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

Scaled data based on original data using

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P639972

Luminaire Tested: GWS-SA5C-830-U-T1-W

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

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

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P639972
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5C-830-U-T1-W
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	18881.8 lumens
Efficiency:	N/A
Efficacy:	119.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type I - Medium
BUG Rating:	B4 - U0 - G4

Input Watts (W):	157.5
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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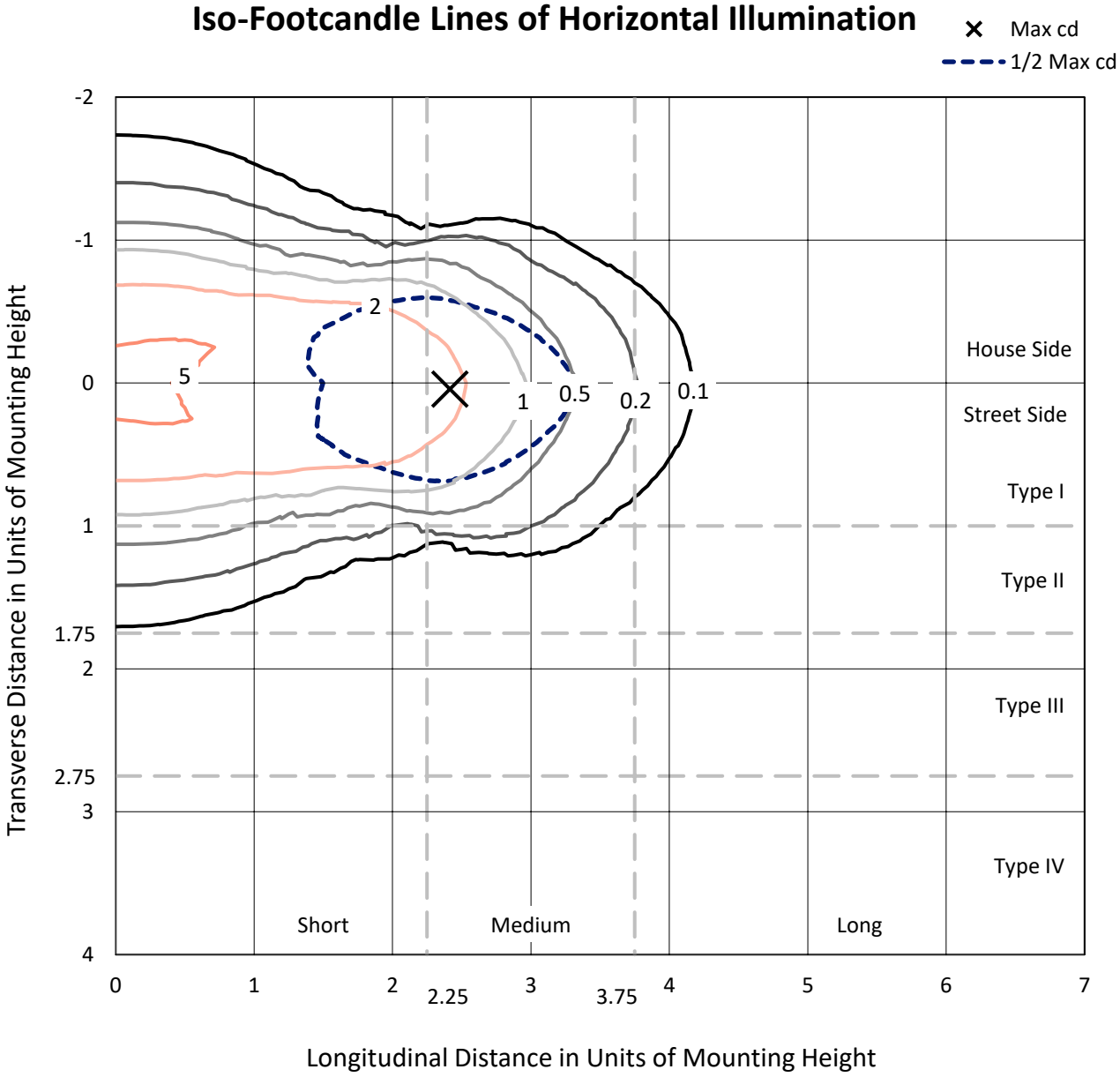
Scaled Data Report

REPORT NUMBER: P639972
CATALOG NUMBER: GWS-SA5C-830-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type I - Medium - N/A

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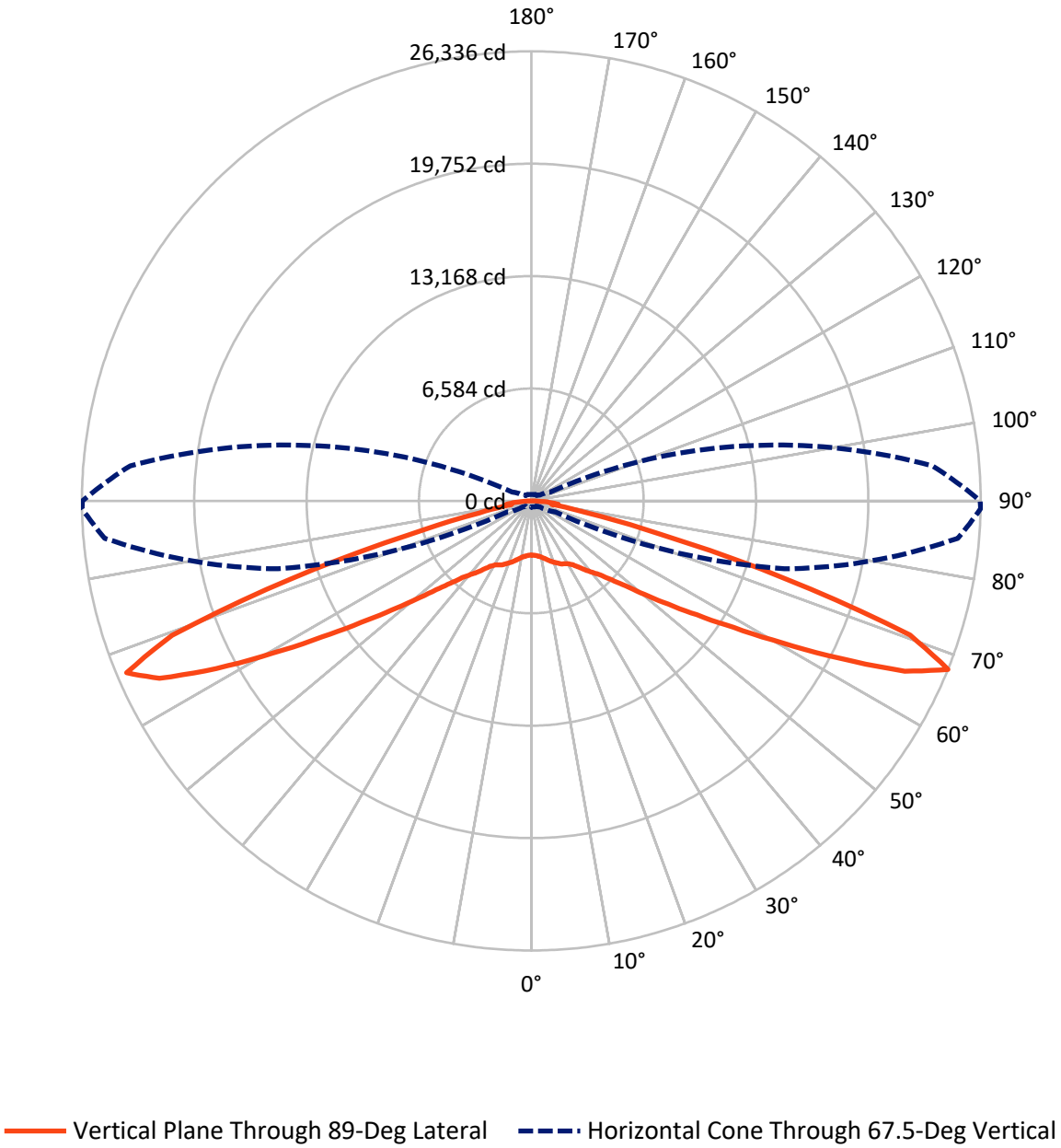
Luminous Intensity Polar Plot



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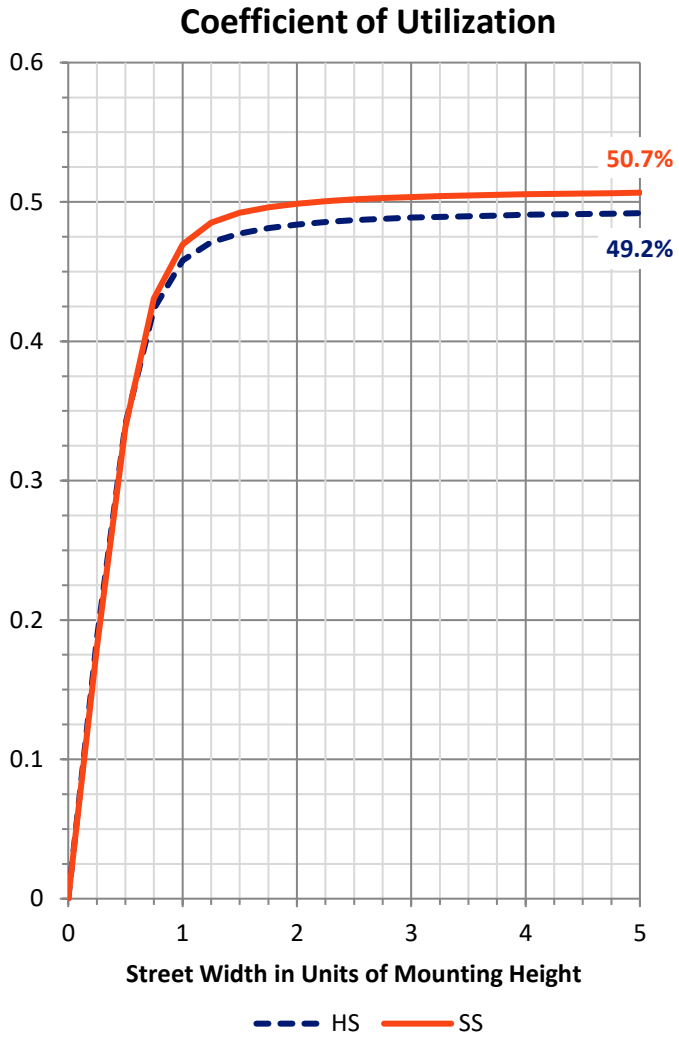
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9358.2	0.0	9358.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	9523.6	0.0	9523.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	18881.8	0.0	18881.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.9	1.7
10°-20°	1035.1	5.5
20°-30°	1749.8	9.3
30°-40°	2401.4	12.7
40°-50°	3062.3	16.2
50°-60°	3842.1	20.3
60°-70°	4633.9	24.5
70°-80°	1676.4	8.9
80°-90°	163.0	0.9
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°	18881.8	100.0
0°-180°	18881.8	100.0



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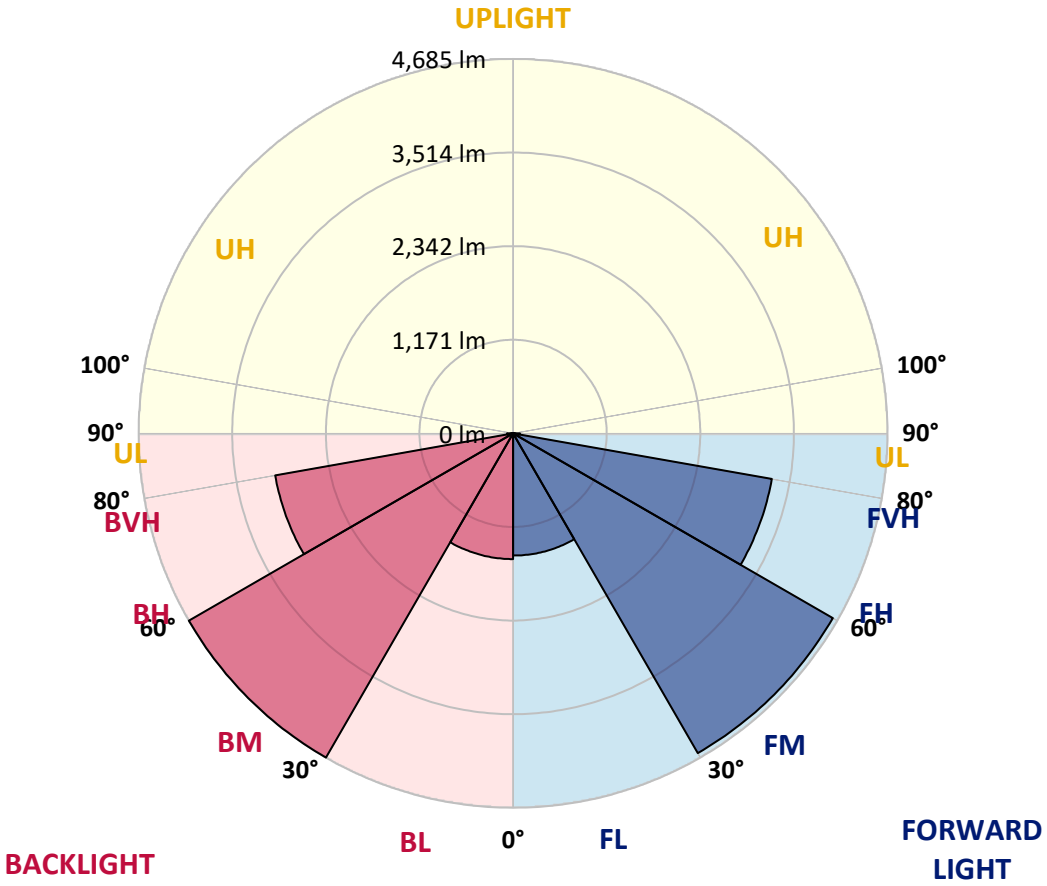
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1529.3	8.1			
FM	(30°-60°)	4620.7	24.5			
FH	(60°-80°)	3287.6	17.4			G2/5000
FVH	(80°-90°)	86.0	0.5			G1/100
BL	(0°-30°)	1573.5	8.3	B3/2500		
BM	(30°-60°)	4685.0	24.8	B3/5000		
BH	(60°-80°)	3022.7	16.0	B4/5000		G4/5000
BVH	(80°-90°)	77.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
Type I Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	*3169.2*
2.5°	3178.7	3175.9	3169.2	3189.5	3185.4	3186.8	3194.9	3189.5	3180.0	3163.7	*3186.8*
5°	3268.2	3266.8	3251.9	3264.1	3250.5	3241.0	3239.7	3226.1	3215.3	3197.6	*3222.0*
7.5°	3354.9	3353.6	3341.4	3363.1	3352.2	3341.4	3329.2	3302.1	3276.3	3250.5	*3277.6*
10°	3421.4	3420.0	3417.3	3448.5	3451.2	3455.3	3449.9	3403.8	3359.0	3327.8	*3354.9*
12.5°	3459.4	3463.4	3470.2	3527.2	3555.6	3582.8	3589.5	3551.6	3477.0	3432.2	*3464.8*
15°	3433.6	3441.7	3475.6	3578.7	3657.3	3718.4	3744.1	3712.9	3616.7	3542.1	*3578.7*
17.5°	3310.2	3317.0	3383.4	3540.7	3714.3	3855.3	3897.4	3878.4	3771.3	3680.4	*3715.7*
20°	3139.3	3154.2	3226.1	3445.8	3704.8	3950.3	4062.8	4056.0	3939.4	3799.7	*3841.8*
22.5°	2984.7	3002.4	3078.3	3321.0	3641.1	3974.7	4229.6	4247.2	4092.6	3919.1	*3953.0*
25°	2811.2	2827.4	2925.1	3173.2	3531.2	3955.7	4372.0	4452.0	4266.2	4056.0	*4087.2*
27.5°	2633.5	2645.7	2742.0	3006.4	3387.5	3920.4	4484.6	4677.1	4437.1	4151.0	*4172.7*
30°	2477.6	2493.8	2582.0	2839.6	3230.2	3849.9	4576.8	4917.1	4633.7	4258.1	*4275.7*
32.5°	2327.0	2340.6	2436.9	2675.5	3063.4	3741.4	4659.5	5199.2	4925.3	4457.4	*4457.4*
35°	2137.2	2161.6	2270.1	2518.2	2906.1	3597.7	4719.2	5527.4	5324.0	4751.7	*4753.1*
37.5°	1962.2	1975.8	2089.7	2340.6	2740.6	3434.9	4724.6	5867.8	5828.4	5126.0	*5128.7*
40°	1762.9	1780.5	1902.6	2150.7	2550.8	3264.1	4673.1	6185.1	6357.3	5511.1	*5496.2*
42.5°	1560.8	1586.6	1703.2	1946.0	2346.0	3055.2	4536.1	6487.5	7028.6	5957.3	*5920.6*
45°	1365.6	1381.8	1498.5	1727.6	2111.4	2805.7	4316.4	6777.7	7825.9	6635.3	*6582.4*
47.5°	1145.9	1152.7	1273.4	1493.0	1868.7	2527.7	4001.8	7036.7	8702.0	7533.0	*7442.2*
50°	950.6	960.1	1055.0	1243.5	1571.7	2198.2	3609.9	7188.6	9818.0	8757.6	*8600.3*
52.5°	768.9	778.4	854.3	1004.9	1299.1	1822.6	3124.4	7153.3	10950.3	10277.7	*10048.5*
55°	621.1	627.9	679.4	797.4	1022.5	1449.6	2550.8	6837.4	12207.4	12263.0	*11769.4*
57.5°	524.8	527.5	562.8	634.6	798.7	1117.4	1969.0	6091.5	13525.5	14796.2	*13985.2*
60°	469.2	470.6	486.8	531.6	630.6	853.0	1442.9	4903.6	14891.1	17965.3	*16853.4*
62.5°	433.9	433.9	447.5	473.3	523.4	656.3	1060.5	3521.7	15871.6	21413.9	*20308.6*
65°	400.0	400.0	409.5	431.2	458.4	535.7	796.0	2271.4	16353.0	24296.9	*24051.4*
67.5°	*356.6*	*358.0*	*364.8*	*387.8*	*412.2*	*447.5*	*603.5*	*1536.4*	*15353.5*	*25094.3*	*26336.4*
70°	316.0	317.3	326.8	341.7	362.1	386.5	471.9	1059.1	11175.5	20899.9	*23548.3*
72.5°	271.2	276.6	283.4	299.7	311.9	329.5	385.1	686.2	6502.4	13444.2	*15566.4*
75°	222.4	229.2	237.3	253.6	261.7	268.5	317.3	489.5	3128.5	6812.9	*7758.1*
77.5°	172.2	179.0	188.5	203.4	208.8	217.0	242.7	353.9	1498.5	3020.0	*3255.9*
80°	115.3	118.0	126.1	143.7	153.2	158.7	179.0	241.4	650.9	1212.3	*1201.5*
82.5°	70.5	71.9	74.6	85.4	89.5	94.9	116.6	147.8	310.5	1377.8	*1579.8*
85°	25.8	24.4	23.1	29.8	35.3	40.7	54.2	74.6	135.6	946.5	*1059.1*
87.5°	0.0	0.0	0.0	1.4	2.7	2.7	5.4	10.8	32.5	353.9	*242.7*
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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Scaled Data Report

REPORT NUMBER: P639972
CATALOG NUMBER: GWS-SA5C-830-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2	3169.2
2.5°	3180.0	3165.1	3184.1	3197.6	3227.5	3238.3	3241.0	3231.5	3231.5	3215.3	3218.0
5°	3216.6	3207.1	3238.3	3261.4	3304.8	3321.0	3331.9	3325.1	3329.2	3318.3	3321.0
7.5°	3272.2	3264.1	3318.3	3363.1	3407.8	3426.8	3436.3	3430.9	3432.2	3418.7	3422.7
10°	3349.5	3352.2	3417.3	3475.6	3535.3	3554.3	3558.4	3542.1	3528.5	3504.1	3505.5
12.5°	3455.3	3468.9	3561.1	3626.2	3687.2	3714.3	3684.5	3624.8	3569.2	3527.2	3521.7
15°	3570.6	3595.0	3727.9	3810.6	3877.0	3863.5	3775.3	3641.1	3531.2	3468.9	3456.6
17.5°	3708.9	3745.5	3912.3	4011.3	4068.2	3981.4	3797.0	3596.3	3443.1	3359.0	3342.7
20°	3839.1	3897.4	4107.6	4236.4	4243.2	4047.9	3787.5	3505.5	3312.9	3209.8	3188.1
22.5°	3958.4	4033.0	4312.3	4476.4	4388.3	4077.7	3729.2	3376.6	3155.6	3034.9	3015.9
25°	4088.6	4194.4	4551.0	4704.2	4533.4	4065.5	3607.2	3216.6	2965.7	2842.3	2828.8
27.5°	4178.1	4311.0	4791.0	4937.5	4652.7	3996.4	3449.9	3041.7	2792.2	2675.5	2656.6
30°	4281.1	4450.7	5055.5	5191.1	4725.9	3894.7	3281.7	2879.0	2630.8	2504.7	2491.1
32.5°	4468.3	4681.2	5383.6	5459.6	4749.0	3768.5	3120.3	2721.7	2462.6	2336.5	2317.5
35°	4769.3	5018.9	5844.7	5759.3	4731.4	3630.2	2967.1	2537.2	2290.4	2172.4	2153.5
37.5°	5149.0	5459.6	6358.7	6029.1	4682.5	3478.3	2785.4	2382.6	2135.8	2016.5	2005.6
40°	5503.0	5885.4	6935.0	6262.4	4583.5	3291.2	2610.5	2221.3	1969.0	1842.9	1818.5
42.5°	5946.4	6454.9	7602.2	6464.4	4420.8	3067.5	2413.8	2021.9	1760.2	1646.3	1616.4
45°	6620.4	7252.3	8377.9	6658.4	4178.1	2792.2	2167.0	1779.2	1531.0	1414.4	1391.3
47.5°	7461.1	8249.0	9218.6	6773.6	3809.2	2502.0	1887.7	1522.9	1274.7	1143.2	1132.3
50°	8642.3	9698.7	10120.4	6753.3	3397.0	2157.5	1573.1	1217.8	1010.3	915.4	900.4
52.5°	10081.1	11518.5	11095.4	6509.2	2959.0	1765.6	1225.9	956.0	801.4	733.6	721.4
55°	11886.0	13697.8	12122.0	5985.7	2405.7	1352.0	962.8	754.0	648.2	607.5	602.1
57.5°	14120.9	16519.8	13110.6	5104.3	1809.0	1032.0	741.8	622.4	572.3	547.9	546.5
60°	17070.3	19515.3	13969.0	3966.5	1295.1	789.2	612.9	556.0	516.7	500.4	499.0
62.5°	20577.2	22235.6	14503.3	2701.3	973.7	629.2	539.7	504.5	481.4	471.9	470.6
65°	24181.6	23955.1	14248.3	1769.7	739.1	534.3	484.1	465.1	444.8	435.3	435.3
67.5°	*26310.7*	*23591.7*	*12291.5*	*1228.6*	*585.8*	*469.2*	*436.7*	*419.0*	*385.1*	*377.0*	*377.0*
70°	23304.2	19116.7	8056.5	899.1	474.6	410.9	379.7	355.3	341.7	333.6	332.2
72.5°	15413.2	12439.3	4283.9	623.8	396.0	349.9	321.4	311.9	295.6	287.5	286.1
75°	7671.3	6533.6	2195.5	450.2	329.5	280.7	268.5	264.4	250.9	240.0	237.3
77.5°	3197.6	2908.8	1023.8	326.8	250.9	226.5	215.6	215.6	200.7	188.5	183.1
80°	1205.6	1074.0	484.1	223.8	185.8	168.2	161.4	155.9	143.7	128.8	120.7
82.5°	1612.4	1053.7	237.3	139.7	122.0	108.5	99.0	94.9	88.1	81.4	75.9
85°	1044.2	748.6	107.1	71.9	61.0	46.1	40.7	38.0	33.9	29.8	27.1
87.5°	212.9	250.9	32.5	13.6	8.1	4.1	4.1	1.4	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

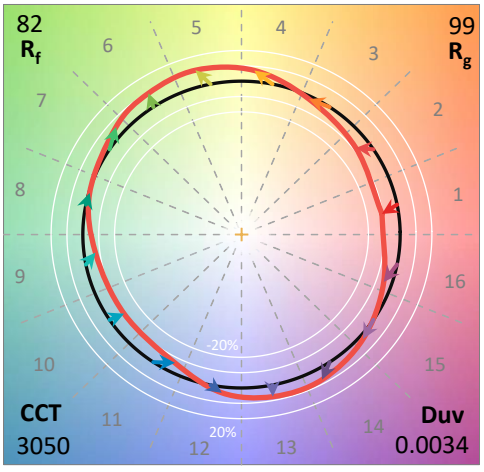
Test Information

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

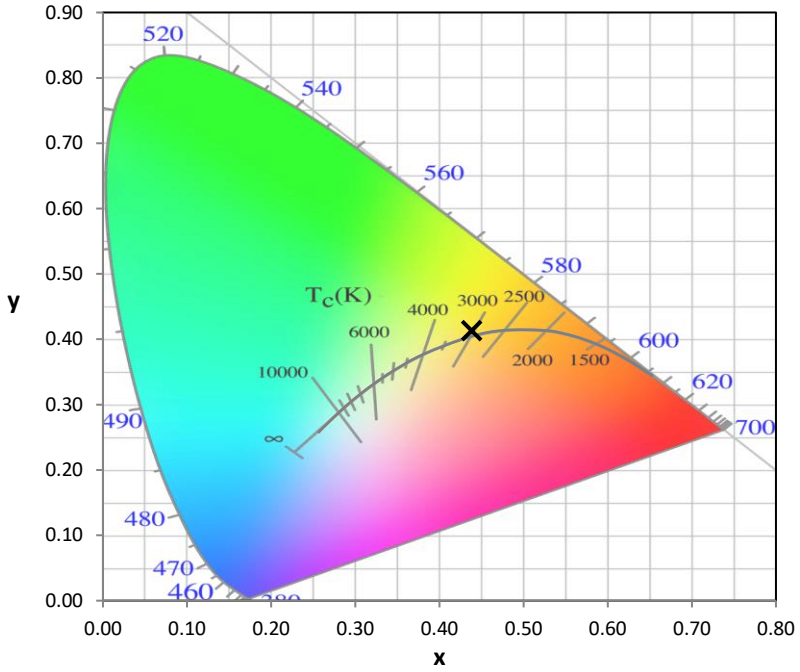
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

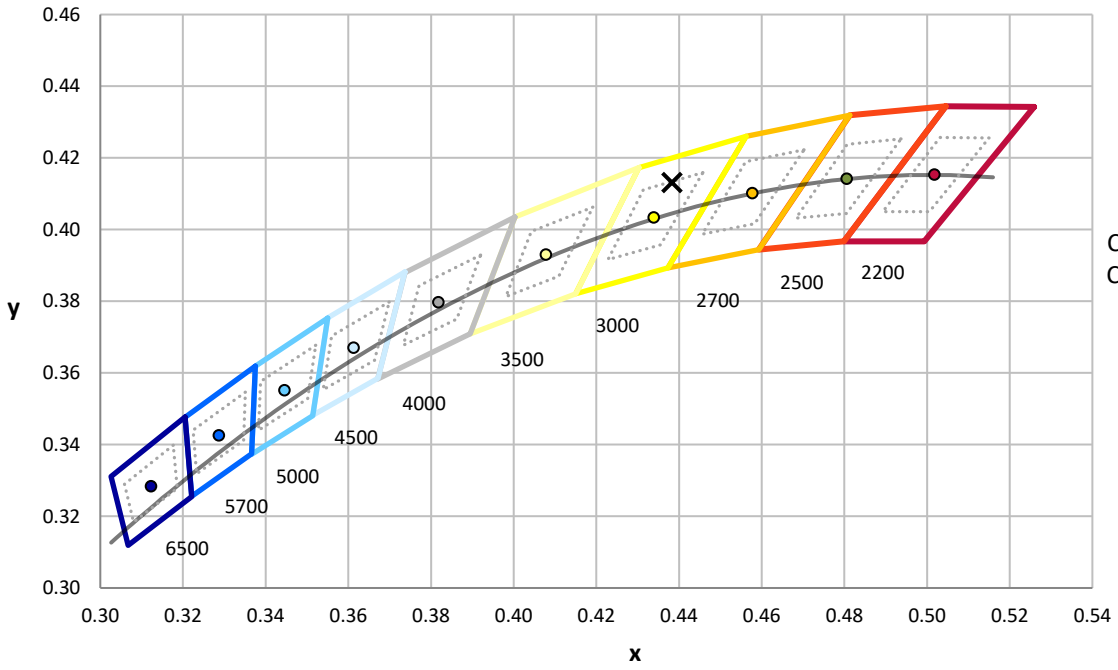
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

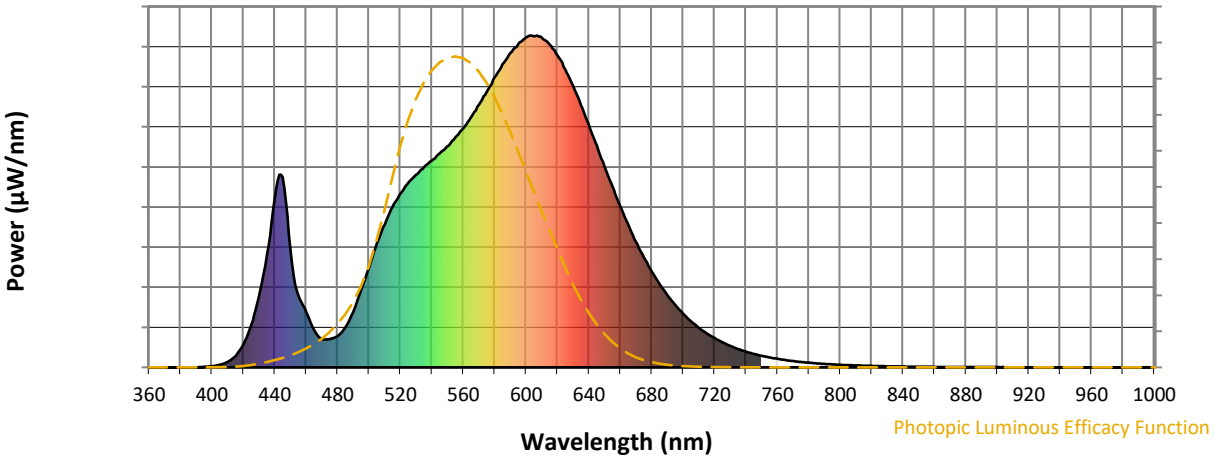


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

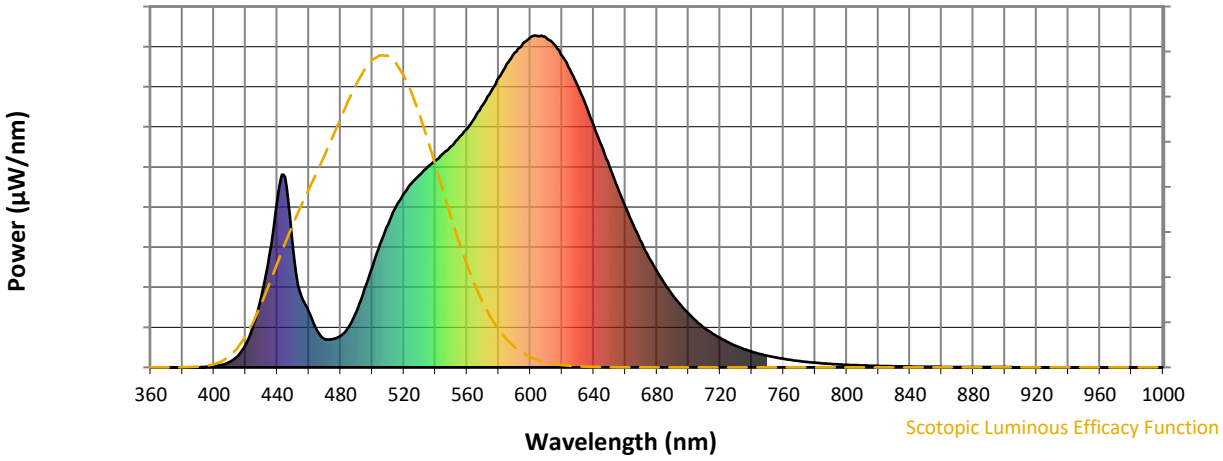


Photopic Lumens: NR

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

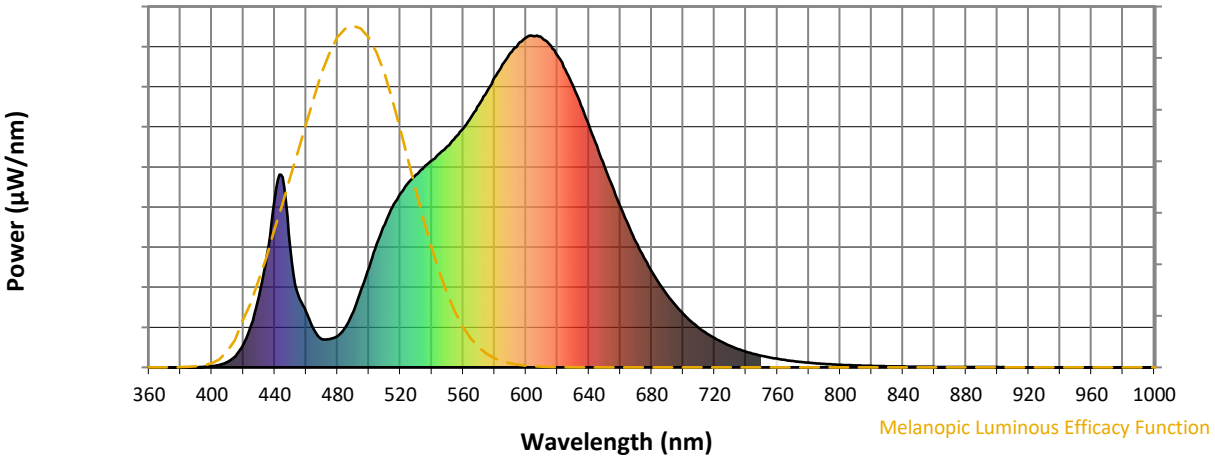


Scotopic Lumens: NR **S/P: 1.27**

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			

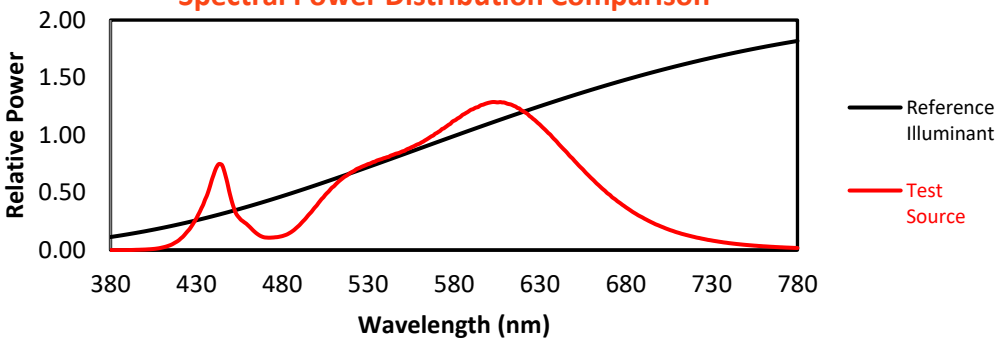
REPORT NUMBER: SP1-2408-195-9

TM-30-18

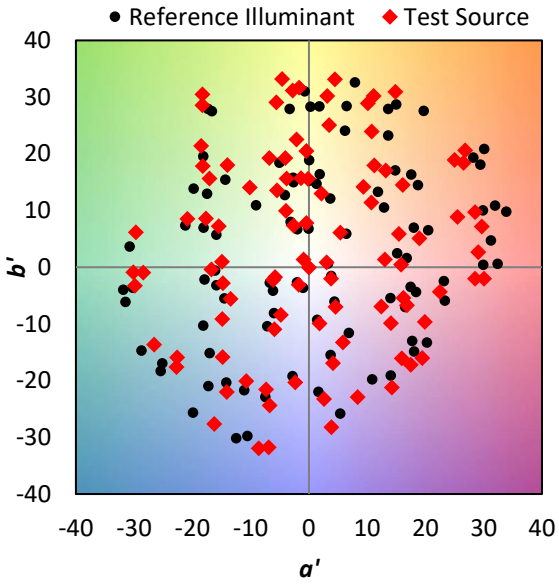
Summary

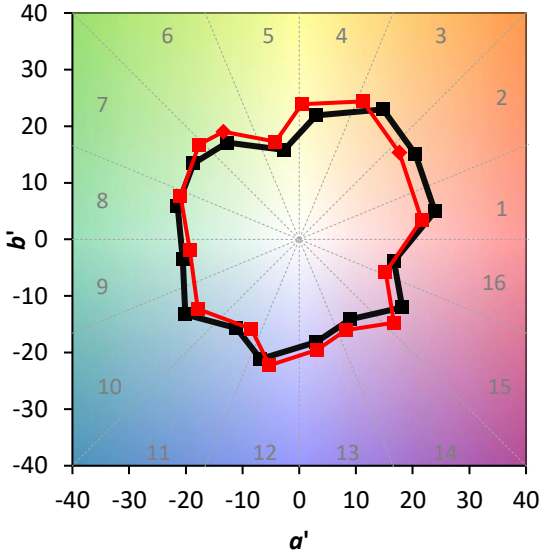
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

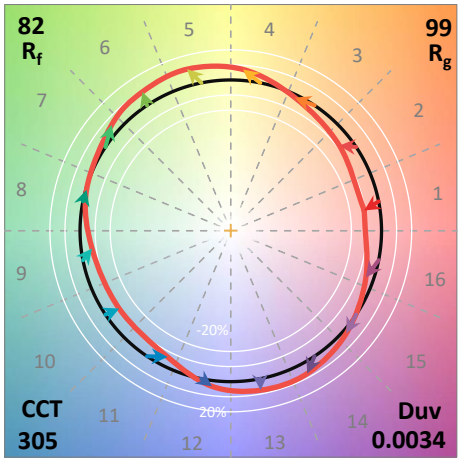
Spectral Power Distribution Comparison

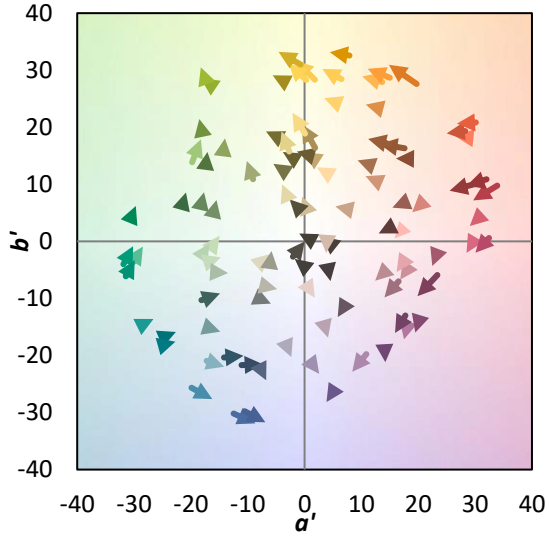


Color Vector Graphics







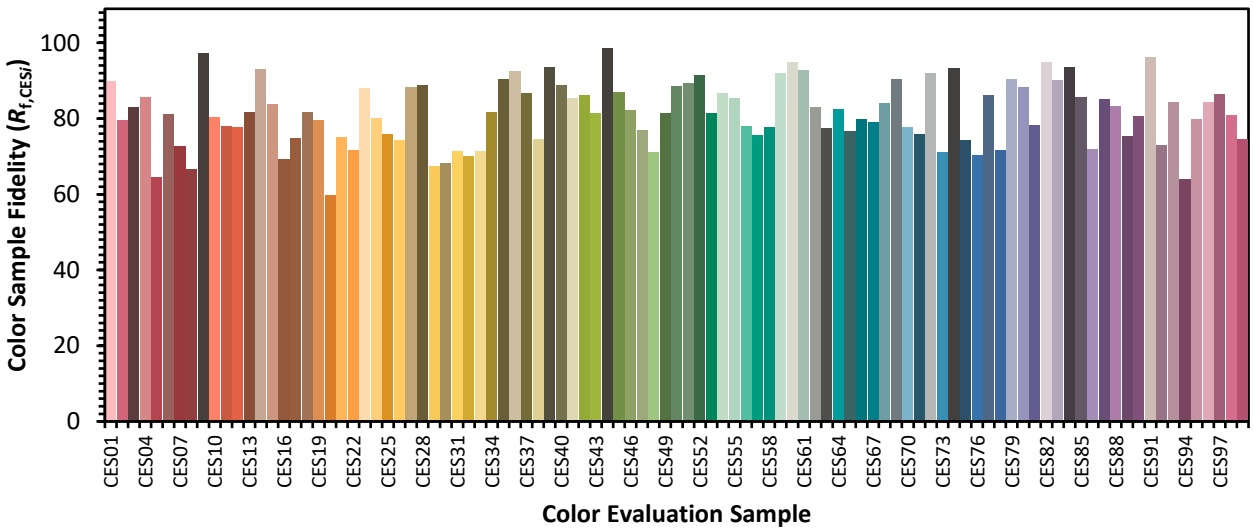


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

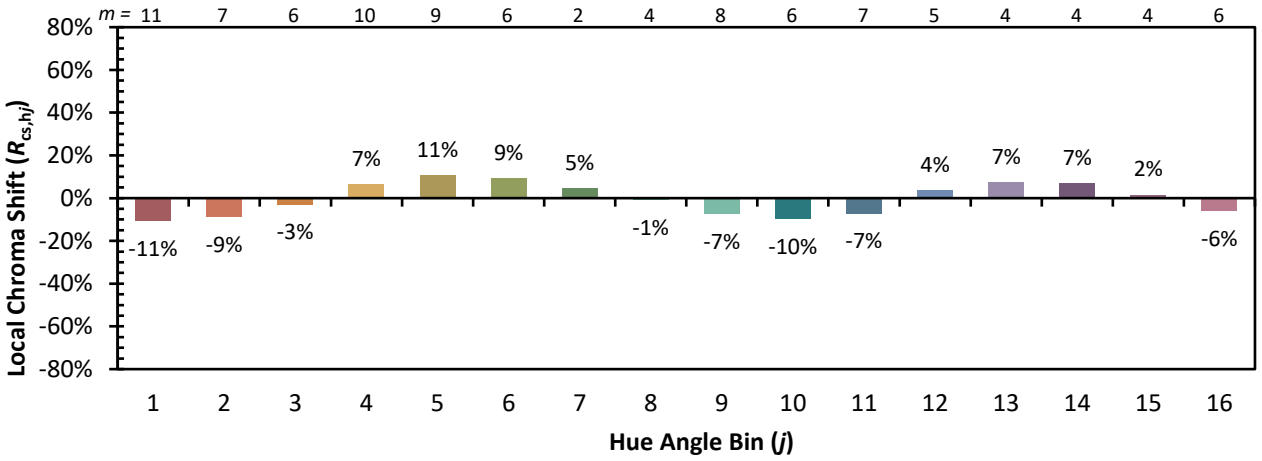
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

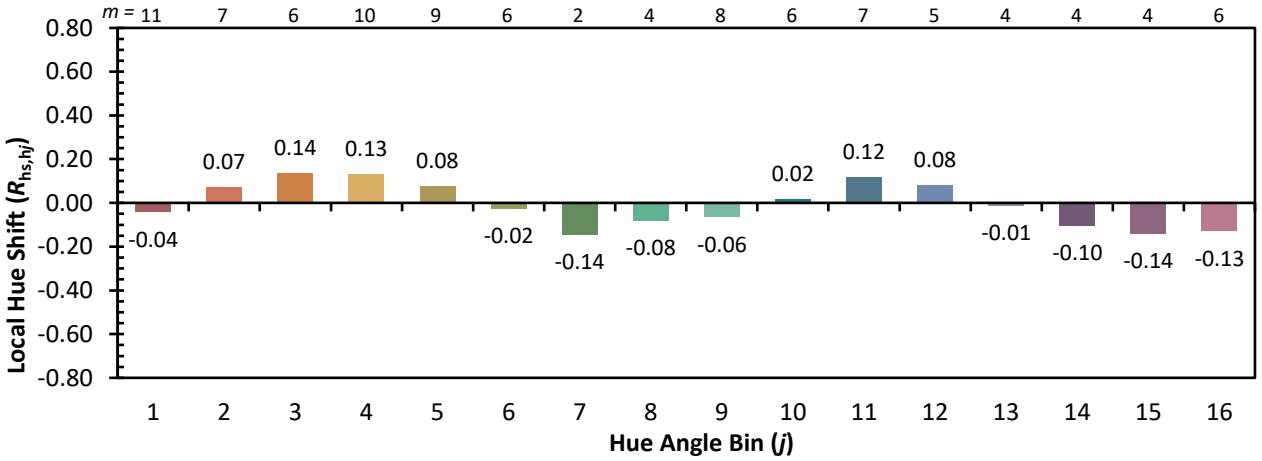


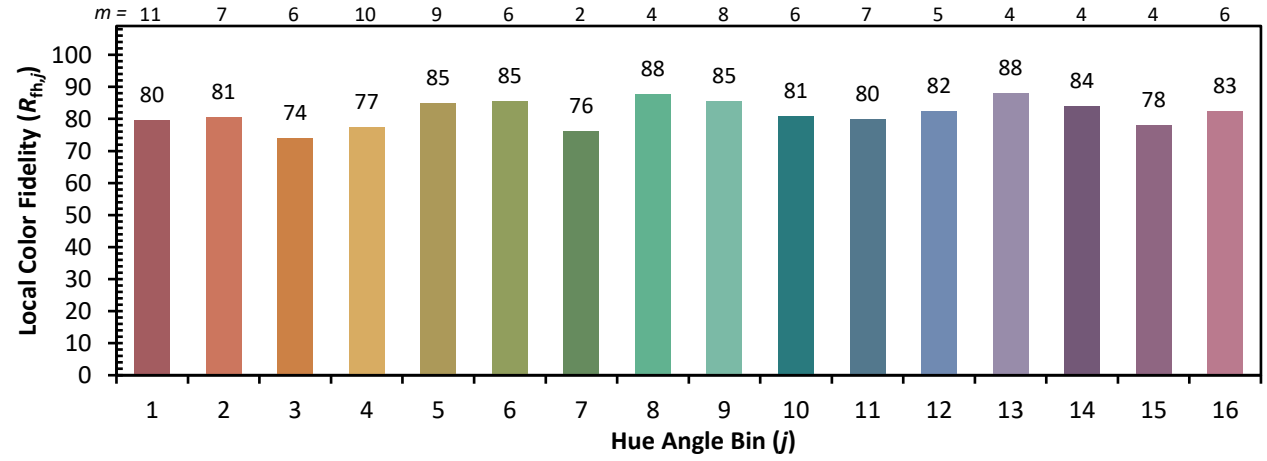
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



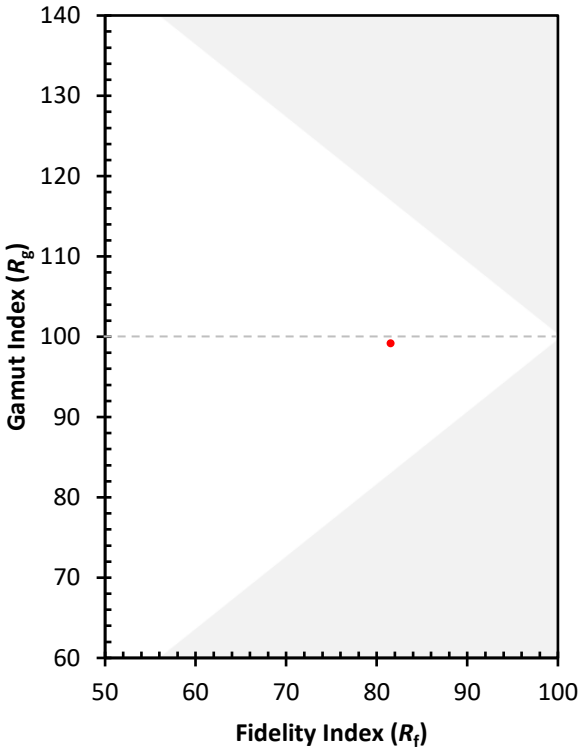


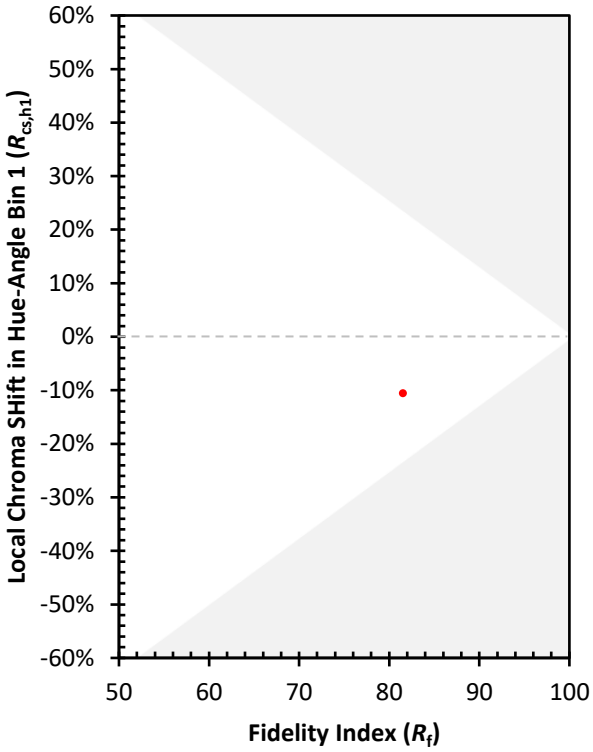


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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