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: P323696

Luminaire Tested: **GLEON-SA2D-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:	P323696
	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-SA2D-830-U-SL3-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(2) 80 CRI, 3000K, 1200mA 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:	10778 lumens
Efficiency:	N/A
Efficacy:	83.6 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):	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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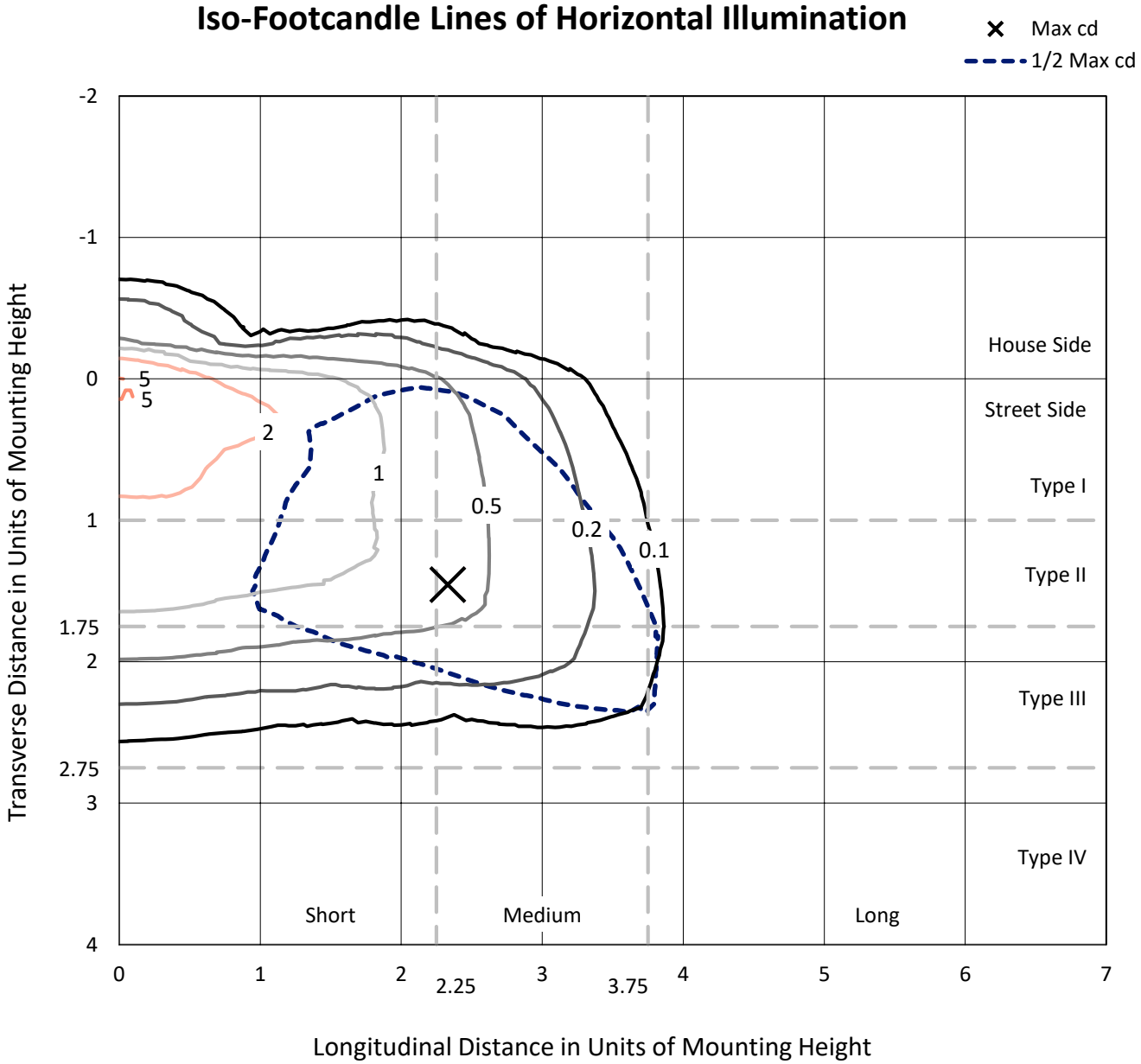
Scaled Data Report

REPORT NUMBER: P323696
CATALOG NUMBER: GLEON-SA2D-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type III - Medium - N/A

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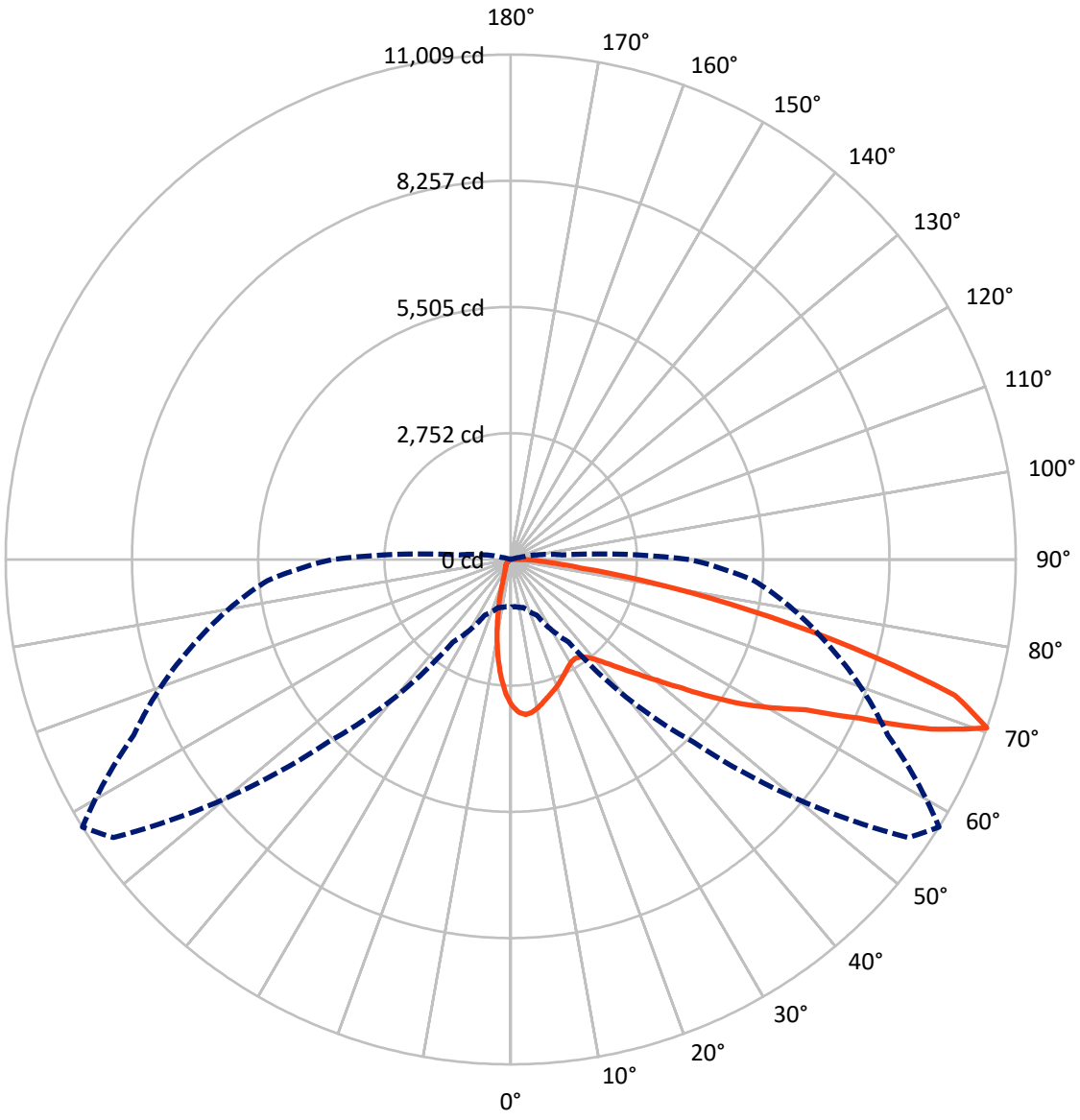
Luminous Intensity Polar Plot



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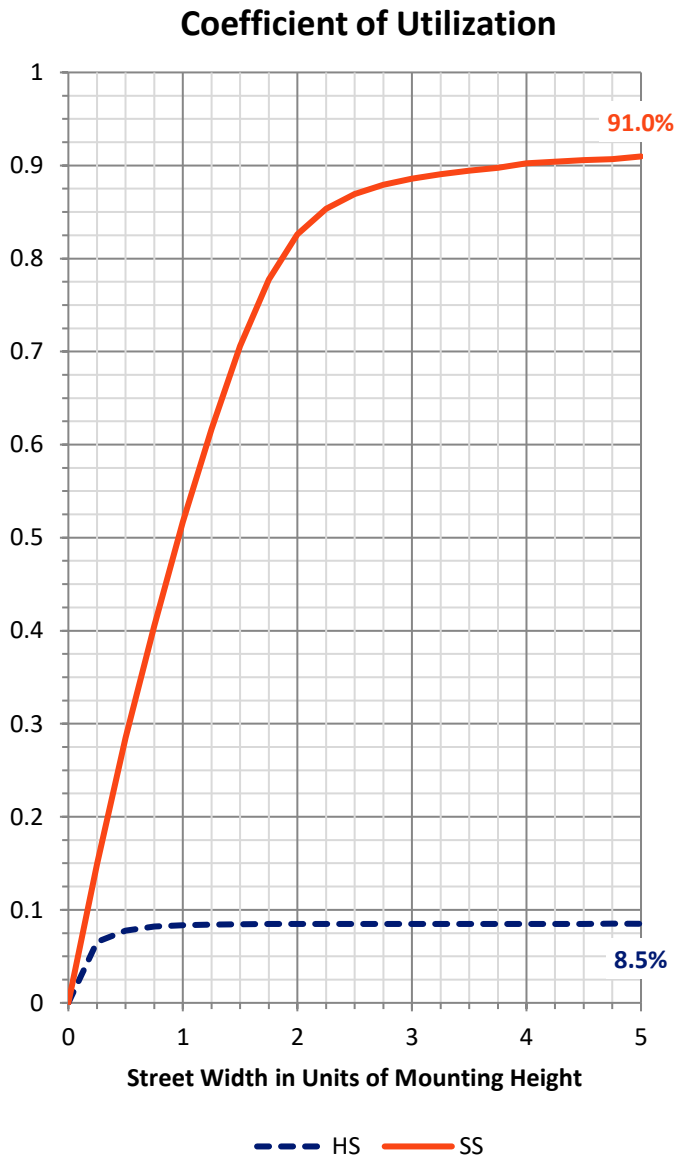
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	922.4	0.0	922.4
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	9855.6	0.0	9855.6
	% Fixture	91.4	0.0	91.4
Total	Lumens	10778.0	0.0	10778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.4	2.4
10°-20°	546.4	5.1
20°-30°	718.3	6.7
30°-40°	951.4	8.8
40°-50°	1422.0	13.2
50°-60°	2278.0	21.1
60°-70°	2871.4	26.6
70°-80°	1548.8	14.4
80°-90°	181.3	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°	10778.0	100.0
0°-180°	10778.0	100.0



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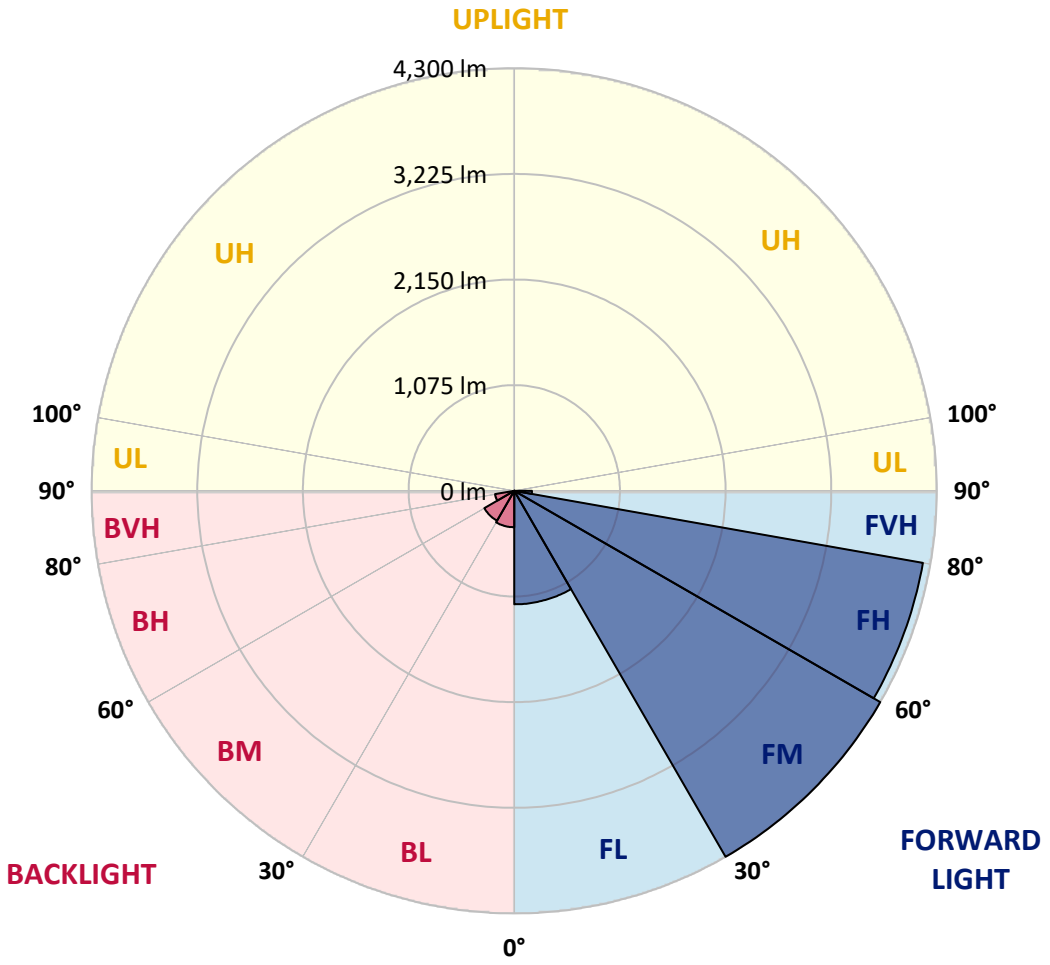
REPORT NUMBER: P323696
CATALOG NUMBER: GLEON-SA2D-830-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1154.5	10.7			
FM	(30°-60°)	4299.5	39.9			
FH	(60°-80°)	4221.9	39.2			G2/5000
FVH	(80°-90°)	179.7	1.7			G2/225
BL	(0°-30°)	370.6	3.4	B1/500		
BM	(30°-60°)	351.9	3.3	B1/1000		
BH	(60°-80°)	198.4	1.8	B1/500		G1/500
BVH	(80°-90°)	1.6	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-G2
Type III Medium



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Scaled Data Report

REPORT NUMBER: P323696
CATALOG NUMBER: GLEON-SA2D-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	*3183.8*	3183.8	3183.8	3183.8
2.5°	3447.7	3439.2	3436.1	3430.7	3410.1	3389.9	3350.0	*3338.8*	3313.7	3254.1	3190.9
5°	3450.4	3450.0	3459.4	3457.2	3450.0	3440.6	3411.9	*3397.1*	3354.5	3269.4	3153.7
7.5°	3284.2	3292.7	3313.7	3330.8	3350.5	3376.0	3379.6	*3365.3*	3330.3	3238.4	3085.2
10°	3061.0	3074.4	3104.0	3137.6	3189.1	3240.2	3286.0	*3284.2*	3272.1	3181.5	3002.7
12.5°	2837.3	2853.0	2887.1	2936.8	3009.9	3093.2	3174.8	*3186.0*	3206.2	3130.4	2926.5
15°	2641.5	2654.9	2688.5	2749.5	2840.0	2952.1	3071.7	*3092.3*	3144.3	3090.6	2862.9
17.5°	2475.2	2483.7	2508.4	2576.1	2680.9	2816.7	2972.2	*3012.6*	3090.1	3059.2	2807.8
20°	2359.1	2360.5	2376.6	2424.1	2529.0	2680.9	2869.2	*2927.0*	3032.7	3032.3	2750.8
22.5°	2301.8	2297.3	2300.4	2327.8	2404.9	2551.4	2766.1	*2834.6*	2981.2	3009.4	2693.0
25°	2291.0	2287.4	2278.5	2282.1	2328.7	2438.0	2662.1	*2741.4*	2935.9	2995.5	2642.8
27.5°	2324.6	2328.2	2313.0	2296.8	2300.4	2364.5	2569.8	*2661.7*	2899.2	2995.5	2607.4
30°	2392.3	2394.1	2382.9	2361.8	2333.6	2343.9	2505.7	*2597.6*	2880.8	3016.2	2585.0
32.5°	2467.2	2477.0	2475.7	2458.6	2418.3	2376.6	2490.5	*2574.3*	2879.5	3061.9	2582.8
35°	2559.9	2571.1	2590.0	2586.4	2544.2	2475.7	2542.4	*2608.3*	2905.9	3137.2	2607.0
37.5°	2658.5	2675.6	2715.9	2735.2	2707.8	2630.3	2659.0	*2706.0*	2976.7	3259.1	2668.4
40°	2754.0	2773.3	2846.7	2922.5	2901.9	2822.1	2835.5	*2873.2*	3102.7	3434.3	2784.9
42.5°	2847.6	2876.3	2984.3	3108.9	3133.6	3069.9	3077.1	*3107.1*	3289.5	3675.4	2975.4
45°	2959.7	2992.0	3152.0	3305.7	3371.6	3343.8	3374.2	*3394.0*	3533.8	3994.1	3232.2
47.5°	3124.2	3161.4	3357.7	3532.9	3648.5	3666.4	3727.8	*3740.8*	3842.6	4365.1	3567.0
50°	3445.1	3455.4	3632.8	3791.9	3958.6	4066.2	4136.1	*4146.0*	4216.3	4770.7	3985.1
52.5°	3848.8	3855.6	3956.0	4062.6	4252.2	4471.8	4635.4	*4649.3*	4664.1	5166.0	4397.9
55°	4250.0	4249.1	4315.4	4378.1	4595.0	4914.1	5269.1	*5277.6*	5171.4	5541.1	4713.4
57.5°	4500.5	4524.7	4625.5	4706.2	5009.1	5418.3	5910.9	*5942.2*	5704.3	5819.0	5025.3
60°	4420.7	4432.4	4656.0	4954.5	5525.0	6134.9	6560.3	*6568.3*	6104.9	6096.4	5419.7
62.5°	3766.4	3772.7	4124.0	4739.4	5786.3	7064.4	7343.6	*7212.3*	6565.6	6481.4	5891.6
65°	2581.4	2622.2	2915.8	3676.3	5306.3	7647.5	8556.4	*8339.0*	7267.9	7036.2	6318.2
67.5°	1520.2	1511.7	1656.9	2217.1	3897.3	7260.3	10090.5	*9874.4*	8225.6	7407.7	6193.2
70°	*1038.4*	*1032.6*	*1088.1*	*1342.3*	*2200.0*	*5632.1*	*10573.1*	*11009.2*	*9071.3*	*7157.7*	*5330.0*
72.5°	741.3	744.4	826.4	1042.9	1381.2	3281.5	9092.4	*10124.5*	8806.5	6239.8	4051.4
75°	503.3	511.8	629.2	855.5	1210.9	1669.4	6452.2	*7696.4*	7171.1	4535.0	2328.7
77.5°	270.7	280.1	418.6	689.3	1094.9	1159.9	4150.5	*5296.9*	4504.5	2038.7	674.9
80°	112.9	118.3	195.8	501.0	946.1	1018.7	2442.1	*3212.0*	1919.5	402.0	150.6
82.5°	48.9	51.5	81.6	298.9	707.2	860.0	1293.0	*1545.3*	581.7	88.3	75.7
85°	9.4	9.9	33.6	158.2	451.3	485.4	838.1	*821.5*	261.3	38.1	55.1
87.5°	0.0	0.0	8.1	49.7	132.7	264.4	511.4	*505.1*	88.7	18.4	20.6
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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Scaled Data Report

REPORT NUMBER: P323696
CATALOG NUMBER: GLEON-SA2D-830-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8	3183.8
2.5°	3158.7	3127.7	3062.8	2982.5	2921.1	2853.5	2799.7	2731.6	2702.0	2703.3	2687.2
5°	3087.9	3024.2	2880.4	2698.9	2559.0	2414.7	2290.6	2166.9	2093.8	2070.1	2047.7
7.5°	2986.6	2885.7	2656.3	2376.6	2140.0	1908.7	1707.5	1530.5	1418.4	1363.8	1343.6
10°	2872.3	2730.7	2398.6	2030.2	1692.3	1379.5	1118.6	891.9	801.3	739.9	724.2
12.5°	2771.9	2580.1	2146.7	1674.8	1273.7	896.3	647.6	506.4	445.0	420.8	416.8
15°	2677.3	2439.4	1904.3	1353.0	882.0	551.7	411.9	363.9	349.6	345.5	345.5
17.5°	2588.2	2305.4	1667.2	1036.2	583.5	386.8	341.1	330.3	325.8	325.4	325.8
20°	2494.9	2171.4	1434.1	759.2	407.4	327.6	315.1	309.2	307.9	307.9	307.9
22.5°	2405.8	2037.4	1207.4	542.3	326.7	298.9	292.7	288.6	287.3	286.8	285.9
25°	2320.2	1910.1	986.0	383.2	286.8	273.8	268.5	263.1	259.0	256.8	255.5
27.5°	2249.8	1796.7	779.8	307.4	259.0	247.8	241.1	233.0	223.2	218.7	216.9
30°	2193.8	1693.2	601.0	259.5	233.0	221.8	211.5	197.6	183.3	175.7	175.2
32.5°	2149.9	1591.4	456.2	229.5	209.7	195.8	181.1	163.6	147.0	138.5	138.0
35°	2128.3	1501.8	348.7	207.5	189.1	171.6	153.3	134.0	117.9	109.8	108.9
37.5°	2142.7	1426.1	272.0	189.1	171.6	151.5	130.0	109.8	95.5	88.3	87.8
40°	2195.1	1377.7	220.9	173.4	156.9	132.2	108.9	90.1	78.0	72.2	71.7
42.5°	2306.7	1359.7	188.7	160.4	142.5	114.3	90.5	74.4	63.2	59.2	58.3
45°	2493.1	1386.2	166.7	147.9	127.7	97.3	74.8	61.0	51.1	48.0	47.5
47.5°	2741.4	1455.6	151.0	135.8	114.3	82.0	62.3	49.3	41.7	38.5	38.1
50°	3061.4	1565.9	138.0	123.7	101.7	69.5	51.5	39.0	32.3	30.0	30.0
52.5°	3409.6	1697.2	126.4	112.5	89.2	57.8	41.7	30.0	25.5	22.9	22.9
55°	3697.4	1811.9	113.8	104.0	73.9	48.0	31.8	22.9	18.8	17.5	17.5
57.5°	3984.6	1934.3	99.5	89.2	59.2	39.0	24.2	17.0	13.9	13.0	13.0
60°	4357.1	2084.0	85.6	72.6	46.6	29.6	17.9	12.1	10.3	9.9	9.9
62.5°	4766.7	2171.8	73.1	58.3	36.3	22.0	13.0	8.1	7.6	7.6	7.2
65°	5017.2	2047.7	61.4	46.6	28.2	16.6	8.5	5.8	6.7	6.3	5.4
67.5°	4697.7	1603.1	50.2	36.3	22.0	12.5	5.4	4.0	7.2	5.8	4.5
70°	*3889.6*	*1122.2*	*39.0*	*25.5*	*17.5*	*10.8*	*3.6*	*2.7*	*7.6*	*5.8*	*3.6*
72.5°	2910.8	751.1	30.9	17.0	13.0	9.4	3.1	1.3	6.7	4.9	3.1
75°	1590.5	302.5	24.6	10.8	8.1	6.7	2.2	0.9	4.5	3.6	2.2
77.5°	418.6	79.8	17.9	7.2	4.5	2.7	1.3	0.4	2.2	1.8	0.9
80°	106.7	30.9	11.7	4.9	3.1	1.3	0.0	0.0	0.4	0.0	0.0
82.5°	56.9	13.0	7.2	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.0	8.5	4.0	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.6	2.7	1.3	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

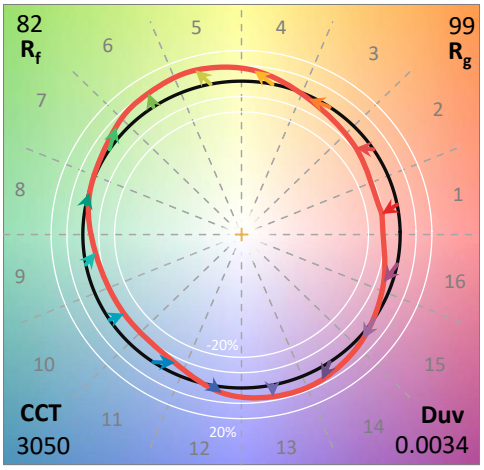
Test Information

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

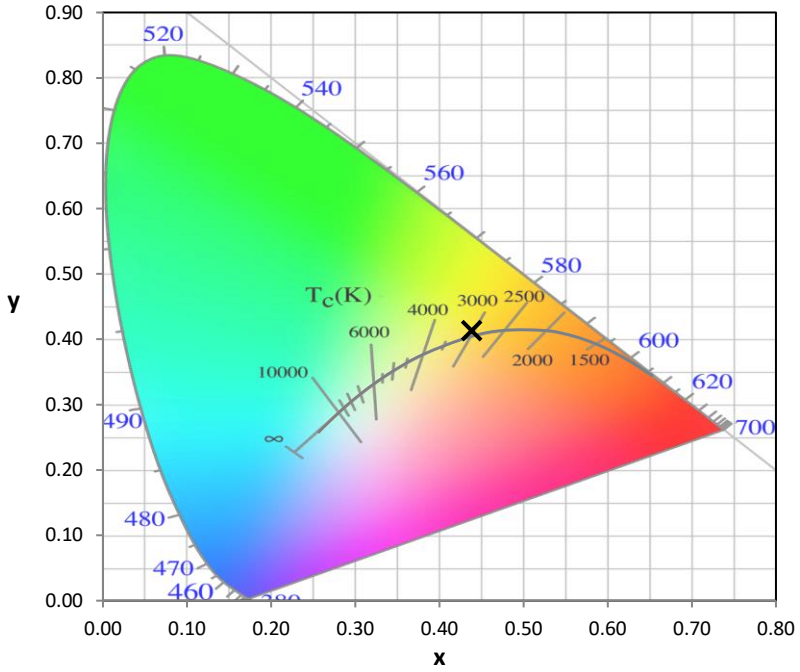
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

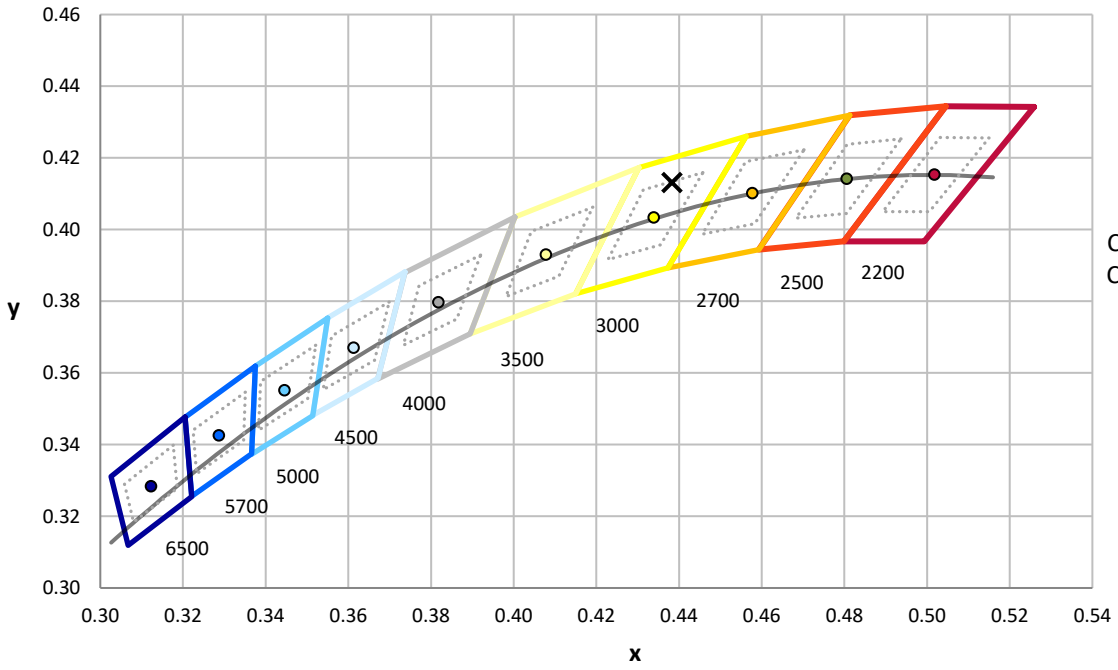
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

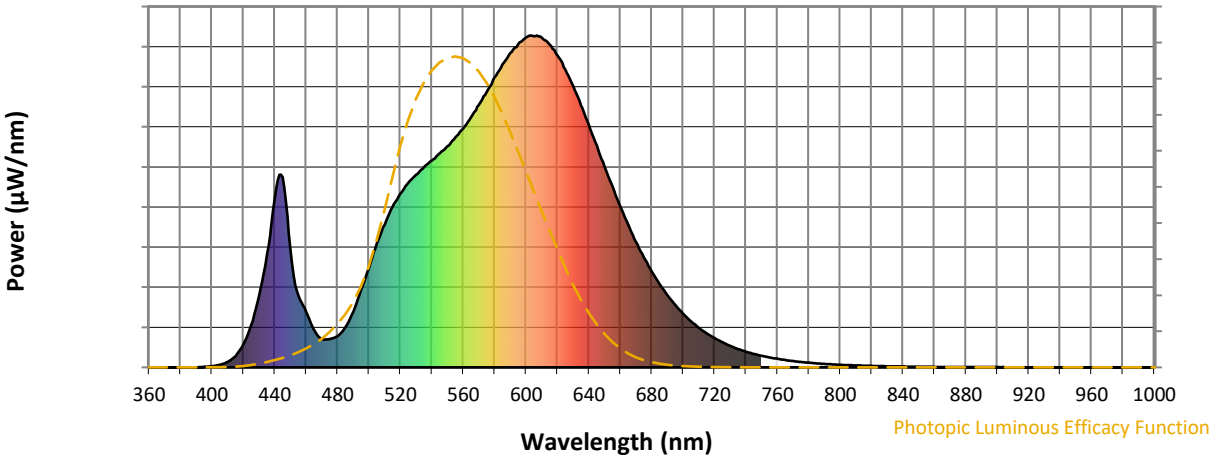


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

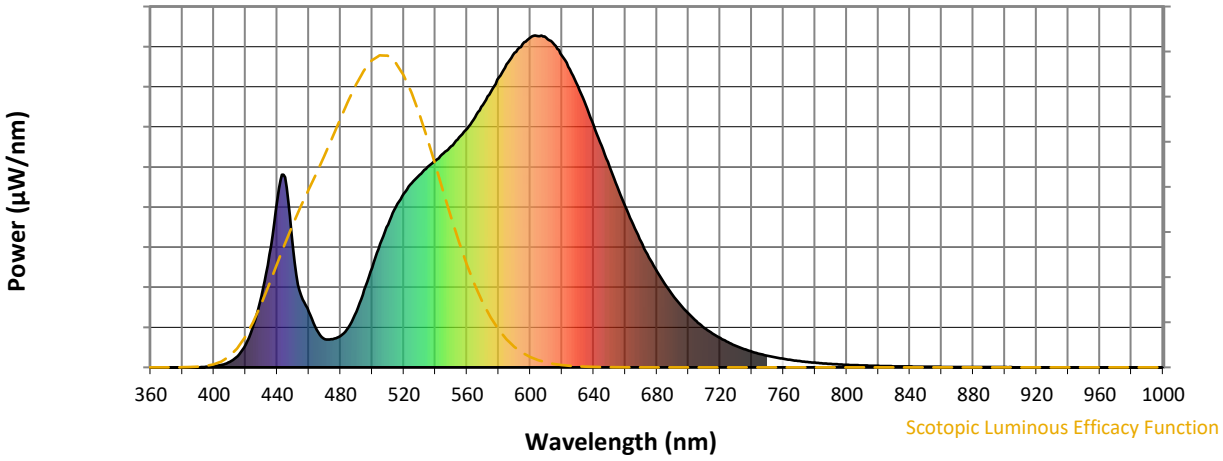


Photopic Lumens: NR

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

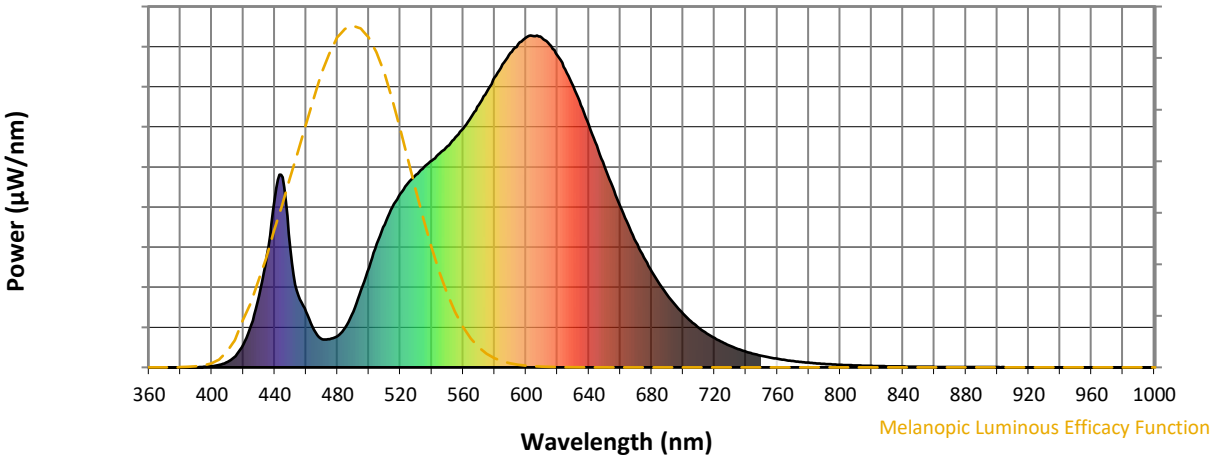


Scotopic Lumens: NR **S/P: 1.27**

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			

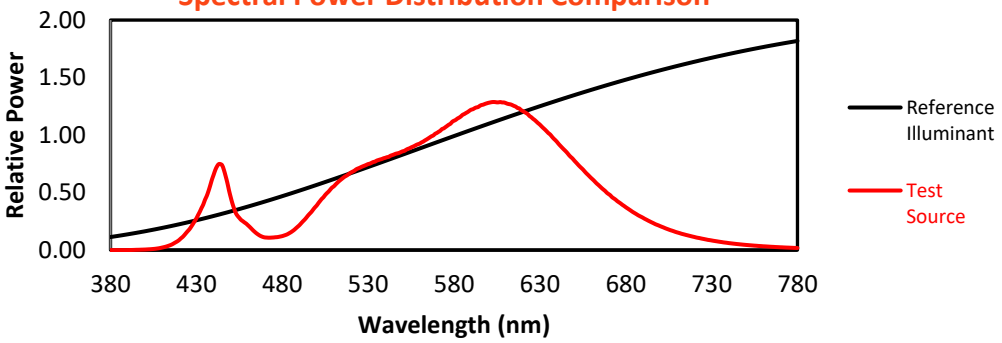
REPORT NUMBER: SP1-2408-195-9

TM-30-18

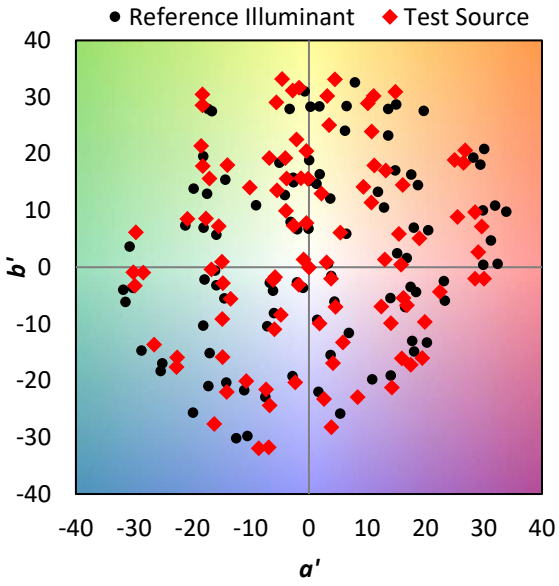
Summary

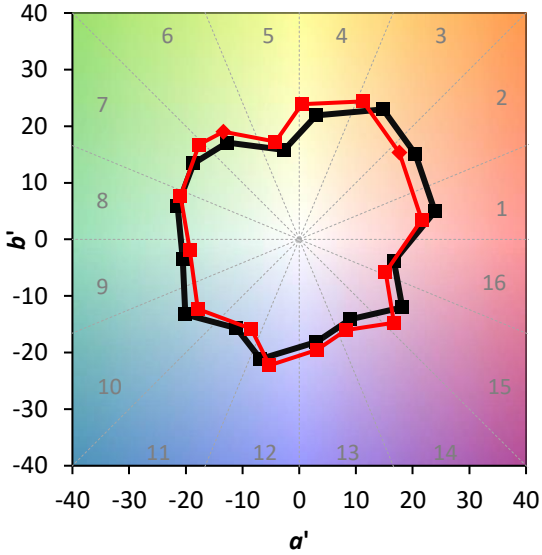
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

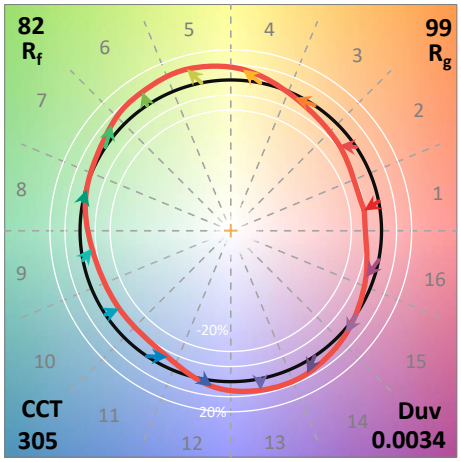
Spectral Power Distribution Comparison

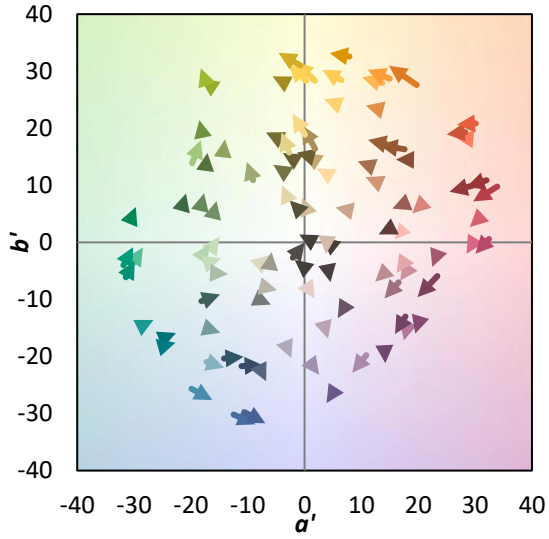


Color Vector Graphics







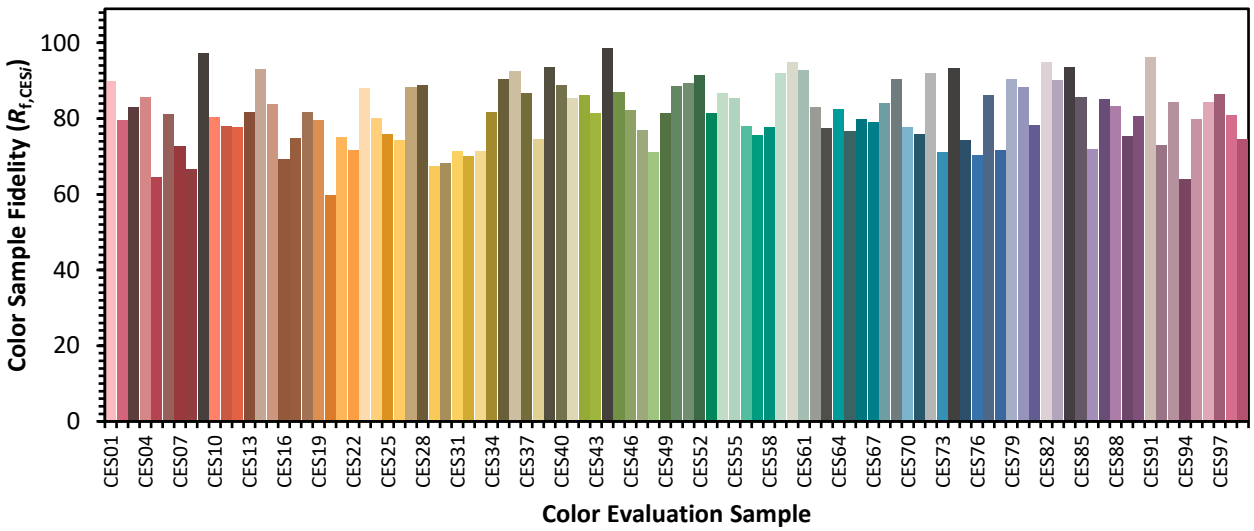


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

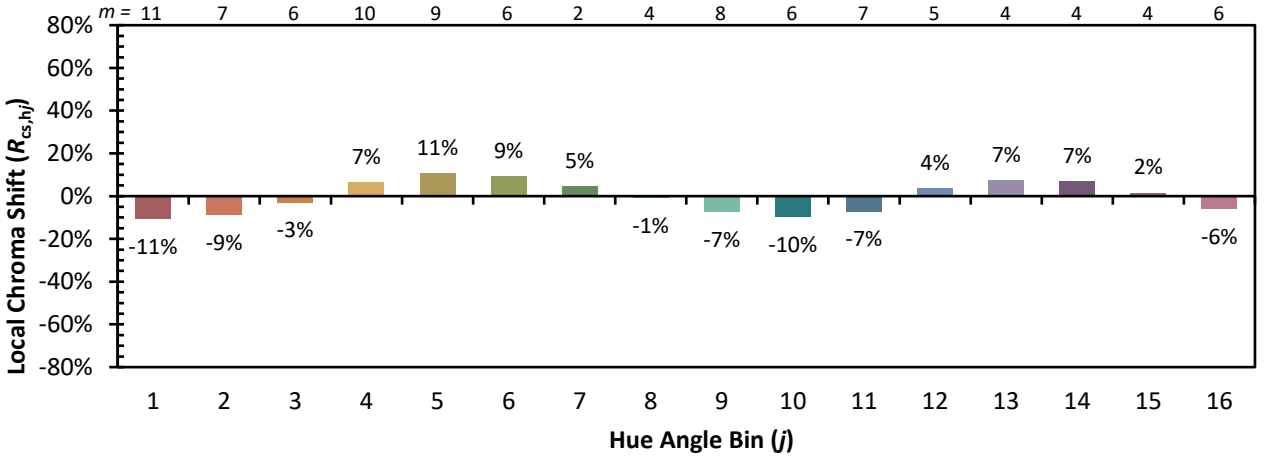
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

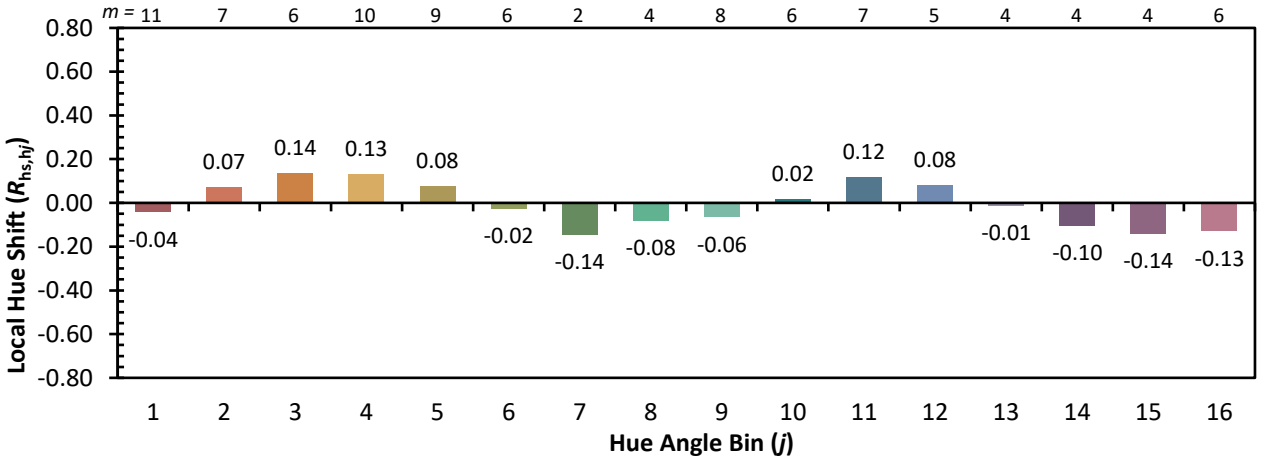


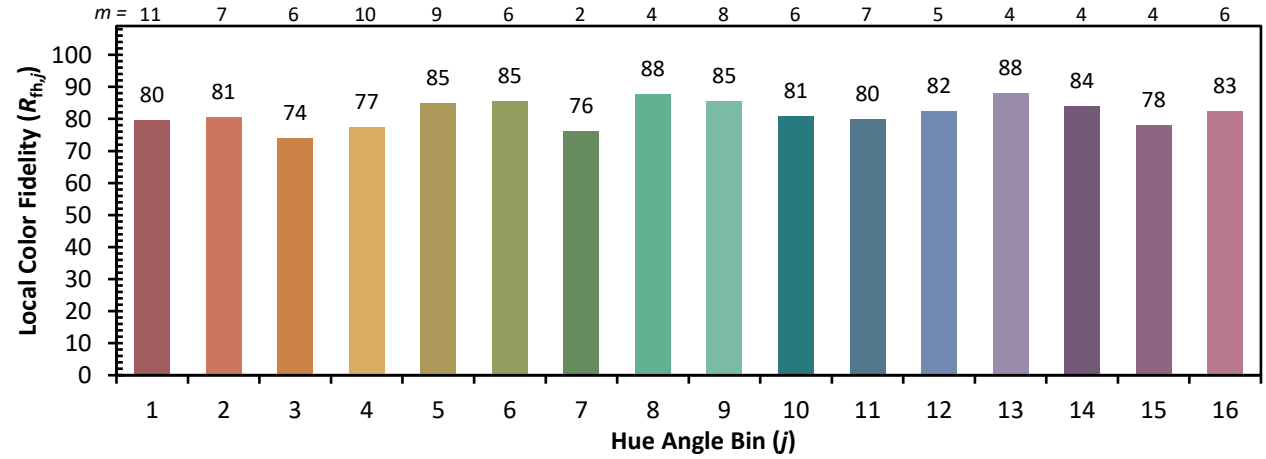
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



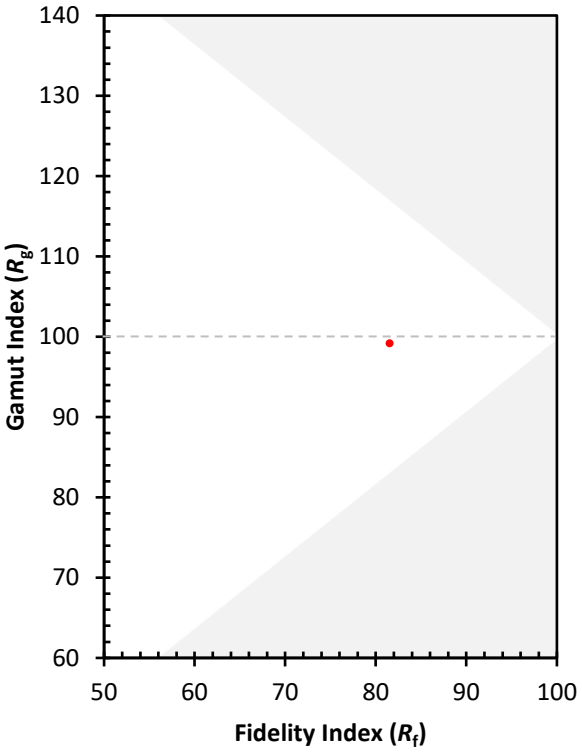


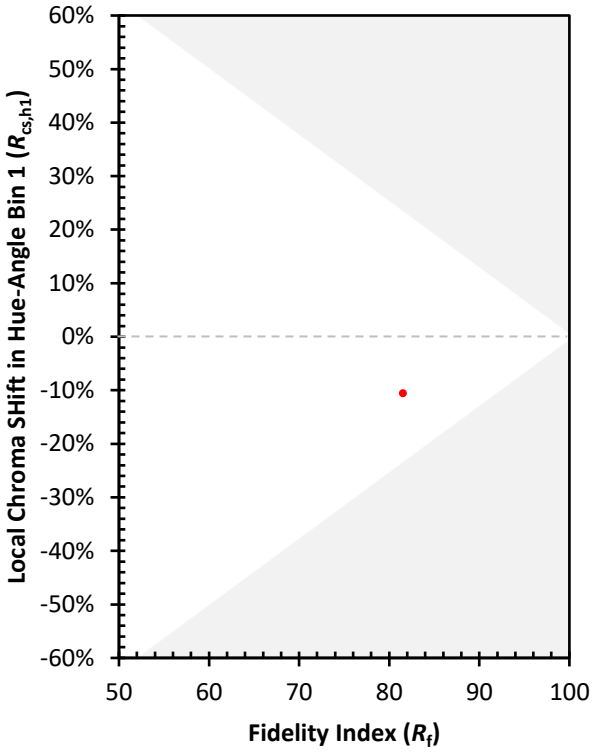


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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