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: P319189

Luminaire Tested: **GLEON-SA5A-830-U-T4W**

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:	P319189
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
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-T4W
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	18380 lumens
Efficiency:	N/A
Efficacy:	113.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - 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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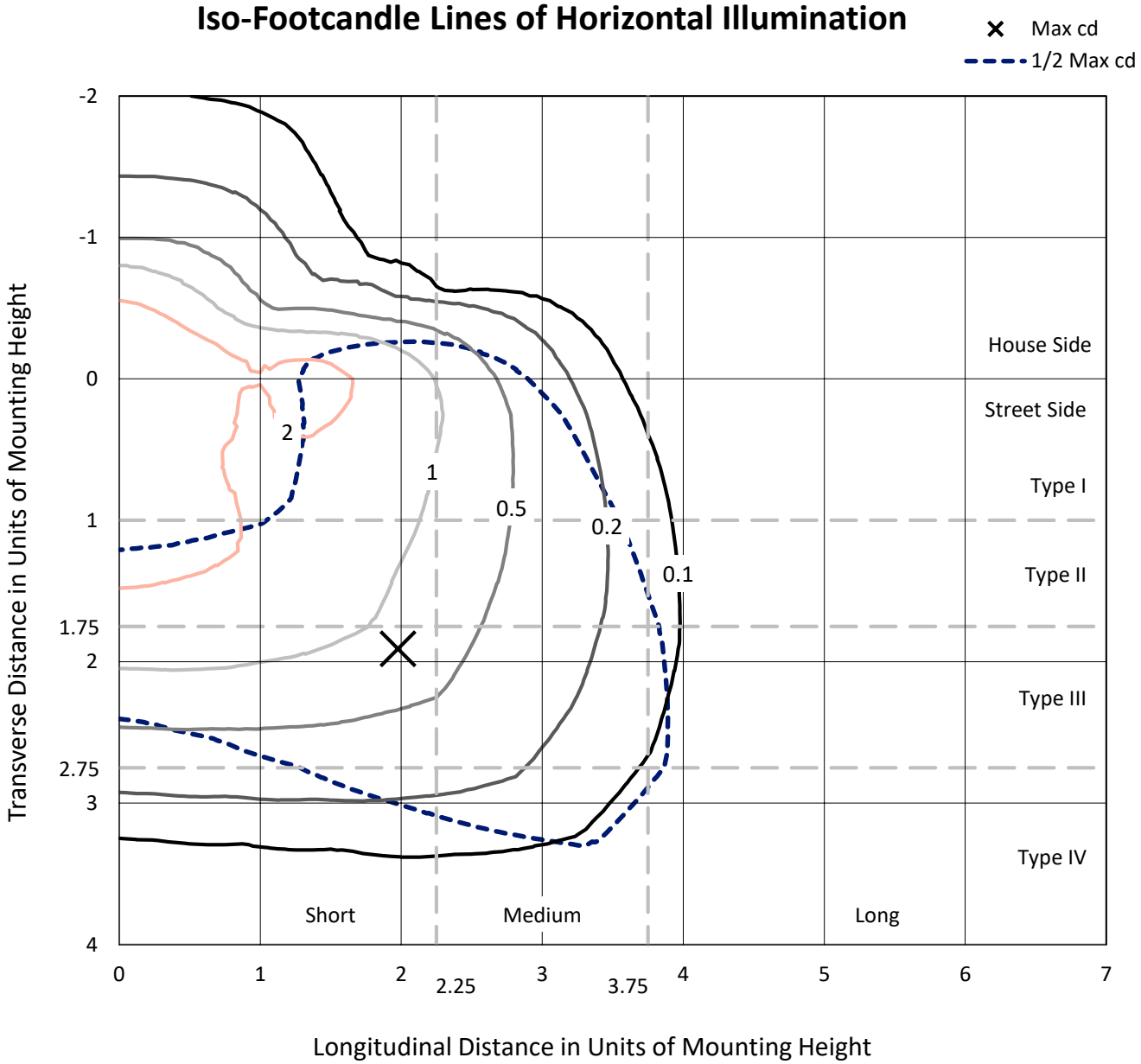
REPORT NUMBER: P319189
CATALOG NUMBER: GLEON-SA5A-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination



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

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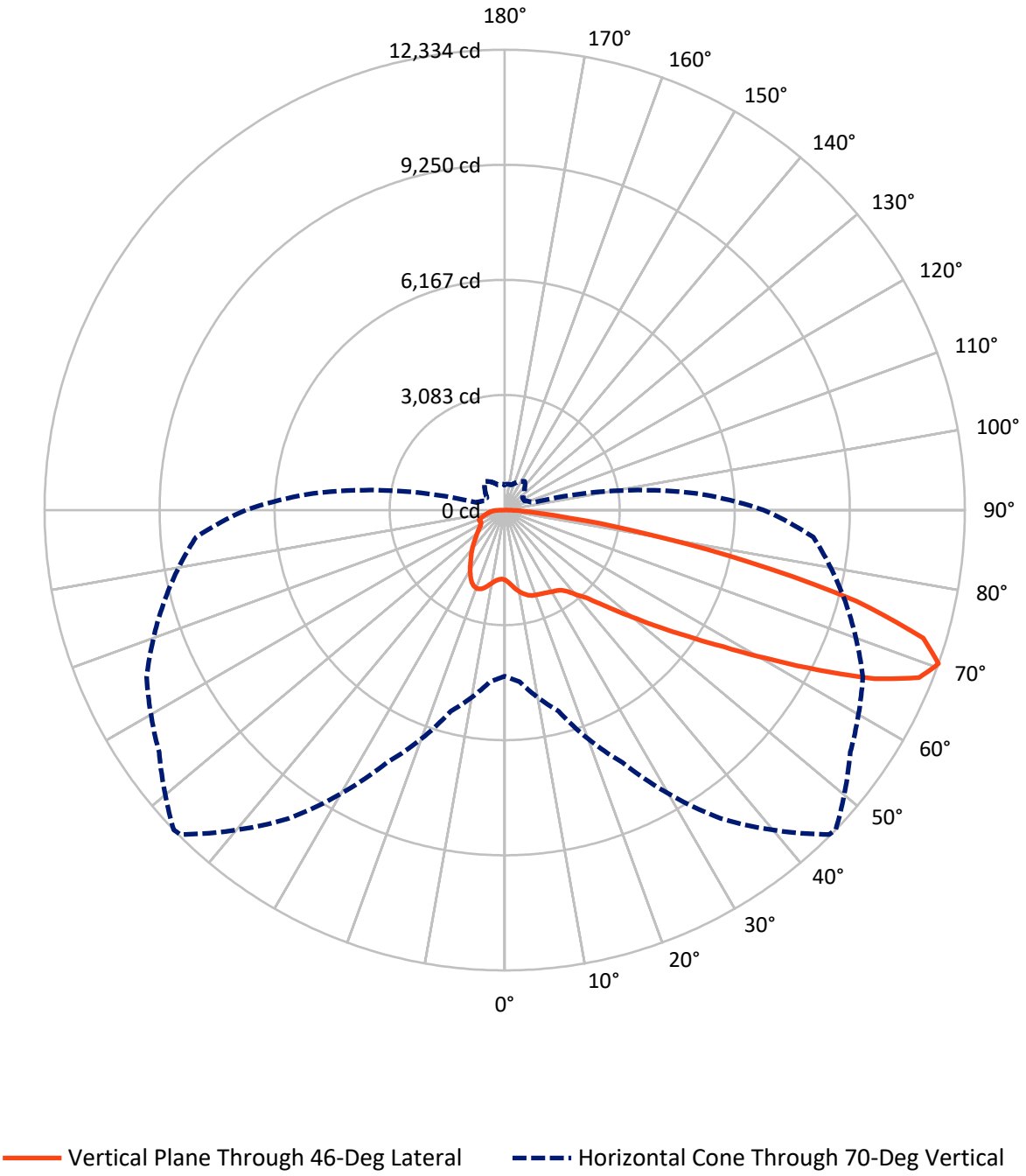
Luminous Intensity Polar Plot



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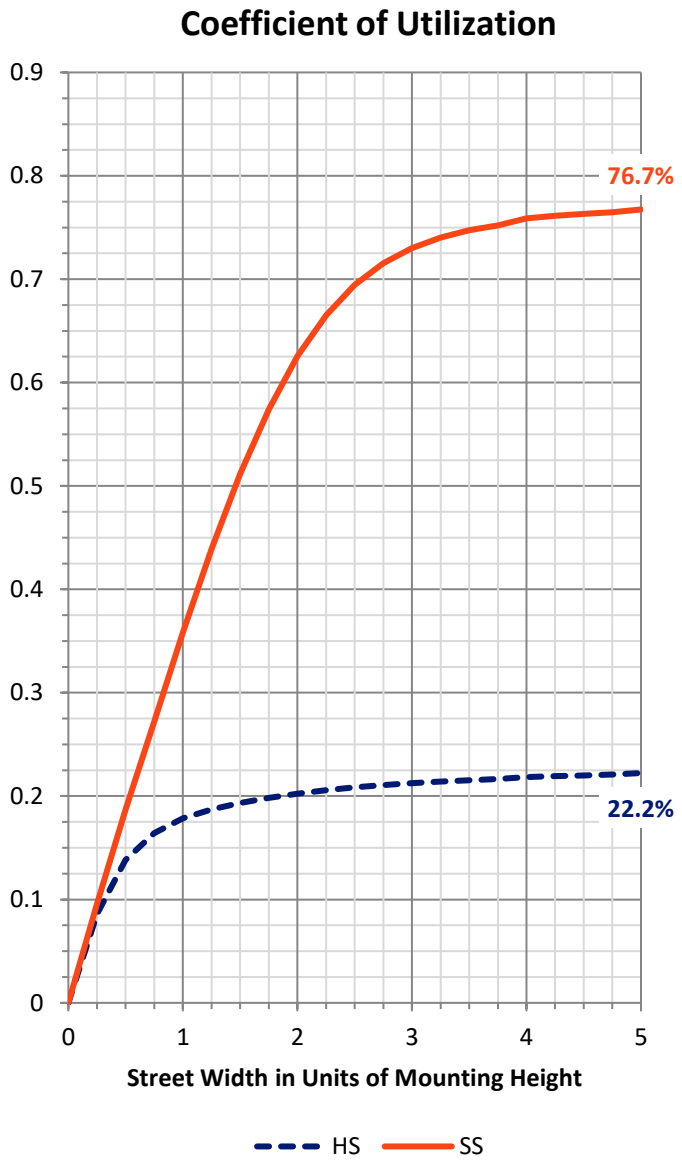
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4212.6	0.0	4212.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	14167.4	0.0	14167.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	18380.0	0.0	18380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.9	1.0
10°-20°	636.0	3.5
20°-30°	1060.5	5.8
30°-40°	1504.9	8.2
40°-50°	2213.6	12.0
50°-60°	3748.7	20.4
60°-70°	5321.2	29.0
70°-80°	3232.6	17.6
80°-90°	471.8	2.6
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°	18380.0	100.0
0°-180°	18380.0	100.0



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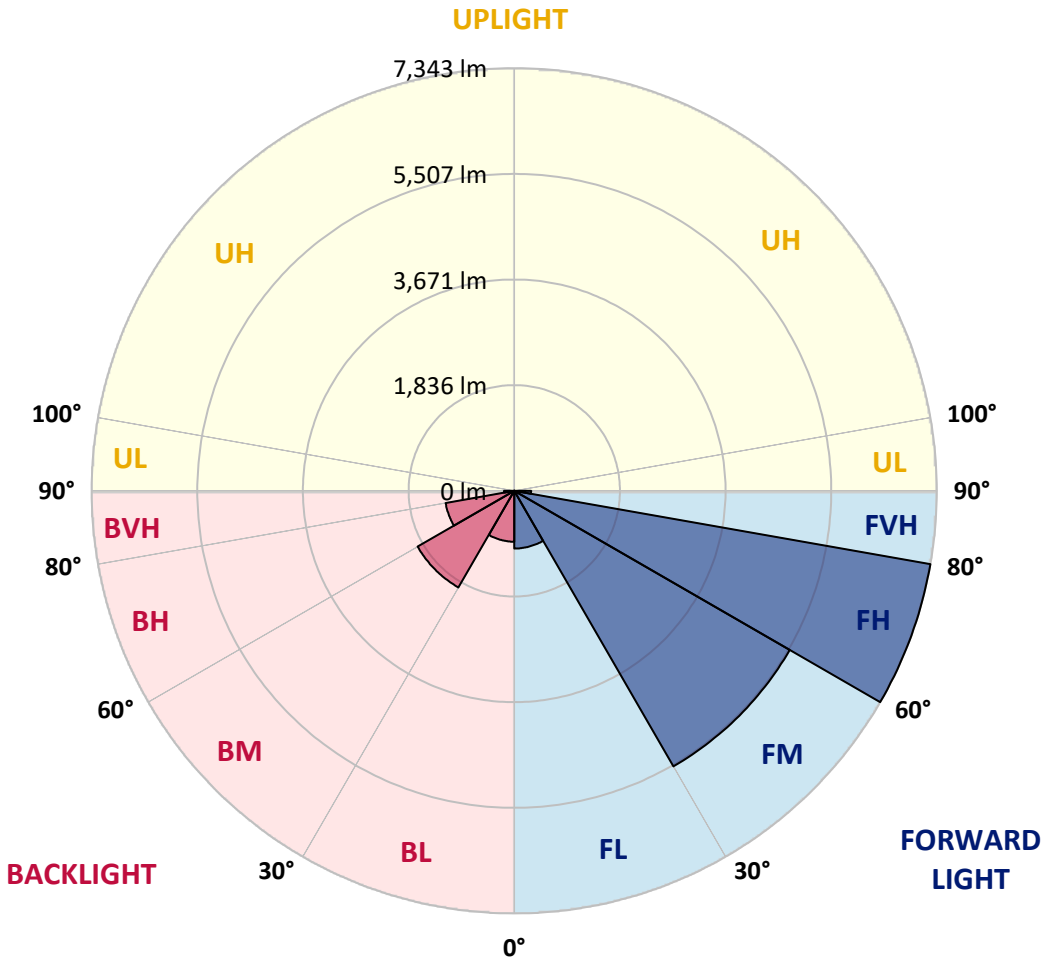
REPORT NUMBER: P319189
CATALOG NUMBER: GLEON-SA5A-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1002.9	5.5			
FM	(30°-60°)	5527.9	30.1			
FH	(60°-80°)	7342.7	39.9			G3/7500
FVH	(80°-90°)	293.9	1.6			G3/500
BL	(0°-30°)	884.5	4.8	B2/1000		
BM	(30°-60°)	1939.2	10.6	B2/2500		
BH	(60°-80°)	1211.1	6.6	B3/2500		G3/2500
BVH	(80°-90°)	177.9	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type IV Short



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Scaled Data Report

REPORT NUMBER: P319189
CATALOG NUMBER: GLEON-SA5A-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	*1872.6*	1872.6	1872.6	1872.6	1872.6
2.5°	1966.3	1967.5	1970.1	1963.8	1946.2	1941.1	*1939.2*	1921.0	1909.0	1891.4	1876.3
5°	2123.5	2124.8	2121.0	2103.4	2064.4	2035.5	*2033.0*	1991.4	1953.7	1913.4	1883.3
7.5°	2287.7	2289.6	2277.6	2244.3	2189.6	2139.3	*2136.1*	2079.5	2022.3	1961.3	1916.0
10°	2433.0	2425.5	2406.0	2359.4	2294.6	2233.0	*2230.5*	2171.3	2105.3	2031.7	1971.3
12.5°	2529.9	2523.6	2498.4	2441.8	2370.7	2314.1	*2309.1*	2254.4	2190.2	2109.7	2037.4
15°	2583.3	2587.7	2553.8	2489.6	2420.4	2372.6	*2368.2*	2329.2	2272.0	2190.8	2107.8
17.5°	2590.3	2594.0	2561.3	2497.8	2441.2	2408.5	*2406.6*	2380.8	2339.3	2261.3	2174.5
20°	2550.0	2552.5	2525.5	2473.3	2436.2	2426.1	*2425.5*	2414.1	2383.3	2314.1	2229.8
22.5°	2491.5	2493.4	2473.9	2436.2	2423.6	2439.3	*2443.7*	2439.3	2417.3	2352.5	2273.2
25°	2477.0	2475.8	2455.7	2417.3	2428.0	2461.3	*2467.0*	2468.9	2453.8	2397.2	2328.6
27.5°	2546.9	2542.5	2504.1	2442.4	2449.4	2489.6	*2497.2*	2515.4	2506.0	2456.3	2391.5
30°	2748.8	2741.2	2662.6	2538.1	2504.1	2524.8	*2534.3*	2563.2	2565.1	2523.6	2475.2
32.5°	3089.7	3080.3	2939.4	2716.7	2596.6	2560.7	*2569.5*	2612.9	2636.2	2604.1	2551.9
35°	3520.6	3509.9	3324.9	3020.5	2751.3	2629.3	*2635.6*	2670.1	2716.7	2671.4	2602.2
37.5°	3969.7	3943.9	3765.9	3377.8	2997.2	2775.8	*2775.8*	2780.2	2802.2	2707.9	2661.3
40°	4416.3	4390.5	4229.5	3798.0	3315.5	3006.7	*2992.2*	2894.7	2877.1	2795.9	2780.2
42.5°	4831.4	4823.9	4728.9	4272.9	3689.1	3233.7	*3213.6*	3048.2	3052.0	3001.6	3002.3
45°	5273.0	5273.0	5195.6	4752.2	4124.4	3598.6	*3578.4*	3335.0	3372.8	3349.5	3405.5
47.5°	5633.4	5644.7	5634.0	5251.6	4630.8	4062.1	*4025.7*	3732.5	3838.2	3918.1	4081.0
50°	6001.4	6019.0	6020.9	5799.5	5242.8	4613.2	*4571.6*	4260.3	4496.2	4725.1	5045.3
52.5°	6535.4	6575.0	6417.2	6346.1	5992.6	5267.3	*5226.4*	4939.0	5332.7	5654.2	6205.8
55°	7030.4	6995.8	6883.3	6927.3	6795.2	6012.1	*5981.3*	5729.0	6264.9	6682.6	7399.0
57.5°	7298.4	7295.9	7409.1	7597.8	7660.7	6930.4	*6904.6*	6659.3	7316.0	7629.9	8519.3
60°	7612.9	7617.3	7897.8	8326.2	8585.4	8074.0	*8062.6*	7876.5	8336.9	8514.3	9398.0
62.5°	7656.9	7736.2	8219.3	8956.5	9450.9	9410.0	*9435.1*	8972.8	9250.2	9220.0	10054.1
65°	7150.6	7255.0	8129.3	9147.1	10311.4	10871.2	*10894.5*	10075.5	9970.4	9823.2	10288.7
67.5°	6112.7	6267.5	7217.3	8732.5	10595.0	11951.2	*11983.9*	10930.3	10568.0	10027.7	9723.9
70°	*4448.4*	*4620.1*	*5576.2*	*7458.2*	*10089.3*	*12296.5*	*12333.6*	*11308.3*	*10590.6*	*9445.8*	*8301.0*
72.5°	2687.1	2821.7	3609.9	5490.6	8515.5	11667.5	*11733.5*	10829.0	9669.1	8001.0	6129.7
75°	1180.0	1268.1	1745.5	3163.9	6096.4	9653.4	*9735.8*	9269.1	7856.3	5814.6	3623.1
77.5°	502.6	527.7	715.8	1374.4	3446.3	6596.4	*6709.6*	6772.5	5330.2	3163.9	1531.0
80°	313.2	323.3	405.1	622.1	1612.8	3704.9	*3826.9*	3984.8	2646.9	1163.0	534.7
82.5°	190.6	201.9	269.2	376.1	839.7	1679.5	*1738.0*	1849.3	1027.2	502.6	276.8
85°	114.5	122.7	164.8	237.8	478.0	660.5	*659.8*	729.7	483.7	323.3	145.9
87.5°	54.7	61.0	88.1	123.3	240.9	247.8	*232.1*	262.9	293.7	212.0	73.6
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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CATALOG NUMBER: GLEON-SA5A-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6
2.5°	1871.3	1868.8	1860.6	1854.3	1853.1	1849.3	1846.1	1848.0	1850.5	1851.2	1851.2
5°	1870.7	1863.8	1853.1	1848.7	1854.3	1861.9	1871.3	1883.9	1891.4	1897.1	1900.9
7.5°	1900.9	1887.7	1875.7	1873.2	1884.5	1904.6	1926.0	1952.4	1970.7	1983.3	1985.8
10°	1951.2	1934.8	1922.9	1925.4	1945.5	1974.5	2004.7	2038.6	2066.3	2083.3	2084.5
12.5°	2009.1	1993.3	1982.0	1992.7	2026.0	2061.3	2092.7	2122.3	2147.4	2164.4	2164.4
15°	2075.7	2064.4	2051.2	2075.7	2121.0	2152.5	2165.7	2180.1	2194.0	2206.6	2204.1
17.5°	2139.9	2129.2	2122.3	2151.2	2198.4	2212.9	2204.1	2193.4	2193.4	2200.3	2201.5
20°	2195.2	2185.8	2190.2	2218.5	2243.0	2228.0	2195.2	2161.3	2147.4	2151.2	2155.0
22.5°	2243.7	2239.3	2252.5	2265.7	2248.1	2195.2	2134.9	2088.9	2072.0	2070.7	2072.0
25°	2300.3	2299.7	2316.0	2292.1	2214.1	2116.6	2035.5	1990.8	1981.4	1988.9	2001.5
27.5°	2370.7	2377.7	2385.8	2298.4	2144.9	1997.7	1915.3	1884.5	1893.9	1912.2	1924.1
30°	2460.7	2479.6	2461.9	2282.7	2045.5	1861.9	1783.2	1774.4	1800.2	1826.0	1838.6
32.5°	2548.1	2577.7	2534.9	2241.8	1917.2	1717.8	1656.8	1654.3	1685.7	1710.9	1728.5
35°	2618.6	2677.1	2589.6	2160.6	1768.8	1585.1	1540.4	1523.5	1534.8	1564.3	1584.5
37.5°	2710.4	2807.9	2627.4	2036.7	1607.7	1475.7	1423.4	1384.5	1374.4	1386.3	1396.4
40°	2878.3	3007.3	2645.0	1863.8	1450.5	1366.2	1313.4	1256.1	1216.5	1187.6	1188.2
42.5°	3152.6	3267.1	2633.7	1653.7	1305.2	1259.3	1199.5	1133.5	1069.3	1003.9	998.9
45°	3597.9	3653.3	2599.7	1431.0	1177.5	1147.3	1091.3	1025.3	939.7	865.5	858.6
47.5°	4310.6	4187.9	2546.9	1236.6	1064.9	1052.3	1000.8	924.6	834.1	774.3	769.3
50°	5282.4	4959.7	2521.1	1081.9	965.5	969.3	927.2	846.6	761.1	717.1	712.0
52.5°	6444.8	5858.6	2570.8	962.4	885.6	898.9	867.4	791.9	720.2	685.6	680.6
55°	7650.6	6789.5	2624.2	875.6	810.2	836.0	825.3	763.0	698.2	666.1	661.7
57.5°	8682.9	7484.6	2517.3	805.1	742.9	783.1	792.6	744.7	686.9	657.9	652.9
60°	9332.6	7764.5	2236.8	739.1	689.4	741.0	773.7	739.7	691.3	688.8	685.0
62.5°	9640.8	7740.0	1816.0	686.9	656.1	722.7	787.5	768.0	741.6	764.2	766.1
65°	9502.5	7370.1	1352.4	652.3	632.2	729.7	829.0	821.5	756.1	778.7	781.9
67.5°	8591.6	6487.6	1001.4	622.1	605.7	749.2	904.5	839.1	727.8	744.1	734.1
70°	*6944.3*	*5143.4*	*772.4*	*588.1*	*578.7*	*746.6*	*938.5*	*828.4*	*696.9*	*700.7*	*673.7*
72.5°	4788.7	3507.4	628.4	556.7	539.7	680.6	914.6	802.0	671.2	642.2	606.4
75°	2604.1	1882.6	534.0	524.0	471.1	597.6	870.5	783.1	647.9	609.5	589.4
77.5°	1024.7	781.2	463.6	479.3	412.0	527.7	821.5	747.3	615.8	565.5	555.4
80°	418.3	398.8	384.3	414.5	354.1	461.7	762.4	705.1	577.4	524.6	504.5
82.5°	237.1	247.8	298.8	327.1	287.5	425.2	734.1	671.2	531.5	469.9	446.0
85°	121.4	145.3	208.2	234.6	211.3	361.7	676.2	587.5	426.5	359.8	361.7
87.5°	58.5	81.1	131.5	147.2	137.1	261.7	505.1	425.8	332.1	262.9	254.7
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

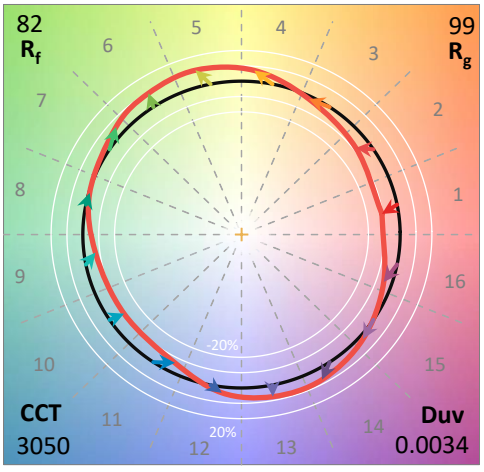
Test Information

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

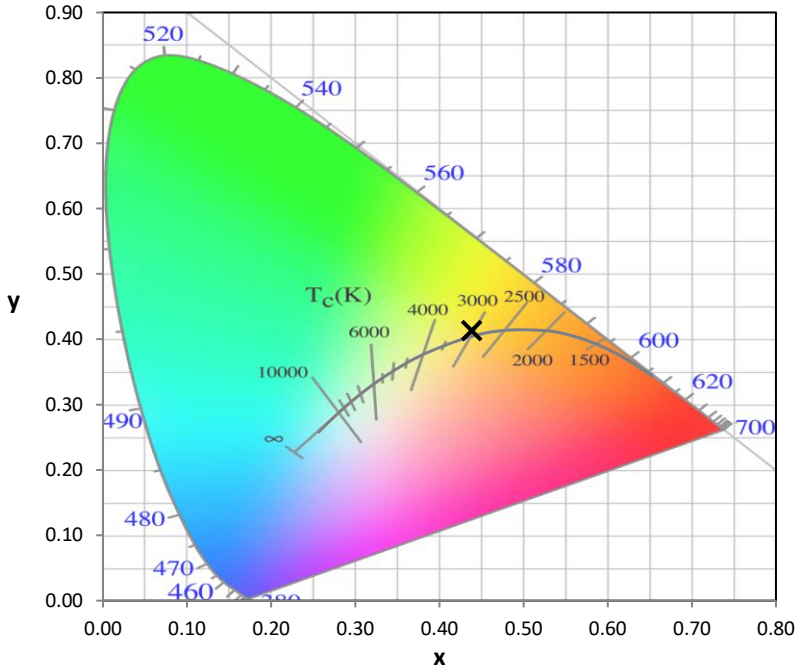
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

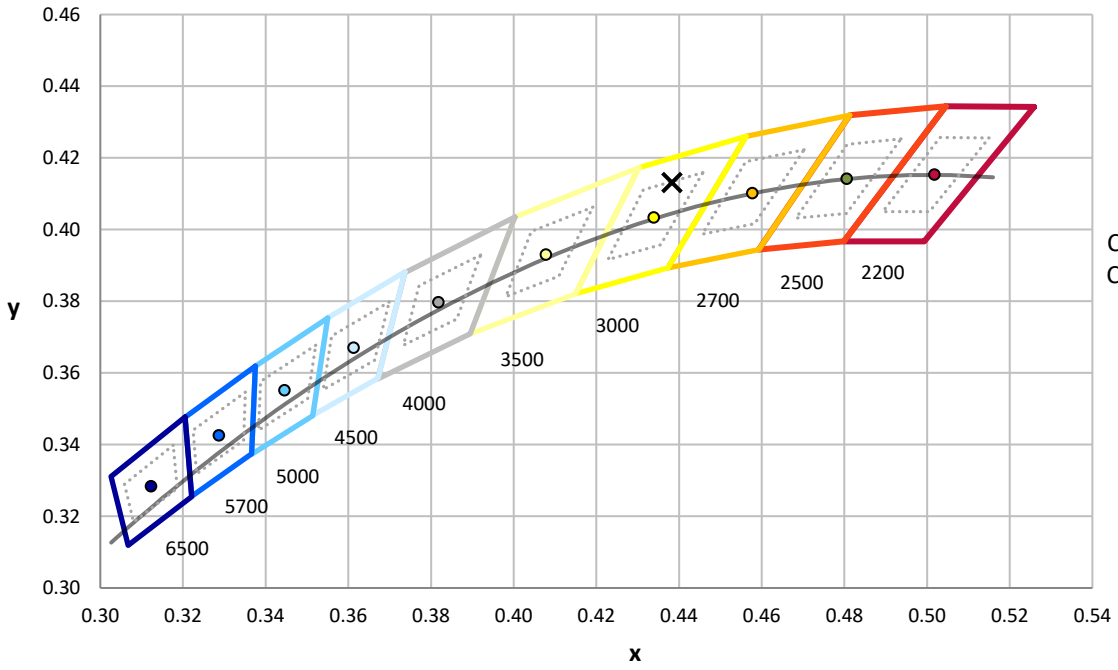
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

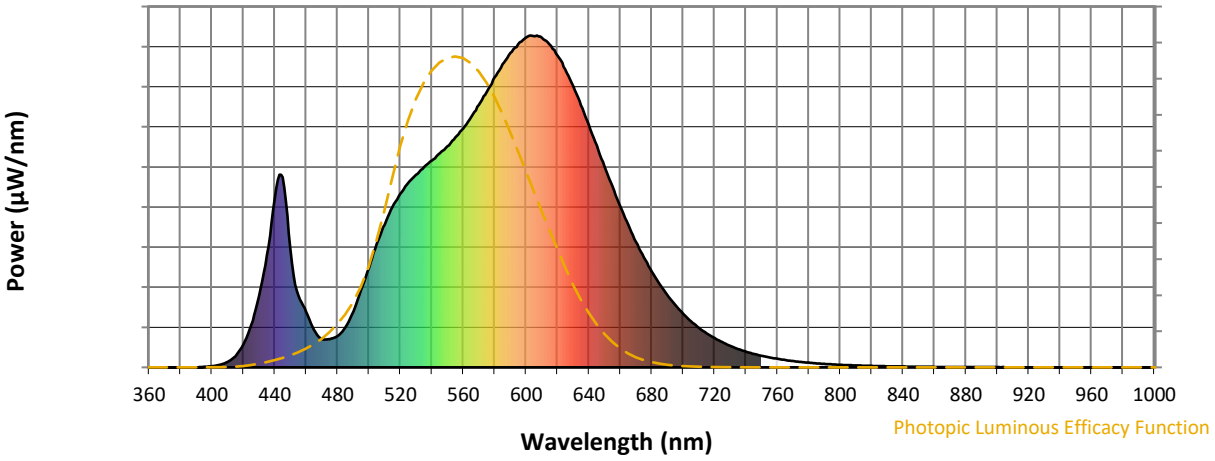


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

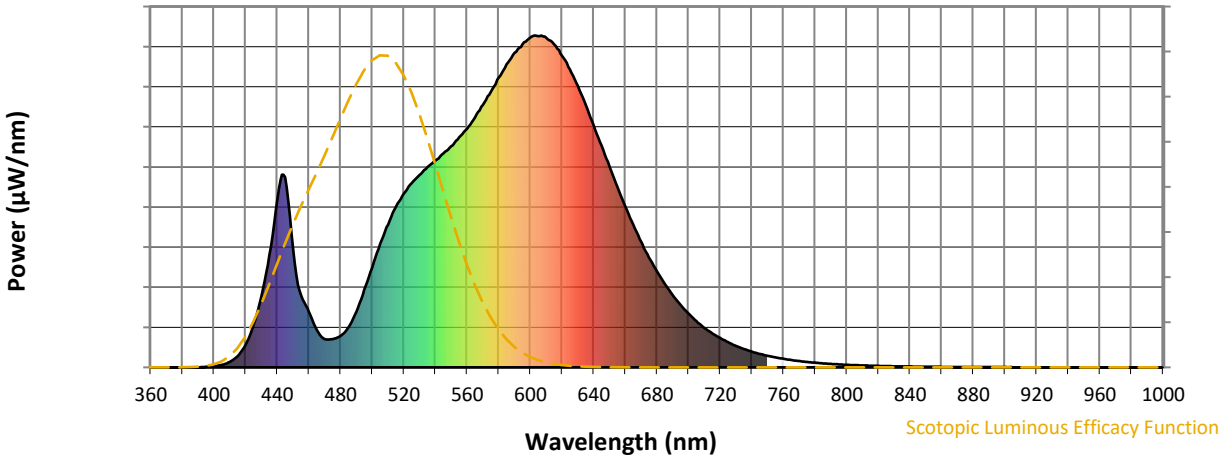


Photopic Lumens: NR

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

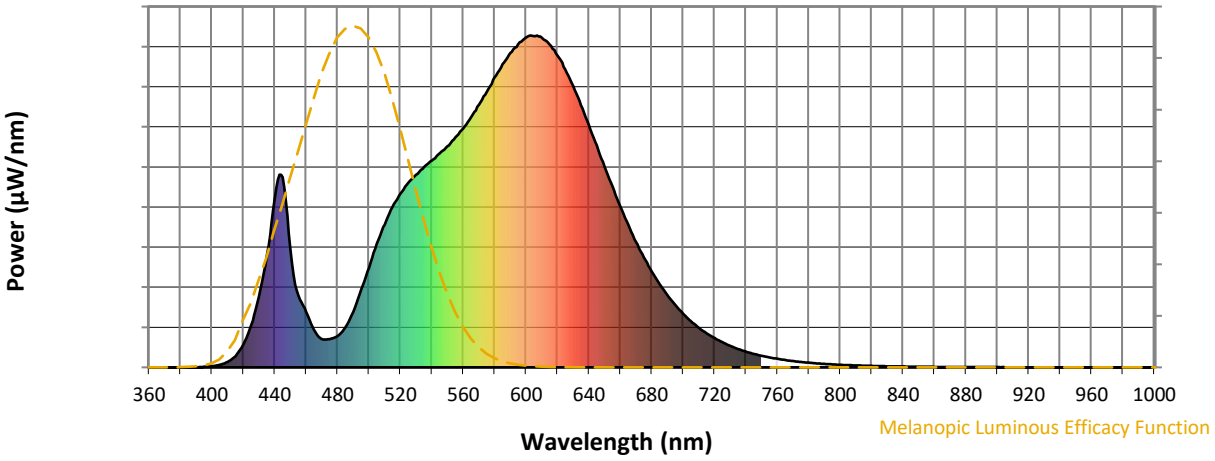


Scotopic Lumens: NR **S/P: 1.27**

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			

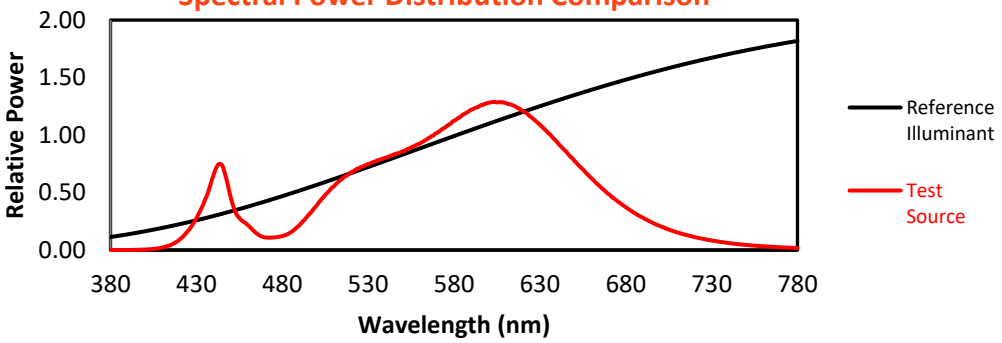
REPORT NUMBER: SP1-2408-195-9

TM-30-18

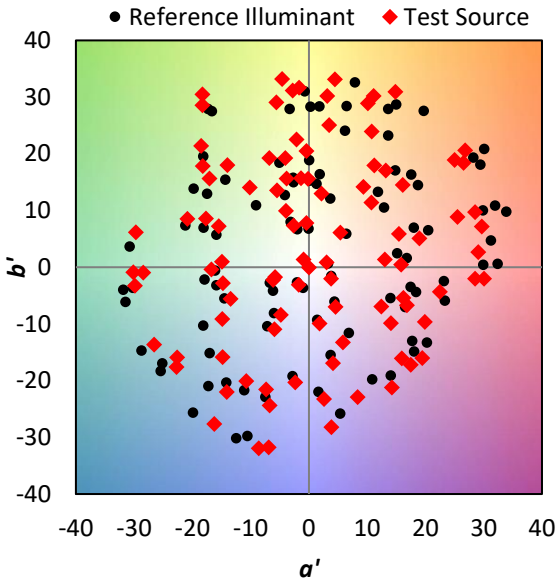
Summary

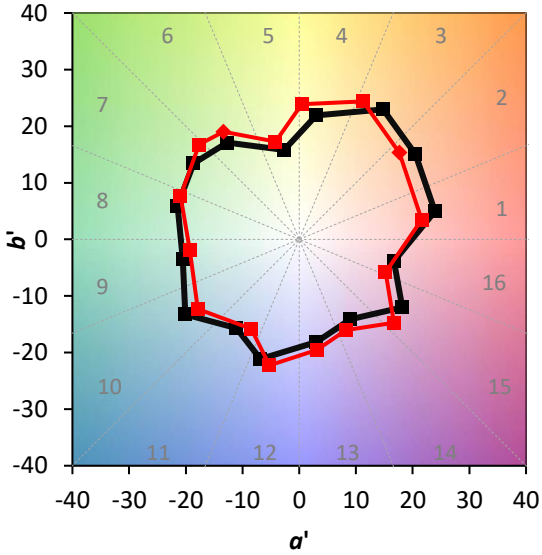
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

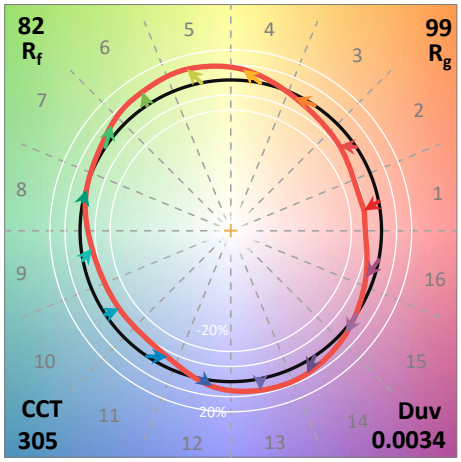
Spectral Power Distribution Comparison

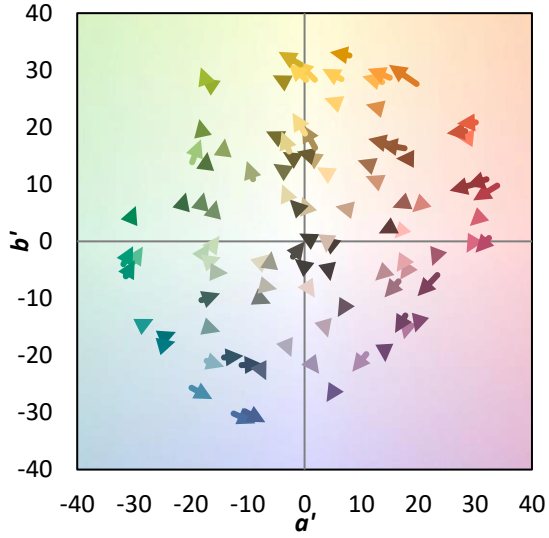


Color Vector Graphics







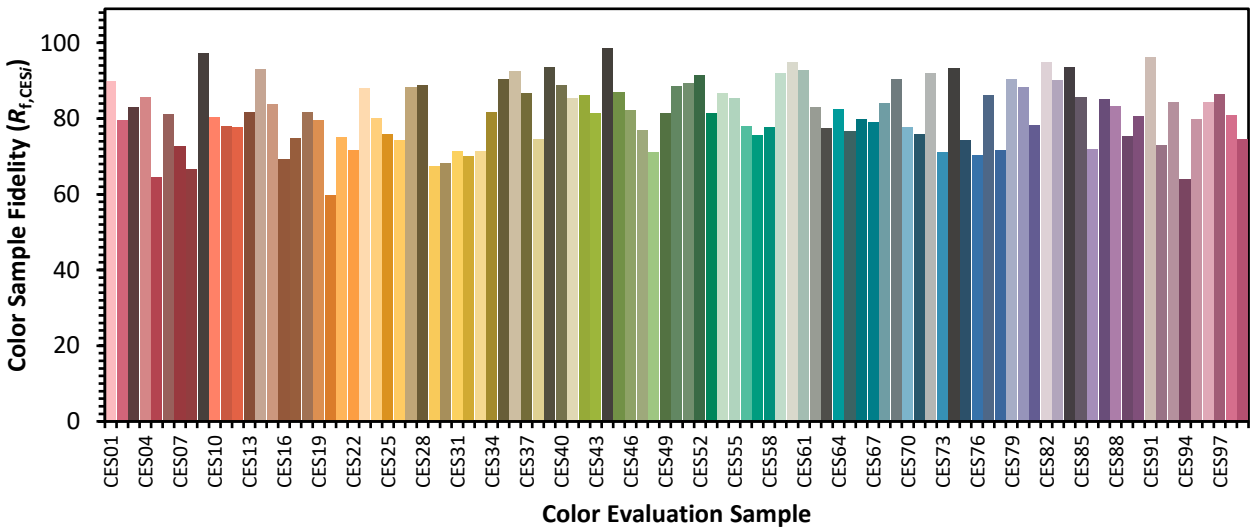


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

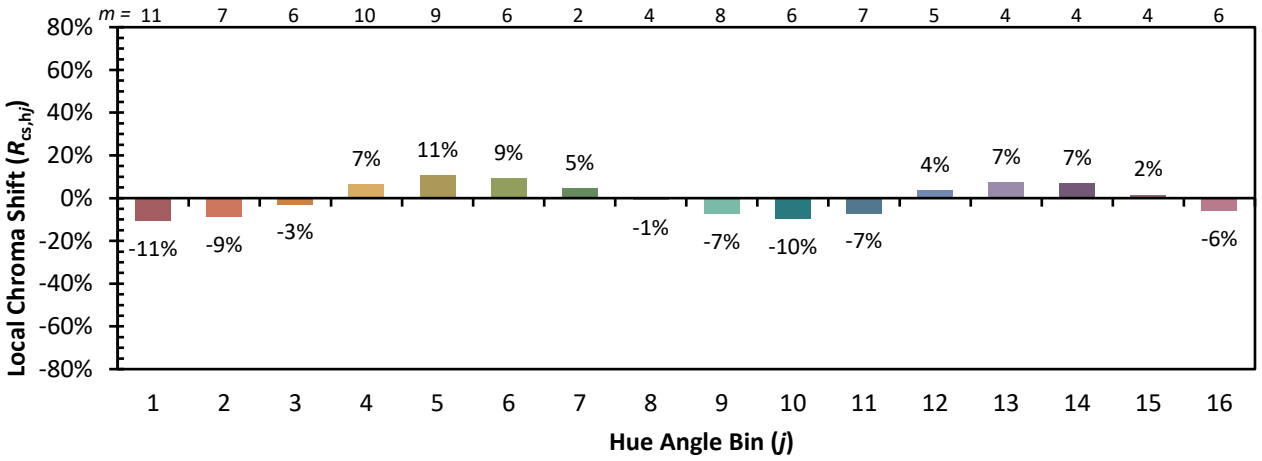
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

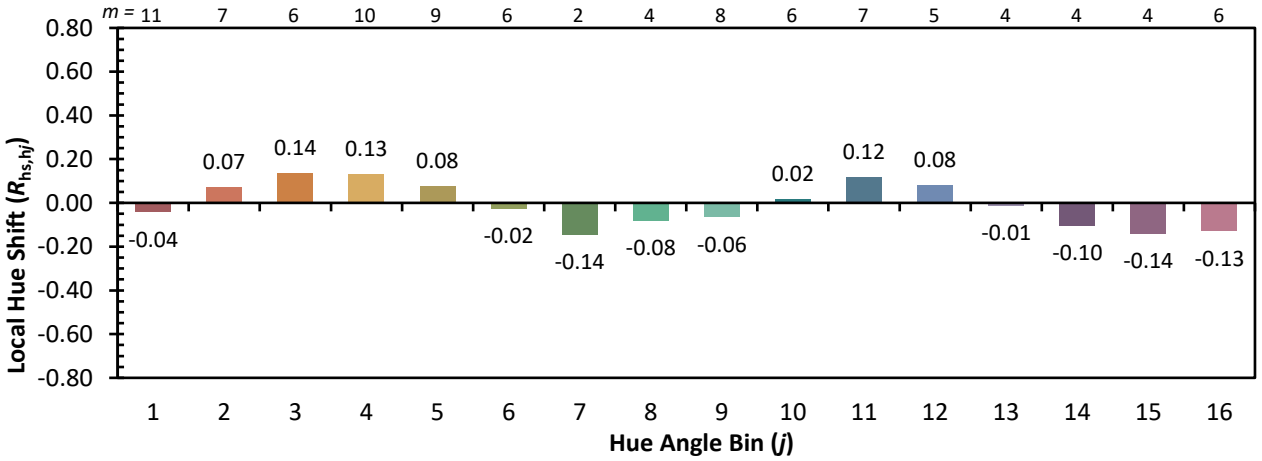


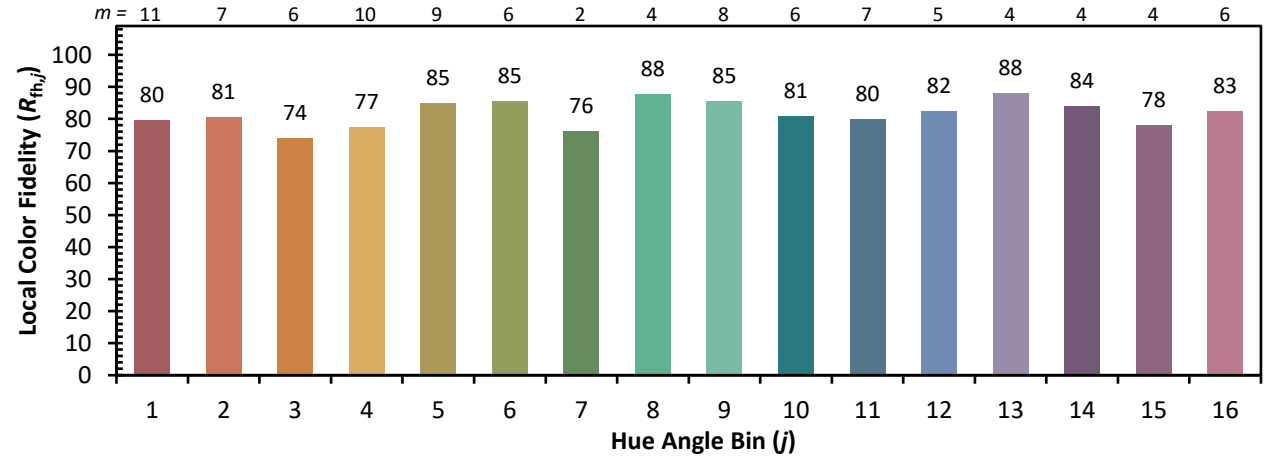
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



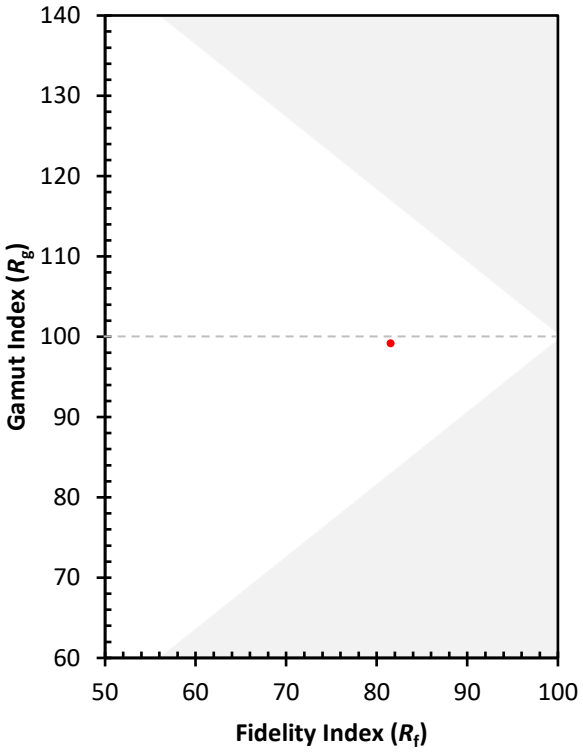


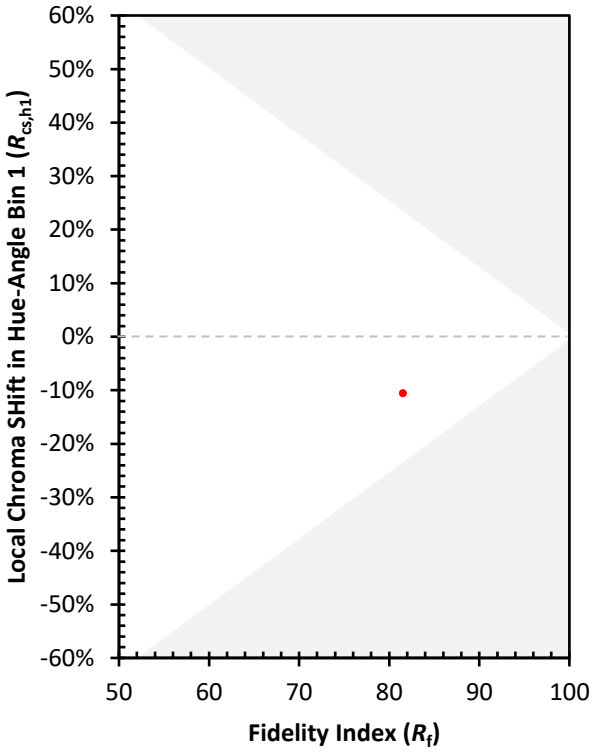


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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