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: P323030

Luminaire Tested: **GLEON-SA6A-830-U-T4W-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:	P323030
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA6A-830-U-T4W-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16053 lumens
Efficiency:	N/A
Efficacy:	83.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G3

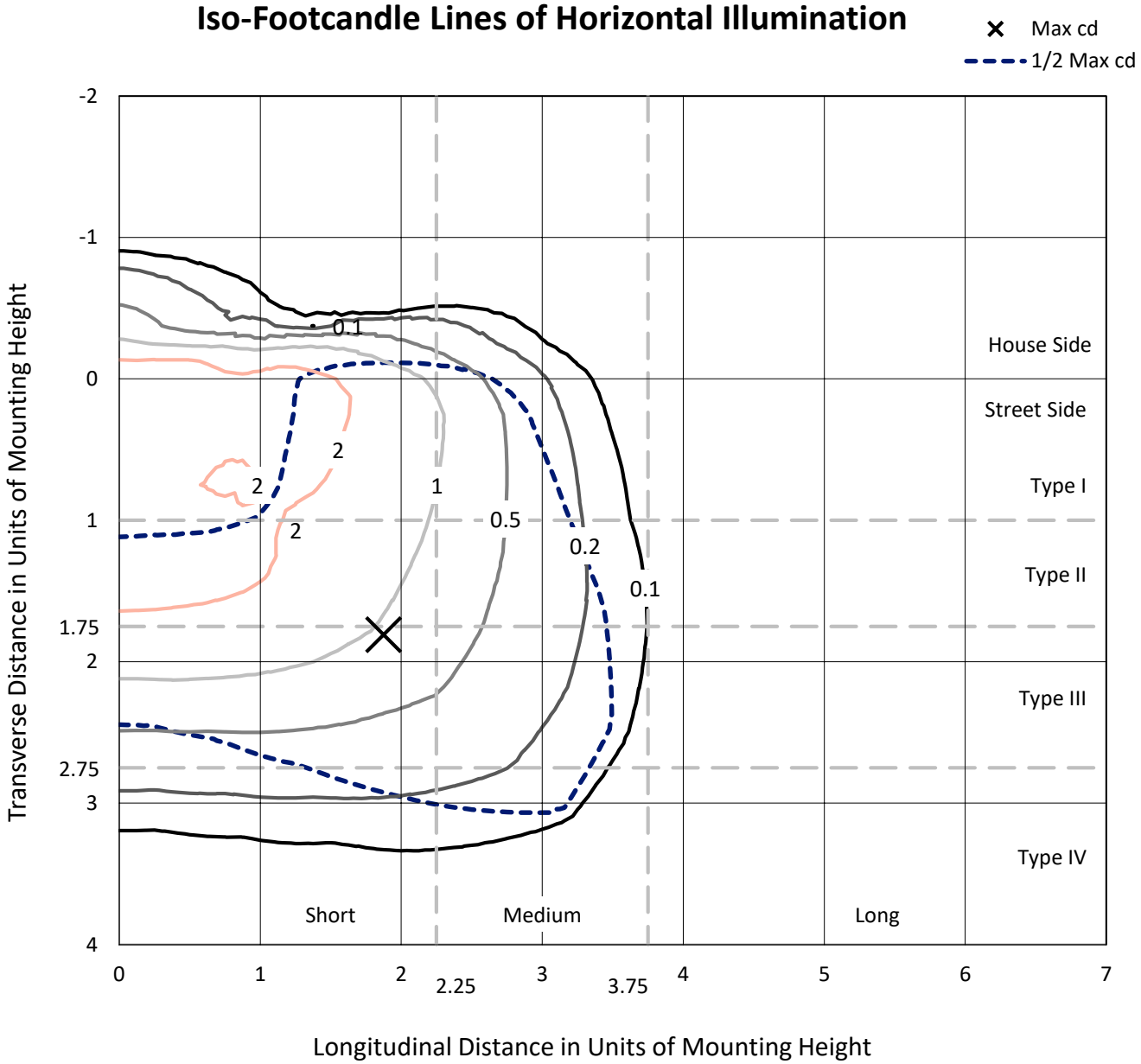
Input Watts (W):	193
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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

Scaled Data Report

REPORT NUMBER: P323030
CATALOG NUMBER: GLEON-SA6A-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination



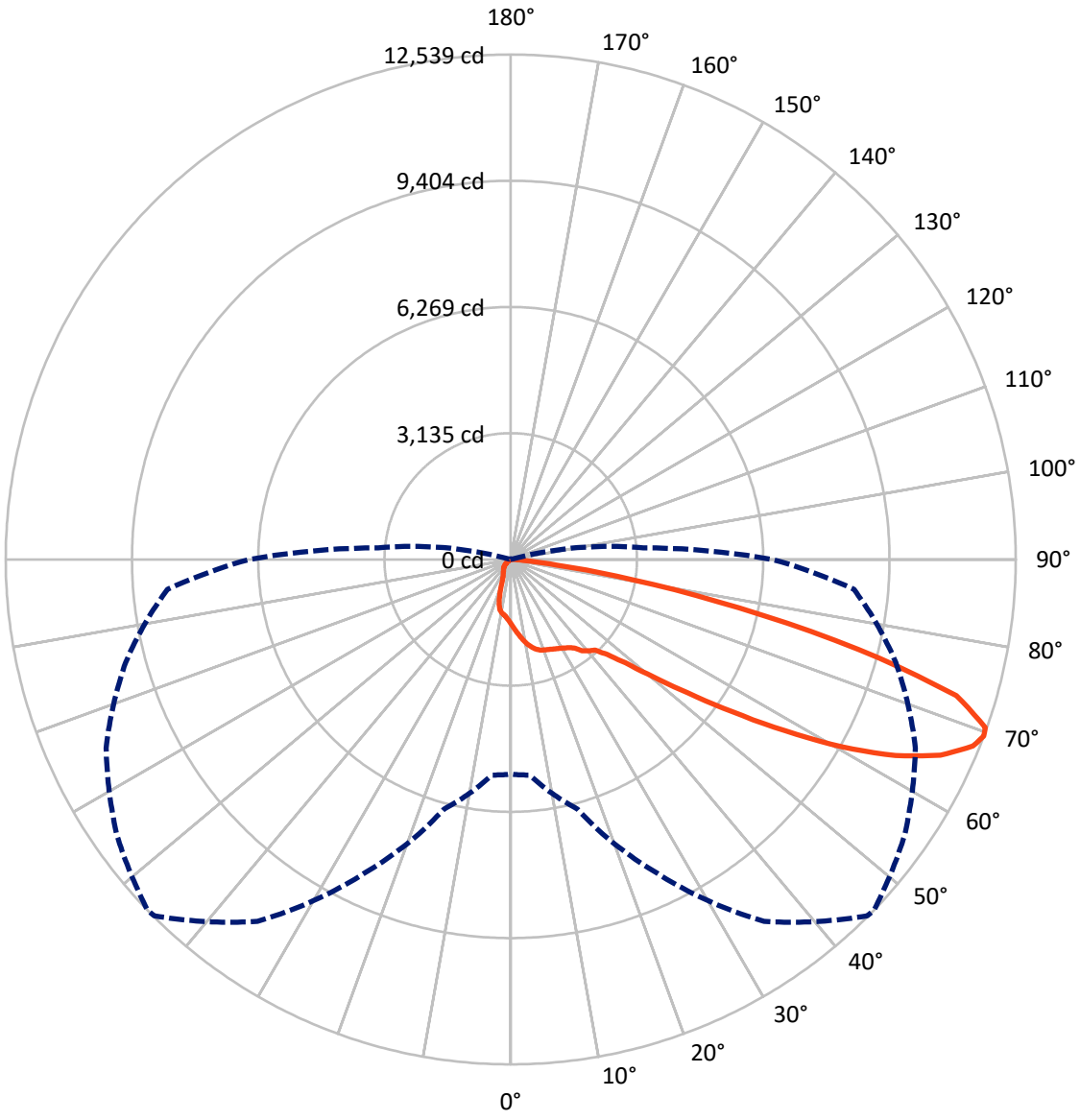
Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P323030
CATALOG NUMBER: GLEON-SA6A-830-U-T4W-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

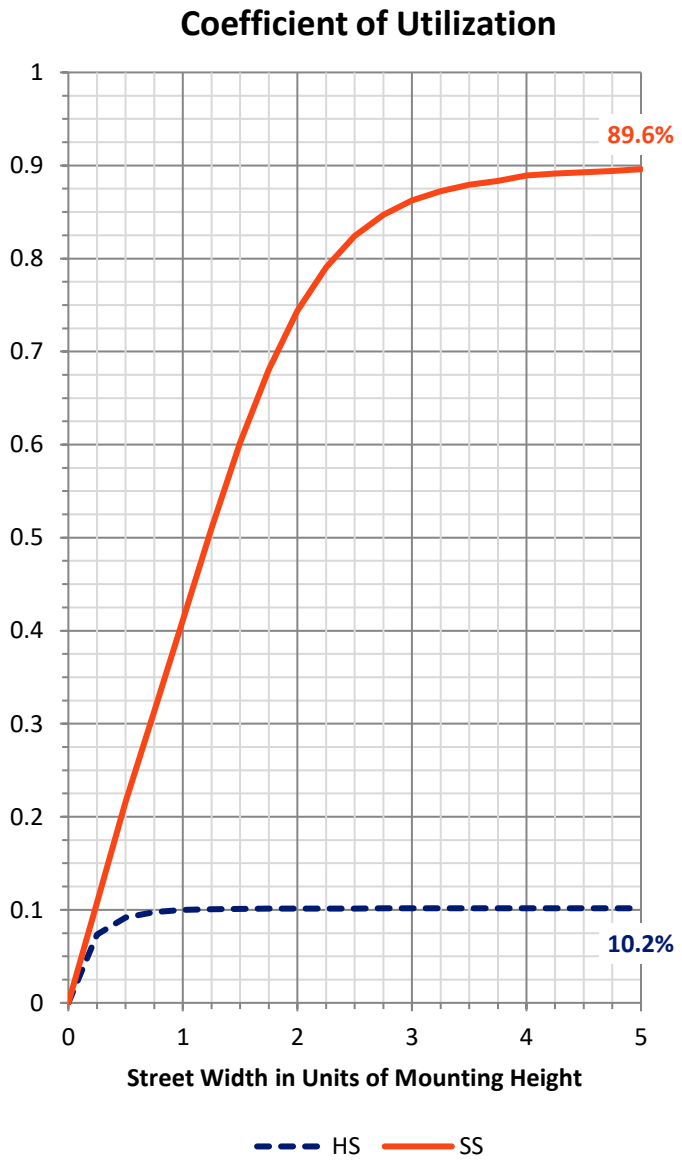
REPORT NUMBER: P323030
CATALOG NUMBER: GLEON-SA6A-830-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1647.5	0.0	1647.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	14405.5	0.0	14405.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	16053.0	0.0	16053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	1.0
10°-20°	485.7	3.0
20°-30°	763.8	4.8
30°-40°	1095.3	6.8
40°-50°	1893.2	11.8
50°-60°	3740.1	23.3
60°-70°	5227.2	32.6
70°-80°	2525.3	15.7
80°-90°	162.3	1.0
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°	16053.0	100.0
0°-180°	16053.0	100.0



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

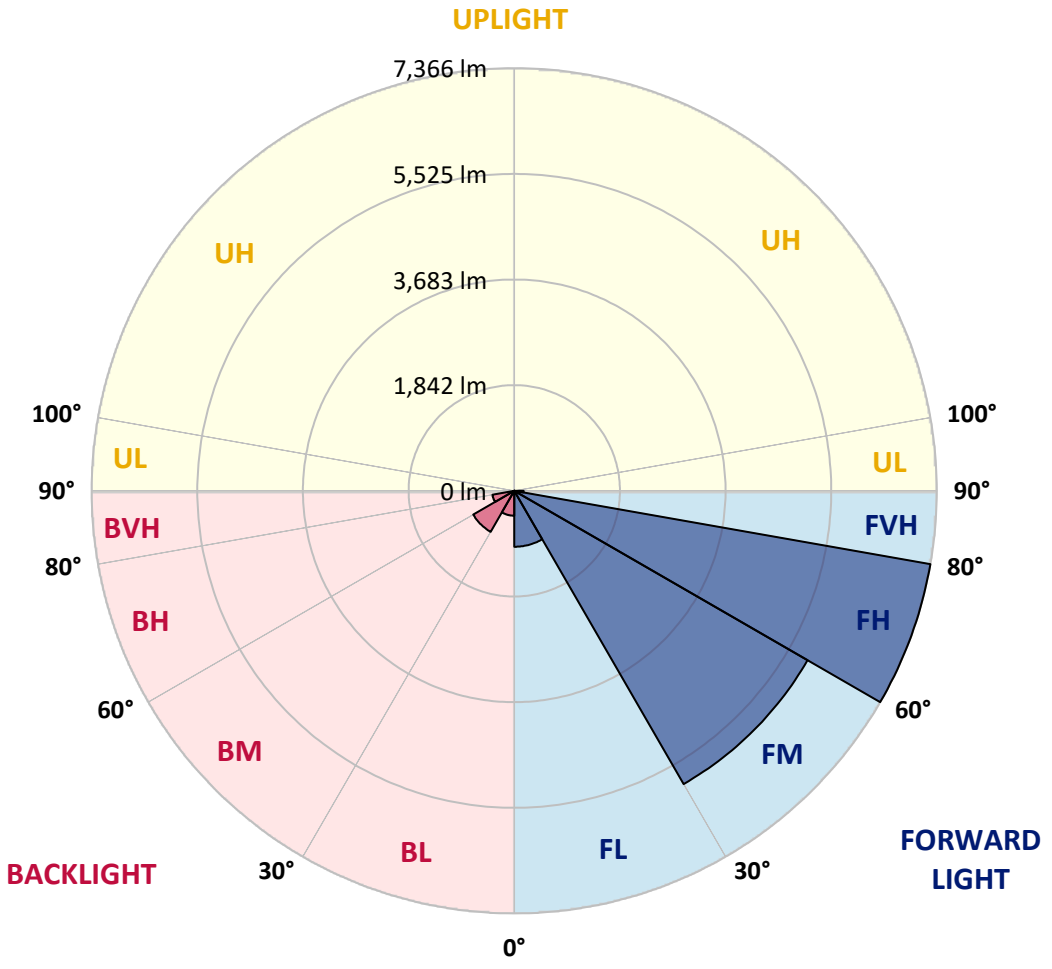
Scaled Data Report

REPORT NUMBER: P323030
CATALOG NUMBER: GLEON-SA6A-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	975.4	6.1			
FM	(30°-60°)	5903.0	36.8			
FH	(60°-80°)	7366.1	45.9			G3/7500
FVH	(80°-90°)	160.9	1.0			G2/225
BL	(0°-30°)	434.2	2.7	B1/500		
BM	(30°-60°)	825.6	5.1	B1/1000		
BH	(60°-80°)	386.3	2.4	B1/500		G1/500
BVH	(80°-90°)	1.4	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 IV Short



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

Scaled Data Report

REPORT NUMBER: P323030
CATALOG NUMBER: GLEON-SA6A-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	*1608.5*	1608.5	1608.5	1608.5	1608.5
2.5°	1786.8	1784.6	1774.0	1769.5	1743.9	1728.9	*1722.9*	1704.0	1676.9	1649.8	1619.7
5°	1990.1	1989.3	1969.7	1950.9	1902.7	1857.6	*1849.3*	1805.6	1744.7	1687.5	1630.3
7.5°	2197.8	2188.0	2168.4	2132.3	2062.3	1990.1	*1983.3*	1921.6	1835.0	1752.2	1670.2
10°	2373.9	2367.9	2342.3	2287.4	2205.3	2123.3	*2115.0*	2039.0	1941.1	1839.5	1734.9
12.5°	2510.9	2506.4	2472.5	2404.0	2316.7	2231.7	*2220.4*	2152.6	2048.0	1934.4	1810.9
15°	2594.4	2592.2	2550.8	2477.8	2392.0	2318.2	*2308.4*	2249.0	2151.9	2033.0	1893.7
17.5°	2614.0	2614.8	2571.9	2498.1	2427.4	2374.7	*2367.1*	2322.0	2240.7	2122.5	1976.5
20°	2570.4	2579.4	2541.0	2477.0	2433.4	2405.5	*2399.5*	2372.4	2303.9	2192.5	2042.7
22.5°	2508.6	2513.2	2486.8	2443.9	2425.8	2431.1	*2428.1*	2413.1	2355.1	2252.7	2108.2
25°	2471.0	2471.0	2455.2	2419.1	2431.1	2463.5	*2464.2*	2461.2	2415.3	2326.5	2188.0
27.5°	2469.5	2465.0	2446.9	2419.8	2452.9	2502.6	*2505.6*	2526.0	2497.4	2416.1	2287.4
30°	2529.7	2524.4	2486.1	2450.7	2492.8	2546.3	*2553.8*	2598.2	2583.9	2513.2	2398.0
32.5°	2670.5	2651.6	2566.6	2508.6	2540.3	2604.2	*2614.0*	2684.8	2707.3	2632.8	2504.9
35°	2863.1	2803.7	2681.0	2618.5	2621.5	2688.5	*2697.6*	2801.4	2868.4	2742.7	2587.7
37.5°	3128.8	3099.5	2900.0	2732.9	2746.5	2848.1	*2874.4*	2987.3	2968.5	2802.9	2681.8
40°	3711.4	3665.5	3453.2	3053.6	2866.2	2977.6	*2985.8*	3046.0	3047.6	2939.2	2877.4
42.5°	4504.7	4485.9	4262.4	3635.4	3101.7	3064.1	*3079.2*	3180.8	3294.4	3226.7	3223.7
45°	5383.1	5373.3	5136.2	4407.6	3578.2	3347.9	*3366.7*	3502.9	3720.4	3735.5	3831.1
47.5°	6089.8	6085.3	5949.1	5269.4	4307.5	3828.8	*3834.8*	3979.4	4361.7	4550.6	4703.4
50°	6734.1	6755.9	6648.3	6202.0	5301.0	4582.2	*4567.9*	4664.3	5278.5	5587.8	5777.5
52.5°	7629.8	7660.7	7358.8	7072.1	6343.5	5517.1	*5505.8*	5606.6	6380.4	6612.2	6646.1
55°	8420.8	8368.2	8129.6	8046.8	7614.7	6671.6	*6668.6*	6757.4	7446.1	7544.7	7607.2
57.5°	8770.1	8749.8	8864.9	9054.6	8946.2	8036.2	*8029.5*	7961.7	8399.8	8410.3	8602.2
60°	8990.6	9015.5	9368.5	9953.3	10223.5	9504.7	*9461.0*	9047.8	9310.5	9287.2	9492.6
62.5°	8825.0	8874.0	9509.2	10483.9	11179.4	10786.5	*10724.8*	10042.8	10088.8	10008.2	10199.4
65°	7945.9	8021.9	9062.9	10383.8	11653.6	11788.3	*11725.8*	10921.2	10706.7	10574.2	10468.1
67.5°	6451.9	6497.0	7583.9	9513.0	11439.8	12385.9	*12373.1*	11691.2	11173.4	10478.6	9655.2
69°	*5331.9*	*5376.3*	*6422.5*	*8596.2*	*10969.4*	*12513.9*	*12538.7*	*11938.1*	*11084.5*	*9897.6*	*8554.8*
70°	4516.0	4563.4	5538.1	7810.4	10423.7	12454.4	*12498.8*	11914.7	10830.1	9224.7	7589.1
72.5°	2368.6	2409.3	3409.6	5380.8	8497.6	11436.0	*11570.8*	10907.7	9180.3	6699.5	4487.4
75°	744.4	767.7	1331.5	2812.7	5818.1	8892.0	*8922.9*	8556.3	6518.9	3685.1	1868.9
77.5°	283.8	277.0	443.3	1036.4	2941.4	5599.1	*5788.0*	5347.0	3420.9	1302.9	431.3
80°	152.8	153.5	230.3	429.0	1258.5	2877.4	*3037.0*	2591.4	1215.6	406.4	99.4
82.5°	66.2	69.2	129.5	227.3	578.0	1061.3	*1141.0*	949.9	464.4	273.2	36.9
85°	14.3	15.8	62.5	123.4	235.6	298.1	*312.4*	307.8	295.8	212.3	14.3
87.5°	0.0	0.0	27.8	44.4	59.5	67.7	*59.5*	77.5	163.3	143.0	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0

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

Scaled Data Report

REPORT NUMBER: P323030
CATALOG NUMBER: GLEON-SA6A-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5
2.5°	1610.0	1596.4	1573.1	1547.5	1529.4	1510.6	1495.6	1488.8	1481.2	1476.0	1482.8
5°	1606.9	1580.6	1535.4	1491.8	1460.2	1434.6	1413.5	1405.2	1397.0	1390.9	1390.2
7.5°	1633.3	1596.4	1527.2	1463.2	1414.3	1379.6	1351.0	1339.0	1329.2	1324.7	1320.9
10°	1683.7	1636.3	1543.7	1460.2	1397.0	1338.2	1276.5	1229.1	1198.2	1183.9	1178.7
12.5°	1749.2	1689.7	1575.3	1476.0	1384.2	1271.3	1140.3	1027.4	954.4	930.3	916.0
15°	1826.0	1752.2	1616.7	1496.3	1337.5	1131.3	909.2	761.7	694.0	680.4	665.4
17.5°	1899.7	1818.4	1666.4	1500.1	1235.1	904.0	666.1	566.0	539.7	548.7	551.0
20°	1964.5	1883.9	1715.3	1466.9	1049.2	678.2	515.6	490.7	500.5	517.8	520.8
22.5°	2029.9	1947.2	1760.5	1379.6	811.4	514.8	464.4	470.4	480.2	497.5	500.5
25°	2109.7	2023.9	1802.6	1219.3	608.9	438.1	441.1	450.1	459.9	475.7	477.2
27.5°	2201.6	2121.0	1830.5	1010.8	451.6	402.7	412.5	426.0	435.8	450.8	453.9
30°	2323.5	2249.0	1839.5	794.8	378.6	371.1	375.6	392.1	406.4	420.0	422.2
32.5°	2437.9	2375.4	1809.4	599.9	350.7	341.7	341.7	351.5	368.1	380.8	383.9
35°	2543.3	2502.6	1713.1	438.8	329.7	314.6	307.1	307.1	317.6	328.2	331.2
37.5°	2682.5	2681.0	1557.3	350.0	309.3	292.0	276.2	264.2	260.4	262.7	264.2
40°	2921.1	2923.4	1354.0	313.9	292.0	268.7	244.6	222.8	202.5	195.7	194.9
42.5°	3293.7	3259.8	1141.0	296.6	277.0	244.6	208.5	179.1	147.5	137.7	137.0
45°	3885.3	3684.3	915.2	280.7	261.2	217.5	172.4	132.5	106.9	99.4	99.4
47.5°	4747.1	4242.0	709.0	263.4	240.1	186.7	130.2	95.6	78.3	74.5	75.3
50°	5638.2	4788.5	543.4	241.6	214.5	154.3	96.3	69.2	59.5	59.5	60.2
52.5°	6428.5	5188.9	423.8	218.3	182.9	121.2	73.0	54.2	49.7	48.9	49.7
55°	7168.4	5447.1	324.4	191.2	145.3	90.3	55.7	44.4	41.4	39.9	39.1
57.5°	7881.9	5575.0	243.1	154.3	105.4	65.5	44.4	37.6	34.6	32.4	31.6
60°	8356.9	5471.1	167.1	113.7	73.0	47.4	36.9	32.4	28.6	26.3	25.6
62.5°	8624.8	5187.4	107.6	82.0	51.9	35.4	29.4	27.1	21.8	19.6	19.6
65°	8516.4	4719.2	75.3	58.7	37.6	26.3	21.8	21.8	15.8	12.8	12.0
67.5°	7547.0	3986.9	57.2	43.7	27.1	19.6	16.6	18.8	9.8	6.0	6.0
69°	*6493.3*	*3304.2*	*48.9*	*36.1*	*22.6*	*15.8*	*14.3*	*17.3*	*6.8*	*4.5*	*3.8*
70°	5643.5	2850.4	44.4	31.6	18.8	13.5	12.8	16.6	6.8	3.8	3.0
72.5°	3376.5	1589.6	33.9	22.6	12.0	10.5	10.5	18.8	6.8	3.8	3.0
75°	1364.6	560.0	24.8	15.8	9.0	9.0	12.8	24.1	6.0	3.0	2.3
77.5°	309.3	122.7	14.3	9.8	6.0	9.0	15.1	18.8	3.8	1.5	0.0
80°	75.3	30.1	9.0	6.0	3.8	6.8	11.3	10.5	0.8	0.0	0.0
82.5°	24.8	10.5	3.8	3.0	0.8	2.3	5.3	3.0	0.0	0.0	0.0
85°	10.5	6.0	1.5	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0
87.5°	6.8	2.3	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

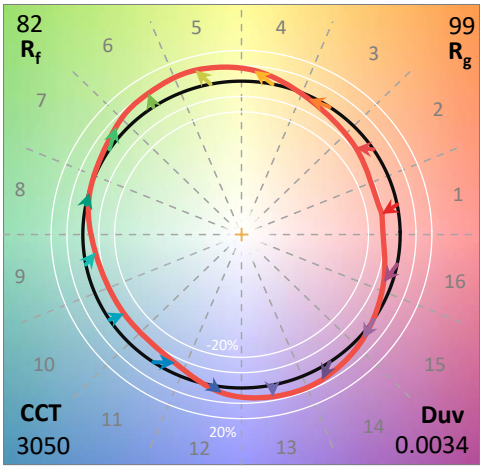
Test Information

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

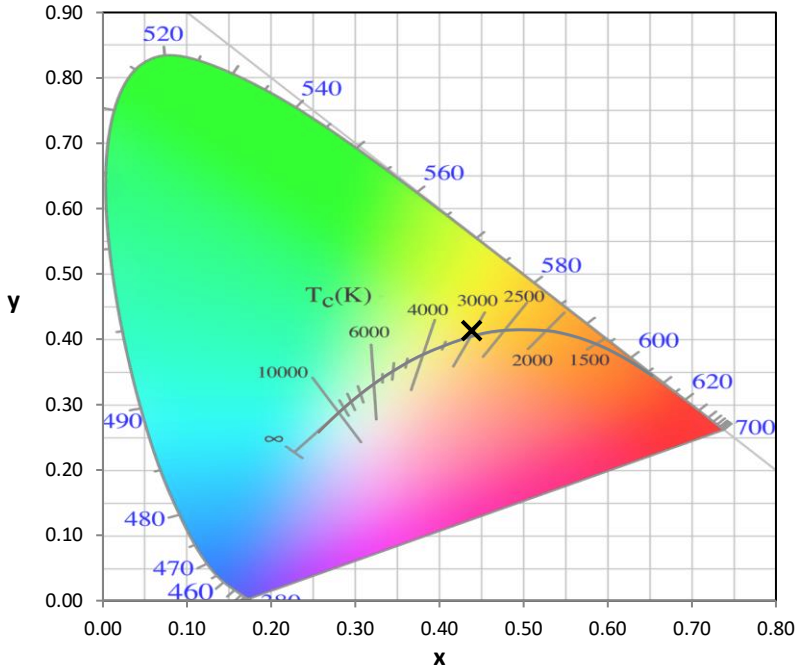
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

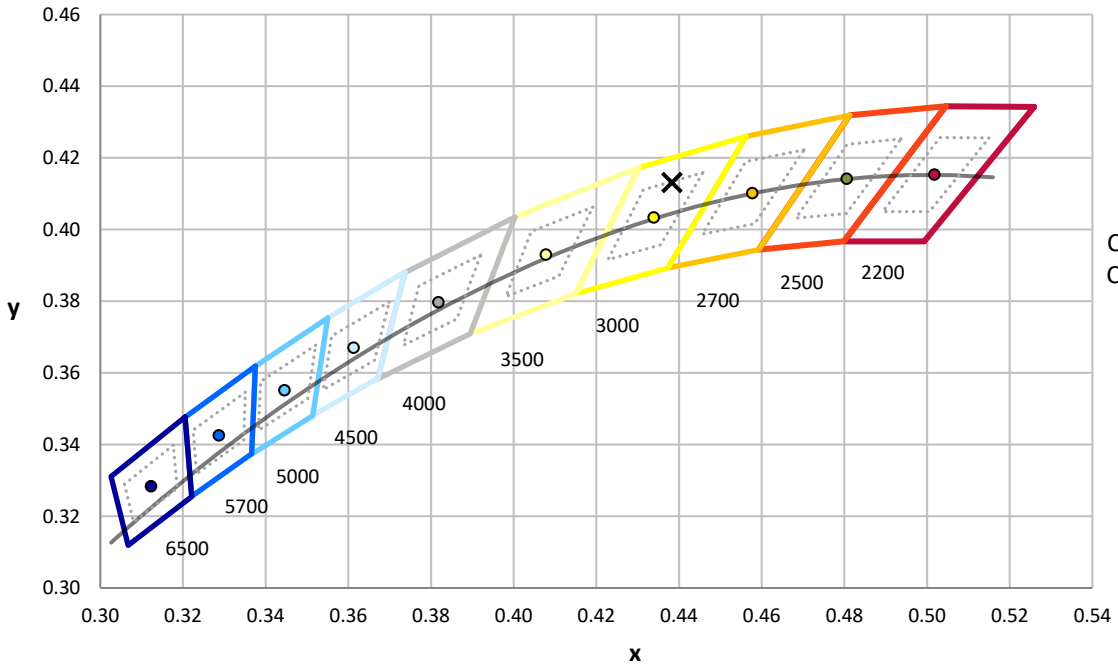
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

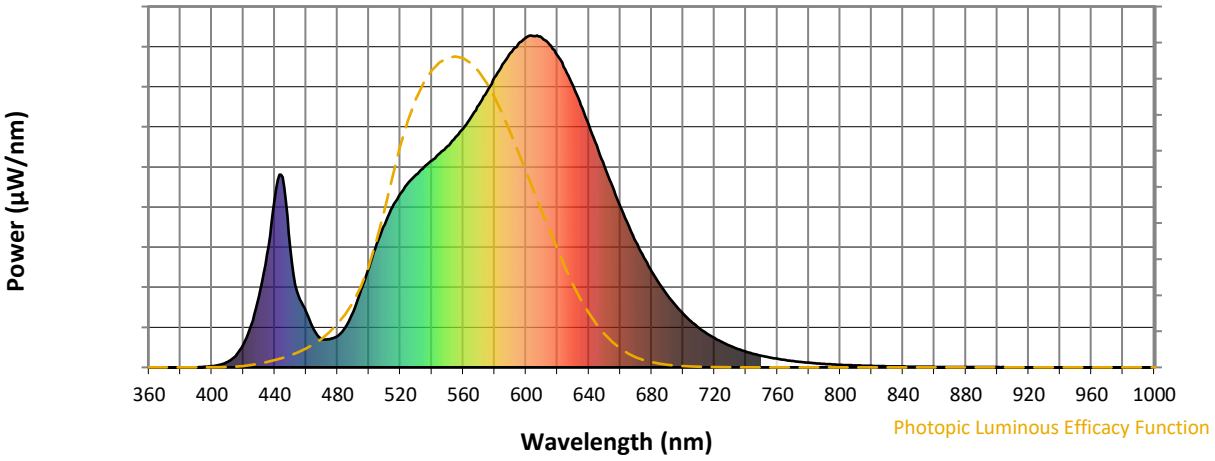


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

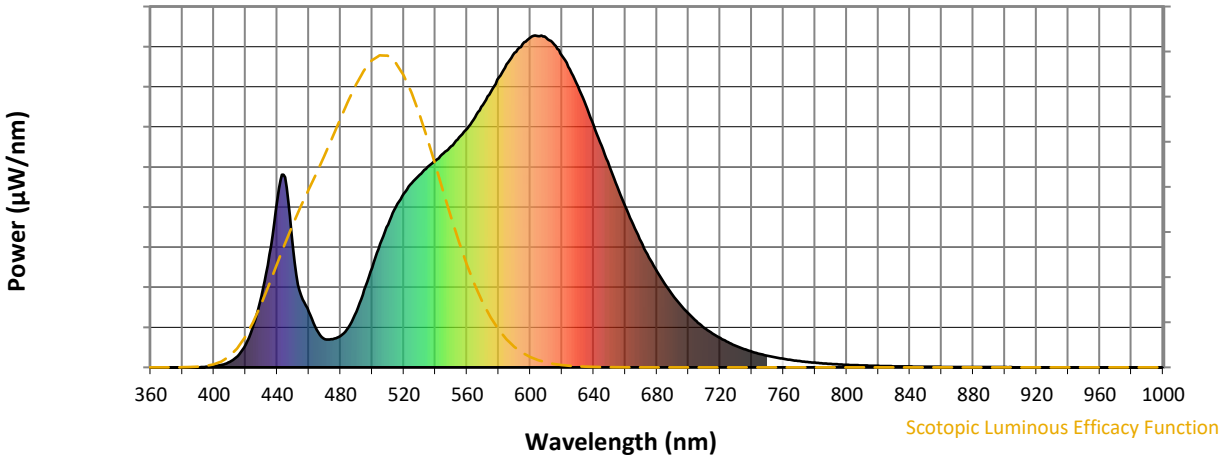


Photopic Lumens: NR

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

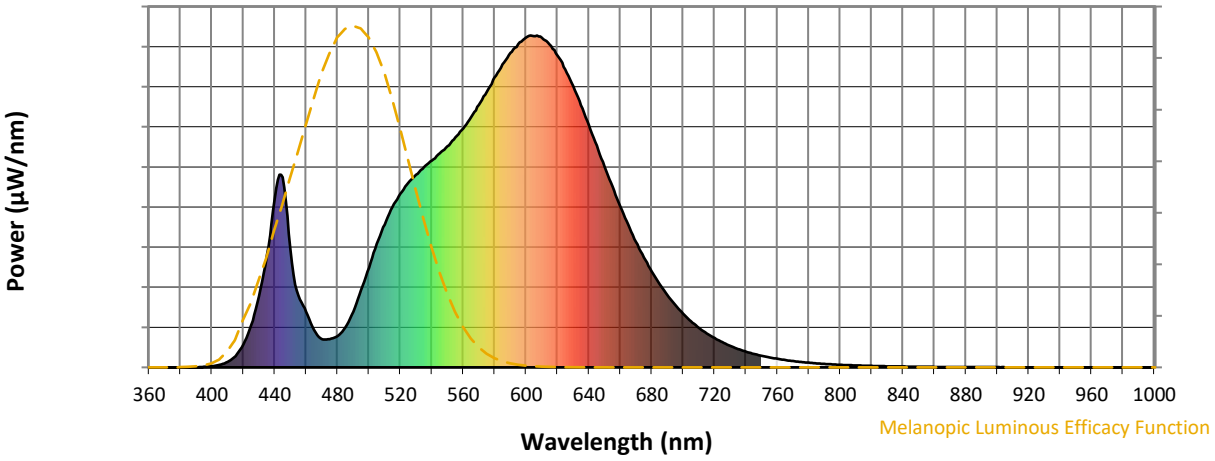


Scotopic Lumens: NR **S/P: 1.27**

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			

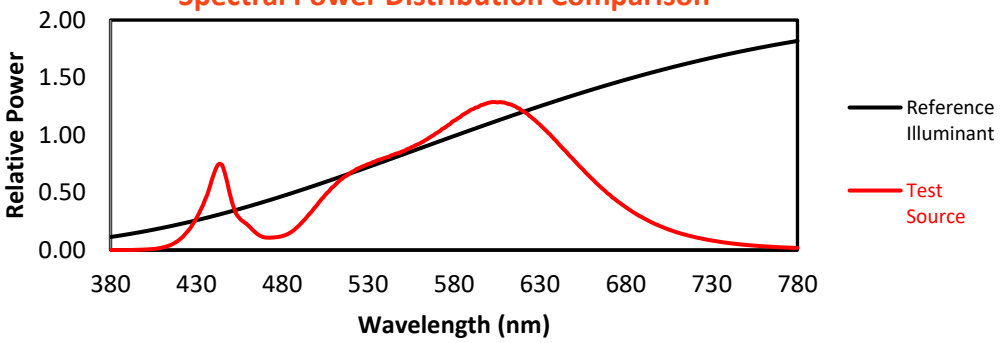
REPORT NUMBER: SP1-2408-195-9

TM-30-18

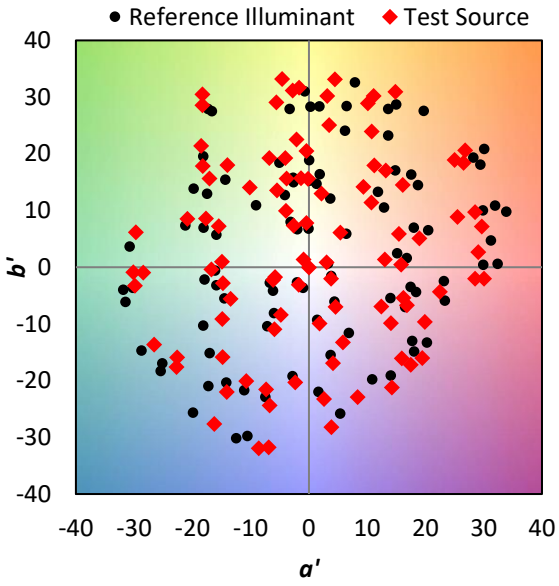
Summary

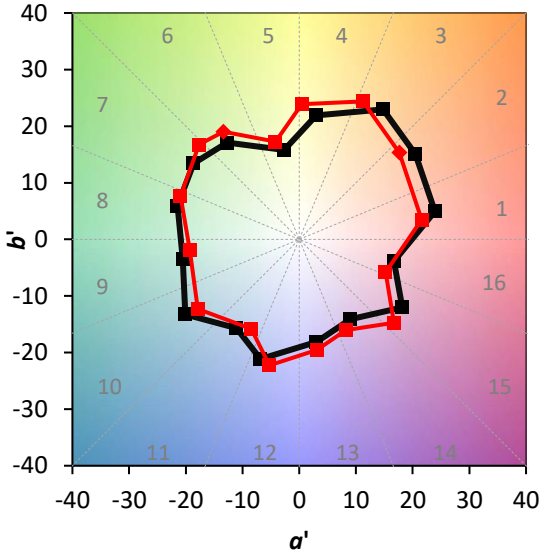
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

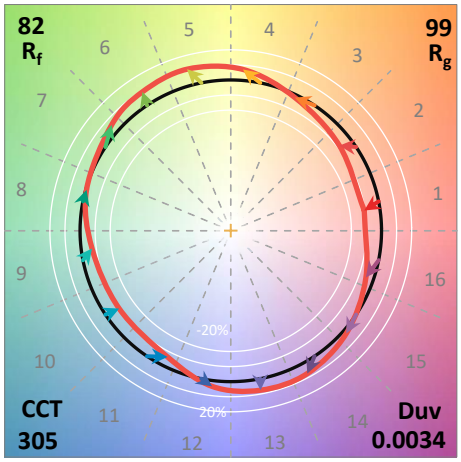
Spectral Power Distribution Comparison

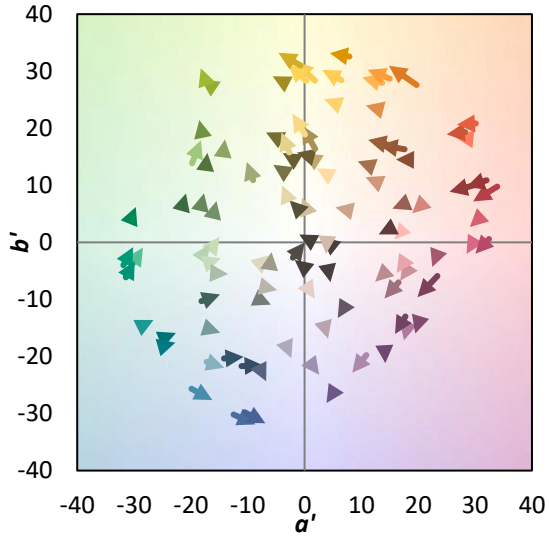


Color Vector Graphics







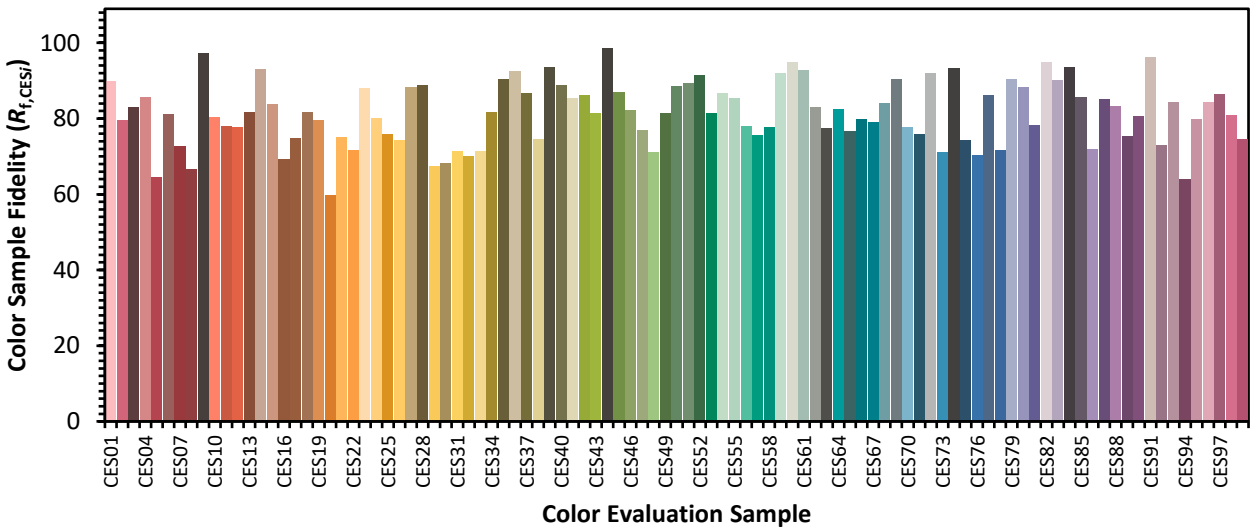


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

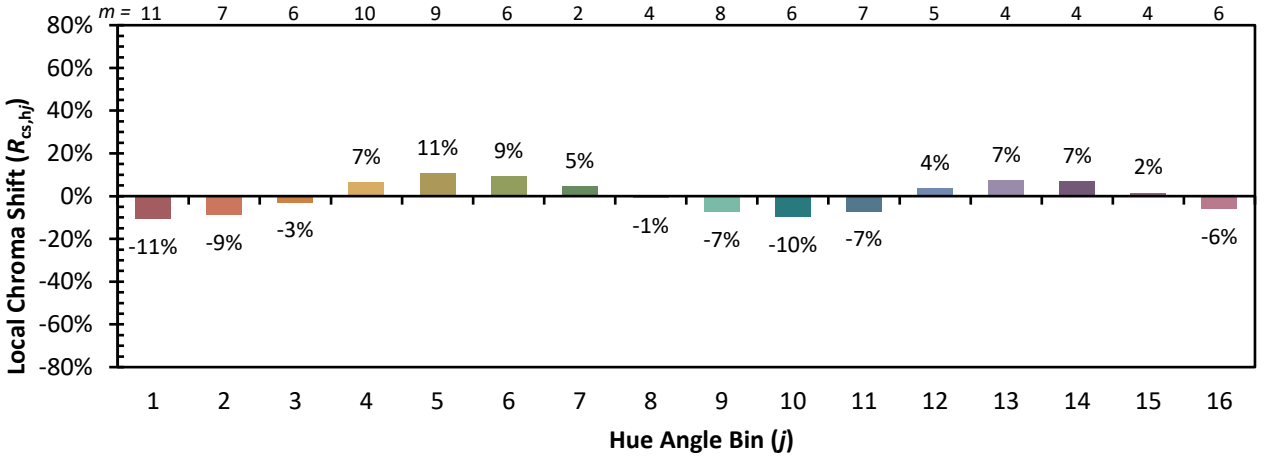
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

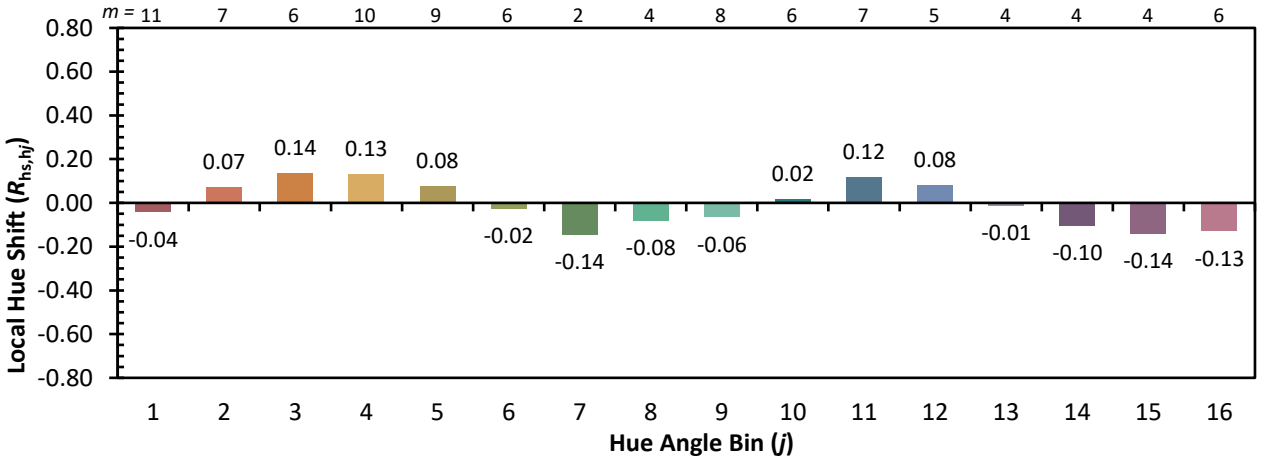


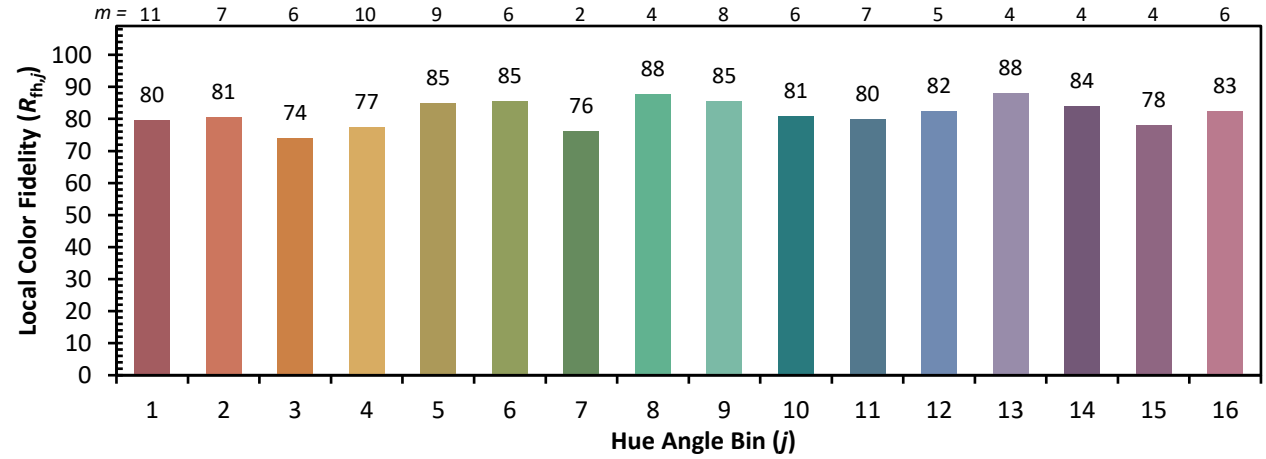
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



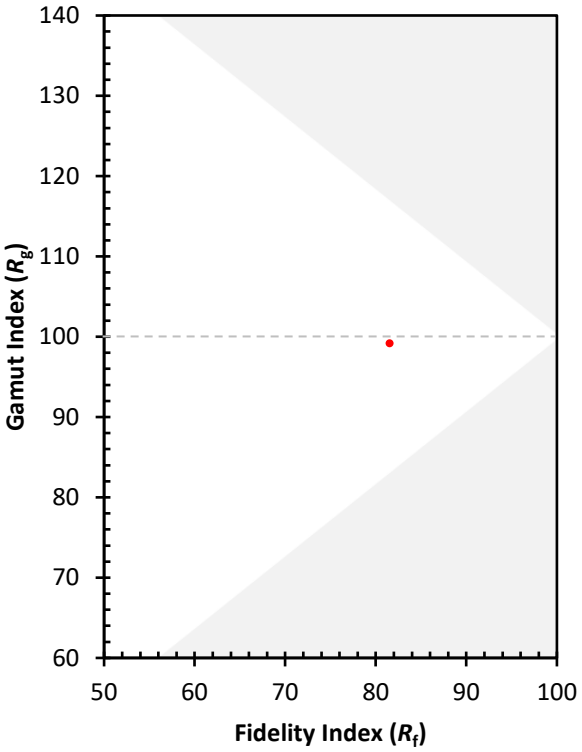


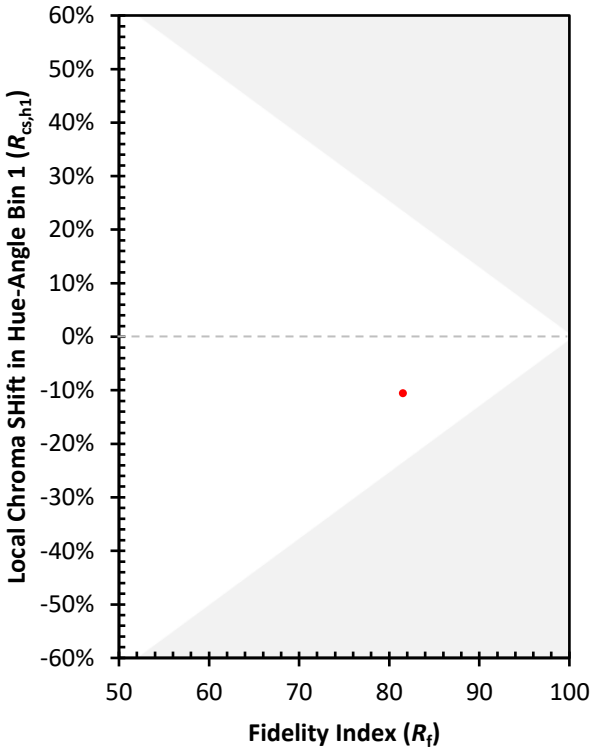


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)