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: P323988

Luminaire Tested: **GLEON-SA4A-830-U-SL4-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:	P323988
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA4A-830-U-SL4-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12125 lumens
Efficiency:	N/A
Efficacy:	94.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G3

Input Watts (W):	129
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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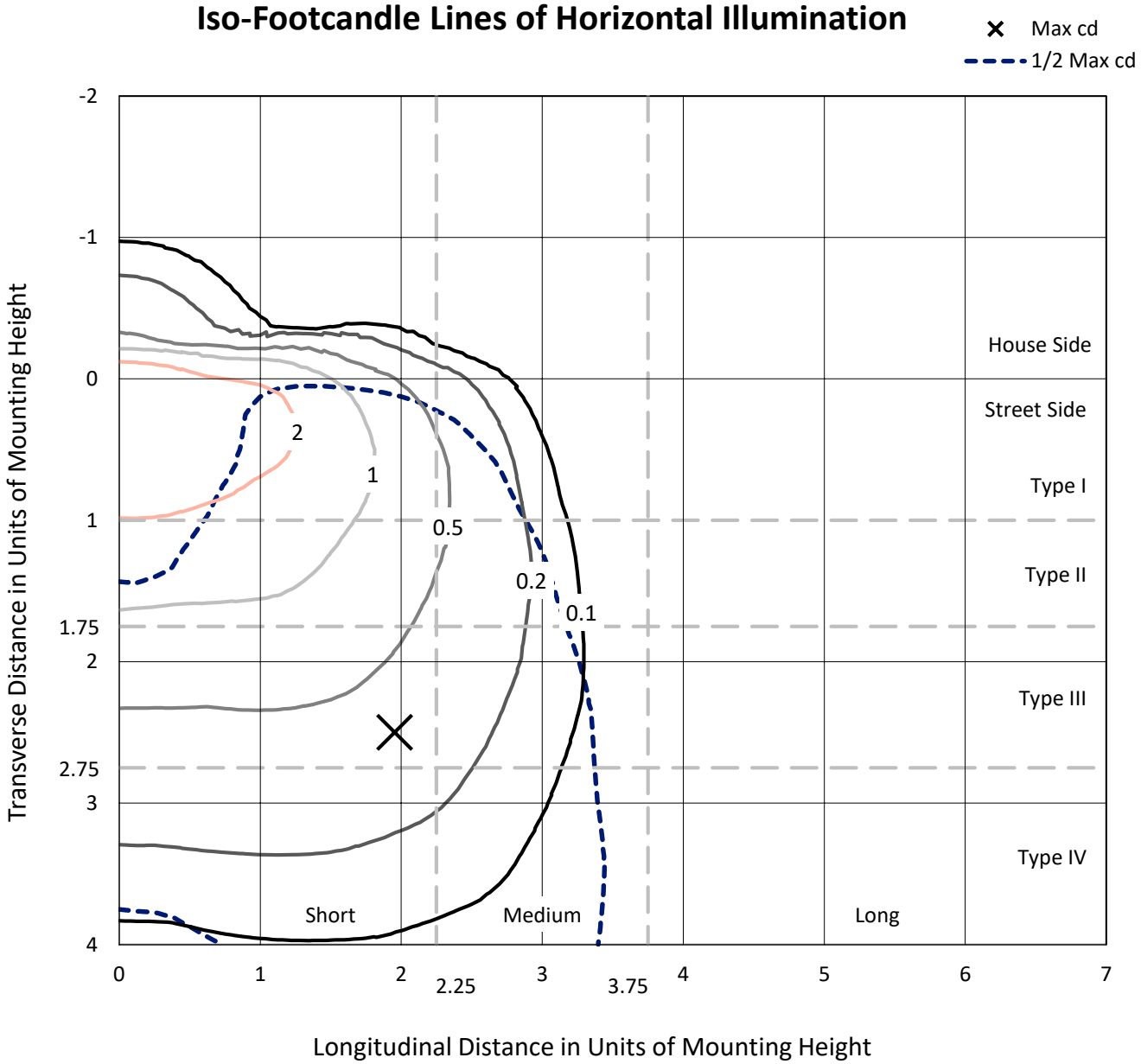
Scaled Data Report

REPORT NUMBER: P323988
CATALOG NUMBER: GLEON-SA4A-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination



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

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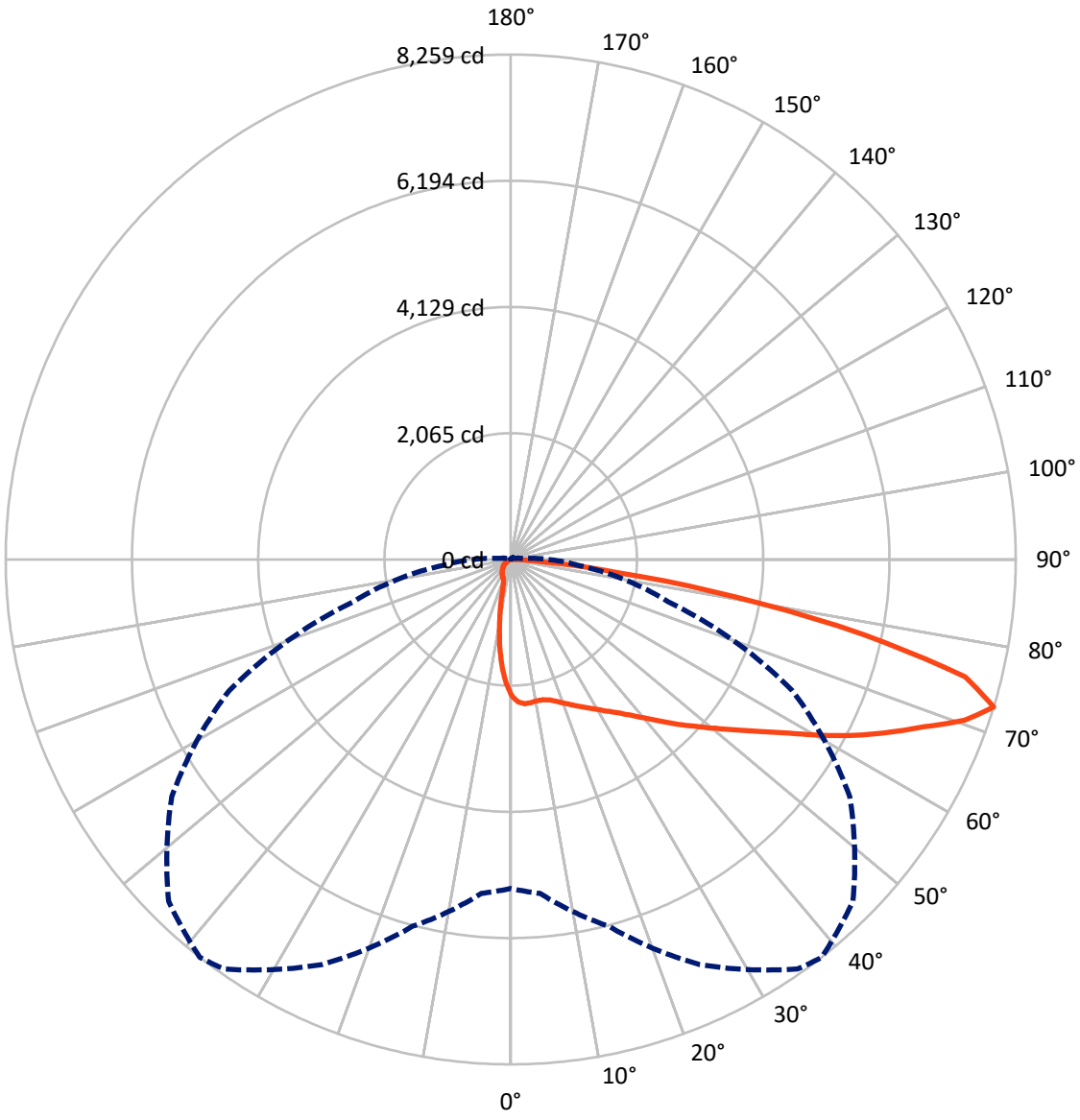
Luminous Intensity Polar Plot



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REPORT NUMBER: P323988
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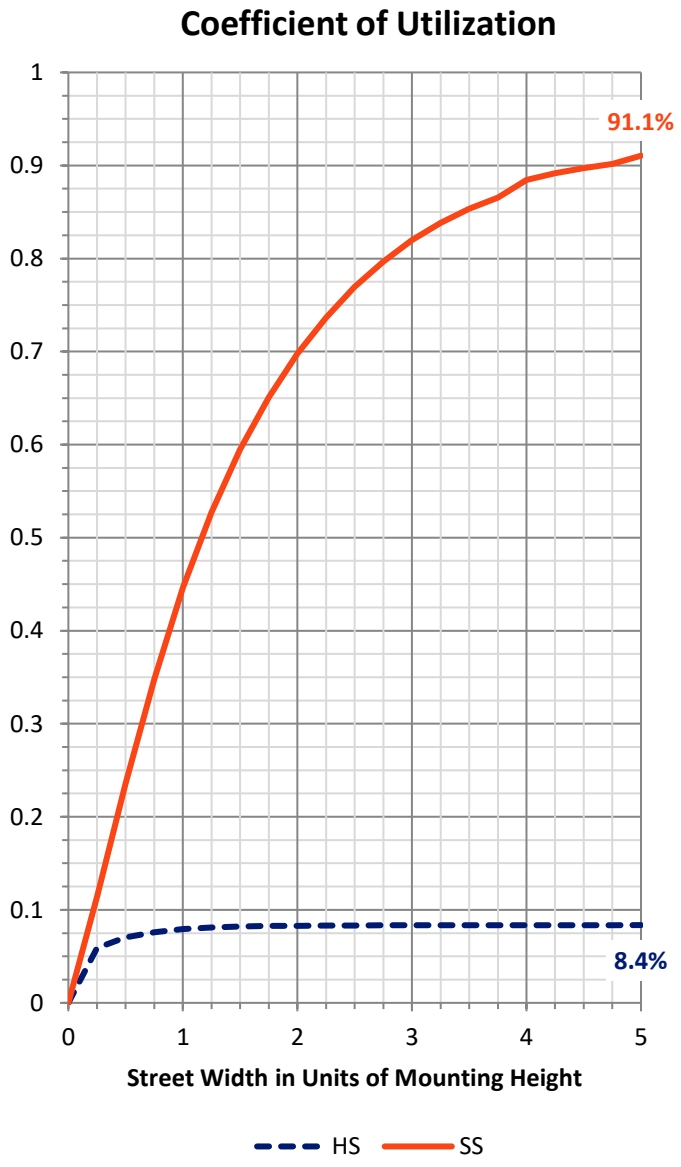
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1020.4	0.0	1020.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	11104.6	0.0	11104.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	12125.0	0.0	12125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.0	1.6
10°-20°	464.6	3.8
20°-30°	739.0	6.1
30°-40°	1111.0	9.2
40°-50°	1694.9	14.0
50°-60°	2395.5	19.8
60°-70°	3004.7	24.8
70°-80°	2246.7	18.5
80°-90°	278.6	2.3
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°	12125.0	100.0
0°-180°	12125.0	100.0



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REPORT NUMBER: P323988
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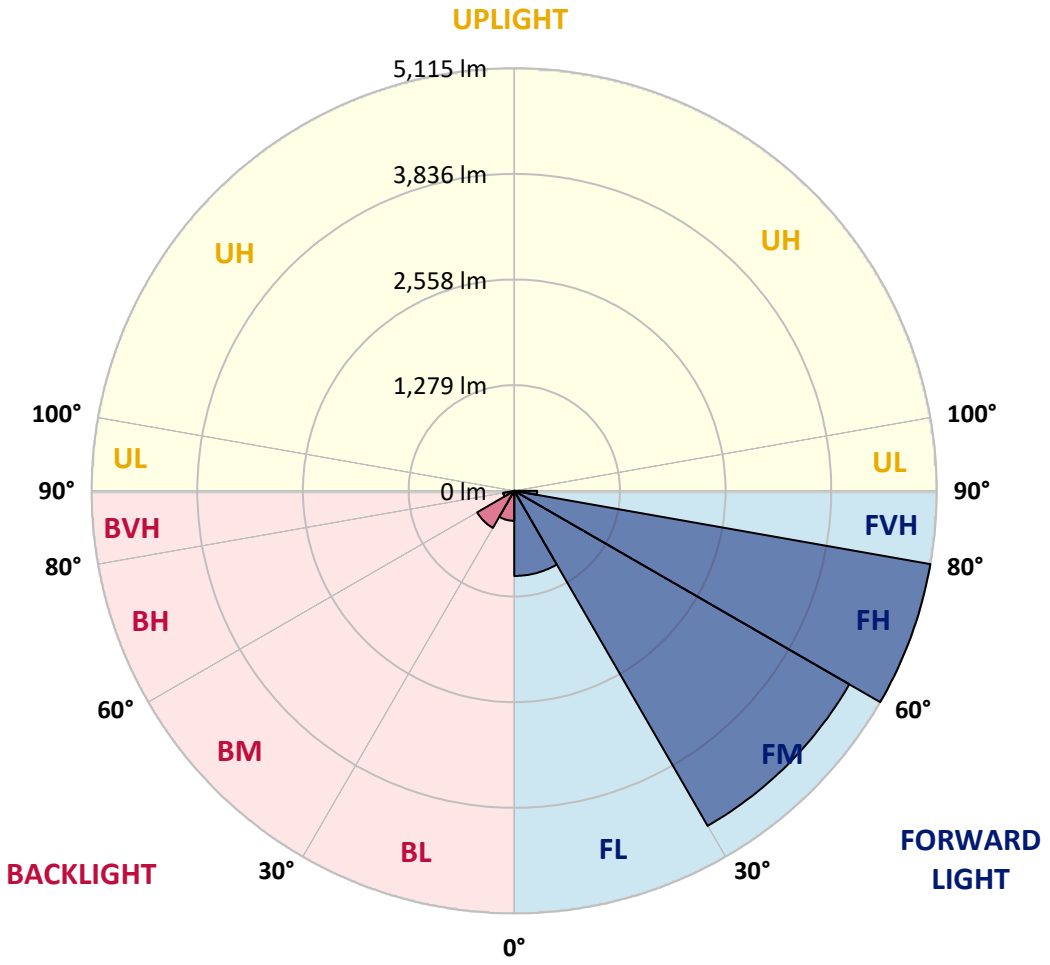
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1030.3	8.5			
FM	(30°-60°)	4683.2	38.6			
FH	(60°-80°)	5115.1	42.2			G3/7500
FVH	(80°-90°)	276.0	2.3			G3/500
BL	(0°-30°)	363.3	3.0	B1/500		
BM	(30°-60°)	518.2	4.3	B1/1000		
BH	(60°-80°)	136.3	1.1	B1/500		G1/500
BVH	(80°-90°)	2.6	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



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Scaled Data Report

REPORT NUMBER: P323988
CATALOG NUMBER: GLEON-SA4A-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7
2.5°	2366.7	2367.2	2361.7	2352.6	2341.0	2335.0	2324.9	2308.8	2291.7	2261.0	2227.7
5°	2415.1	2415.1	2408.0	2395.9	2377.3	2371.8	2352.6	2326.9	2291.7	2241.8	2185.9
7.5°	2410.0	2411.0	2401.5	2388.9	2370.2	2365.2	2342.0	2313.3	2269.5	2209.1	2137.6
10°	2383.8	2386.4	2378.8	2372.8	2355.6	2350.1	2328.4	2299.7	2255.9	2191.5	2109.4
12.5°	2357.1	2359.7	2362.2	2367.7	2357.1	2355.1	2338.0	2313.8	2272.0	2205.1	2112.4
15°	2340.0	2345.1	2363.2	2384.8	2387.4	2385.3	2374.3	2351.6	2309.3	2239.8	2134.1
17.5°	2340.0	2348.1	2385.9	2427.1	2441.7	2443.3	2433.7	2402.0	2351.6	2277.1	2154.2
20°	2359.7	2370.7	2429.7	2488.1	2512.2	2512.2	2493.6	2449.3	2390.4	2310.8	2167.8
22.5°	2410.0	2424.6	2498.6	2566.1	2591.8	2586.3	2561.1	2496.6	2430.7	2349.1	2184.9
25°	2509.2	2520.3	2597.3	2665.3	2680.9	2668.3	2636.6	2554.0	2482.0	2401.0	2216.2
27.5°	2637.1	2638.6	2718.2	2775.6	2766.0	2757.5	2717.7	2626.0	2556.1	2475.0	2270.0
30°	2777.6	2777.6	2847.6	2891.4	2862.2	2855.2	2815.4	2713.2	2650.7	2575.7	2346.6
32.5°	2913.6	2919.6	2976.5	3004.2	2971.5	2964.4	2925.7	2823.4	2776.6	2729.3	2465.9
35°	3045.0	3049.5	3103.4	3118.5	3087.3	3089.3	3061.6	2975.0	2957.4	2951.3	2645.7
37.5°	3172.4	3173.4	3228.3	3237.9	3222.3	3239.4	3241.9	3165.4	3198.1	3246.9	2899.0
40°	3288.7	3289.7	3344.1	3368.8	3395.5	3417.6	3437.3	3396.5	3504.8	3618.1	3200.6
42.5°	3381.9	3392.5	3461.4	3508.3	3578.8	3621.1	3674.5	3672.4	3869.8	4040.0	3565.2
45°	3464.0	3482.1	3578.3	3660.4	3781.2	3848.7	3932.3	3997.7	4280.7	4509.9	3934.3
47.5°	3572.2	3589.3	3699.1	3833.6	3994.7	4083.3	4221.8	4363.3	4732.4	4971.1	4294.8
50°	3724.8	3717.3	3825.5	4018.4	4225.3	4341.7	4539.1	4751.1	5180.6	5372.9	4506.8
52.5°	3887.5	3884.4	3964.5	4219.3	4497.3	4633.2	4894.1	5151.9	5609.1	5649.9	4604.0
55°	4088.9	4067.2	4134.7	4448.4	4820.0	4966.1	5273.2	5548.7	5950.5	5806.0	4652.9
57.5°	4299.9	4264.1	4328.6	4703.7	5184.1	5356.8	5693.2	5935.4	6177.6	5912.8	4652.4
60°	4517.9	4475.6	4552.1	5023.0	5636.3	5836.2	6148.4	6196.8	6389.6	5966.6	4618.1
62.5°	4700.2	4675.0	4788.8	5364.4	6141.4	6337.8	6492.4	6434.4	6568.4	6008.4	4538.0
65°	4893.1	4894.6	5078.4	5762.7	6678.2	6810.6	6823.7	6742.6	6717.9	5999.9	4267.1
67.5°	5153.9	5178.1	5484.7	6303.5	7200.4	7302.6	7301.6	7076.5	6827.2	5659.5	3666.4
70°	5429.8	5486.8	5953.0	6922.4	7770.4	7874.1	7820.7	7289.0	6428.4	4576.3	2594.8
72.5°	5383.5	5482.2	6213.4	7312.6	8179.8	8258.8	7911.9	6766.8	5080.9	2659.8	1104.8
75°	4153.3	4267.6	5697.2	6925.9	7750.2	7679.2	6798.0	5265.7	2776.6	742.2	248.8
77.5°	2194.0	2254.9	3763.6	5276.3	6043.2	5894.6	4788.8	2921.1	846.5	183.8	111.8
80°	1149.1	1163.2	1640.1	2993.6	3729.8	3730.8	2838.0	1283.1	349.0	94.2	75.0
82.5°	615.3	627.4	866.6	1383.3	1954.3	1771.5	1086.7	706.0	202.9	53.4	72.0
85°	148.0	150.6	491.5	632.0	768.4	548.9	322.8	592.7	54.9	31.2	58.4
87.5°	56.9	57.9	182.3	273.4	195.9	126.9	151.1	221.1	7.0	12.1	9.1
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: P323988
CATALOG NUMBER: GLEON-SA4A-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7	2229.7
2.5°	2207.6	2194.5	2162.3	2121.5	2085.2	2059.0	2019.8	1994.1	1977.0	1976.5	1969.9
5°	2151.7	2125.0	2055.5	1972.9	1897.9	1830.4	1750.9	1687.9	1641.1	1633.5	1617.4
7.5°	2091.8	2048.0	1941.2	1812.3	1686.4	1558.5	1410.0	1317.8	1238.7	1201.0	1197.0
10°	2055.0	1993.6	1842.0	1655.7	1458.3	1250.3	1056.0	921.5	824.3	796.6	776.0
12.5°	2047.5	1966.4	1765.5	1508.7	1226.7	951.7	736.7	593.7	516.1	491.5	484.9
15°	2055.0	1953.8	1701.0	1363.1	992.0	675.3	494.5	411.4	382.2	375.1	374.6
17.5°	2059.5	1938.7	1628.0	1201.5	764.4	482.4	378.7	354.5	350.0	349.5	350.5
20°	2059.0	1915.5	1540.9	1021.2	568.5	379.2	342.4	337.4	336.4	336.9	336.4
22.5°	2055.5	1888.3	1445.2	835.4	429.5	338.9	326.8	323.8	323.3	323.3	323.3
25°	2062.1	1866.7	1340.0	657.6	354.0	320.3	312.7	310.2	309.7	309.7	308.7
27.5°	2085.7	1854.6	1224.6	506.1	319.8	303.6	297.6	297.1	295.6	295.1	296.1
30°	2124.0	1854.6	1098.3	393.8	299.1	286.5	282.0	281.0	280.5	280.0	280.5
32.5°	2191.5	1868.7	960.3	327.3	279.5	267.4	264.4	265.9	264.4	264.4	264.4
35°	2313.3	1911.0	815.8	285.5	258.8	248.8	245.7	247.7	246.7	246.7	246.2
37.5°	2491.1	1989.6	670.2	260.3	240.7	230.1	226.1	229.1	228.1	228.1	227.6
40°	2707.6	2103.9	531.8	241.2	223.1	212.0	208.5	210.0	207.5	207.5	208.5
42.5°	2975.0	2248.9	410.9	222.6	205.5	194.9	192.9	191.4	186.8	184.3	184.8
45°	3272.1	2399.9	320.3	204.4	188.8	180.3	177.3	173.2	165.7	160.6	161.1
47.5°	3537.5	2516.3	260.3	186.8	173.7	167.2	162.6	155.1	144.0	138.0	138.5
50°	3677.0	2533.9	221.6	169.2	159.6	153.1	146.5	135.0	121.9	115.3	114.8
52.5°	3712.7	2451.3	192.9	153.1	145.5	138.0	129.4	113.8	99.2	92.2	91.1
55°	3725.8	2325.4	167.2	138.0	130.4	121.9	110.8	93.2	79.6	72.5	72.0
57.5°	3682.5	2137.6	147.0	124.4	115.3	104.7	91.1	74.5	61.4	55.9	55.9
60°	3586.3	1883.3	131.4	109.8	99.7	87.6	73.5	57.9	45.8	41.3	41.3
62.5°	3394.5	1554.0	116.8	94.7	85.1	72.5	59.4	43.8	32.2	29.7	30.2
65°	3032.4	1178.8	102.2	81.1	72.5	59.9	46.3	31.2	21.7	21.7	22.7
67.5°	2473.0	818.8	87.1	69.0	62.4	48.8	35.2	21.7	15.1	17.1	19.1
70°	1637.1	459.2	74.5	56.9	53.4	38.8	26.2	14.6	12.1	16.1	19.6
72.5°	*617.9*	*178.8*	*62.4*	*45.8*	*46.3*	*29.7*	*18.6*	*11.1*	*11.1*	*17.6*	*23.2*
75°	172.2	87.6	44.8	33.7	36.3	21.7	13.6	9.6	10.6	20.1	27.2
77.5°	101.2	64.5	29.2	19.6	24.7	15.1	9.1	7.6	9.1	17.1	26.2
80°	81.6	34.2	17.1	10.1	13.6	8.6	6.0	4.5	2.5	6.5	13.6
82.5°	81.6	20.6	8.1	7.0	7.0	4.5	3.0	2.0	0.5	0.0	3.5
85°	54.9	8.6	5.0	4.5	3.5	1.5	1.0	0.5	0.0	0.0	0.0
87.5°	9.1	3.5	2.0	1.0	0.5	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

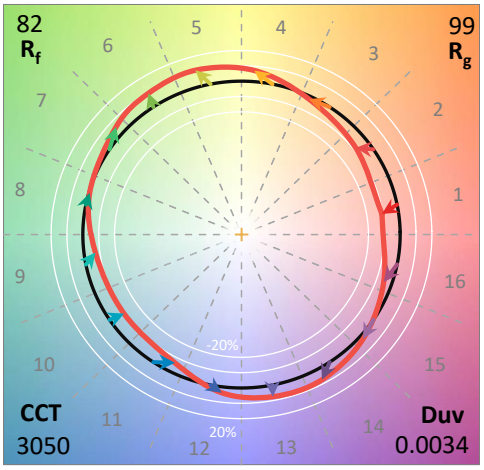
Test Information

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

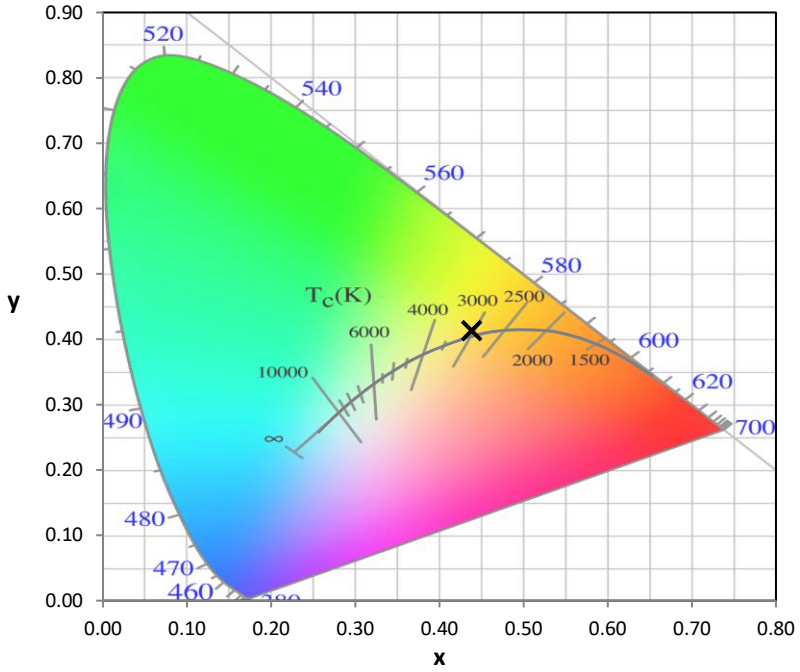
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

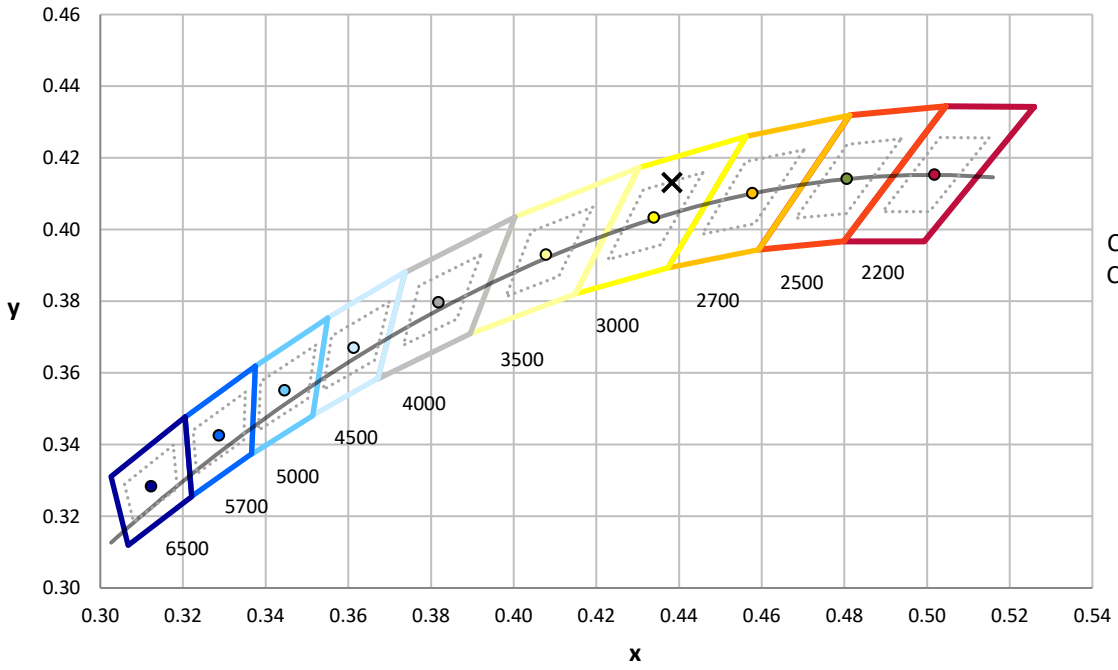
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

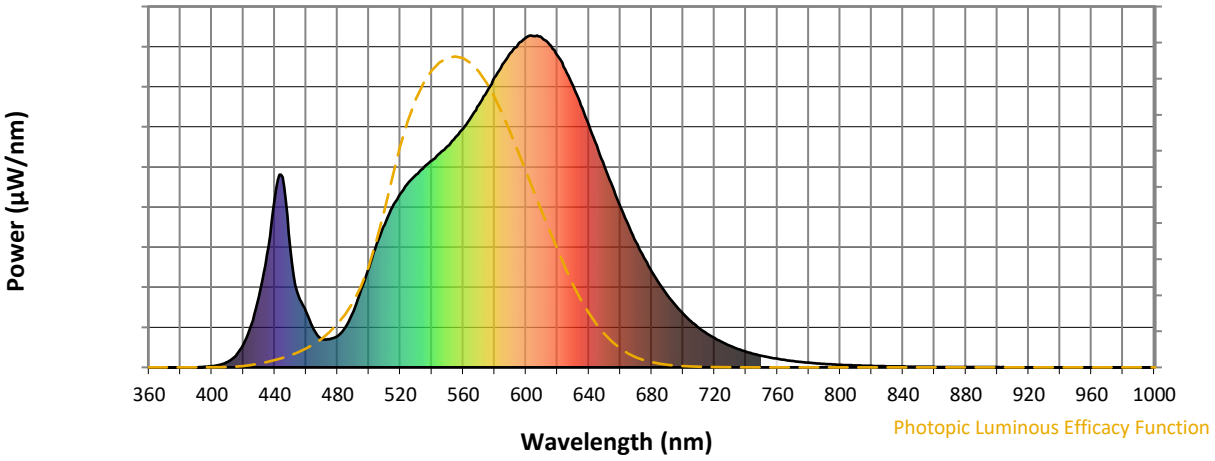


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

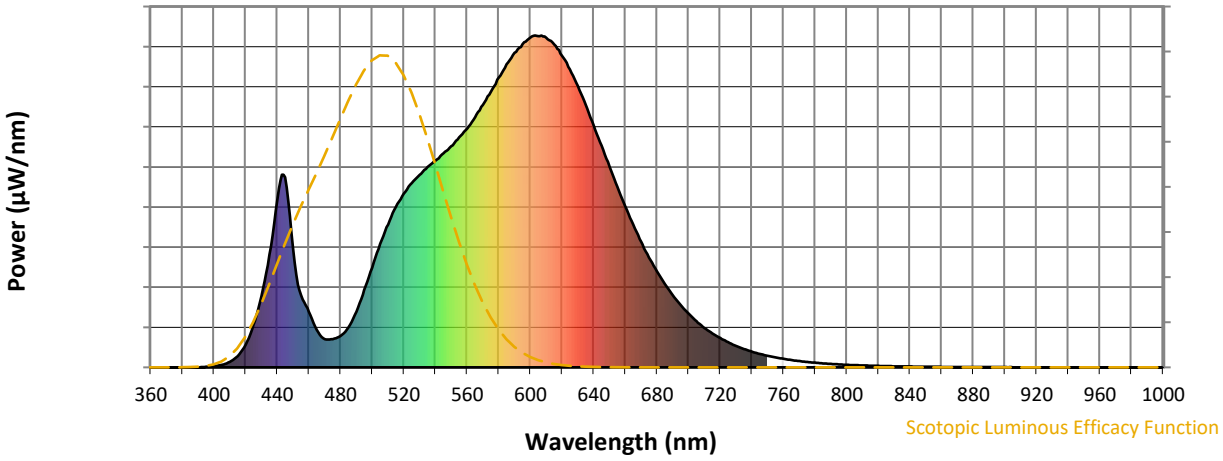


Photopic Lumens: NR

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

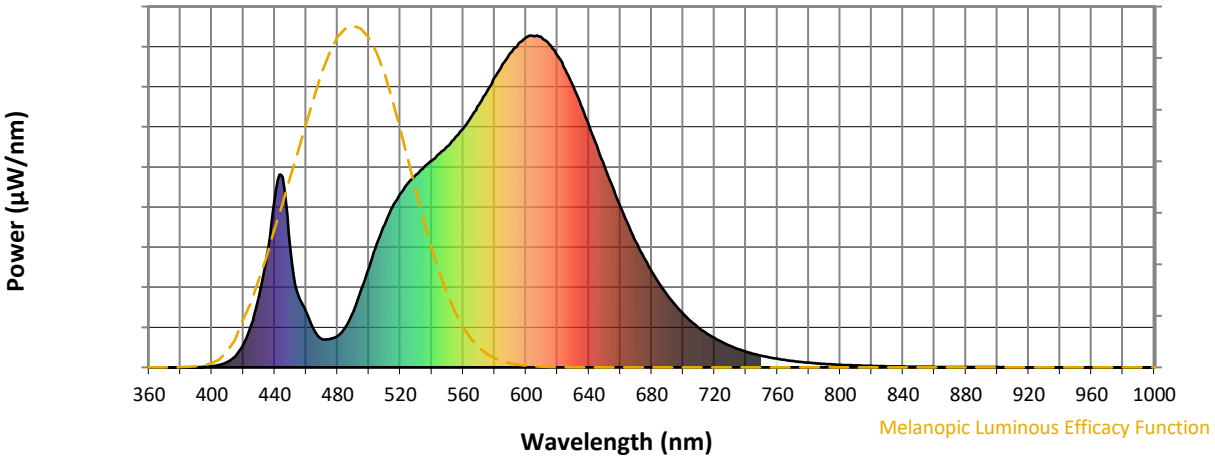


Scotopic Lumens: NR **S/P: 1.27**

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			

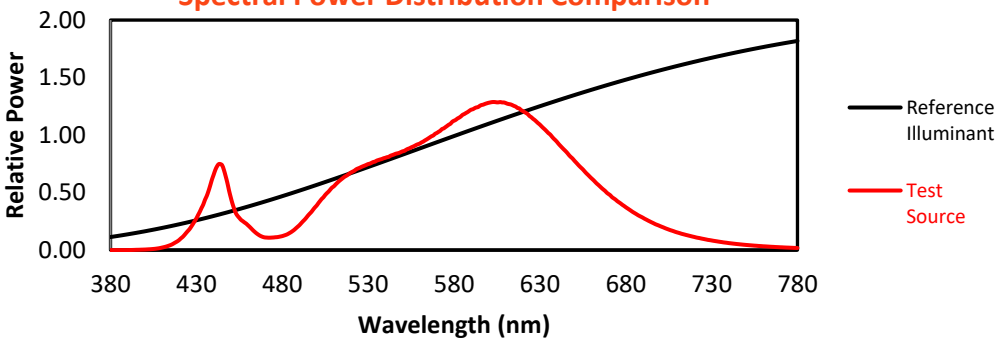
REPORT NUMBER: SP1-2408-195-9

TM-30-18

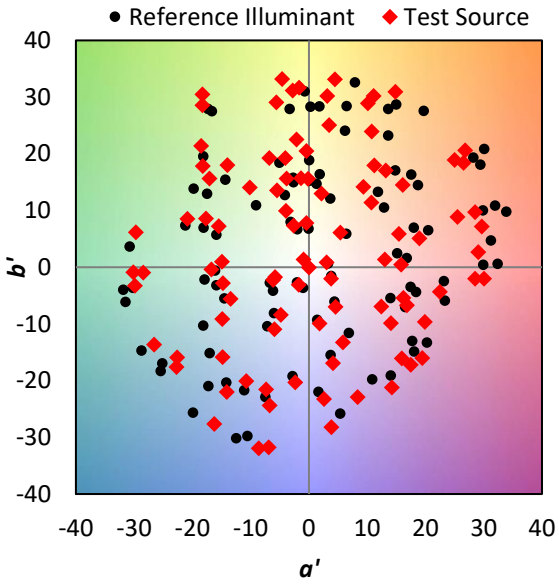
Summary

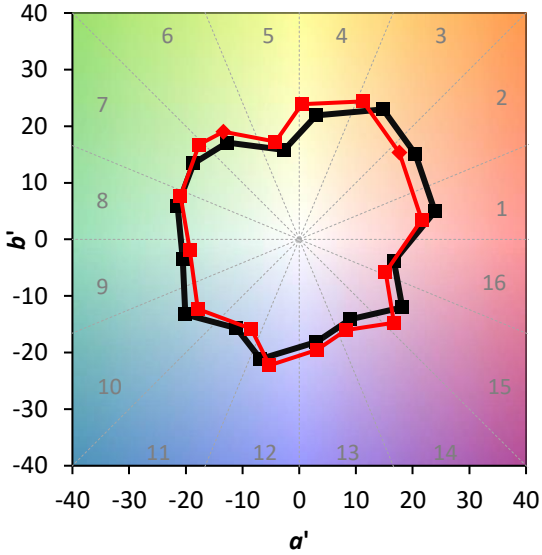
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

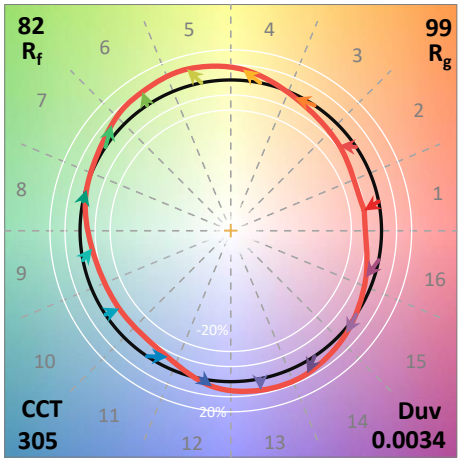
Spectral Power Distribution Comparison

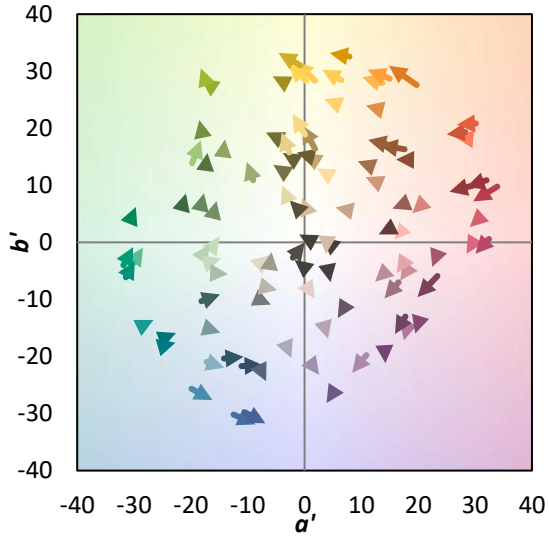


Color Vector Graphics







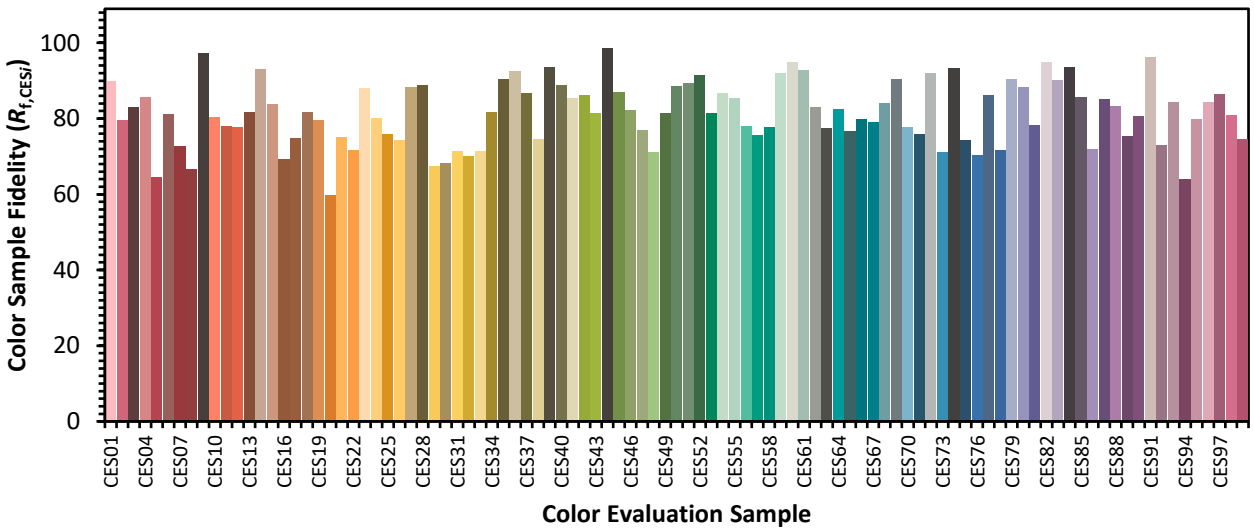


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

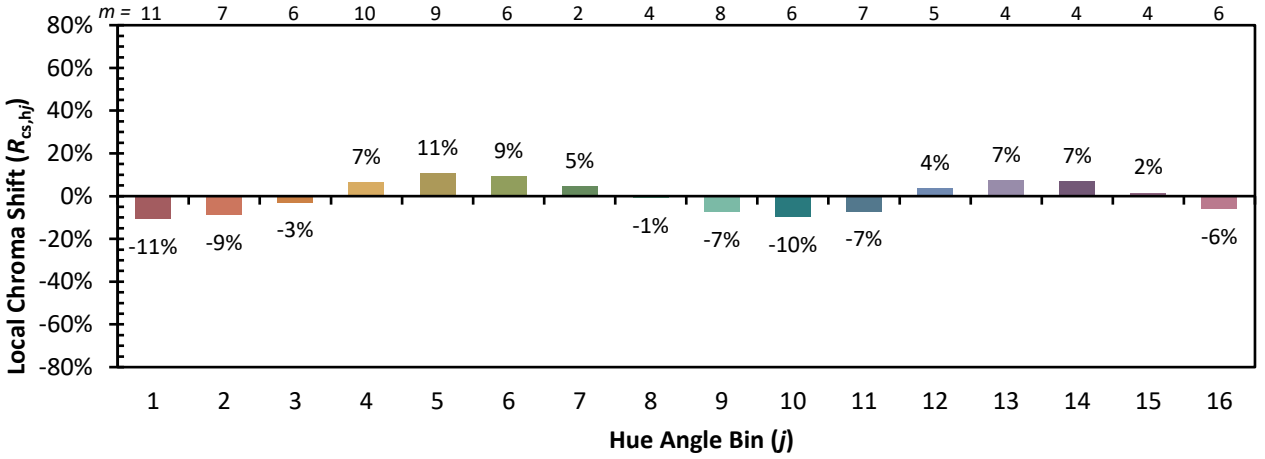
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

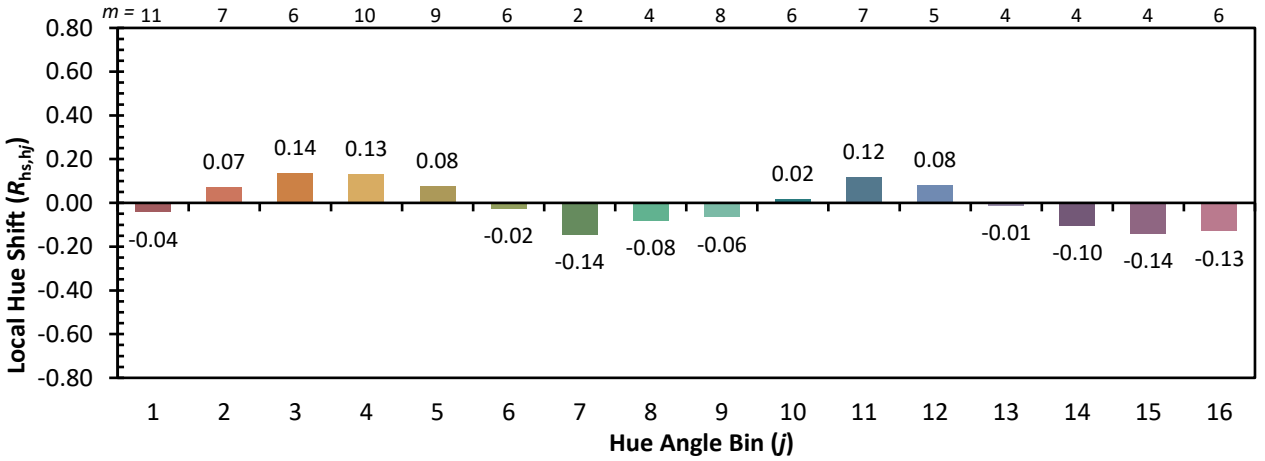


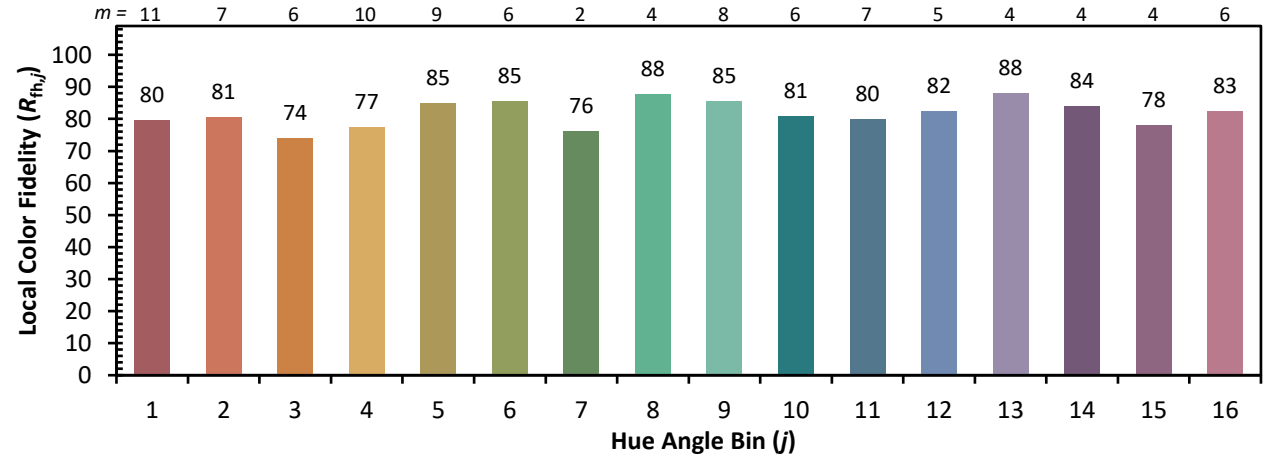
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



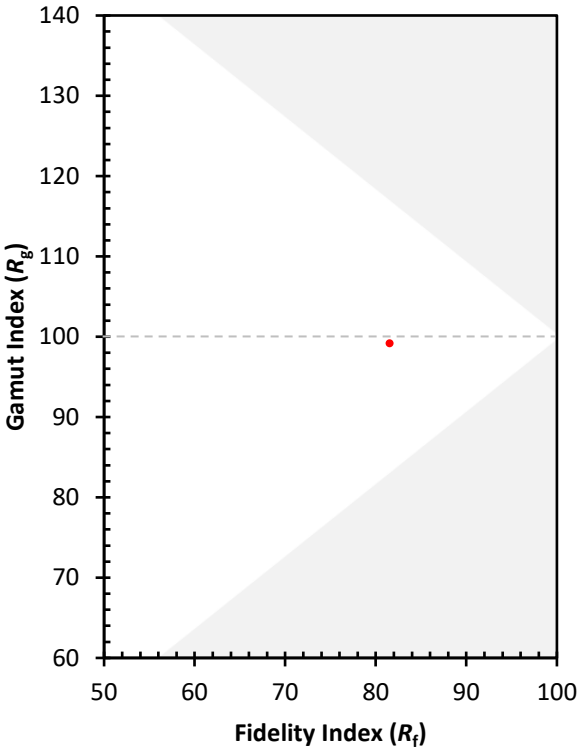


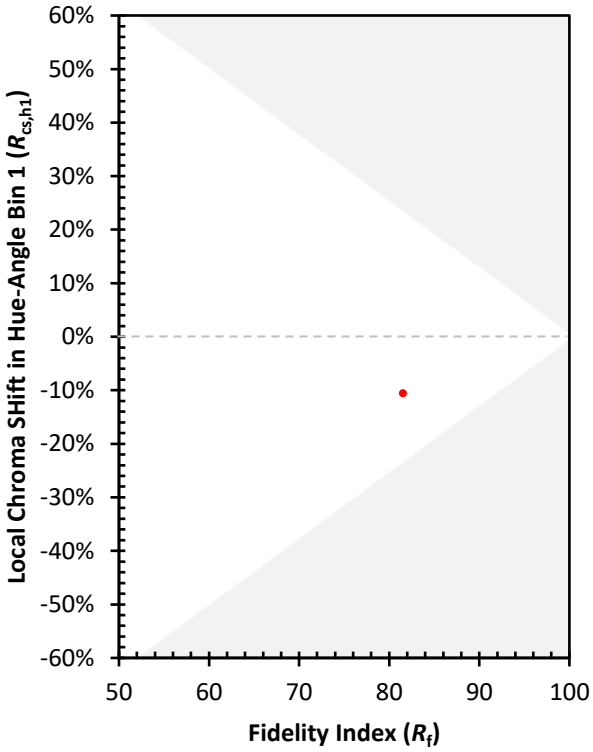


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)