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: P323691

Luminaire Tested: **GLEON-SA7C-830-U-SL3-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:	P323691
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
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-SL3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
	SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	33965 lumens
Efficiency:	N/A
Efficacy:	86.9 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B3 - U0 - G5

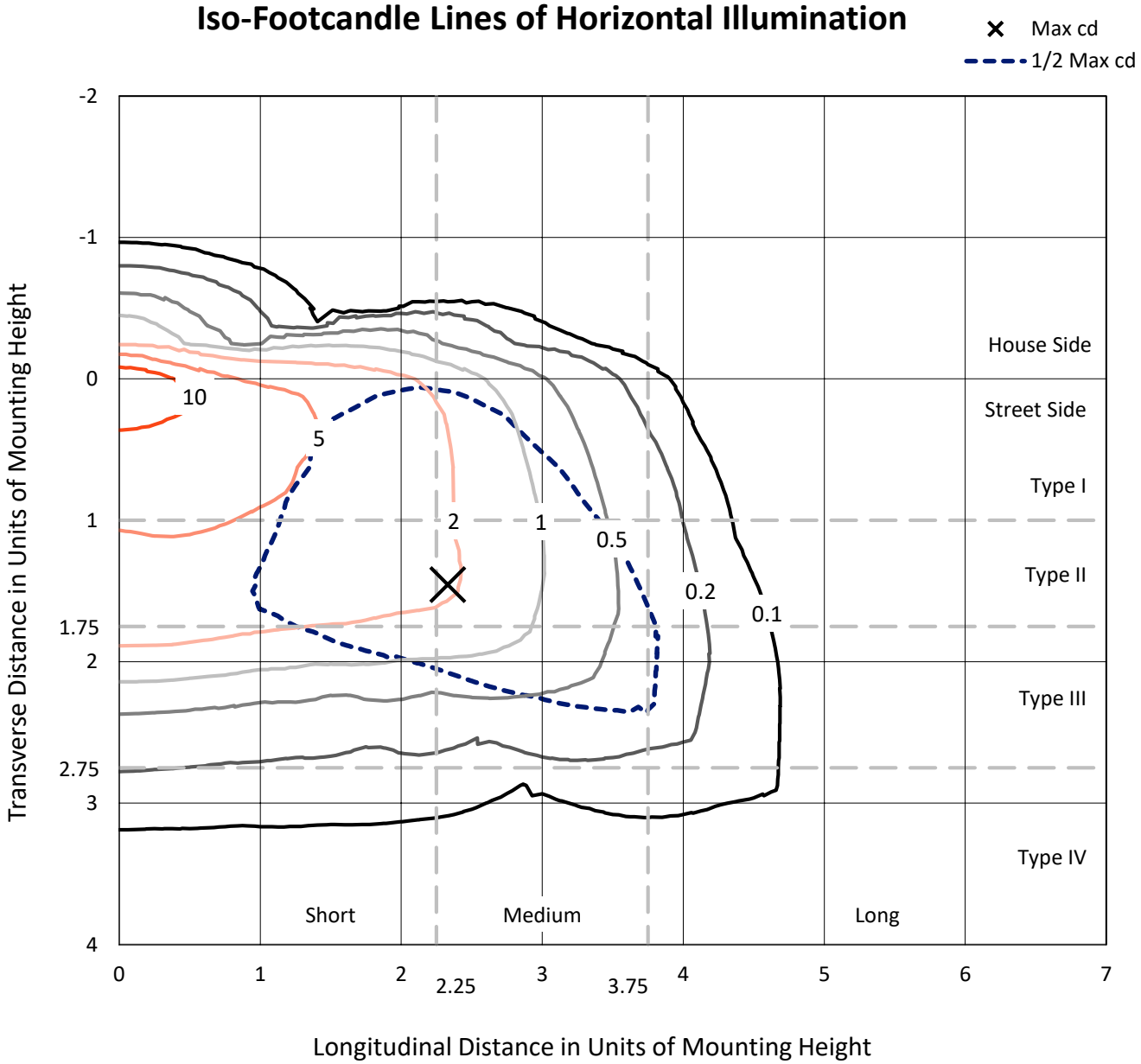
Input Watts (W):	391
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

REPORT NUMBER: P323691
CATALOG NUMBER: GLEON-SA7C-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination



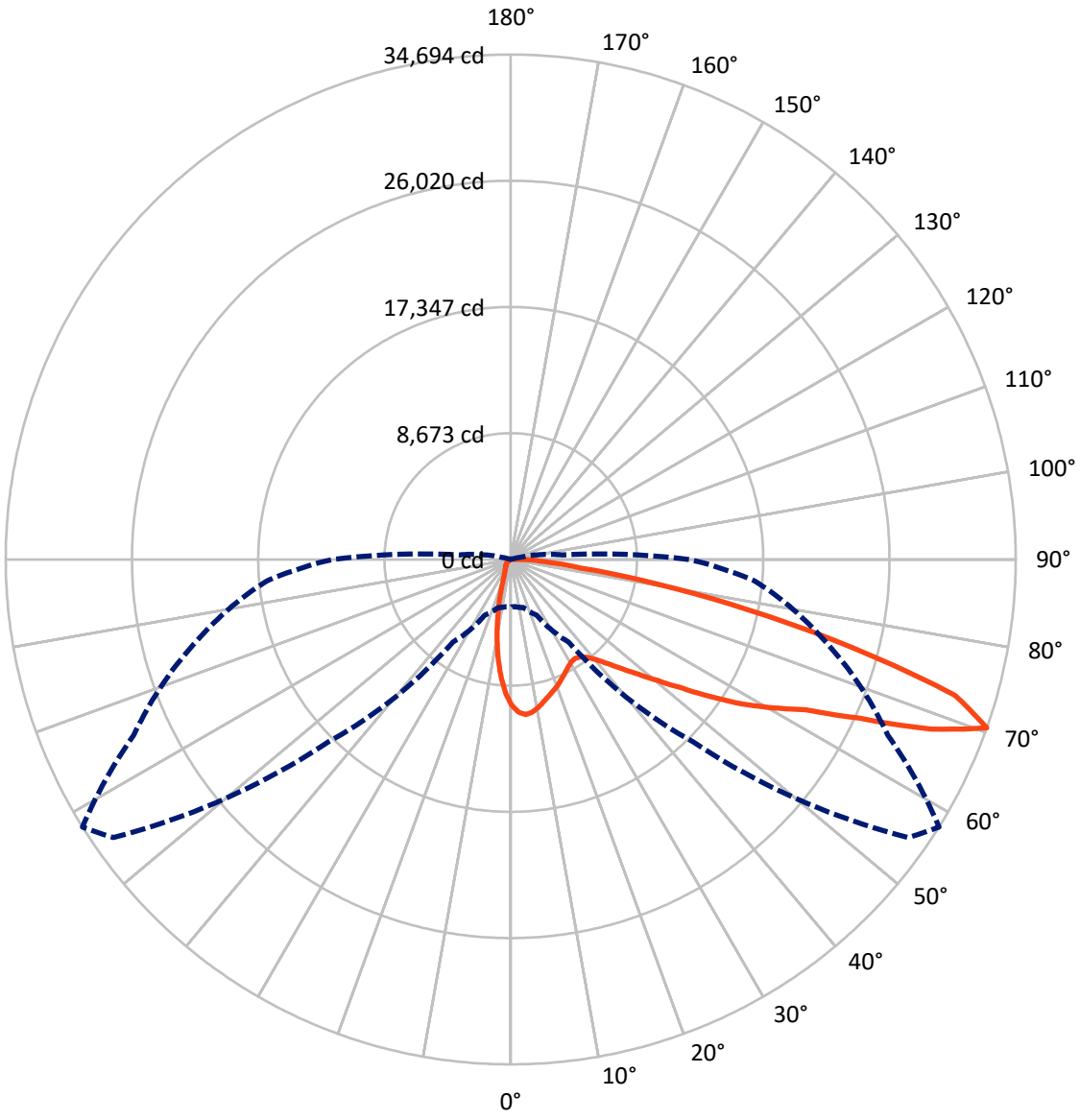
Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
Type III - Medium - N/A

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

Scaled Data Report

REPORT NUMBER: P323691
CATALOG NUMBER: GLEON-SA7C-830-U-SL3-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

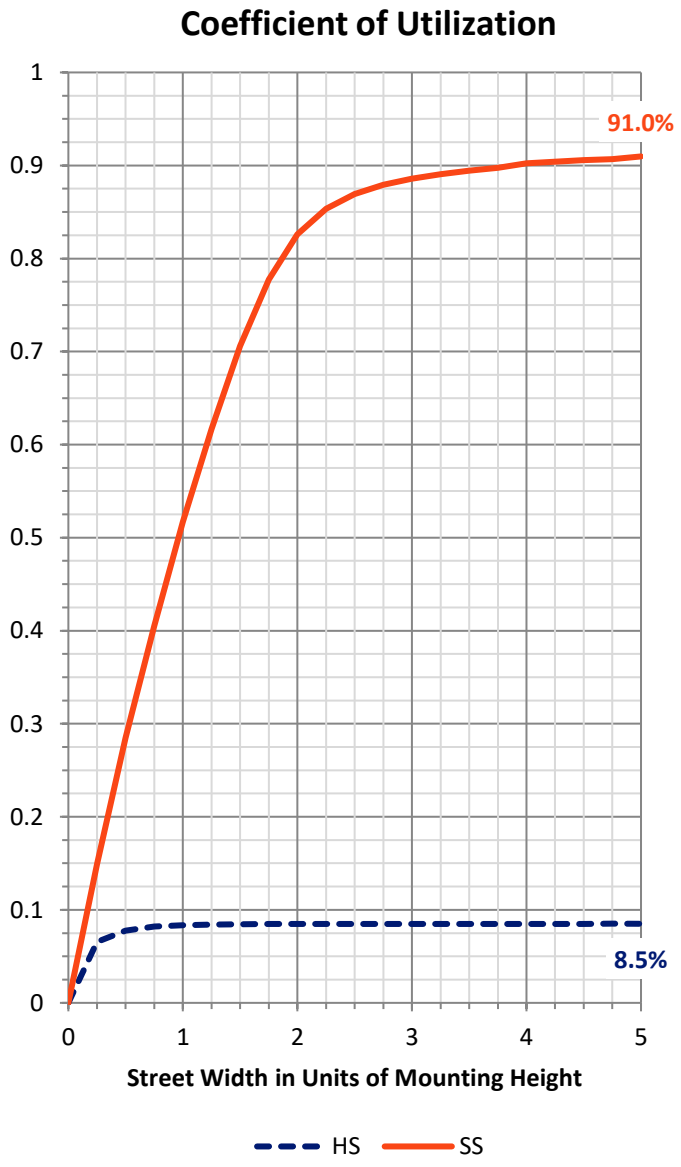
REPORT NUMBER: P323691
CATALOG NUMBER: GLEON-SA7C-830-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2906.7	0.0	2906.7
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	31058.3	0.0	31058.3
	% Fixture	91.4	0.0	91.4
Total	Lumens	33965.0	0.0	33965.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	820.4	2.4
10°-20°	1721.9	5.1
20°-30°	2263.7	6.7
30°-40°	2998.1	8.8
40°-50°	4481.2	13.2
50°-60°	7178.7	21.1
60°-70°	9048.7	26.6
70°-80°	4880.8	14.4
80°-90°	571.3	1.7
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°	33965.0	100.0
0°-180°	33965.0	100.0



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

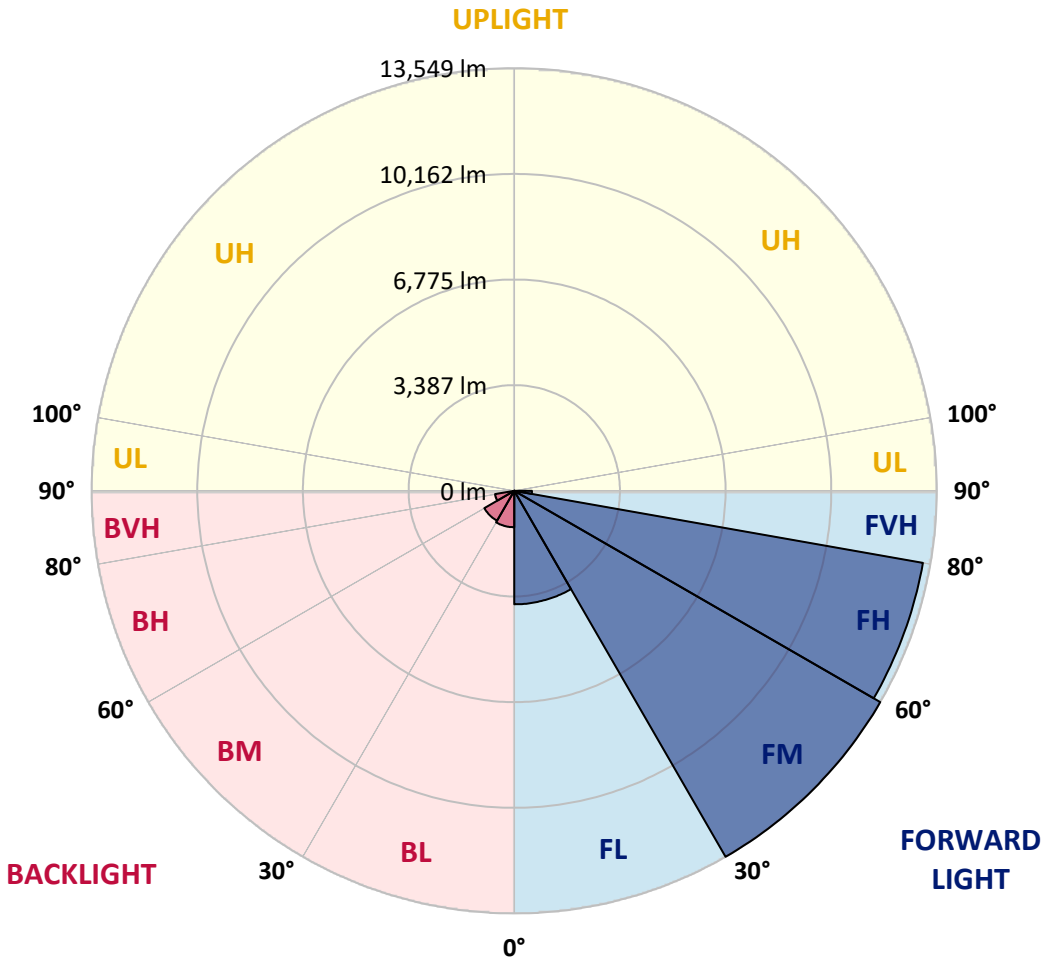
Scaled Data Report

REPORT NUMBER: P323691
CATALOG NUMBER: GLEON-SA7C-830-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3638.4	10.7			
FM	(30°-60°)	13549.2	39.9			
FH	(60°-80°)	13304.4	39.2			G5
FVH	(80°-90°)	566.4	1.7			G4/750
BL	(0°-30°)	1167.8	3.4	B3/2500		
BM	(30°-60°)	1108.9	3.3	B2/2500		
BH	(60°-80°)	625.1	1.8	B2/1000		G2/1000
BVH	(80°-90°)	4.9	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-G5
Type III Medium



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

Scaled Data Report

REPORT NUMBER: P323691
CATALOG NUMBER: GLEON-SA7C-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10033.1	10033.1	10033.1	10033.1	10033.1	10033.1	10033.1	*10033.1*	10033.1	10033.1	10033.1
2.5°	10865.0	10838.1	10828.2	10811.3	10746.3	10682.8	10557.1	*10521.8*	10442.7	10254.8	10055.7
5°	10873.4	10872.0	10901.7	10894.6	10872.0	10842.4	10752.0	*10705.4*	10571.2	10302.9	9938.5
7.5°	10349.5	10376.3	10442.7	10496.3	10558.5	10639.0	10650.3	*10605.1*	10494.9	10205.4	9722.4
10°	9646.1	9688.5	9781.7	9887.6	10050.0	10211.1	10355.1	*10349.5*	10311.3	10026.0	9462.5
12.5°	8941.4	8990.8	9098.1	9254.9	9485.1	9747.8	10004.9	*10040.2*	10103.7	9865.0	9222.4
15°	8324.2	8366.6	8472.5	8664.6	8949.9	9302.9	9680.0	*9745.0*	9908.8	9739.3	9021.9
17.5°	7800.2	7827.1	7904.7	8118.0	8448.5	8876.4	9366.5	*9493.6*	9737.9	9640.5	8848.2
20°	7434.4	7438.7	7489.5	7639.2	7969.7	8448.5	9041.7	*9223.8*	9557.1	9555.7	8668.8
22.5°	7253.7	7239.5	7249.4	7335.6	7578.5	8040.3	8716.8	*8932.9*	9394.7	9483.7	8486.6
25°	7219.8	7208.5	7180.2	7191.5	7338.4	7683.0	8389.2	*8639.1*	9252.1	9439.9	8328.4
27.5°	7325.7	7337.0	7289.0	7238.1	7249.4	7451.4	8098.2	*8387.8*	9136.3	9439.9	8216.9
30°	7538.9	7544.6	7509.3	7442.9	7353.9	7386.4	7896.3	*8185.8*	9078.4	9504.9	8146.2
32.5°	7774.8	7805.9	7801.6	7748.0	7620.9	7489.5	7848.2	*8112.3*	9074.1	9649.0	8139.2
35°	8067.2	8102.5	8161.8	8150.5	8017.7	7801.6	8012.1	*8219.7*	9157.5	9886.2	8215.4
37.5°	8377.9	8431.5	8558.6	8619.4	8533.2	8288.9	8379.3	*8527.6*	9380.6	10270.4	8408.9
40°	8678.7	8739.4	8971.0	9209.7	9144.8	8893.4	8935.7	*9054.4*	9777.5	10822.6	8776.1
42.5°	8973.9	9064.3	9404.6	9797.2	9874.9	9674.4	9697.0	*9791.6*	10366.4	11582.4	9376.4
45°	9326.9	9428.6	9932.8	10417.3	10624.9	10537.3	10633.3	*10695.5*	11136.1	12586.6	10185.6
47.5°	9845.3	9962.5	10581.1	11133.3	11497.7	11554.2	11747.7	*11788.6*	12109.2	13756.0	11240.6
50°	10856.5	10889.0	11448.2	11949.6	12475.0	12814.0	13034.3	*13065.3*	13287.1	15034.1	12558.3
52.5°	12129.0	12150.2	12466.5	12802.7	13400.1	14092.1	14607.6	*14651.4*	14698.0	16279.8	13859.1
55°	13393.0	13390.2	13599.2	13796.9	14480.5	15486.1	16604.6	*16631.4*	16296.7	17461.9	14853.3
57.5°	14182.5	14258.8	14576.5	14830.7	15785.5	17074.9	18627.0	*18725.9*	17976.0	18337.5	15836.3
60°	13931.1	13967.8	14672.6	15613.2	17411.0	19333.2	20673.5	*20698.9*	19238.6	19211.7	17079.1
62.5°	11869.1	11888.9	12996.1	14935.3	18234.4	22262.4	23142.2	*22728.4*	20690.4	20424.9	18566.3
65°	8134.9	8263.5	9188.5	11585.2	16721.8	24099.8	26964.0	*26279.0*	22903.5	22173.4	19910.8
67.5°	4790.6	4763.7	5221.3	6986.7	12281.5	22879.5	31798.3	*31117.6*	25921.7	23344.2	19516.8
70°	*3272.3*	*3254.0*	*3429.1*	*4229.9*	*6933.1*	*17748.6*	*33319.4*	*34693.6*	*28586.7*	*22556.1*	*16796.7*
72.5°	2336.0	2345.9	2604.3	3286.5	4352.8	10341.0	28653.1	*31905.7*	27752.0	19663.7	12767.3
75°	1586.0	1612.9	1982.9	2696.1	3816.1	5260.9	20333.1	*24253.7*	22598.5	14291.2	7338.4
77.5°	853.0	882.7	1319.1	2172.1	3450.3	3655.1	13079.5	*16692.2*	14195.2	6424.6	2126.9
80°	355.9	372.9	617.2	1579.0	2981.4	3210.2	7695.7	*10122.1*	6049.0	1266.8	474.5
82.5°	153.9	162.4	257.0	942.0	2228.6	2710.2	4074.5	*4869.7*	1833.2	278.2	238.7
85°	29.7	31.1	105.9	498.5	1422.2	1529.5	2641.0	*2588.8*	823.4	120.0	173.7
87.5°	0.0	0.0	25.4	156.8	418.0	833.3	1611.5	*1591.7*	279.6	57.9	65.0
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

Scaled Data Report

REPORT NUMBER: P323691
CATALOG NUMBER: GLEON-SA7C-830-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10033.1	10033.1	10033.1	10033.1	10033.1	10033.1	10033.1	10033.1	10033.1	10033.1	10033.1
2.5°	9954.0	9856.6	9651.8	9399.0	9205.5	8992.2	8822.7	8608.1	8514.9	8519.1	8468.3
5°	9730.9	9530.3	9077.0	8505.0	8064.3	7609.6	7218.4	6828.6	6598.3	6523.5	6452.9
7.5°	9411.7	9093.9	8370.8	7489.5	6743.8	6015.1	5380.9	4823.1	4470.0	4297.7	4234.1
10°	9051.5	8605.2	7558.7	6397.8	5332.9	4347.1	3525.1	2810.5	2525.2	2331.7	2282.3
12.5°	8735.2	8130.7	6765.0	5277.8	4013.8	2824.6	2040.8	1595.9	1402.4	1326.2	1313.5
15°	8437.2	7687.2	6000.9	4263.8	2779.4	1738.6	1297.9	1146.8	1101.6	1088.9	1088.9
17.5°	8156.1	7265.0	5253.8	3265.3	1838.8	1218.8	1074.8	1040.9	1026.8	1025.3	1026.8
20°	7862.4	6842.7	4519.4	2392.5	1283.8	1032.4	992.9	974.5	970.3	970.3	970.3
22.5°	7581.3	6420.4	3804.8	1708.9	1029.6	942.0	922.2	909.5	905.3	903.9	901.1
25°	7311.6	6019.3	3107.1	1207.5	903.9	862.9	846.0	829.0	816.3	809.3	805.0
27.5°	7089.8	5662.0	2457.4	968.8	816.3	781.0	759.8	734.4	703.3	689.2	683.6
30°	6913.3	5335.7	1893.9	817.7	734.4	699.1	666.6	622.8	577.6	553.6	552.2
32.5°	6774.9	5015.1	1437.7	723.1	661.0	617.2	570.6	515.5	463.2	436.4	435.0
35°	6707.1	4732.7	1098.8	653.9	596.0	540.9	483.0	422.3	371.4	346.0	343.2
37.5°	6752.3	4494.0	857.3	596.0	540.9	477.4	409.6	346.0	300.8	278.2	276.8
40°	6917.5	4341.5	696.3	546.6	494.3	416.6	343.2	283.9	245.7	227.4	226.0
42.5°	7269.2	4285.0	594.6	505.6	449.1	360.1	285.3	234.4	199.1	186.4	183.6
45°	7856.7	4368.3	525.4	466.1	402.5	306.5	235.9	192.1	161.0	151.1	149.7
47.5°	8639.1	4587.2	476.0	427.9	360.1	258.5	196.3	155.4	131.3	121.5	120.0
50°	9647.5	4934.6	435.0	389.8	320.6	218.9	162.4	122.9	101.7	94.6	94.6
52.5°	10744.9	5348.4	398.3	354.5	281.1	182.2	131.3	94.6	80.5	72.0	72.0
55°	11651.6	5710.0	358.7	327.7	233.0	151.1	100.3	72.0	59.3	55.1	55.1
57.5°	12556.9	6095.6	313.5	281.1	186.4	122.9	76.3	53.7	43.8	41.0	41.0
60°	13730.5	6567.3	269.8	228.8	146.9	93.2	56.5	38.1	32.5	31.1	31.1
62.5°	15021.4	6844.1	230.2	183.6	114.4	69.2	41.0	25.4	24.0	24.0	22.6
65°	15810.9	6452.9	193.5	146.9	89.0	52.3	26.8	18.4	21.2	19.8	16.9
67.5°	14803.9	5051.9	158.2	114.4	69.2	39.5	16.9	12.7	22.6	18.4	14.1
70°	*12257.5*	*3536.4*	*122.9*	*80.5*	*55.1*	*33.9*	*11.3*	*8.5*	*24.0*	*18.4*	*11.3*
72.5°	9173.0	2367.0	97.4	53.7	41.0	29.7	9.9	4.2	21.2	15.5	9.9
75°	5012.3	953.3	77.7	33.9	25.4	21.2	7.1	2.8	14.1	11.3	7.1
77.5°	1319.1	251.4	56.5	22.6	14.1	8.5	4.2	1.4	7.1	5.6	2.8
80°	336.1	97.4	36.7	15.5	9.9	4.2	0.0	0.0	1.4	0.0	0.0
82.5°	179.4	41.0	22.6	11.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	135.6	26.8	12.7	7.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	52.3	8.5	4.2	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

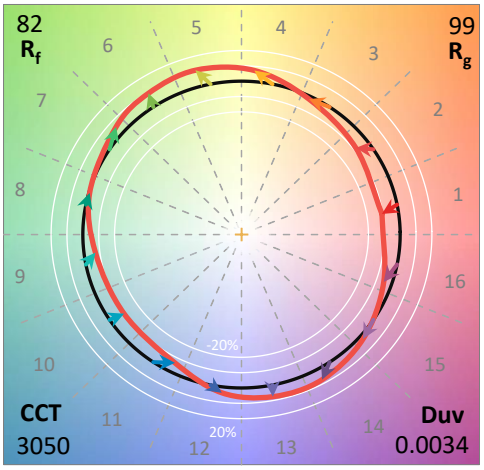
Test Information

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

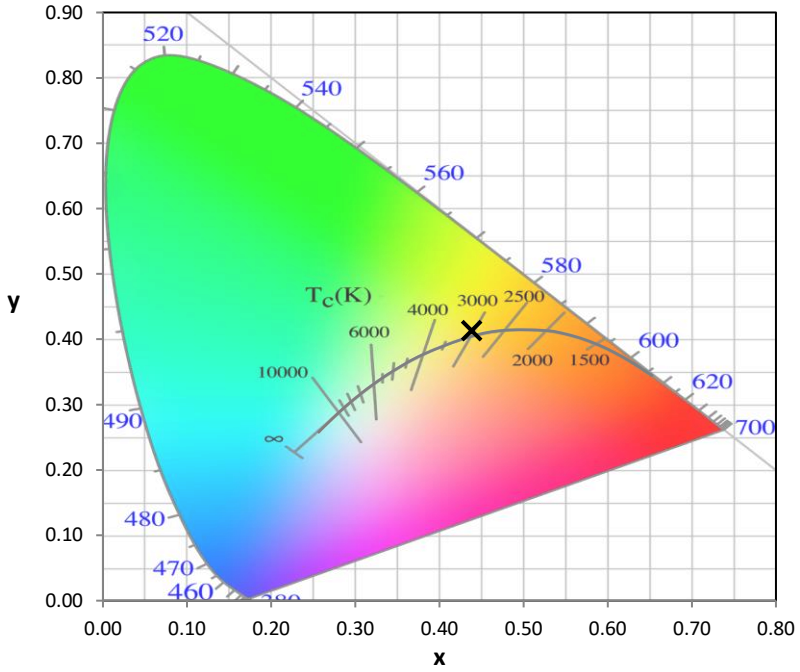
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

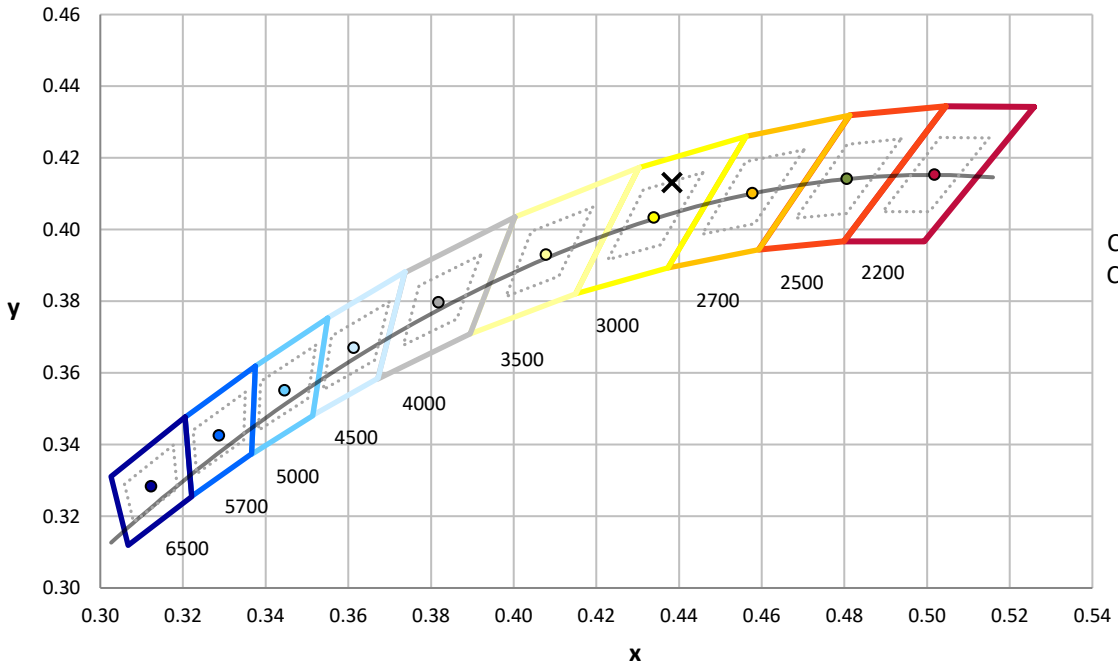
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

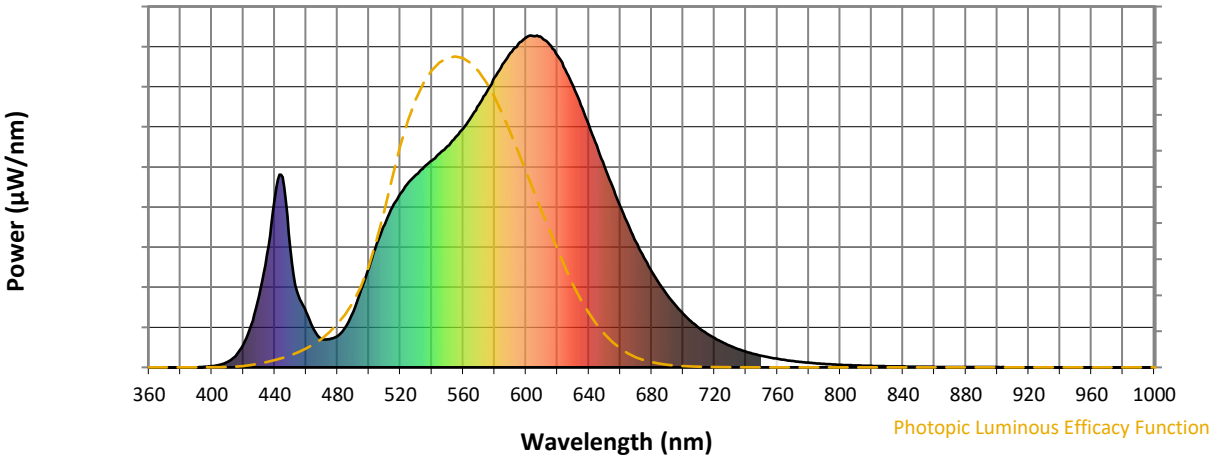


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

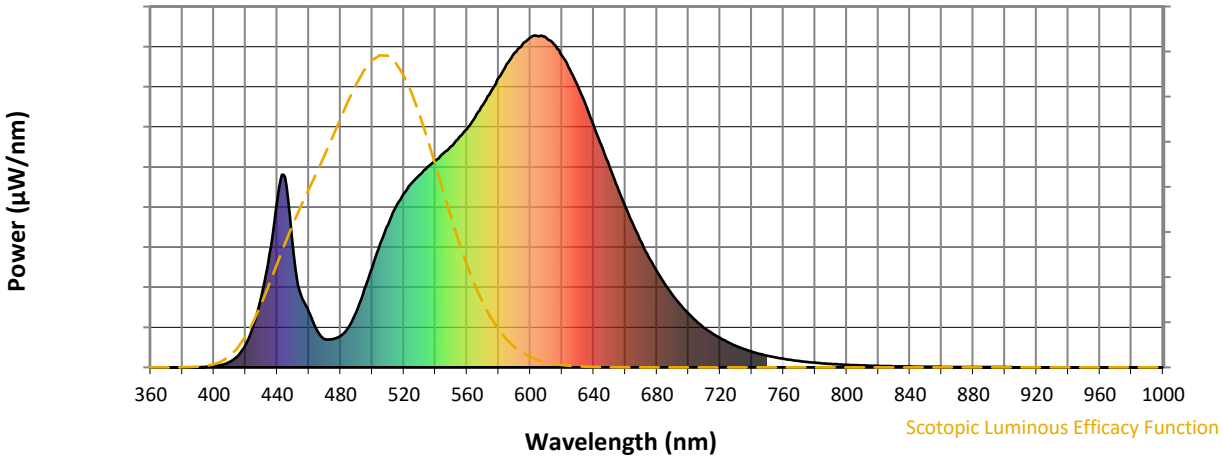


Photopic Lumens: NR

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

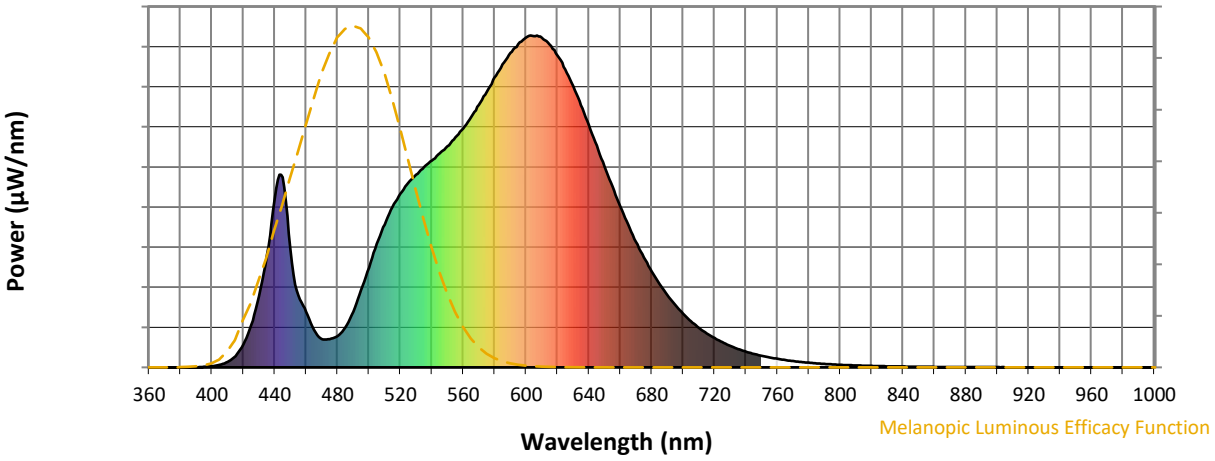


Scotopic Lumens: NR **S/P: 1.27**

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			

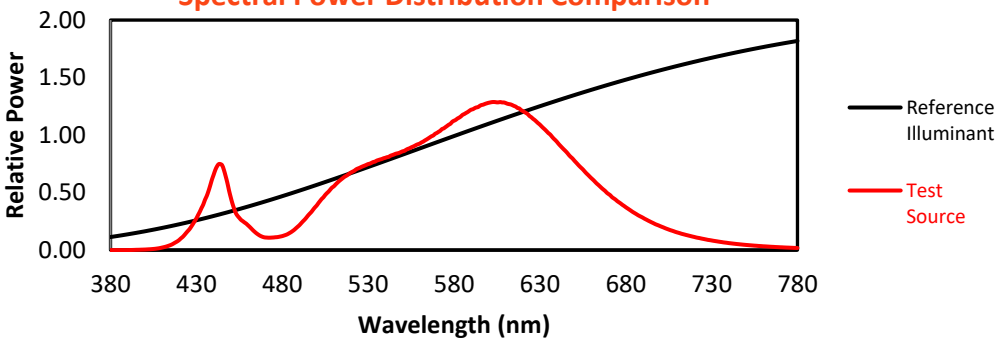
REPORT NUMBER: SP1-2408-195-9

TM-30-18

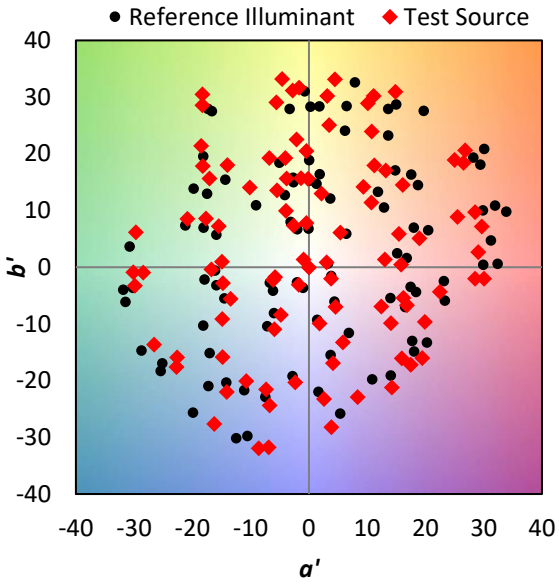
Summary

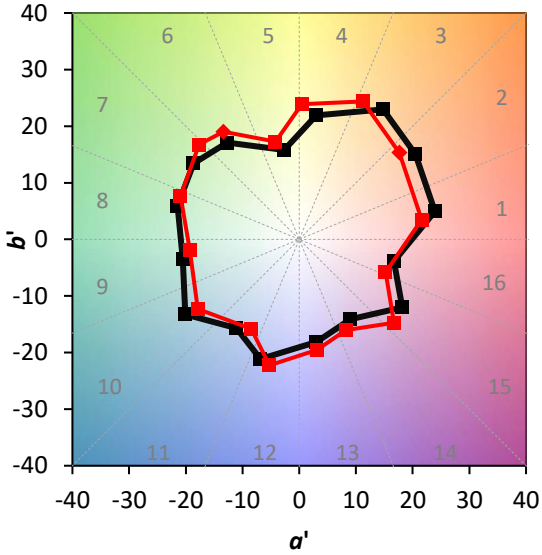
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

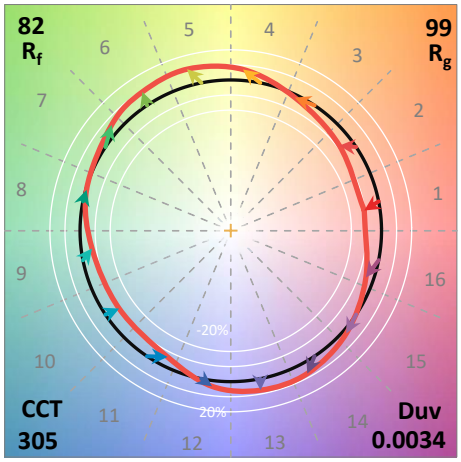
Spectral Power Distribution Comparison

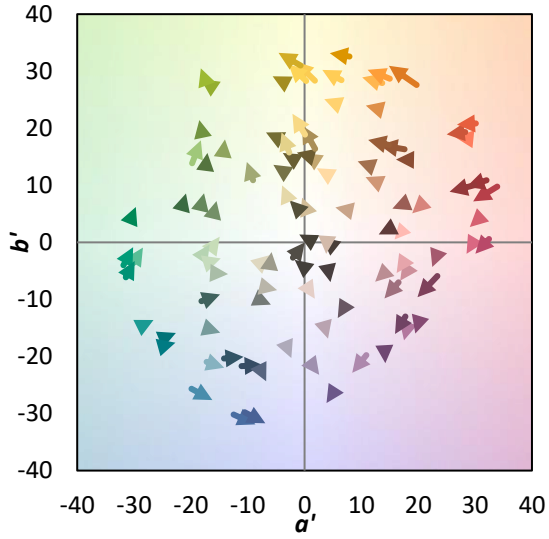


Color Vector Graphics







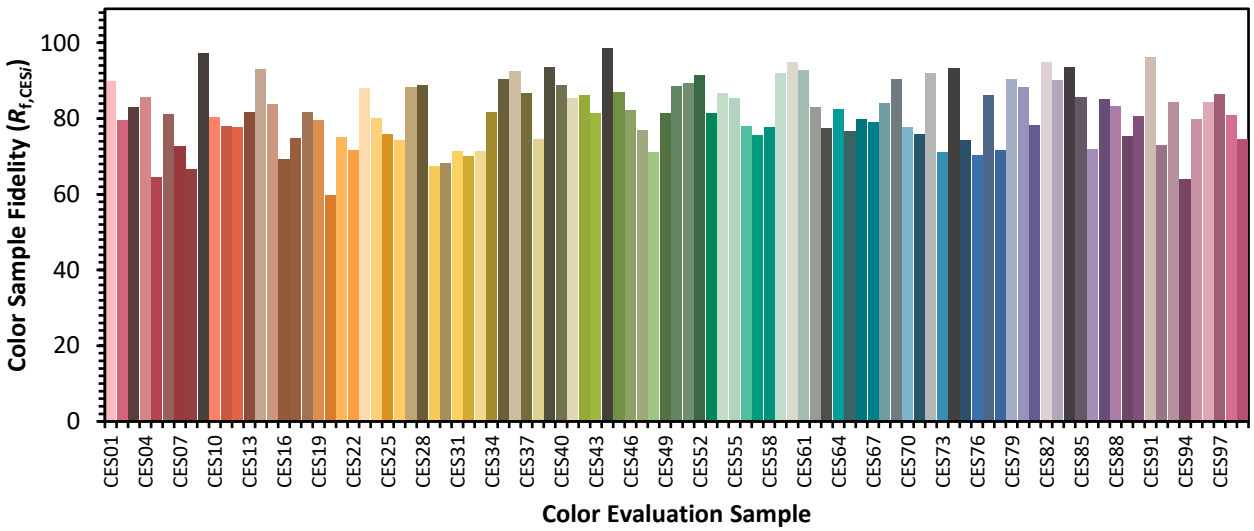


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

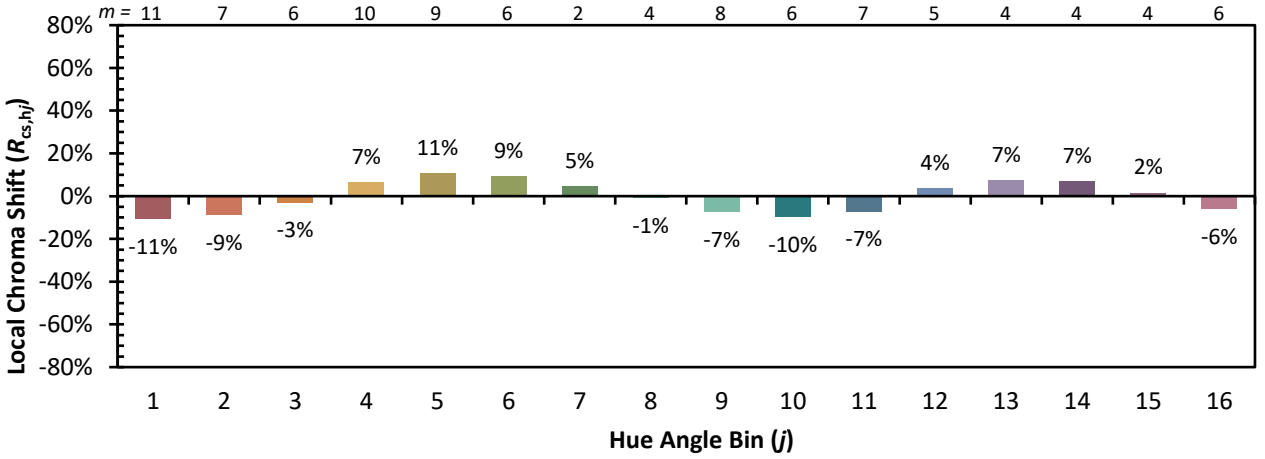
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

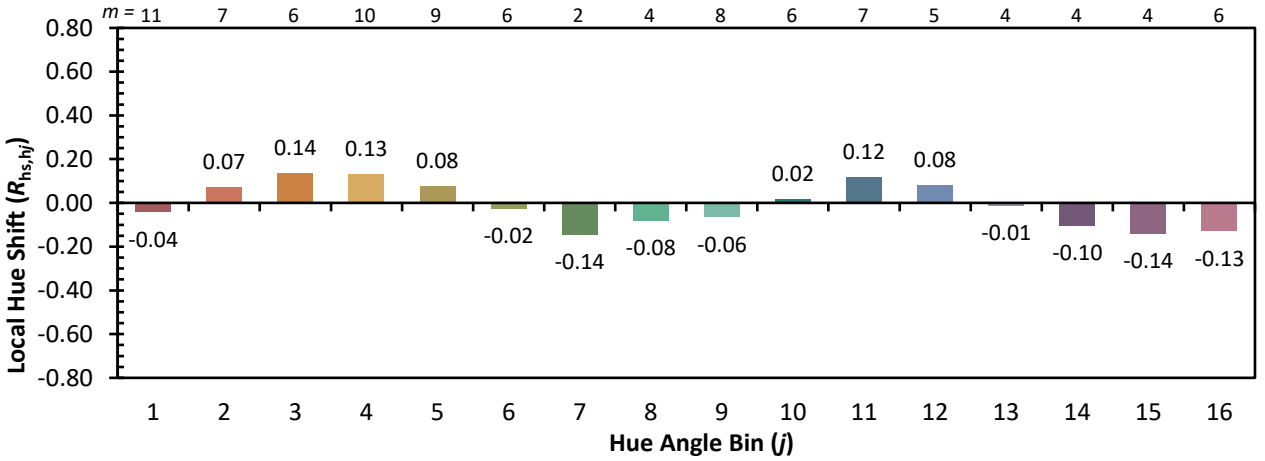


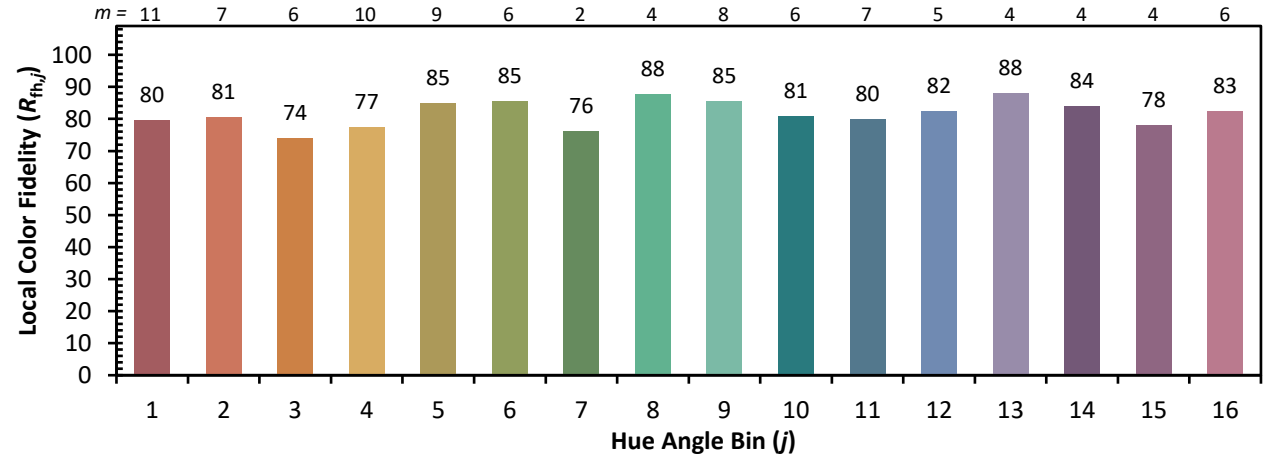
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



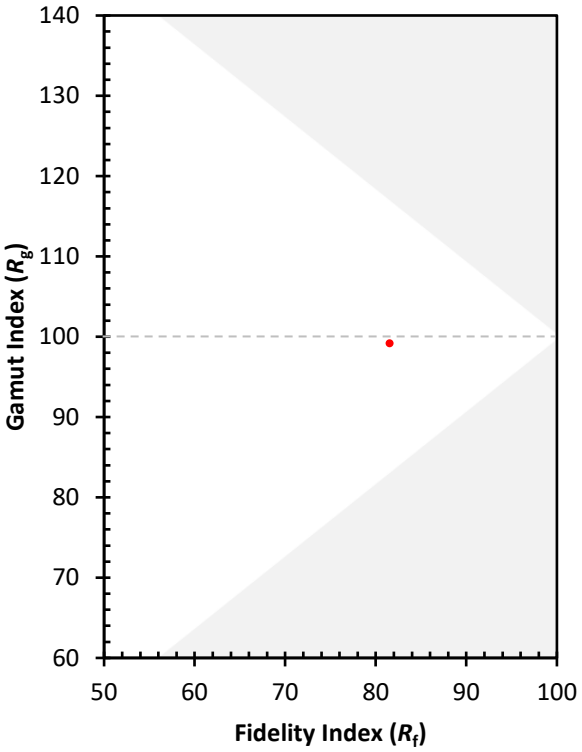


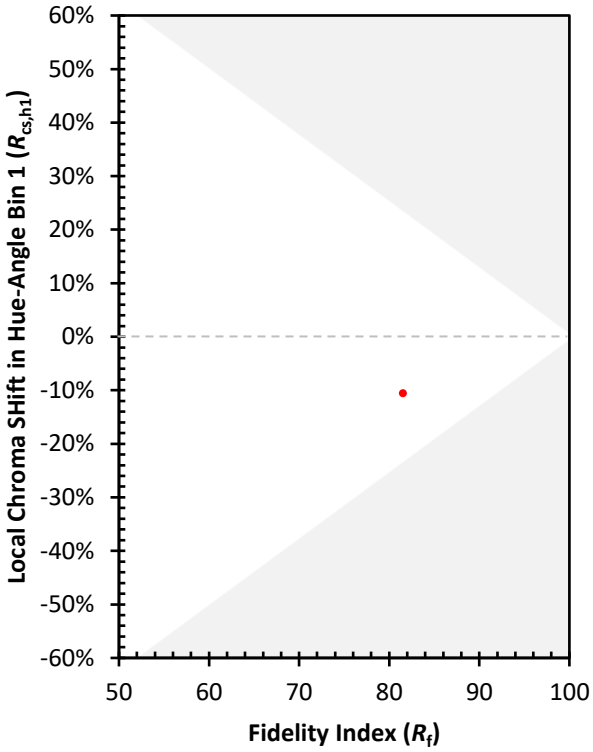


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)