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: P322389

Luminaire Tested: **GLEON-SA5A-830-U-T3-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:	P322389
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA5A-830-U-T3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13488 lumens
Efficiency:	N/A
Efficacy:	83.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G3

Input Watts (W):	162
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

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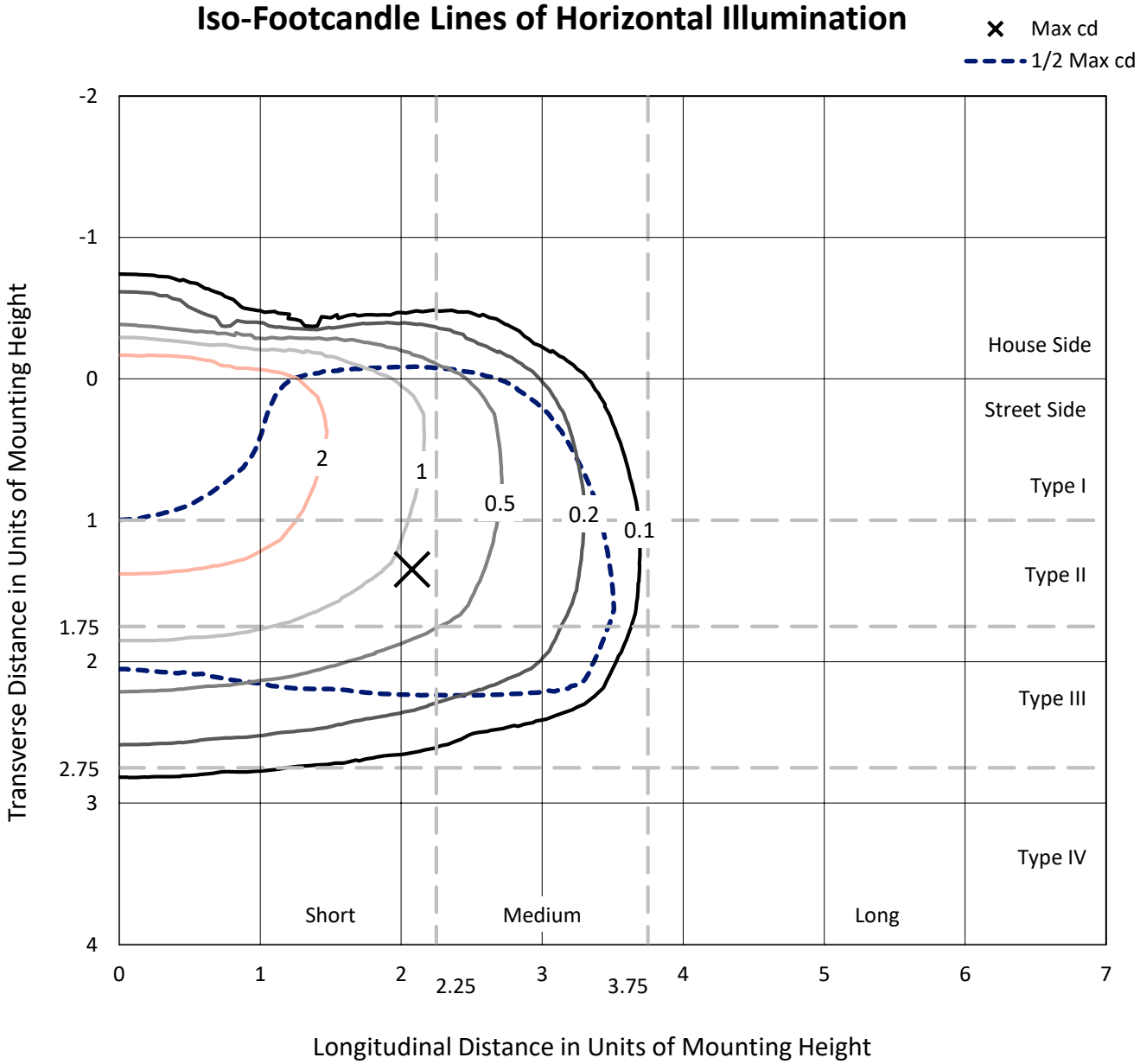
Scaled Data Report

REPORT NUMBER: P322389
CATALOG NUMBER: GLEON-SA5A-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type III - Short - N/A

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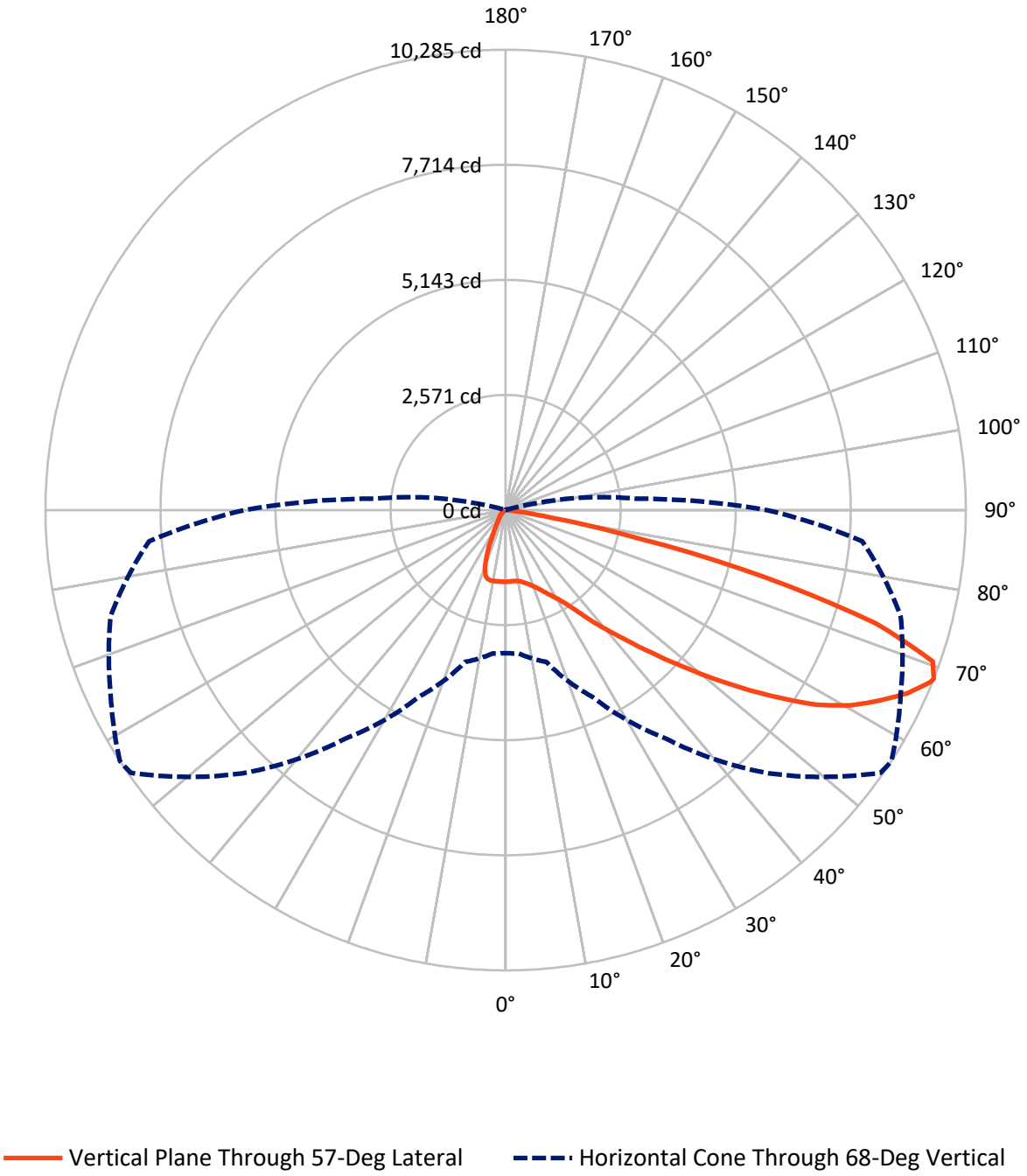
Luminous Intensity Polar Plot



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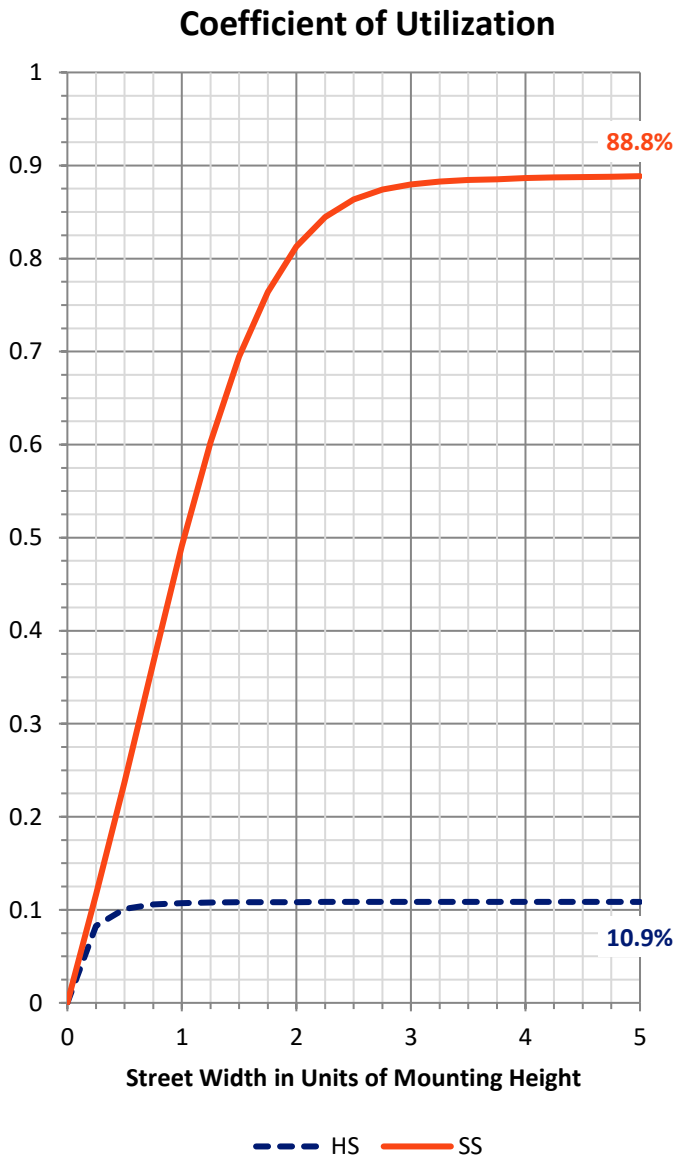
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1479.0	0.0	1479.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	12009.0	0.0	12009.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	13488.0	0.0	13488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	1.1
10°-20°	415.6	3.1
20°-30°	717.0	5.3
30°-40°	1237.5	9.2
40°-50°	2116.8	15.7
50°-60°	3386.7	25.1
60°-70°	3913.0	29.0
70°-80°	1495.2	11.1
80°-90°	56.1	0.4
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°	13488.0	100.0
0°-180°	13488.0	100.0



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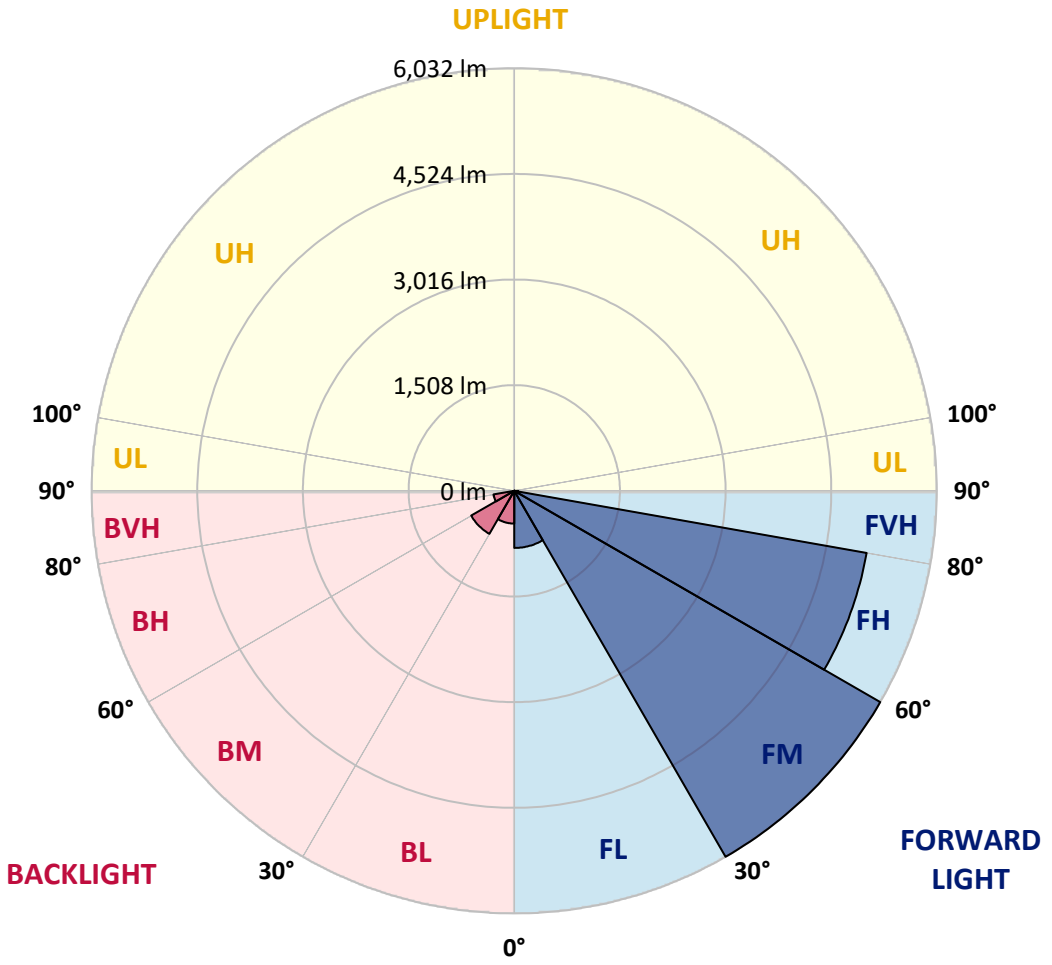
CATALOG NUMBER: GLEON-SA5A-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	815.2	6.0			
FM	(30°-60°)	6031.7	44.7			
FH	(60°-80°)	5107.0	37.9			G3/7500
FVH	(80°-90°)	55.0	0.4			G1/100
BL	(0°-30°)	467.4	3.5	B1/500		
BM	(30°-60°)	709.4	5.3	B1/1000		
BH	(60°-80°)	301.2	2.2	B1/500		G1/500
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
Type III Short



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REPORT NUMBER: P322389
CATALOG NUMBER: GLEON-SA5A-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7
2.5°	1565.1	1572.1	1577.2	1580.4	1584.2	1592.5	1595.1	1598.9	1600.8	1600.8	1605.3
5°	1503.2	1510.9	1521.7	1530.7	1548.5	1571.5	1588.1	1594.4	1605.9	1616.1	1621.9
7.5°	1445.8	1454.8	1467.5	1488.6	1519.2	1556.2	1590.6	1599.5	1621.9	1643.5	1654.4
10°	1408.8	1415.9	1432.4	1462.4	1502.6	1554.3	1602.7	1613.6	1651.8	1688.2	1708.6
12.5°	1396.1	1402.5	1419.7	1453.5	1503.2	1563.8	1630.8	1646.7	1702.9	1755.8	1784.5
15°	1414.6	1415.9	1434.4	1466.2	1515.4	1587.4	1677.3	1696.5	1767.3	1836.2	1871.9
17.5°	1486.0	1480.3	1489.8	1503.9	1542.8	1618.7	1726.5	1755.2	1849.5	1930.5	1964.3
20°	1664.6	1664.6	1642.9	1604.6	1605.3	1667.1	1792.8	1825.3	1940.8	2034.5	2065.1
22.5°	1970.1	1964.3	1921.0	1827.2	1741.1	1750.7	1873.8	1915.9	2050.4	2150.6	2160.8
25°	2337.4	2330.4	2263.5	2131.4	1982.2	1885.9	1983.5	2032.0	2181.2	2269.8	2248.8
27.5°	2726.5	2720.8	2654.4	2490.5	2278.1	2101.5	2114.2	2160.1	2314.5	2401.9	2334.9
30°	3103.4	3105.3	3039.6	2871.3	2630.8	2376.4	2280.0	2306.8	2444.0	2532.6	2436.9
32.5°	3461.8	3464.4	3407.6	3219.5	2995.0	2695.9	2509.6	2502.6	2594.5	2681.8	2572.1
35°	3781.4	3787.7	3748.8	3602.8	3364.9	3051.8	2807.5	2790.9	2808.1	2907.0	2779.4
37.5°	4089.4	4093.2	4063.9	3940.8	3741.8	3442.7	3183.8	3160.2	3123.2	3199.1	3053.0
40°	4426.8	4417.2	4383.4	4271.8	4100.9	3874.5	3588.1	3547.3	3482.9	3550.5	3412.7
42.5°	4740.6	4729.7	4735.5	4609.2	4465.1	4318.4	4059.4	3989.3	3951.7	4029.5	3854.1
45°	5132.8	5127.1	5146.2	5036.5	4919.8	4813.3	4599.6	4523.1	4506.5	4597.7	4387.9
47.5°	5519.9	5534.0	5593.3	5546.7	5499.5	5405.8	5171.7	5137.3	5147.5	5257.8	4951.1
50°	5842.7	5859.2	6021.9	6075.5	6143.7	6088.8	5854.1	5833.1	5873.3	5972.8	5556.9
52.5°	6076.1	6109.9	6312.1	6558.9	6807.6	6844.6	6610.5	6591.4	6645.6	6660.9	6025.1
55°	6238.1	6268.1	6497.0	6948.6	7455.0	7614.4	7469.0	7395.0	7384.8	7233.7	6517.4
57.5°	6266.8	6263.6	6592.7	7200.5	7962.6	8374.0	8282.2	8209.4	8000.3	7763.0	7081.9
60°	6104.8	6123.3	6505.3	7287.9	8281.5	8948.6	8955.6	8861.3	8535.4	8277.7	7629.1
62.5°	5606.0	5681.3	6067.2	7058.9	8277.7	9180.1	9449.3	9377.2	8987.5	8699.3	8183.9
65°	4797.3	4824.1	5192.1	6274.4	7718.4	9083.2	9893.8	9867.0	9395.1	9108.7	8469.0
67.5°	3503.3	3445.3	3831.8	4940.8	6534.6	8518.1	10212.7	10246.5	9709.5	9192.9	8165.4
68°	3197.2	3214.4	3515.4	4611.1	6224.7	8318.5	10233.7	10285.4	9740.7	9138.0	7999.6
70°	1905.7	1938.8	2207.3	3174.8	4735.5	7189.0	10006.7	10124.7	9554.5	8572.3	6919.2
72.5°	486.6	526.2	780.0	1421.0	2704.8	5065.2	8447.3	8647.0	8295.5	6954.3	4671.1
75°	200.3	210.5	278.7	468.1	1007.7	2282.0	5567.8	5995.1	5750.8	4163.4	2111.0
77.5°	138.4	145.4	179.2	259.6	436.2	773.6	2729.7	3038.4	2737.3	1421.0	460.5
80°	99.5	105.2	128.2	172.8	250.6	276.2	889.7	1028.7	817.0	311.9	114.2
82.5°	59.3	63.8	95.7	123.1	152.4	132.0	221.3	251.3	236.6	155.0	51.0
85°	29.3	34.4	64.4	88.0	82.3	55.5	67.6	75.3	93.1	94.4	27.4
87.5°	1.9	3.8	37.6	52.9	23.0	12.8	19.8	24.2	33.2	46.6	11.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report

REPORT NUMBER: P322389
CATALOG NUMBER: GLEON-SA5A-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7
2.5°	1607.2	1607.8	1603.4	1601.5	1602.7	1595.1	1591.9	1593.2	1593.2	1595.1	1591.9
5°	1623.1	1623.1	1615.5	1605.3	1599.5	1584.9	1575.3	1572.8	1570.8	1569.6	1567.0
7.5°	1657.6	1653.8	1640.4	1618.0	1598.9	1567.0	1542.8	1530.0	1523.6	1521.1	1519.2
10°	1713.1	1706.0	1683.7	1642.3	1598.3	1541.5	1488.6	1450.9	1419.7	1406.9	1399.3
12.5°	1787.7	1777.5	1739.9	1671.0	1593.8	1489.2	1374.4	1264.1	1161.4	1119.3	1098.2
15°	1873.8	1859.1	1799.8	1695.2	1567.7	1371.2	1121.8	928.6	786.4	732.8	709.8
17.5°	1961.2	1942.0	1852.1	1710.5	1489.2	1126.9	787.0	594.4	499.4	473.9	464.9
20°	2049.2	2021.1	1897.4	1699.0	1311.9	812.5	519.1	434.3	406.9	399.2	396.7
22.5°	2132.7	2089.4	1938.2	1654.4	1038.9	545.3	410.7	383.9	375.0	370.5	369.3
25°	2205.4	2144.8	1973.9	1516.6	735.4	412.0	369.9	361.0	349.5	341.2	341.8
27.5°	2273.7	2200.3	1995.6	1289.6	490.4	352.1	342.5	330.4	309.3	297.2	297.2
30°	2355.9	2274.3	2011.5	992.4	361.0	311.2	303.6	285.1	256.4	240.4	240.4
32.5°	2479.7	2386.6	2001.3	696.5	299.1	273.6	255.7	230.2	199.0	183.7	183.0
35°	2669.1	2560.0	1928.6	456.6	264.0	237.9	209.2	177.9	150.5	137.8	137.1
37.5°	2924.2	2792.2	1765.4	326.5	236.6	204.7	170.3	135.8	115.4	107.1	106.5
40°	3255.2	3062.0	1531.9	264.7	211.1	172.8	131.4	105.2	91.2	84.8	85.5
42.5°	3652.5	3350.9	1252.0	228.3	186.2	142.2	102.7	82.9	74.0	69.5	68.2
45°	4093.9	3636.0	958.6	203.5	161.4	114.8	80.4	65.7	58.7	56.1	56.1
47.5°	4579.2	3913.4	701.6	181.8	134.6	88.7	64.4	53.6	47.8	45.9	45.3
50°	5019.9	4106.0	505.8	158.8	110.3	70.2	52.3	44.6	40.8	38.3	38.3
52.5°	5387.3	4166.6	372.5	133.9	89.3	56.1	43.4	38.3	34.4	32.5	32.5
55°	5710.6	4141.7	276.8	110.3	72.1	45.9	37.0	32.5	29.3	27.4	27.4
57.5°	6020.6	4061.4	206.6	89.9	58.0	37.0	31.3	27.4	24.2	23.0	23.0
60°	6273.8	3927.4	153.7	72.7	46.6	30.0	26.1	22.3	19.8	17.9	17.9
62.5°	6479.2	3779.5	112.9	60.0	37.0	23.6	20.4	18.5	14.7	12.8	12.8
65°	6480.4	3533.9	84.8	49.7	28.7	18.5	15.3	14.7	9.6	7.7	7.0
67.5°	6011.7	3046.7	65.1	42.7	22.3	14.0	11.5	12.1	5.1	3.2	2.6
68°	*5841.4*	*2922.9*	*61.2*	*42.1*	*21.0*	*13.4*	*10.8*	*12.1*	*4.5*	*2.6*	*1.9*
70°	4924.9	2325.3	49.1	40.8	18.5	10.2	8.9	12.1	3.8	1.9	1.3
72.5°	3150.0	1349.5	36.4	32.5	14.0	7.7	5.7	10.8	3.8	1.3	0.6
75°	1340.6	418.4	24.9	23.0	8.3	5.7	3.8	7.0	2.6	0.6	0.0
77.5°	282.5	94.4	14.7	14.0	5.7	3.8	2.6	1.9	0.6	0.0	0.0
80°	72.7	27.4	7.7	7.0	3.2	1.9	1.3	0.0	0.0	0.0	0.0
82.5°	23.0	10.8	4.5	3.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.5	6.4	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	1.9	0.6	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

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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

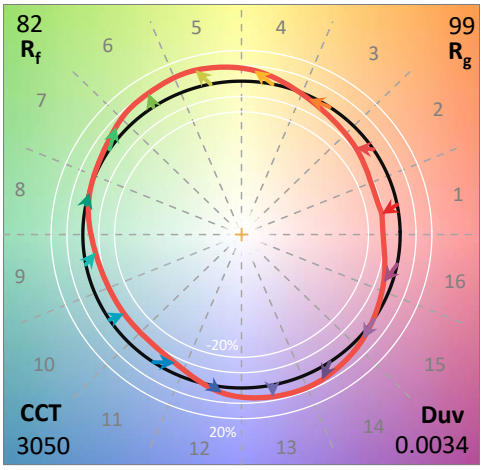
Test Information

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

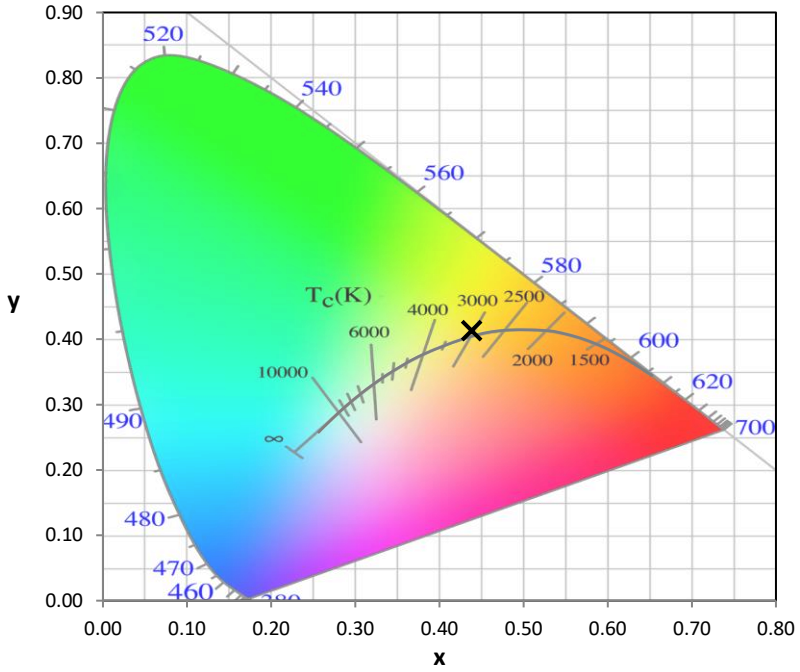
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

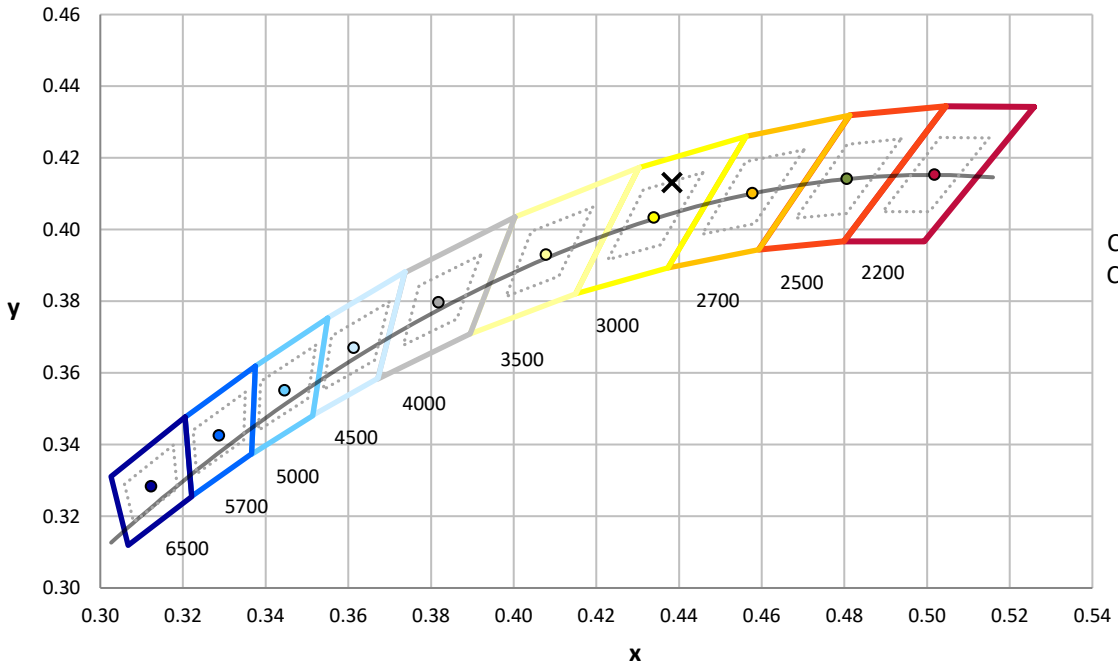
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

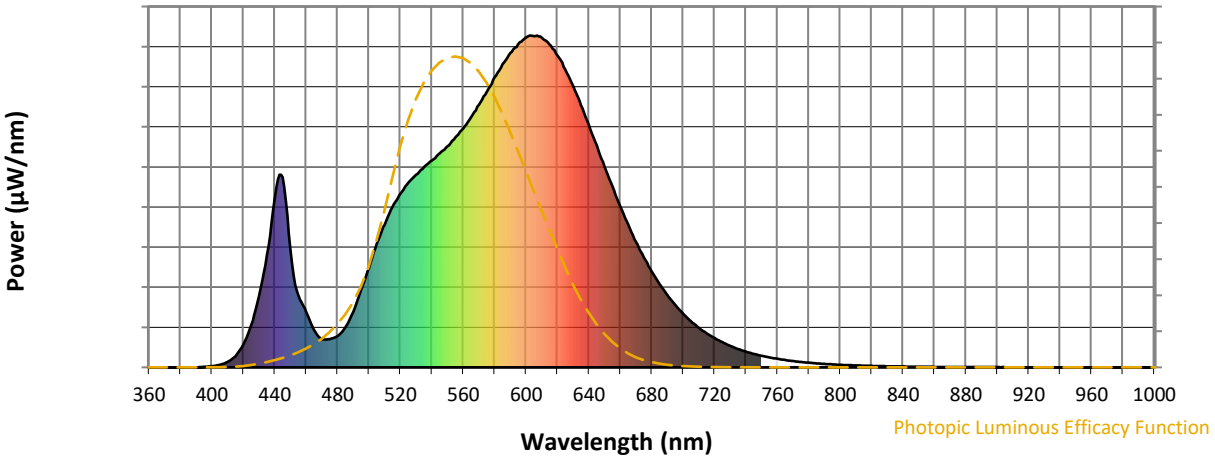


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

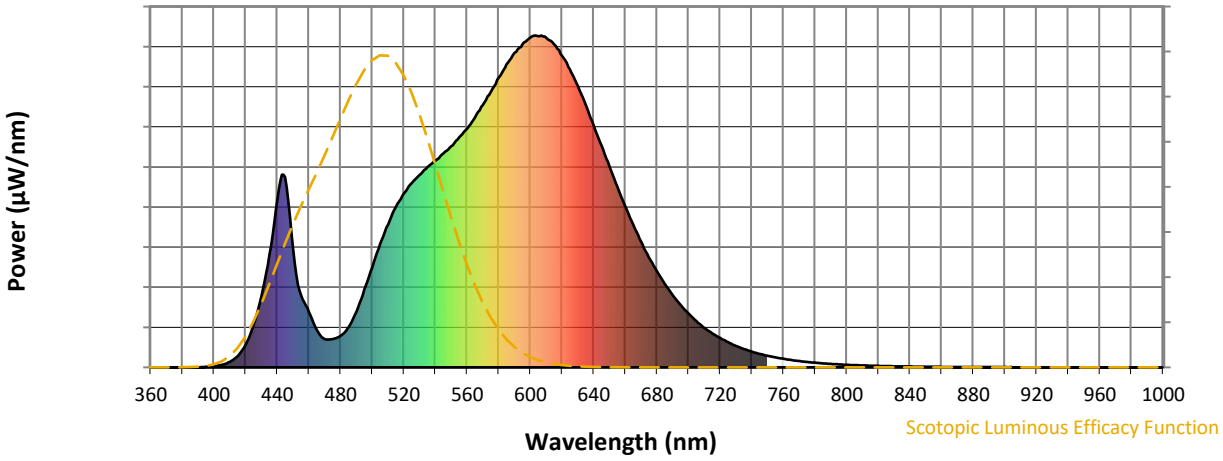


Photopic Lumens: NR

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

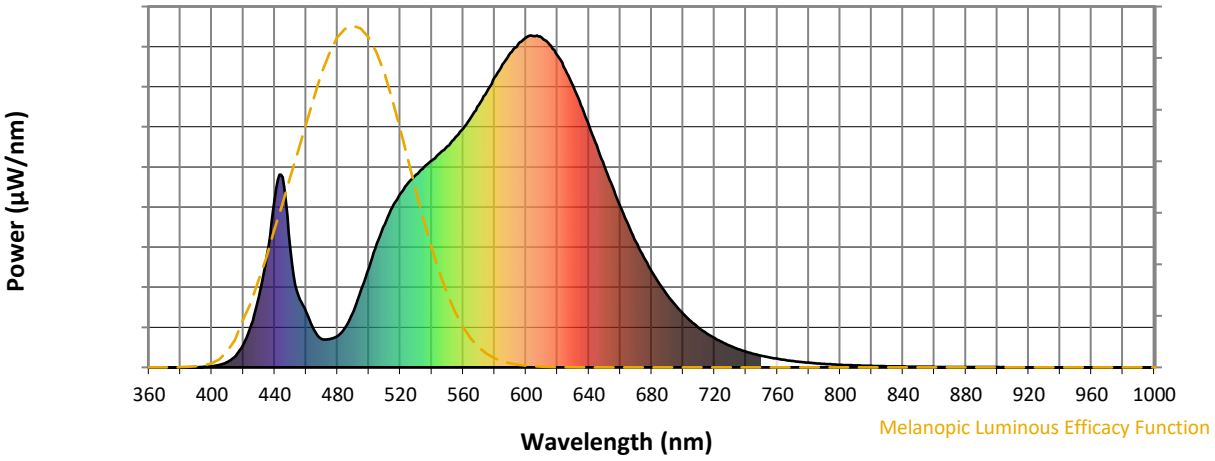


Scotopic Lumens: NR **S/P: 1.27**

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			

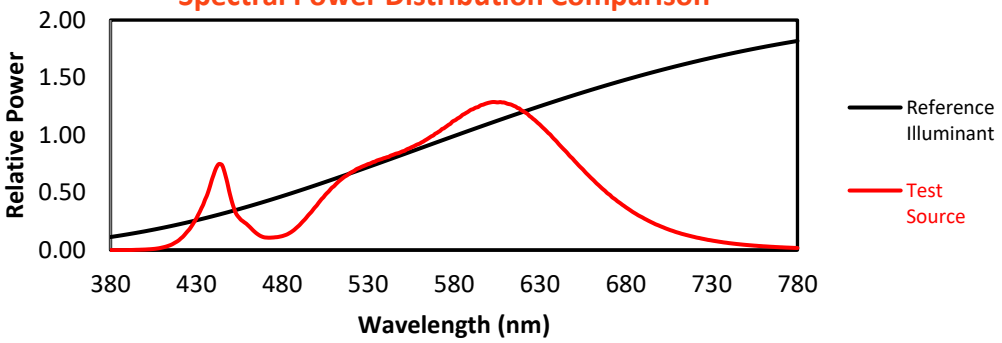
REPORT NUMBER: SP1-2408-195-9

TM-30-18

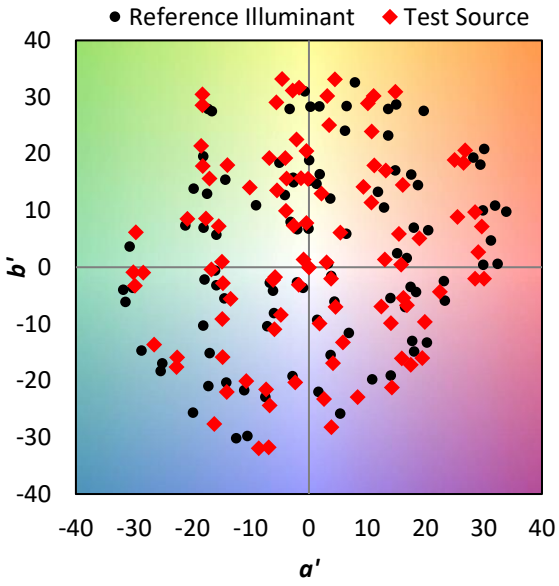
Summary

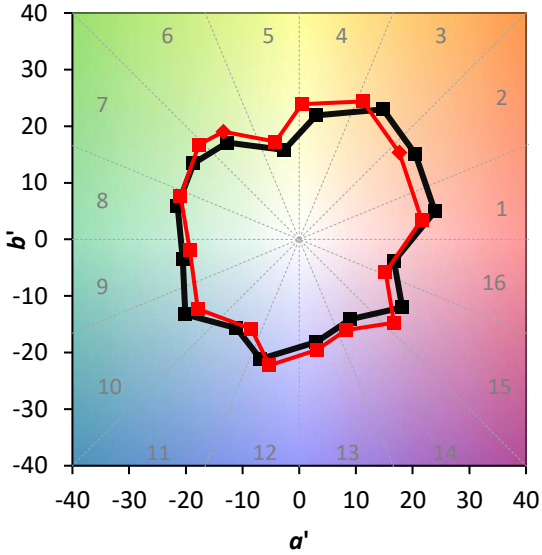
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

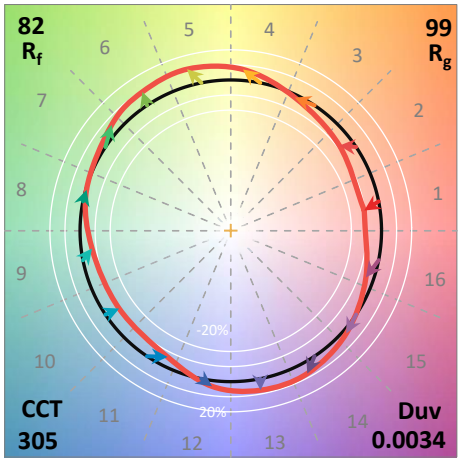
Spectral Power Distribution Comparison

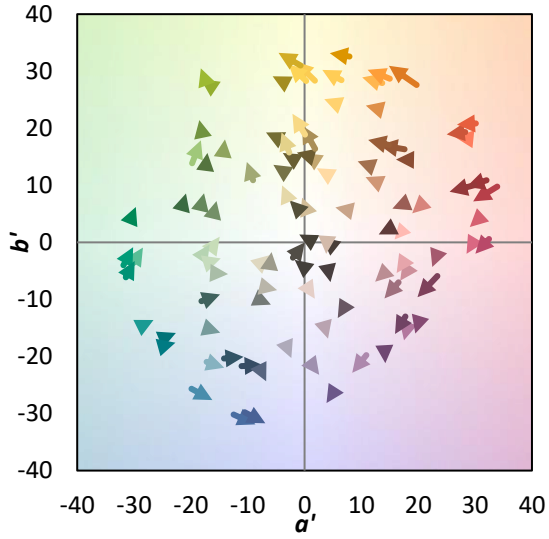


Color Vector Graphics







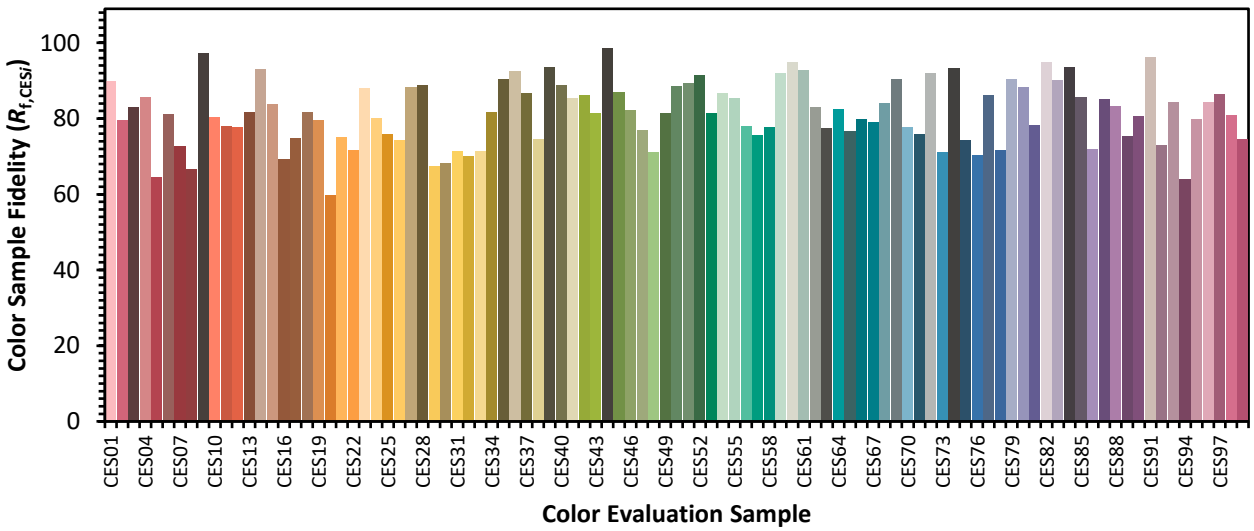


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

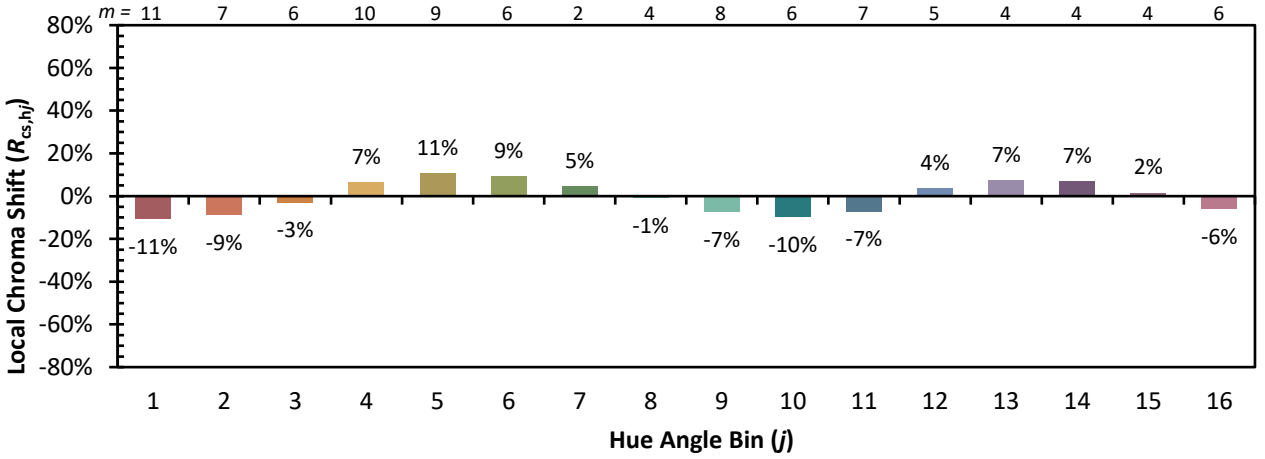
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

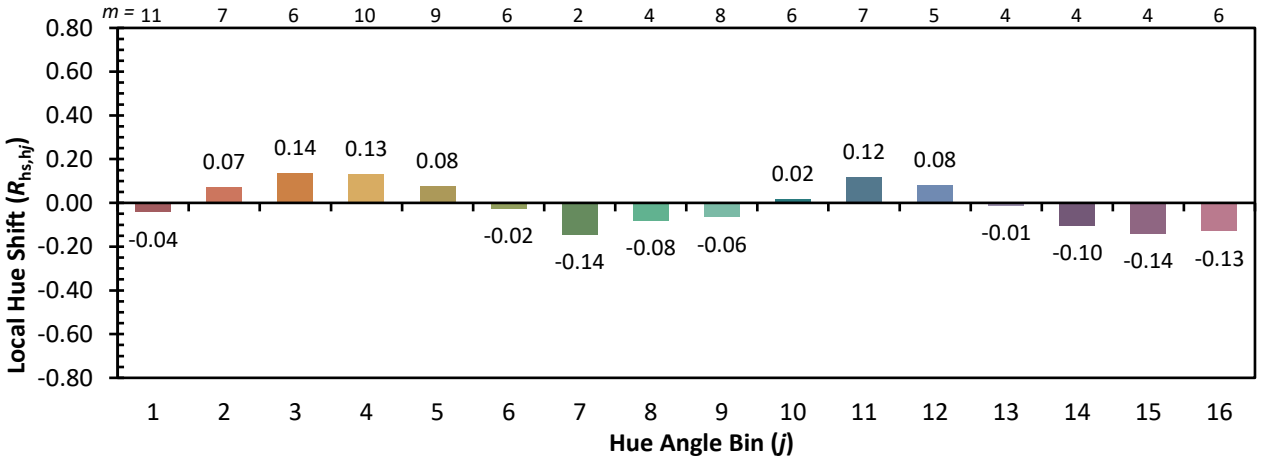


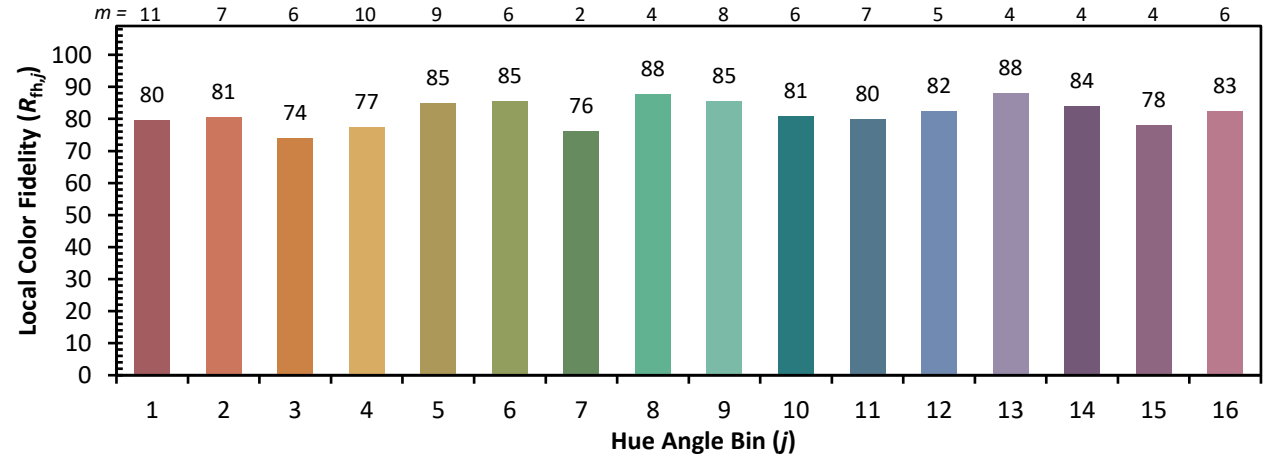
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



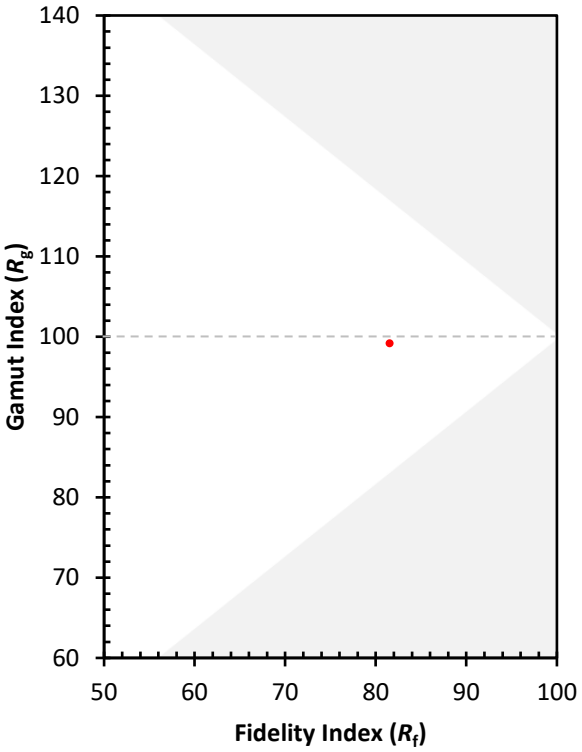


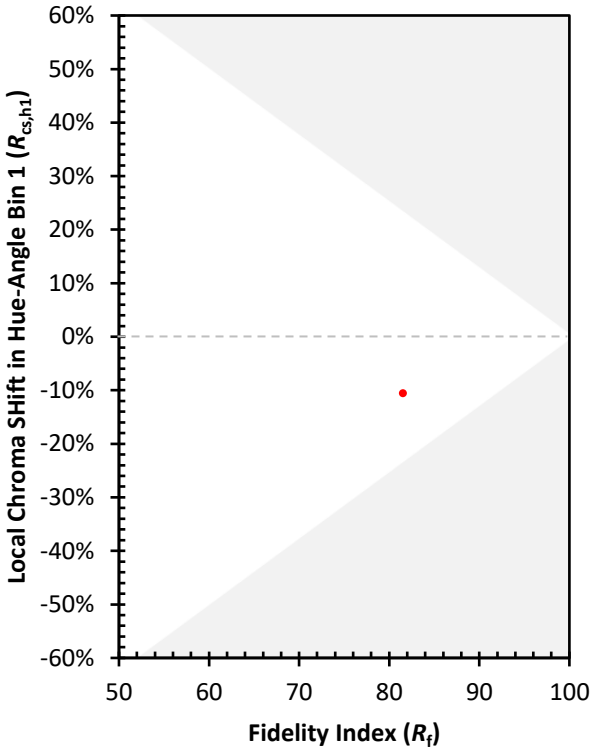


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)