0	969.8	909.3	885.4	906.5	1672.5	*8238.9*	9533.3	16380.8	17456.0	10070.2
70°	834.8	822.2	791.3	761.8	708.4	826.4	*3152.5*	4032.3	10094.1	11612.0	6874.2
72.5°	671.8	666.2	677.4	652.1	587.5	550.9	*1078.0*	1305.7	4534.1	5182.0	2832.0
75°	579.1	576.2	581.9	556.6	483.5	383.7	*548.1*	598.7	1279.0	1267.7	573.4
77.5°	376.7	380.9	482.1	470.8	416.0	255.8	*283.9*	306.4	387.9	290.9	174.3
80°	240.3	237.5	244.6	390.7	373.9	195.4	*142.0*	149.0	186.9	143.4	84.3
82.5°	146.2	143.4	160.2	182.7	188.3	136.3	*87.1*	88.5	116.7	92.8	45.0
85°	12.6	16.9	97.0	90.0	64.7	42.2	*42.2*	45.0	61.8	54.8	25.3
87.5°	0.0	0.0	16.9	25.3	14.1	15.5	*15.5*	16.9	23.9	23.9	12.6
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: P324971
CATALOG NUMBER: GLEON-SA7C-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7288.8	7288.8	7288.8	7288.8	7288.8	7288.8	7288.8	7288.8	7288.8	7288.8	7288.8
2.5°	7294.4	7148.2	6853.1	6569.2	6328.8	6096.9	5832.7	5571.3	5449.0	5399.8	5349.2
5°	7307.0	7006.3	6397.7	5784.9	5149.6	4577.6	4089.9	3589.6	3339.4	3229.8	3179.2
7.5°	7323.9	6865.7	5881.9	4853.1	3829.9	3054.1	2376.7	1941.0	1752.6	1723.1	1650.0
10°	7326.7	6695.7	5283.2	3824.3	2567.8	1841.2	1416.7	1191.8	1108.9	1094.9	1071.0
12.5°	7332.3	6494.7	4618.4	2832.0	1711.9	1231.2	1024.6	950.1	927.6	926.2	926.2
15°	7349.2	6283.9	3928.3	2040.7	1229.8	975.4	899.5	870.0	861.6	865.8	864.4
17.5°	7349.2	6035.1	3250.9	1520.7	993.7	877.0	834.8	815.2	812.4	816.6	818.0
20°	7295.8	5732.9	2629.6	1183.4	881.2	813.8	775.8	757.5	750.5	753.3	754.7
22.5°	7167.9	5361.9	2123.7	979.6	806.7	756.1	715.4	687.3	676.0	677.4	677.4
25°	6968.3	4922.0	1661.3	847.5	746.3	694.3	646.5	614.2	607.2	605.8	608.6
27.5°	6712.5	4435.7	1322.5	746.3	674.6	625.4	577.6	550.9	545.3	546.7	548.1
30°	6461.0	3931.1	1042.9	660.6	594.5	548.1	511.6	498.9	498.9	503.2	504.6
32.5°	6230.5	3446.2	825.0	586.1	522.8	480.7	459.6	458.2	465.2	468.0	469.4
35°	6032.3	2997.9	683.1	528.5	466.6	430.1	423.0	428.7	437.1	442.7	444.1
37.5°	5891.7	2597.3	597.3	480.7	423.0	393.5	392.1	403.4	414.6	427.3	430.1
40°	5832.7	2258.6	538.3	438.5	387.9	365.4	361.2	376.7	397.7	416.0	418.8
42.5°	5783.5	1981.7	487.7	397.7	359.8	327.5	326.1	345.7	371.0	389.3	393.5
45°	5741.3	1759.6	441.3	354.2	323.3	281.1	285.3	310.6	330.3	350.0	354.2
47.5°	5654.2	1576.9	390.7	307.8	267.0	240.3	248.8	271.3	286.7	316.2	320.4
50°	5498.2	1428.0	338.7	251.6	217.8	208.0	220.7	236.1	255.8	281.1	283.9
52.5°	5392.8	1315.5	293.7	210.8	179.9	182.7	195.4	201.0	212.2	222.1	219.3
55°	*5332.4*	*1253.7*	*257.2*	*182.7*	*153.2*	*161.6*	*164.4*	*157.4*	*151.8*	*142.0*	*137.7*
57.5°	5325.3	1197.5	229.1	158.8	134.9	139.1	129.3	105.4	85.7	74.5	71.7
60°	5314.1	1128.6	206.6	133.5	119.5	113.8	92.8	57.6	40.8	37.9	37.9
62.5°	5191.8	1021.8	189.7	112.4	101.2	85.7	53.4	26.7	22.5	23.9	23.9
65°	4802.5	872.8	172.9	91.4	80.1	61.8	26.7	15.5	8.4	9.8	9.8
67.5°	4082.9	695.7	154.6	70.3	60.4	39.4	15.5	7.0	0.0	0.0	0.0
70°	2733.6	431.5	130.7	49.2	39.4	23.9	11.2	1.4	0.0	0.0	0.0
72.5°	1048.5	233.3	105.4	29.5	25.3	16.9	7.0	0.0	0.0	0.0	0.0
75°	236.1	153.2	73.1	21.1	18.3	11.2	2.8	0.0	0.0	0.0	0.0
77.5°	90.0	111.0	42.2	14.1	12.6	7.0	0.0	0.0	0.0	0.0	0.0
80°	43.6	66.1	19.7	8.4	7.0	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	22.5	25.3	8.4	4.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.6	12.6	4.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	4.2	1.4	1.4	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

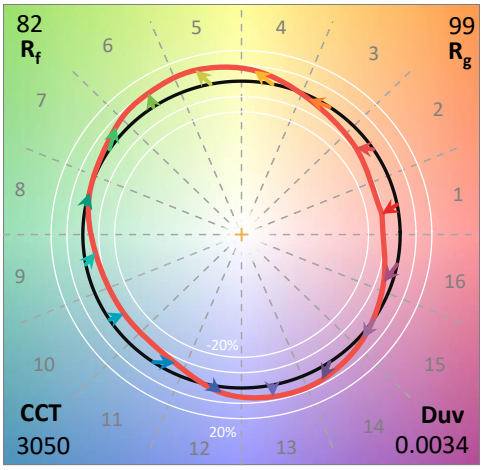
Test Information

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

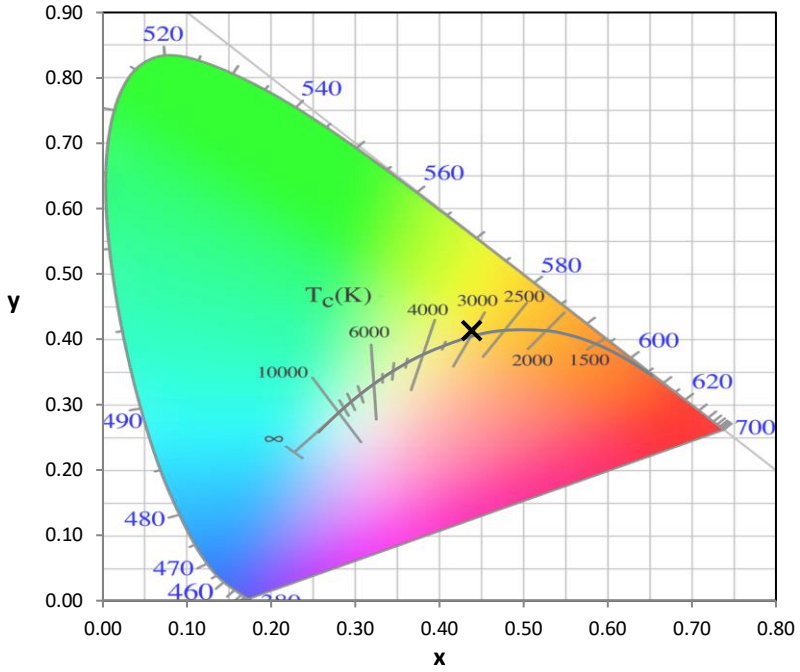
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

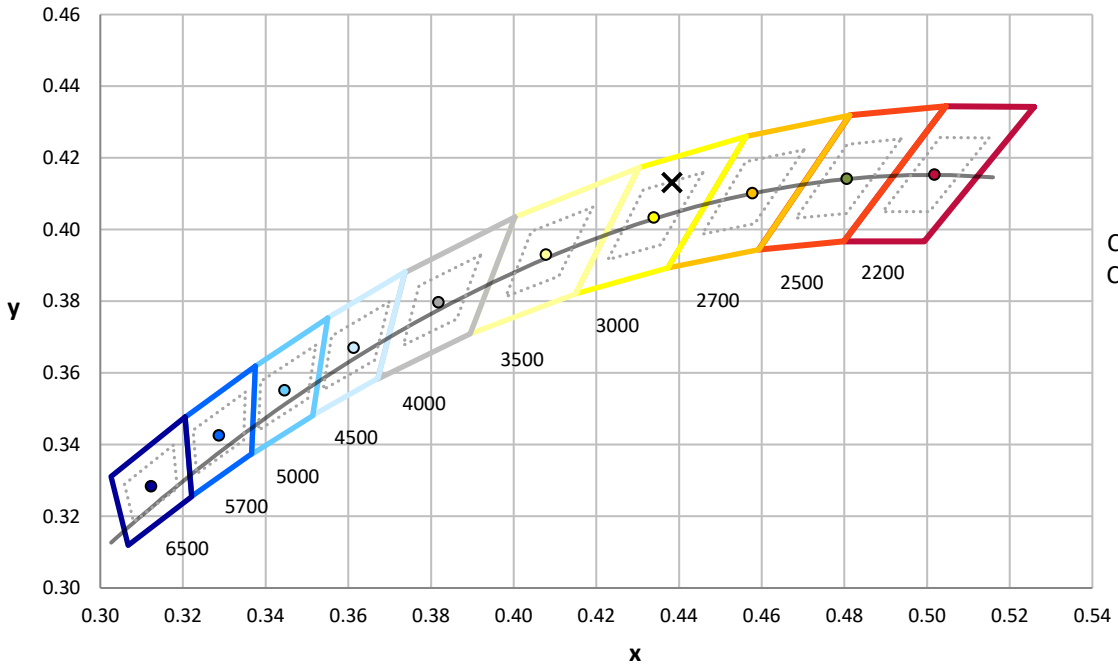
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

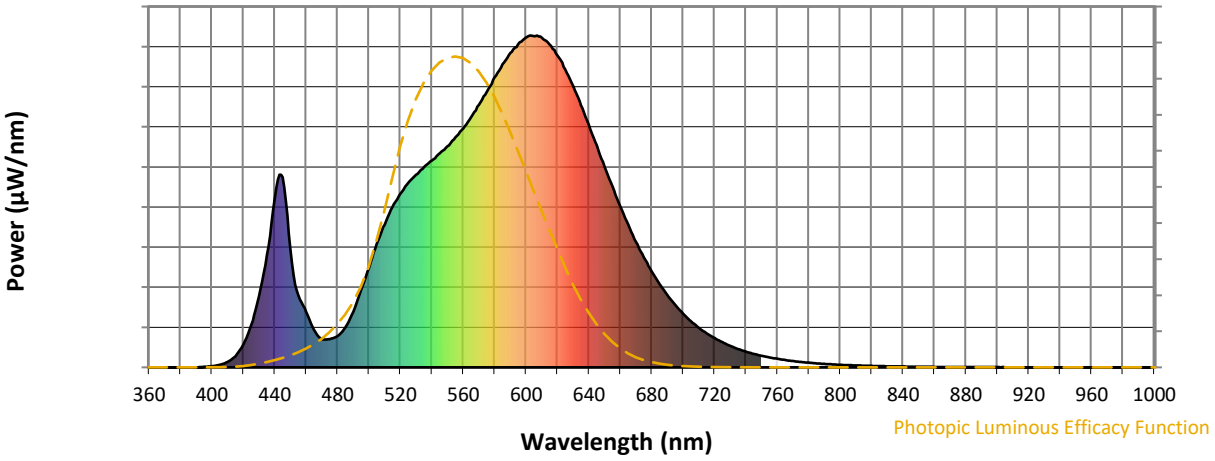


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

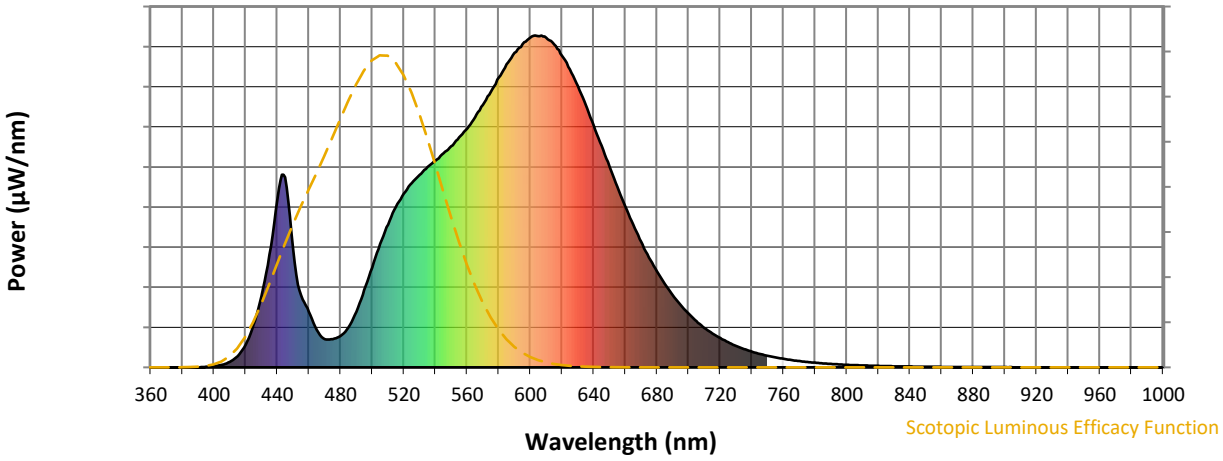


Photopic Lumens: NR

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

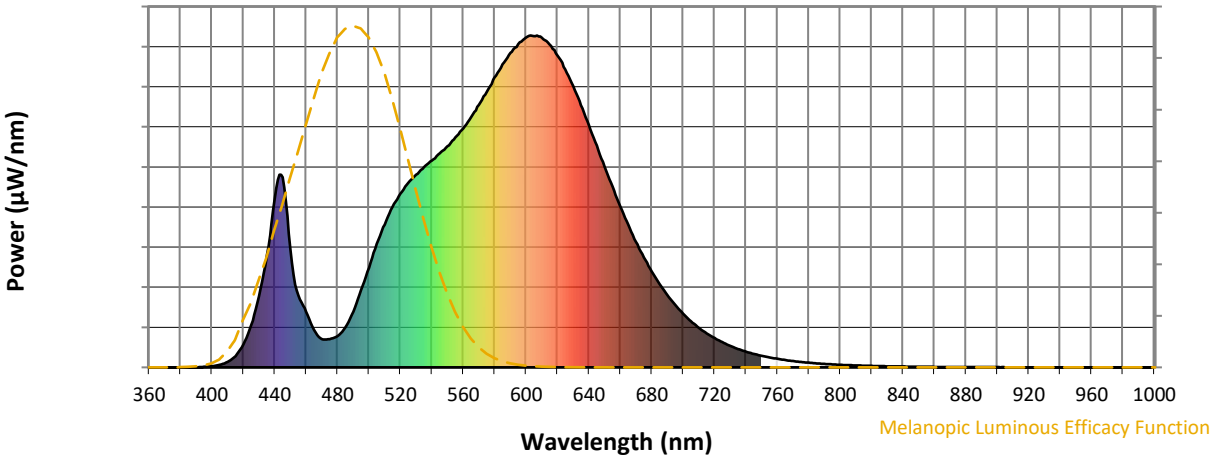


Scotopic Lumens: NR **S/P: 1.27**

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			

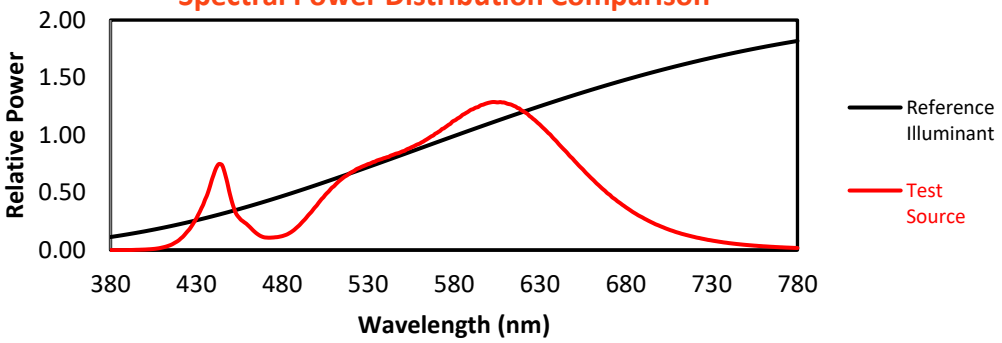
REPORT NUMBER: SP1-2408-195-9

TM-30-18

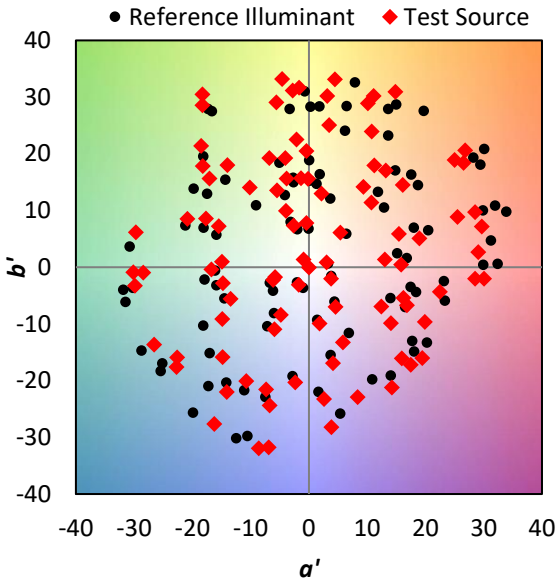
Summary

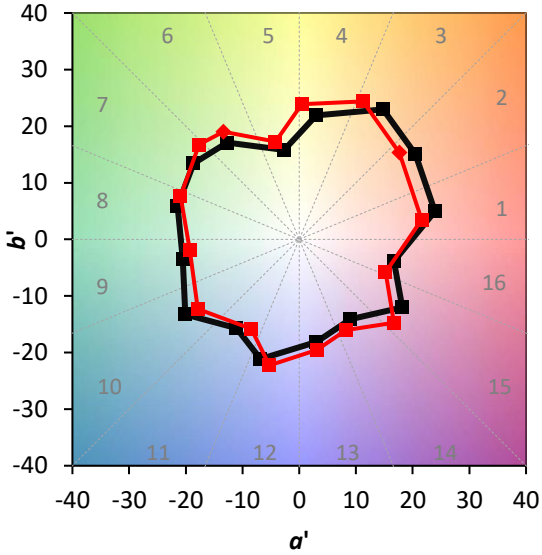
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

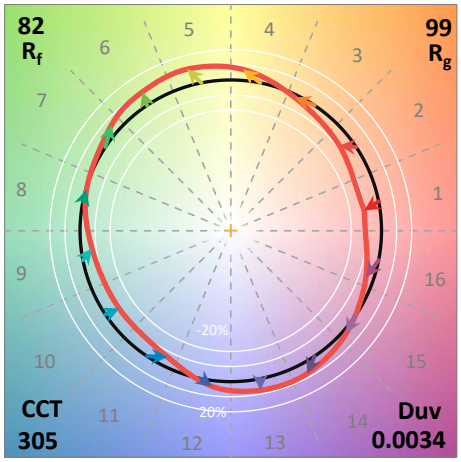
Spectral Power Distribution Comparison

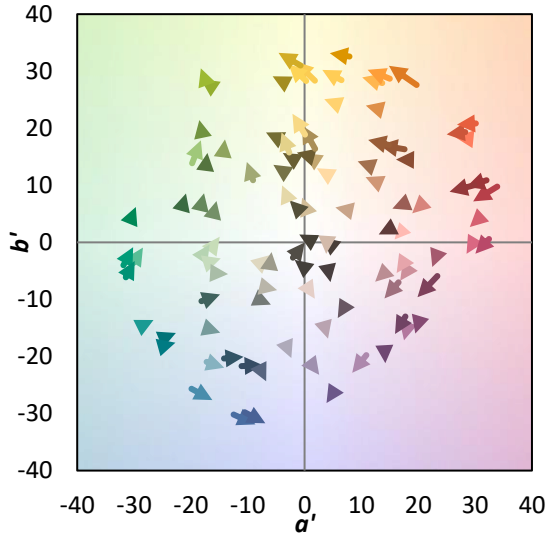


Color Vector Graphics







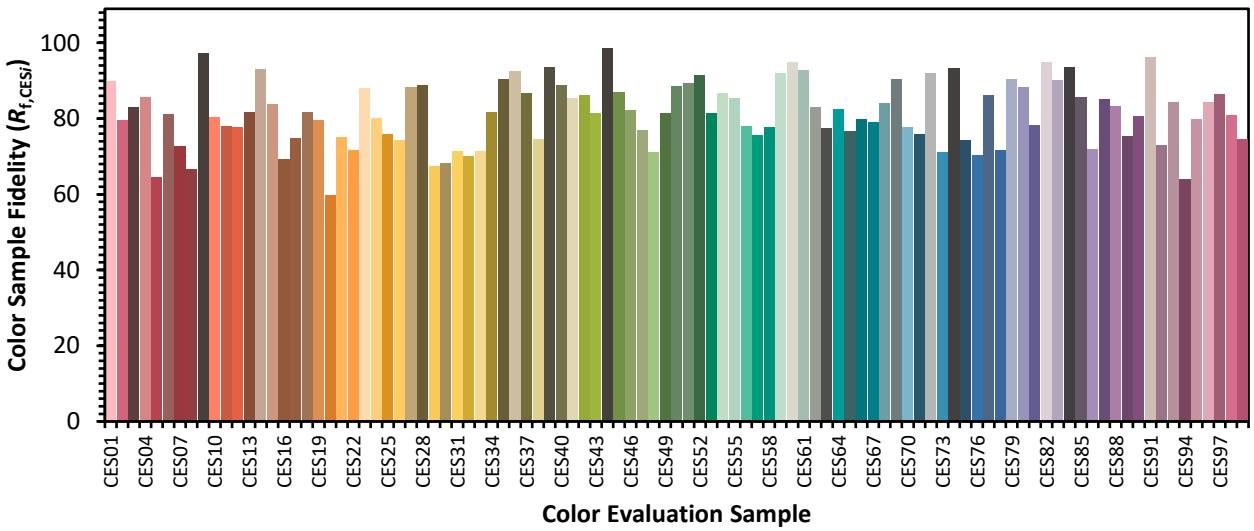


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

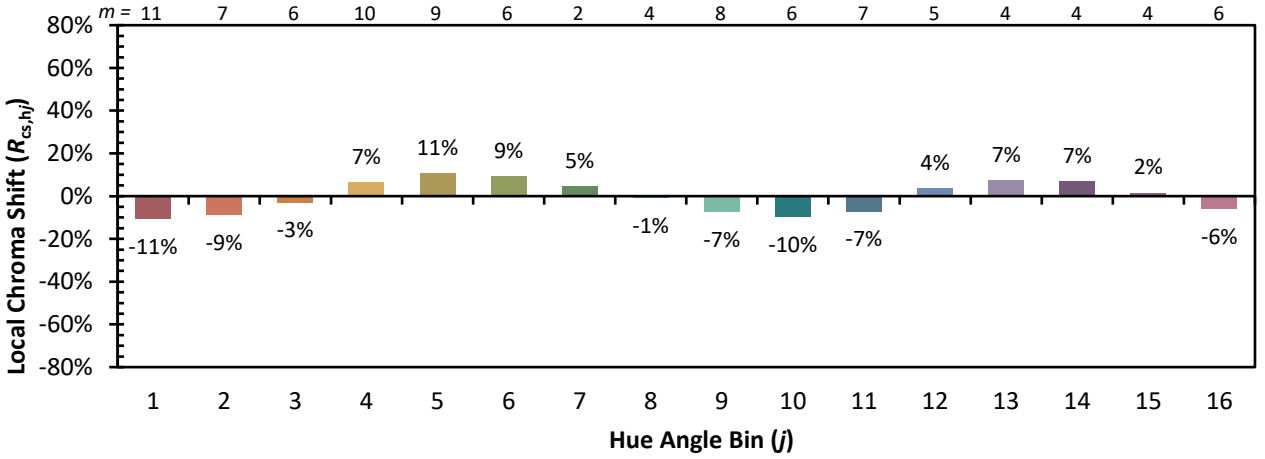
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

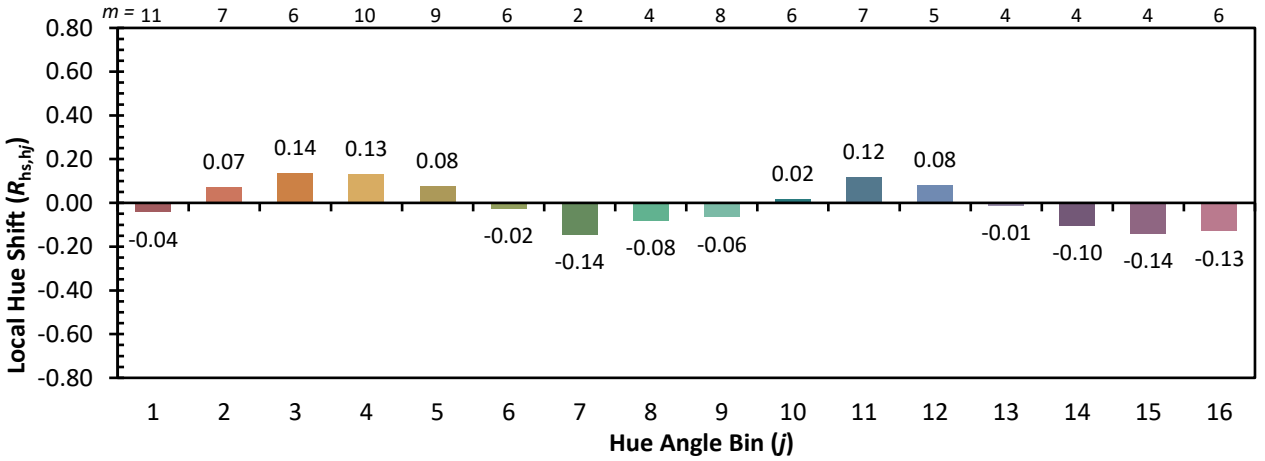


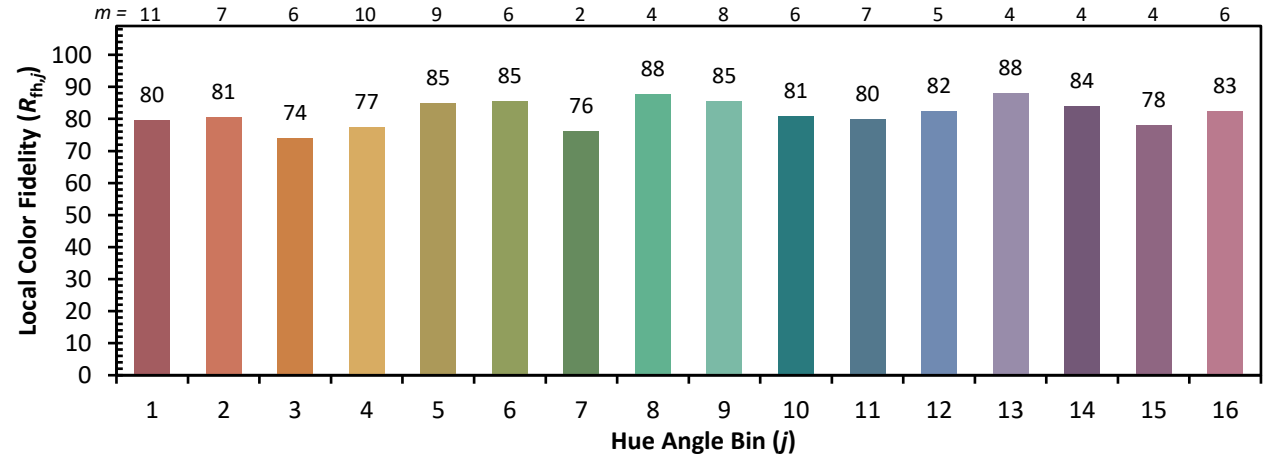
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



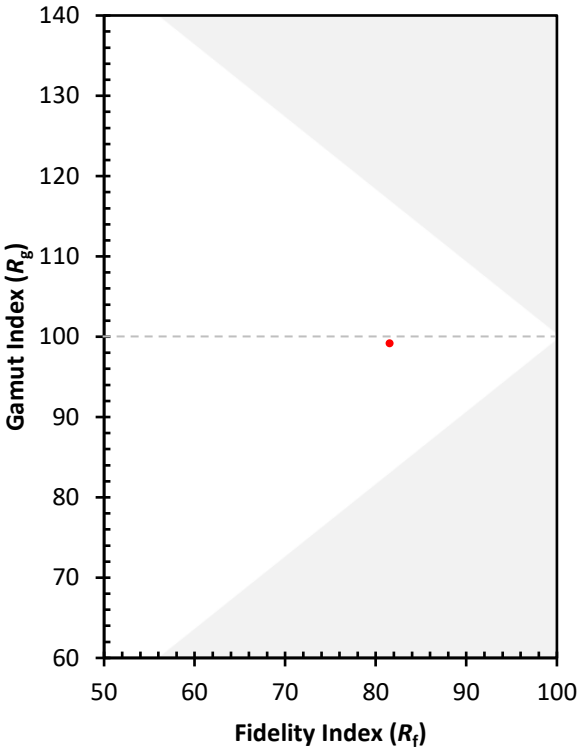


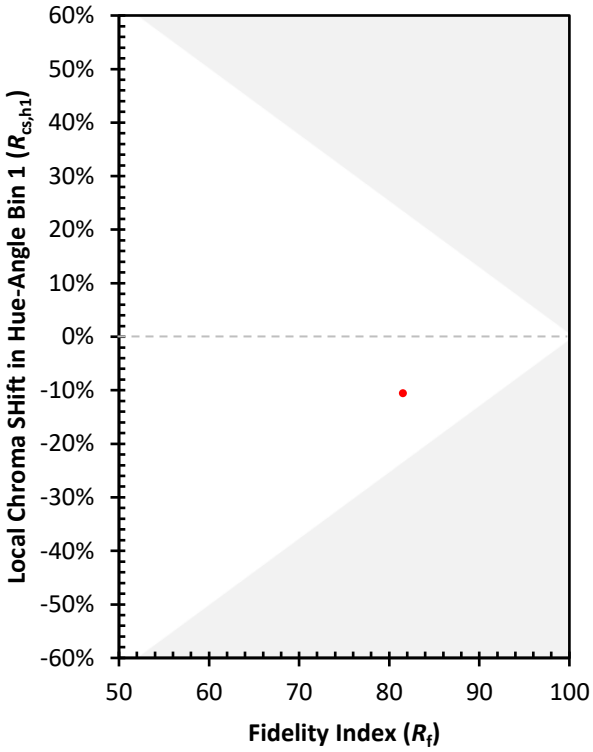


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)