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: P323676

Luminaire Tested: **GLEON-SA2B-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:	P323676
	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-SA2B-830-U-SL3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(2) 80 CRI, 3000K, 800mA 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:	7938 lumens
Efficiency:	N/A
Efficacy:	93.4 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - U0 - G2

Input Watts (W):	85
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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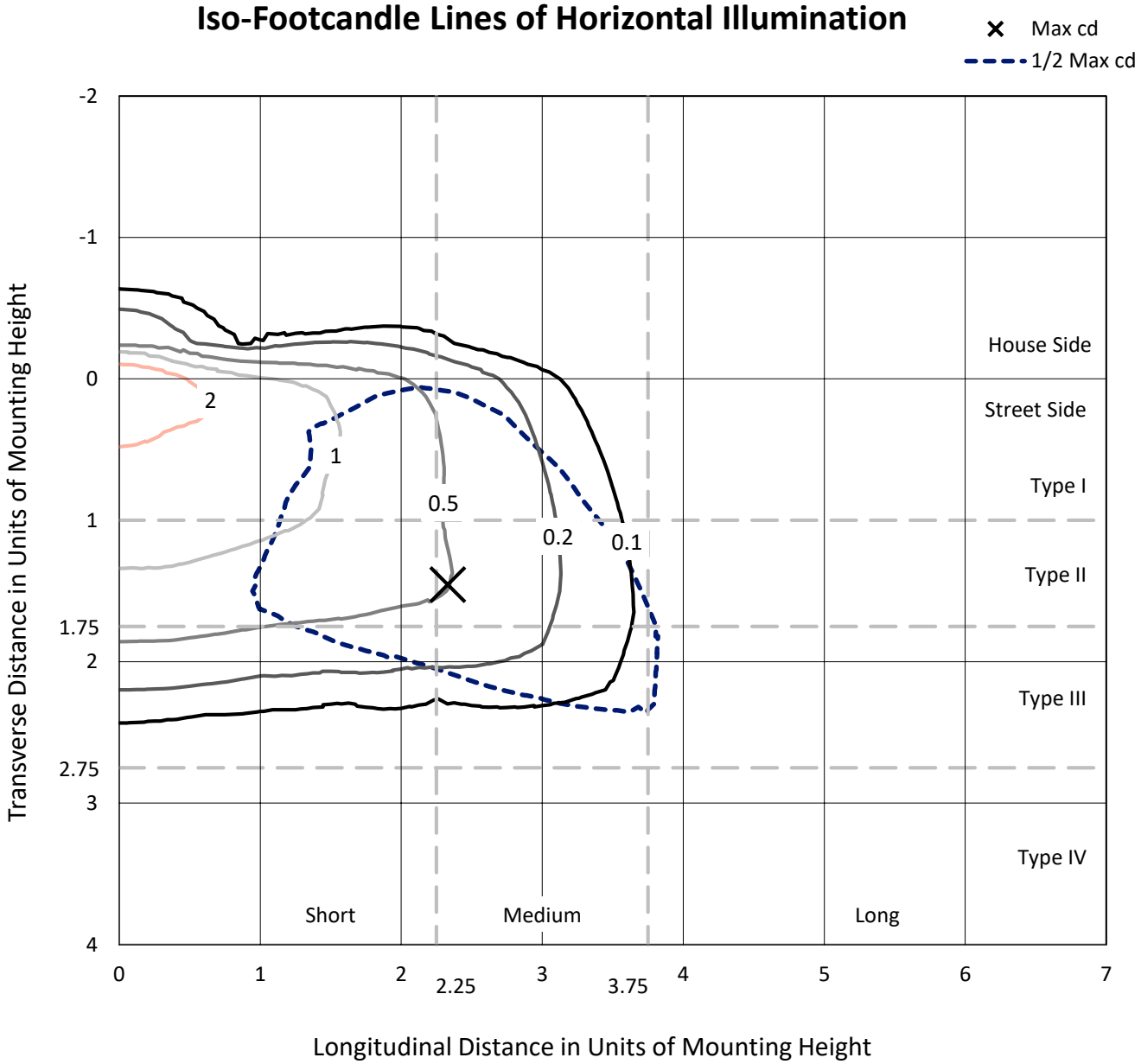
Scaled Data Report

REPORT NUMBER: P323676
CATALOG NUMBER: GLEON-SA2B-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type III - Medium - N/A

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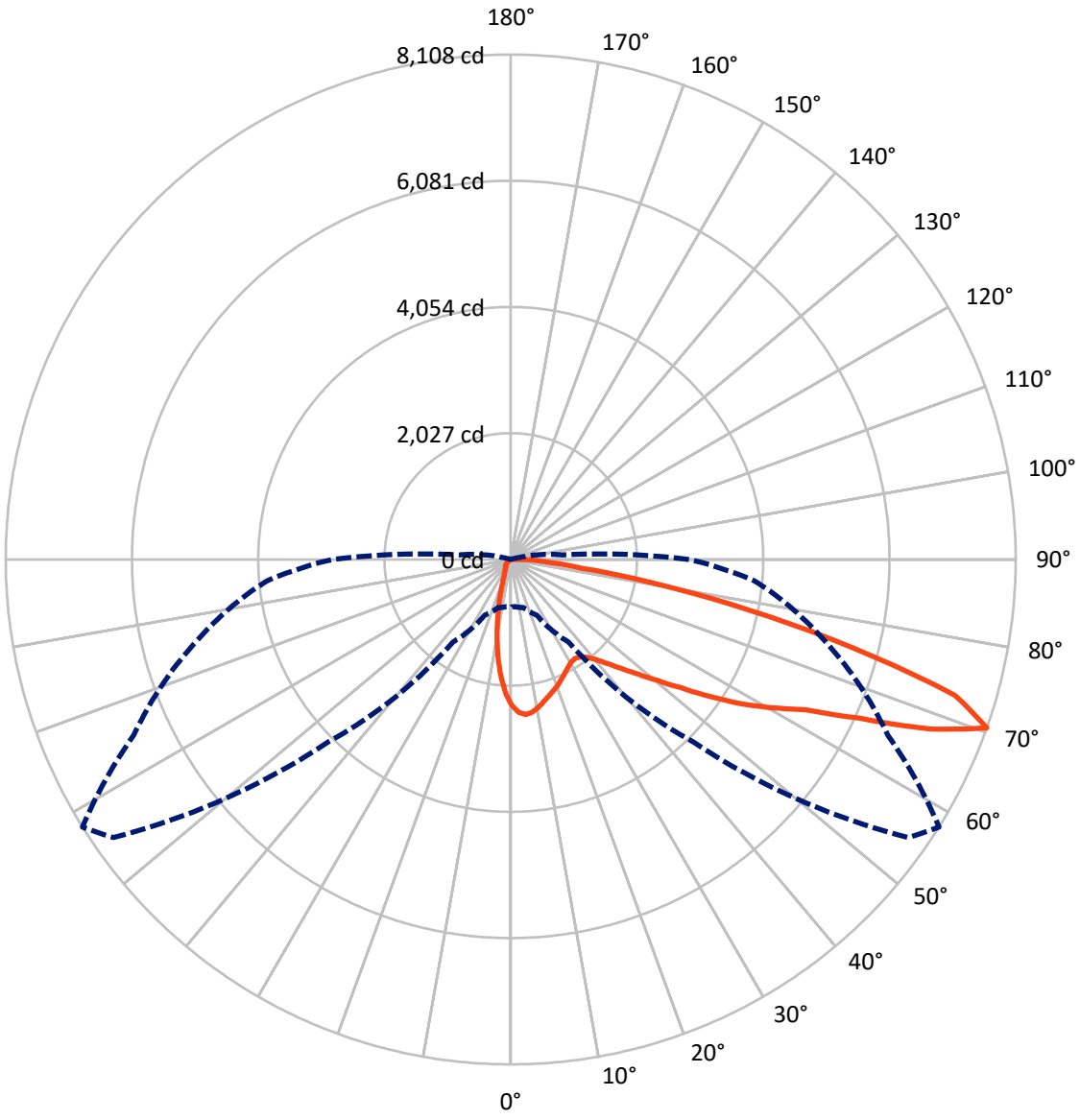
Luminous Intensity Polar Plot



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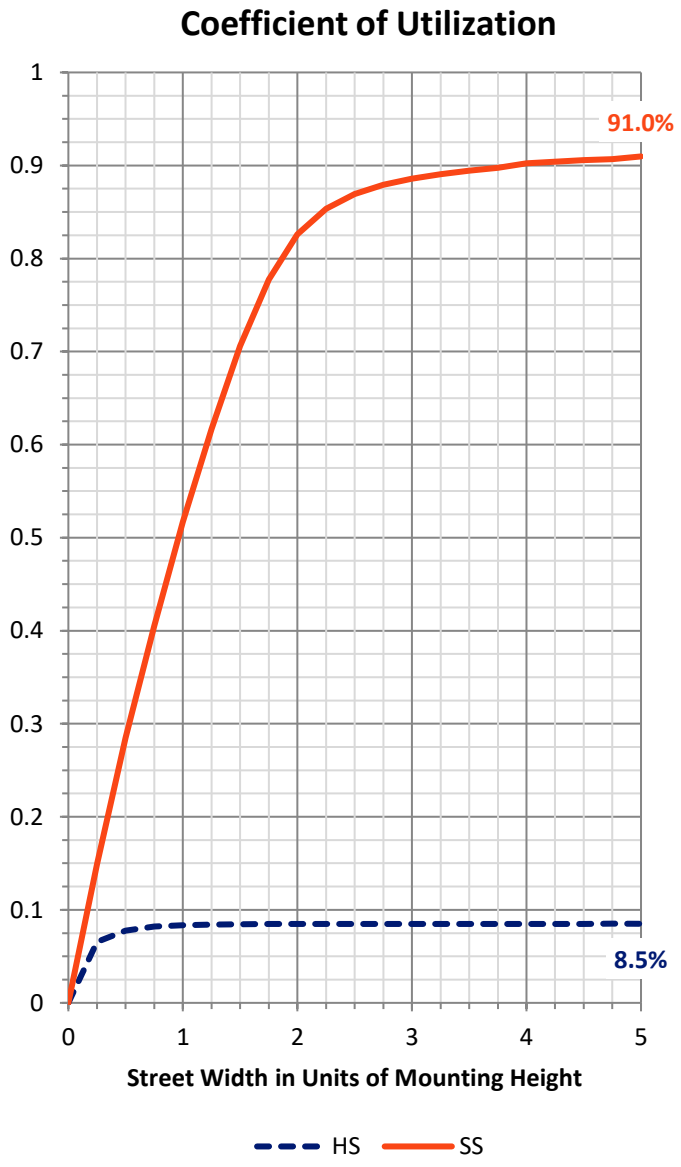
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	679.3	0.0	679.3
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	7258.7	0.0	7258.7
	% Fixture	91.4	0.0	91.4
Total	Lumens	7938.0	0.0	7938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	2.4
10°-20°	402.4	5.1
20°-30°	529.1	6.7
30°-40°	700.7	8.8
40°-50°	1047.3	13.2
50°-60°	1677.7	21.1
60°-70°	2114.8	26.6
70°-80°	1140.7	14.4
80°-90°	133.5	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°	7938.0	100.0
0°-180°	7938.0	100.0



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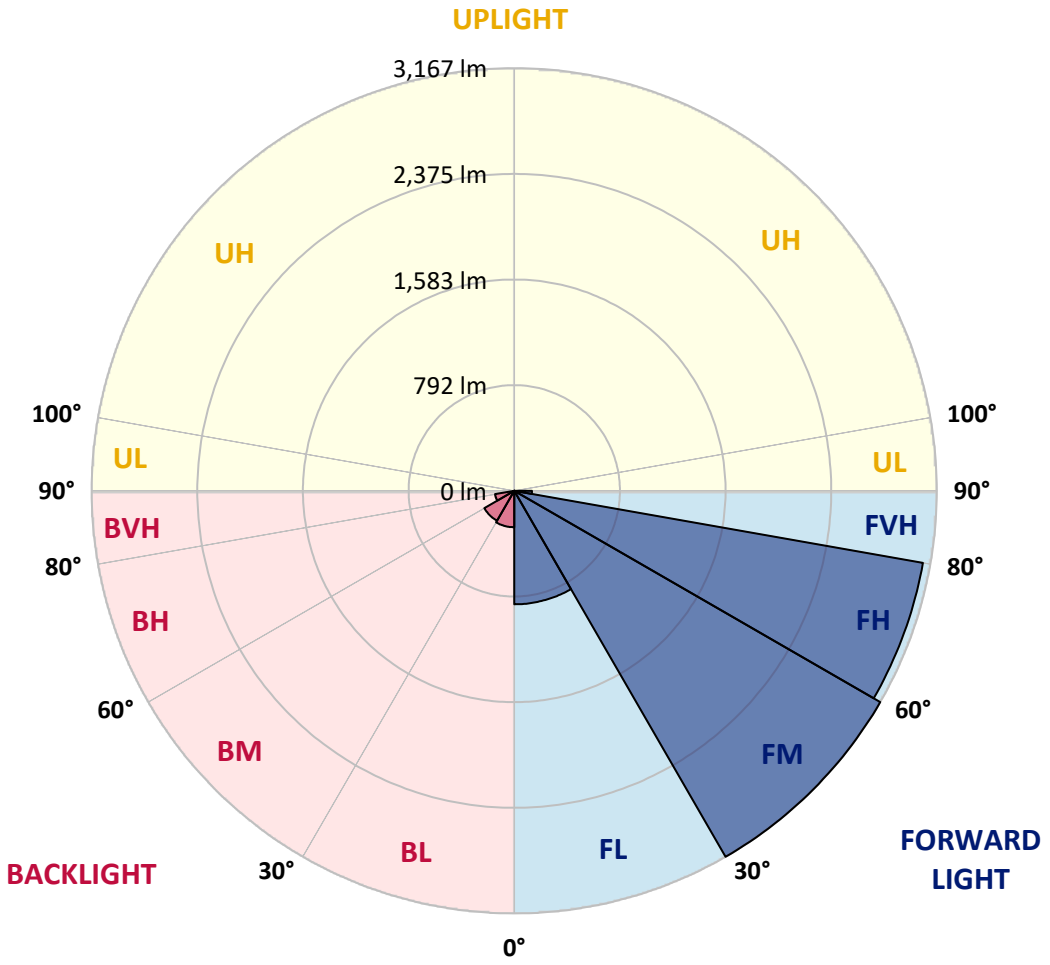
REPORT NUMBER: P323676
CATALOG NUMBER: GLEON-SA2B-830-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	850.3	10.7			
FM	(30°-60°)	3166.6	39.9			
FH	(60°-80°)	3109.4	39.2			G2/5000
FVH	(80°-90°)	132.4	1.7			G2/225
BL	(0°-30°)	272.9	3.4	B1/500		
BM	(30°-60°)	259.2	3.3	B1/1000		
BH	(60°-80°)	146.1	1.8	B1/500		G1/500
BVH	(80°-90°)	1.2	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-G2
Type III Medium



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Scaled Data Report

REPORT NUMBER: P323676
CATALOG NUMBER: GLEON-SA2B-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	*2344.8*	2344.8	2344.8	2344.8
2.5°	2539.3	2533.0	2530.7	2526.7	2511.5	2496.7	2467.3	*2459.1*	2440.6	2396.7	2350.1
5°	2541.2	2540.9	2547.8	2546.2	2540.9	2534.0	2512.9	*2502.0*	2470.6	2407.9	2322.7
7.5°	2418.8	2425.1	2440.6	2453.1	2467.6	2486.4	2489.1	*2478.5*	2452.8	2385.1	2272.2
10°	2254.4	2264.3	2286.1	2310.8	2348.8	2386.4	2420.1	*2418.8*	2409.9	2343.2	2211.5
12.5°	2089.7	2101.3	2126.3	2163.0	2216.8	2278.2	2338.2	*2346.5*	2361.4	2305.6	2155.4
15°	1945.5	1955.4	1980.1	2025.0	2091.7	2174.2	2262.3	*2277.5*	2315.8	2276.2	2108.5
17.5°	1823.0	1829.3	1847.4	1897.3	1974.5	2074.5	2189.1	*2218.8*	2275.9	2253.1	2067.9
20°	1737.5	1738.5	1750.4	1785.4	1862.6	1974.5	2113.1	*2155.7*	2233.6	2233.3	2026.0
22.5°	1695.3	1692.0	1694.3	1714.4	1771.2	1879.1	2037.2	*2087.7*	2195.7	2216.4	1983.4
25°	1687.3	1684.7	1678.1	1680.7	1715.1	1795.6	1960.6	*2019.1*	2162.3	2206.2	1946.4
27.5°	1712.1	1714.7	1703.5	1691.6	1694.3	1741.5	1892.6	*1960.3*	2135.3	2206.2	1920.4
30°	1761.9	1763.3	1755.0	1739.5	1718.7	1726.3	1845.4	*1913.1*	2121.7	2221.4	1903.9
32.5°	1817.1	1824.3	1823.3	1810.8	1781.1	1750.4	1834.2	*1895.9*	2120.7	2255.1	1902.2
35°	1885.4	1893.6	1907.5	1904.9	1873.8	1823.3	1872.5	*1921.0*	2140.2	2310.5	1920.0
37.5°	1958.0	1970.5	2000.3	2014.4	1994.3	1937.2	1958.3	*1993.0*	2192.4	2400.3	1965.3
40°	2028.3	2042.5	2096.6	2152.4	2137.2	2078.5	2088.4	*2116.1*	2285.1	2529.4	2051.1
42.5°	2097.3	2118.4	2198.0	2289.7	2307.9	2261.0	2266.3	*2288.4*	2422.7	2706.9	2191.4
45°	2179.8	2203.6	2321.4	2434.6	2483.1	2462.7	2485.1	*2499.7*	2602.6	2941.6	2380.5
47.5°	2300.9	2328.3	2472.9	2602.0	2687.1	2700.3	2745.6	*2755.1*	2830.1	3214.9	2627.1
50°	2537.3	2544.9	2675.6	2792.8	2915.5	2994.8	3046.3	*3053.5*	3105.3	3513.6	2935.0
52.5°	2834.7	2839.6	2913.6	2992.1	3131.7	3293.5	3414.0	*3424.2*	3435.1	3804.8	3239.0
55°	3130.1	3129.4	3178.3	3224.5	3384.3	3619.3	3880.7	*3887.0*	3808.7	4081.0	3471.4
57.5°	3314.6	3332.4	3406.7	3466.1	3689.2	3990.6	4353.3	*4376.5*	4201.2	4285.7	3701.1
60°	3255.9	3264.4	3429.1	3649.0	4069.2	4518.4	4831.6	*4837.6*	4496.3	4490.0	3991.6
62.5°	2773.9	2778.6	3037.3	3490.5	4261.6	5203.0	5408.6	*5311.9*	4835.6	4773.5	4339.2
65°	1901.2	1931.3	2147.5	2707.6	3908.1	5632.4	6301.8	*6141.7*	5352.8	5182.2	4653.4
67.5°	1119.6	1113.3	1220.3	1632.9	2870.3	5347.2	7431.6	*7272.5*	6058.2	5455.8	4561.3
70°	*764.8*	*760.5*	*801.4*	*988.6*	*1620.3*	*4148.0*	*7787.1*	*8108.3*	*6681.0*	*5271.6*	*3925.6*
72.5°	545.9	548.3	608.7	768.1	1017.3	2416.8	6696.5	*7456.7*	6486.0	4595.6	2983.9
75°	370.7	376.9	463.4	630.1	891.9	1229.5	4752.1	*5668.4*	5281.5	3340.0	1715.1
77.5°	199.4	206.3	308.3	507.7	806.4	854.2	3056.8	*3901.1*	3317.6	1501.5	497.1
80°	83.2	87.1	144.2	369.0	696.8	750.3	1798.6	*2365.6*	1413.7	296.1	110.9
82.5°	36.0	38.0	60.1	220.2	520.9	633.4	952.3	*1138.1*	428.4	65.0	55.8
85°	6.9	7.3	24.8	116.5	332.4	357.5	617.2	*605.0*	192.4	28.1	40.6
87.5°	0.0	0.0	5.9	36.6	97.7	194.7	376.6	*372.0*	65.4	13.5	15.2
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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REPORT NUMBER: P323676
CATALOG NUMBER: GLEON-SA2B-830-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8
2.5°	2326.4	2303.6	2255.7	2196.6	2151.4	2101.6	2062.0	2011.8	1990.0	1991.0	1979.1
5°	2274.2	2227.3	2121.4	1987.7	1884.7	1778.4	1687.0	1595.9	1542.1	1524.6	1508.1
7.5°	2199.6	2125.3	1956.4	1750.4	1576.1	1405.8	1257.6	1127.2	1044.7	1004.4	989.6
10°	2115.4	2011.1	1766.6	1495.2	1246.4	1016.0	823.9	656.8	590.2	545.0	533.4
12.5°	2041.5	1900.2	1581.1	1233.5	938.1	660.1	477.0	373.0	327.8	309.9	307.0
15°	1971.9	1796.6	1402.5	996.5	649.6	406.3	303.3	268.0	257.5	254.5	254.5
17.5°	1906.2	1697.9	1227.9	763.1	429.8	284.9	251.2	243.3	240.0	239.6	240.0
20°	1837.5	1599.2	1056.2	559.1	300.0	241.3	232.0	227.8	226.8	226.8	226.8
22.5°	1771.8	1500.5	889.2	399.4	240.6	220.2	215.5	212.6	211.6	211.2	210.6
25°	1708.8	1406.8	726.2	282.2	211.2	201.7	197.7	193.8	190.8	189.1	188.1
27.5°	1657.0	1323.3	574.3	226.4	190.8	182.5	177.6	171.6	164.4	161.1	159.8
30°	1615.7	1247.0	442.6	191.1	171.6	163.4	155.8	145.6	135.0	129.4	129.1
32.5°	1583.4	1172.1	336.0	169.0	154.5	144.2	133.4	120.5	108.3	102.0	101.7
35°	1567.5	1106.1	256.8	152.8	139.3	126.4	112.9	98.7	86.8	80.9	80.2
37.5°	1578.1	1050.3	200.4	139.3	126.4	111.6	95.7	80.9	70.3	65.0	64.7
40°	1616.7	1014.6	162.7	127.7	115.5	97.4	80.2	66.3	57.4	53.1	52.8
42.5°	1698.9	1001.4	139.0	118.2	105.0	84.2	66.7	54.8	46.5	43.6	42.9
45°	1836.2	1020.9	122.8	108.9	94.1	71.6	55.1	44.9	37.6	35.3	35.0
47.5°	2019.1	1072.1	111.2	100.0	84.2	60.4	45.9	36.3	30.7	28.4	28.1
50°	2254.7	1153.3	101.7	91.1	74.9	51.2	38.0	28.7	23.8	22.1	22.1
52.5°	2511.2	1250.0	93.1	82.8	65.7	42.6	30.7	22.1	18.8	16.8	16.8
55°	2723.1	1334.5	83.8	76.6	54.5	35.3	23.4	16.8	13.9	12.9	12.9
57.5°	2934.7	1424.6	73.3	65.7	43.6	28.7	17.8	12.5	10.2	9.6	9.6
60°	3209.0	1534.8	63.0	53.5	34.3	21.8	13.2	8.9	7.6	7.3	7.3
62.5°	3510.7	1599.5	53.8	42.9	26.7	16.2	9.6	5.9	5.6	5.6	5.3
65°	3695.2	1508.1	45.2	34.3	20.8	12.2	6.3	4.3	5.0	4.6	4.0
67.5°	3459.8	1180.7	37.0	26.7	16.2	9.2	4.0	3.0	5.3	4.3	3.3
70°	*2864.7*	*826.5*	*28.7*	*18.8*	*12.9*	*7.9*	*2.6*	*2.0*	*5.6*	*4.3*	*2.6*
72.5°	2143.8	553.2	22.8	12.5	9.6	6.9	2.3	1.0	5.0	3.6	2.3
75°	1171.4	222.8	18.2	7.9	5.9	5.0	1.7	0.7	3.3	2.6	1.7
77.5°	308.3	58.8	13.2	5.3	3.3	2.0	1.0	0.3	1.7	1.3	0.7
80°	78.6	22.8	8.6	3.6	2.3	1.0	0.0	0.0	0.3	0.0	0.0
82.5°	41.9	9.6	5.3	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.7	6.3	3.0	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	2.0	1.0	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

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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

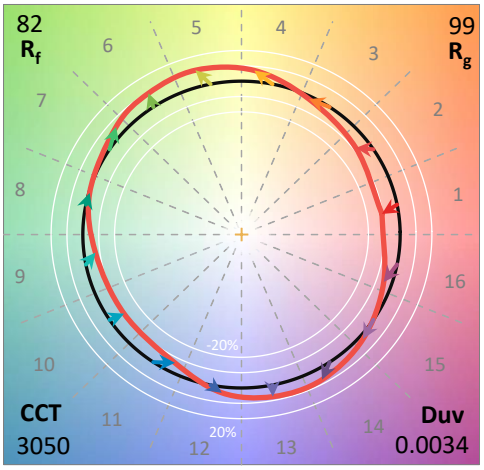
Test Information

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

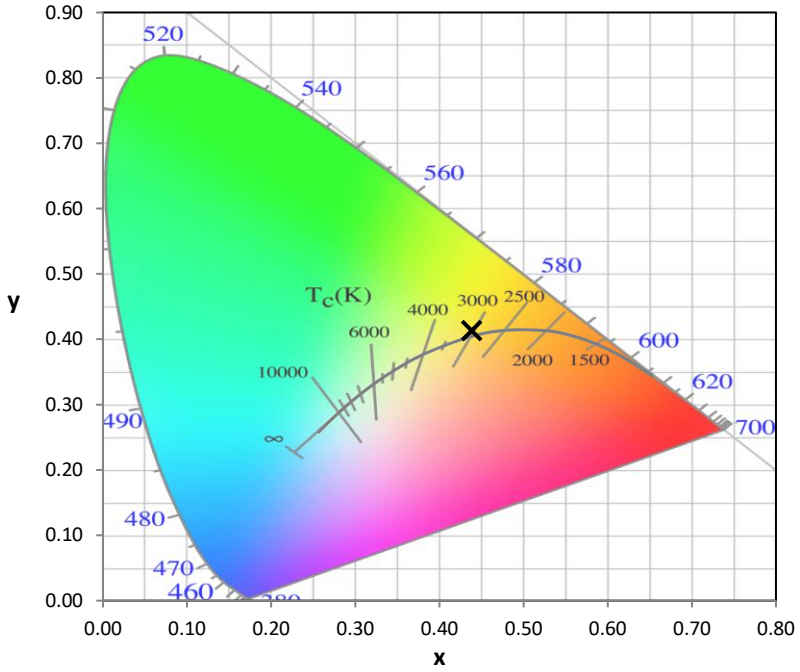
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

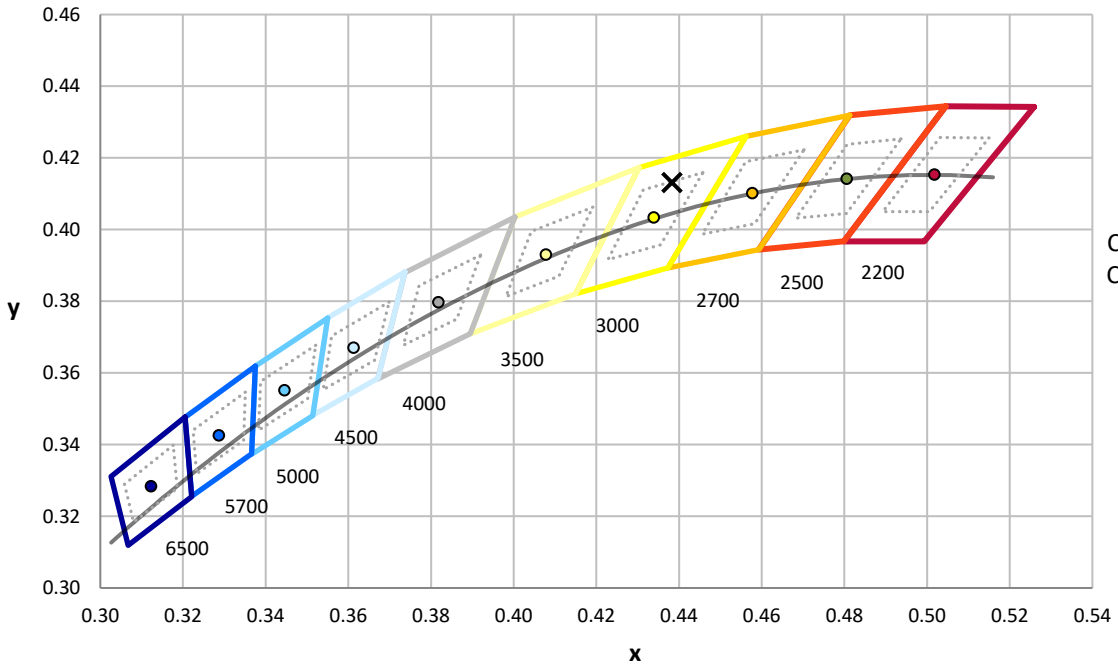
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

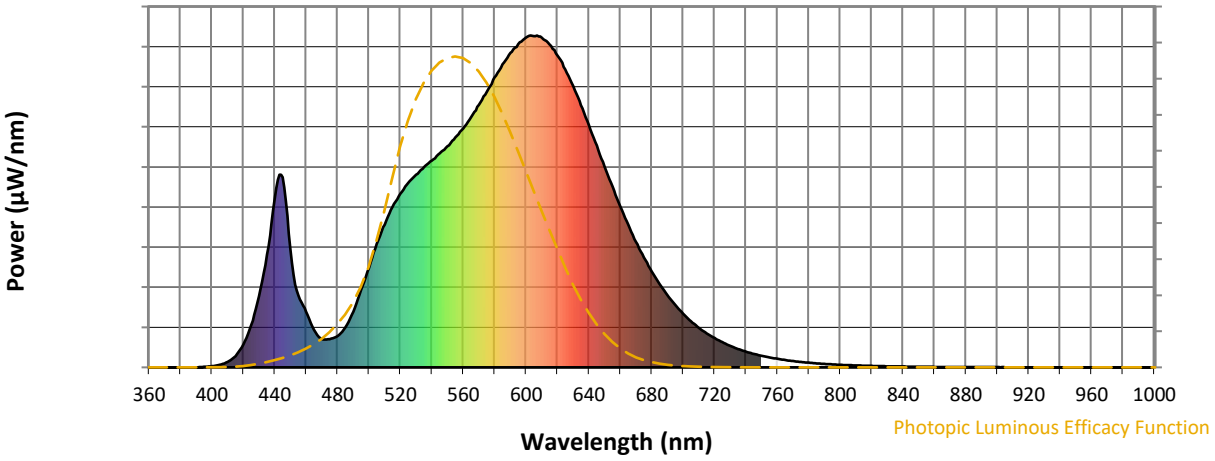


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

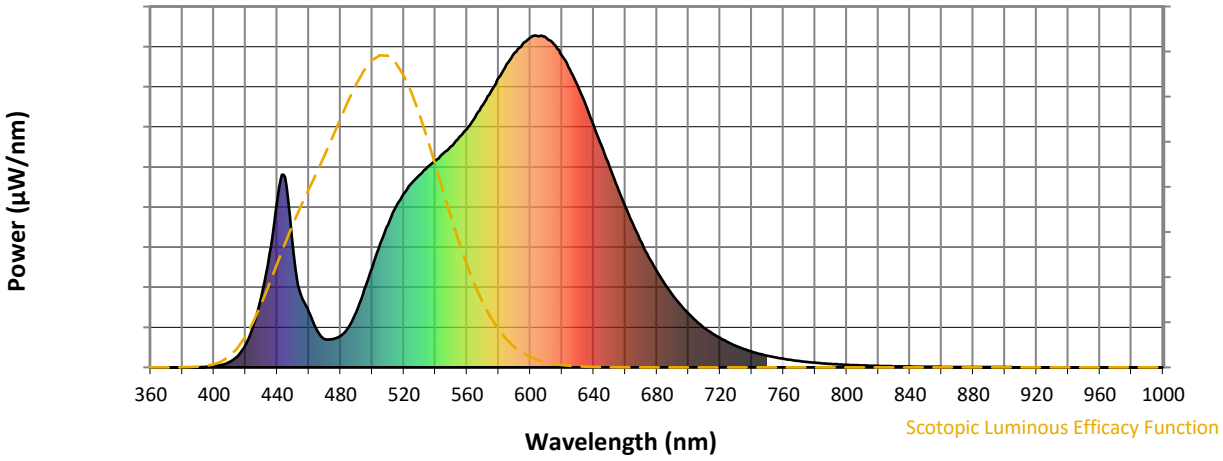


Photopic Lumens: NR

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

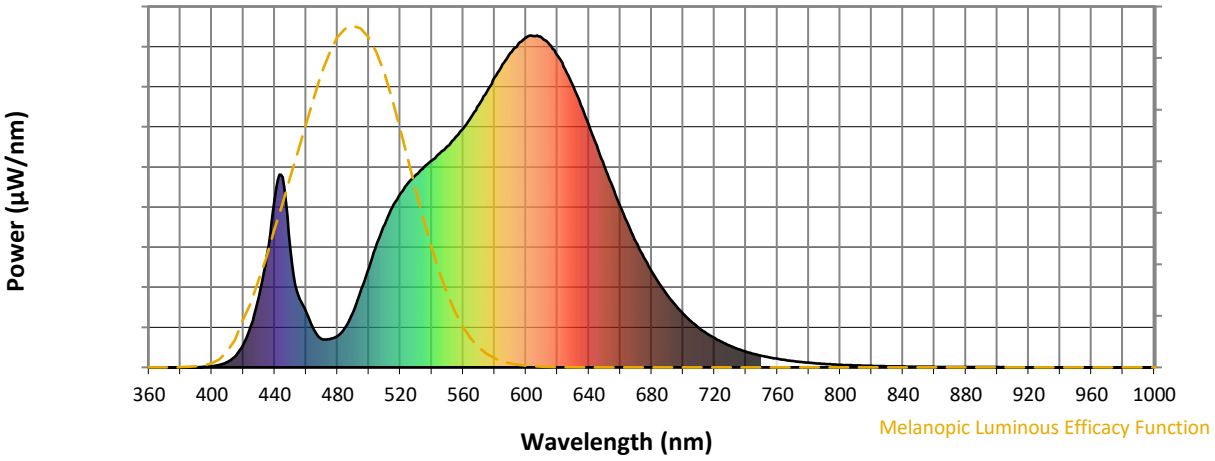


Scotopic Lumens: NR **S/P: 1.27**

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			

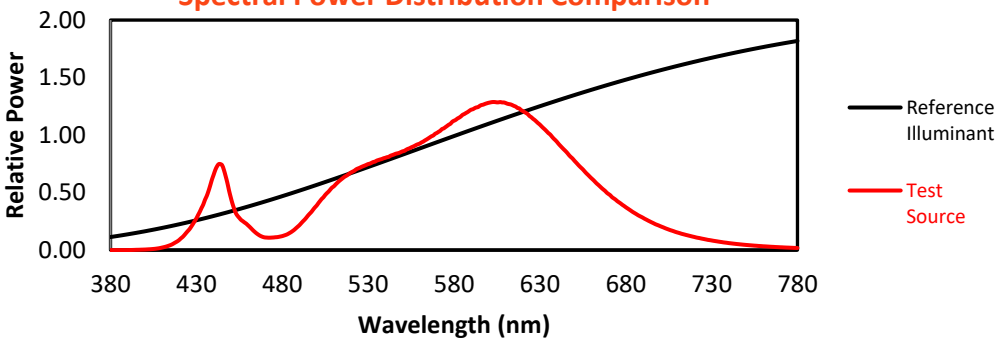
REPORT NUMBER: SP1-2408-195-9

TM-30-18

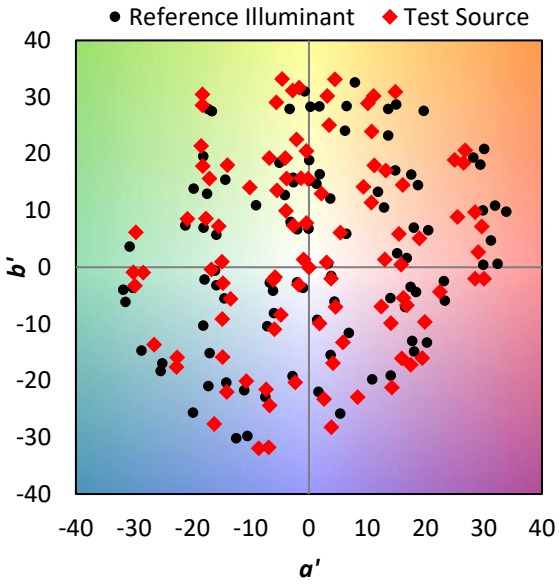
Summary

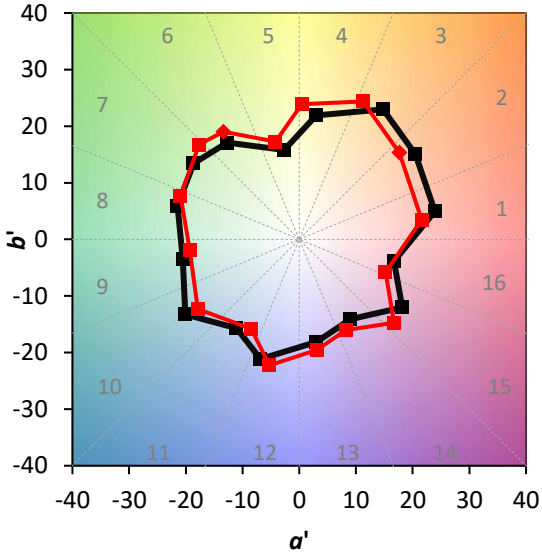
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

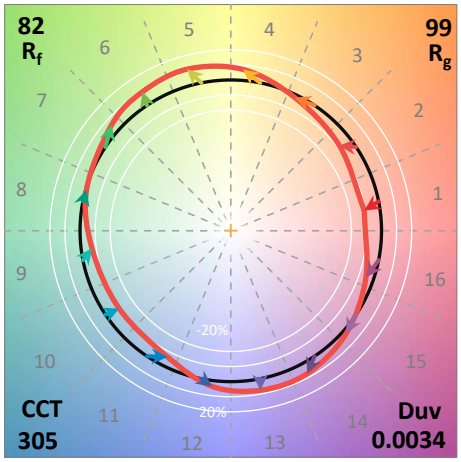
Spectral Power Distribution Comparison

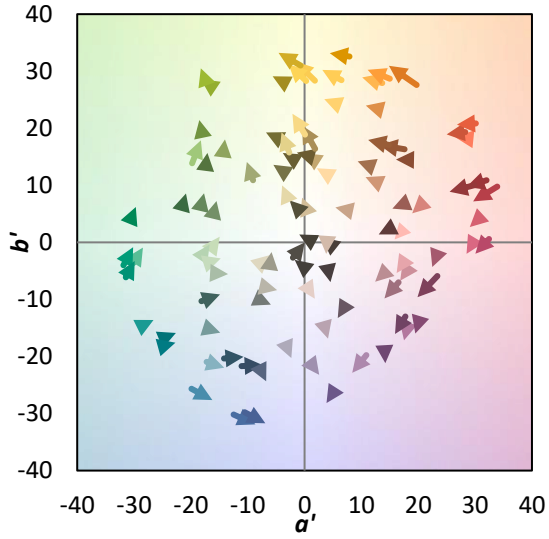


Color Vector Graphics







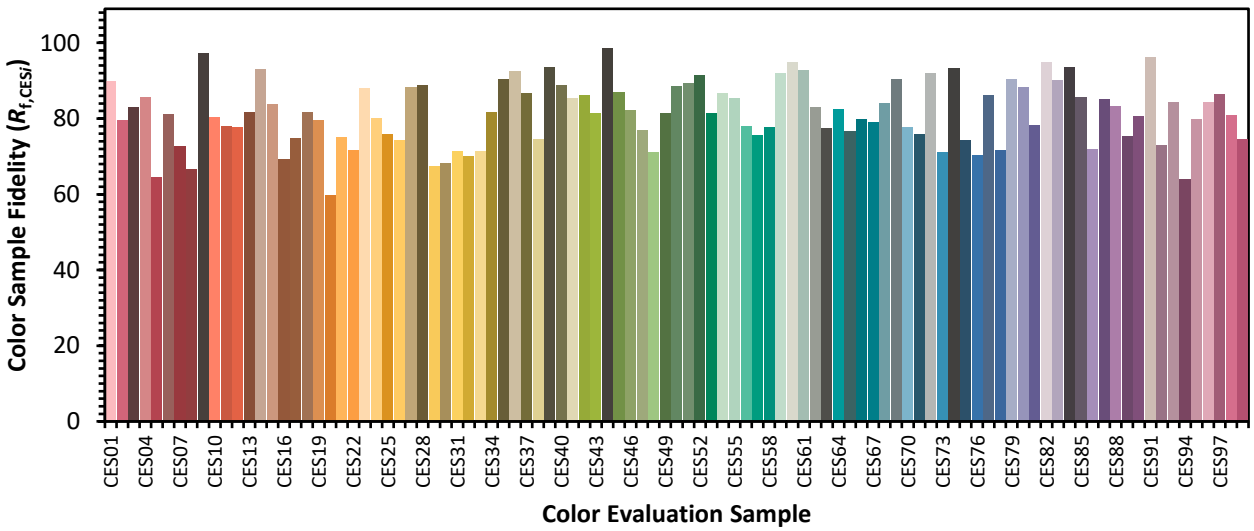


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

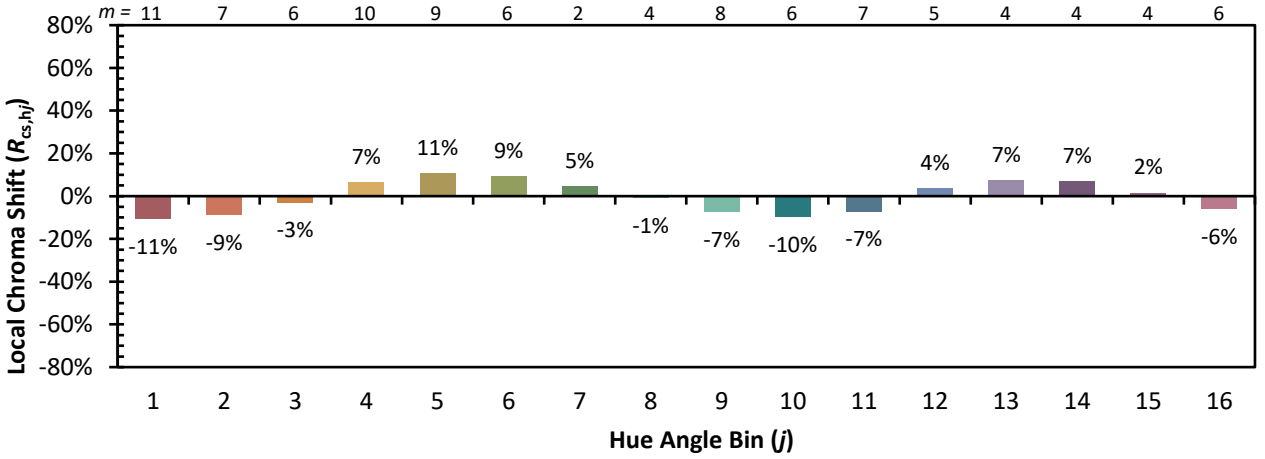
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

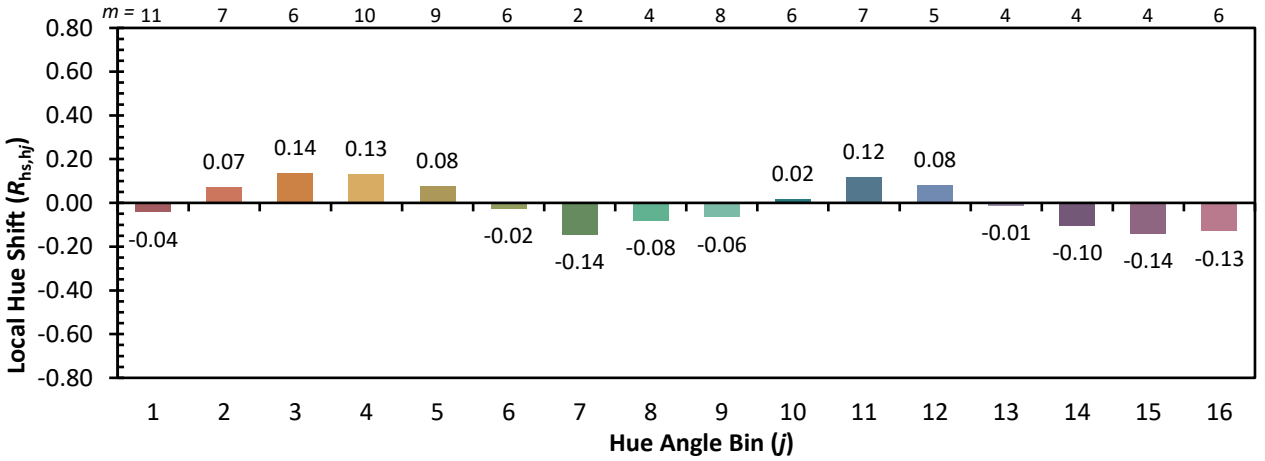


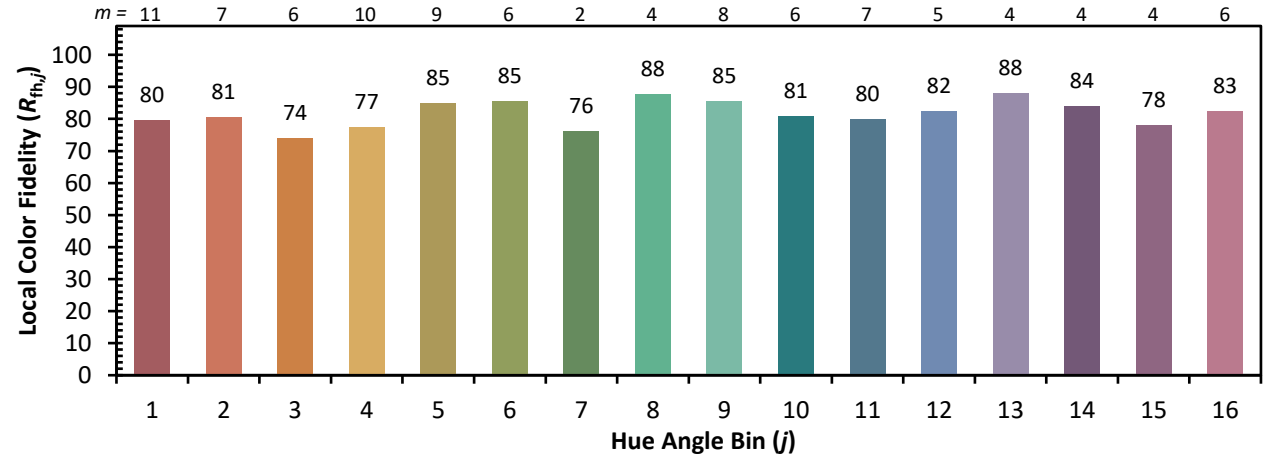
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



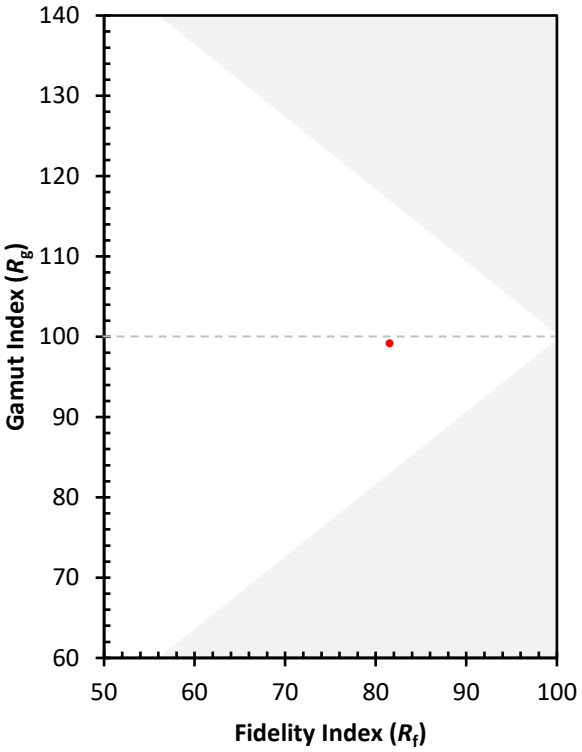


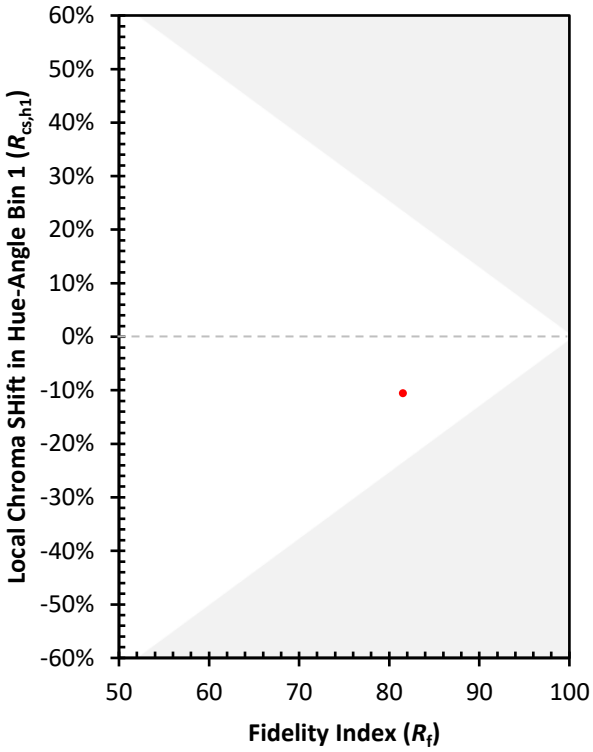


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)