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: P643939

Luminaire Tested: GWS-SA6F-830-U-T2R-W-HSS

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:	P643939
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6F-830-U-T2R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	31885.6 lumens
Efficiency:	N/A
Efficacy:	85.6 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G3

Input Watts (W):	372.6
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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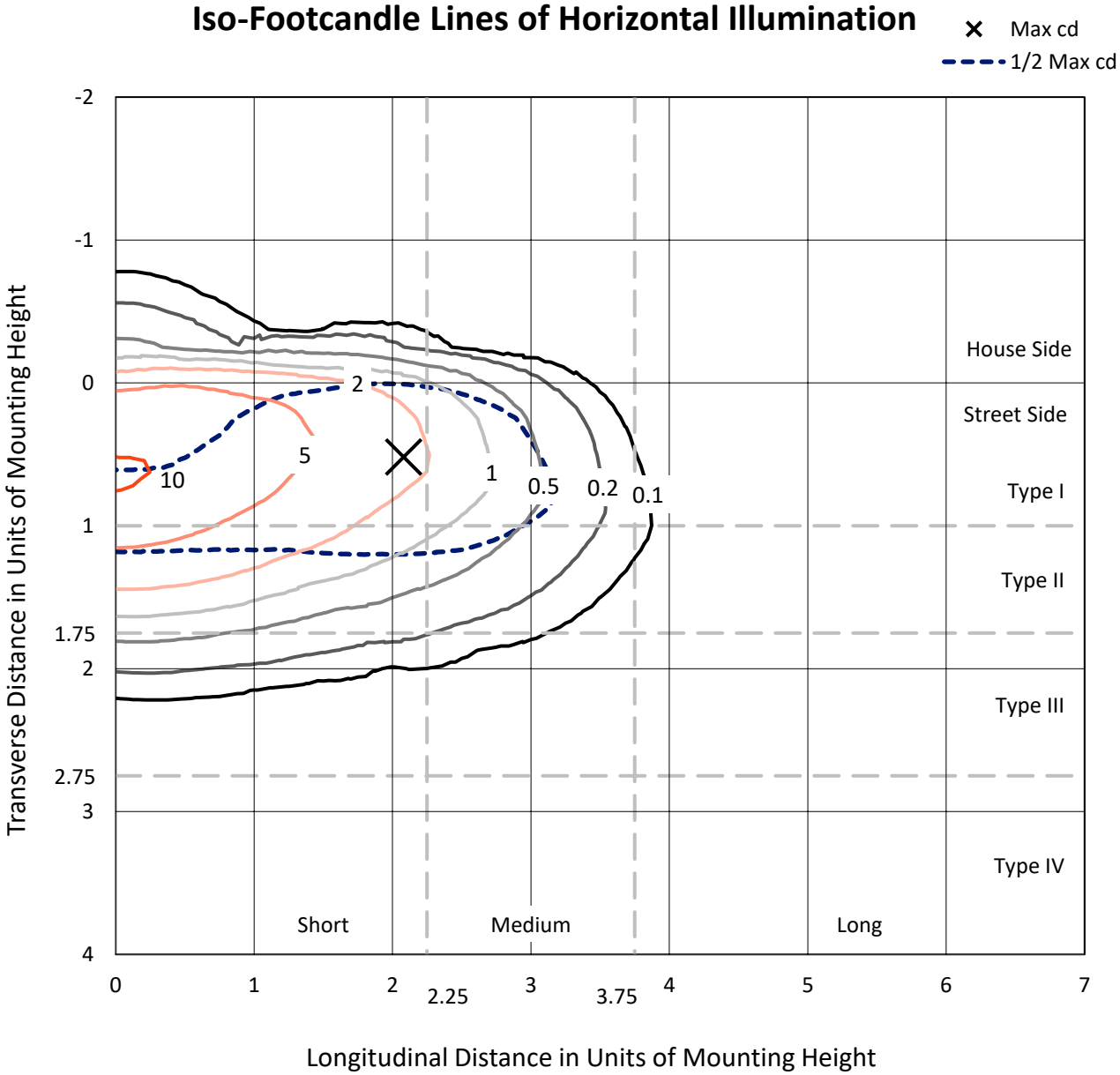
REPORT NUMBER: P643939
CATALOG NUMBER: GWS-SA6F-830-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 30 foot mounting height. Maximum calculated value = 10.6 fc
Type II - Short - N/A

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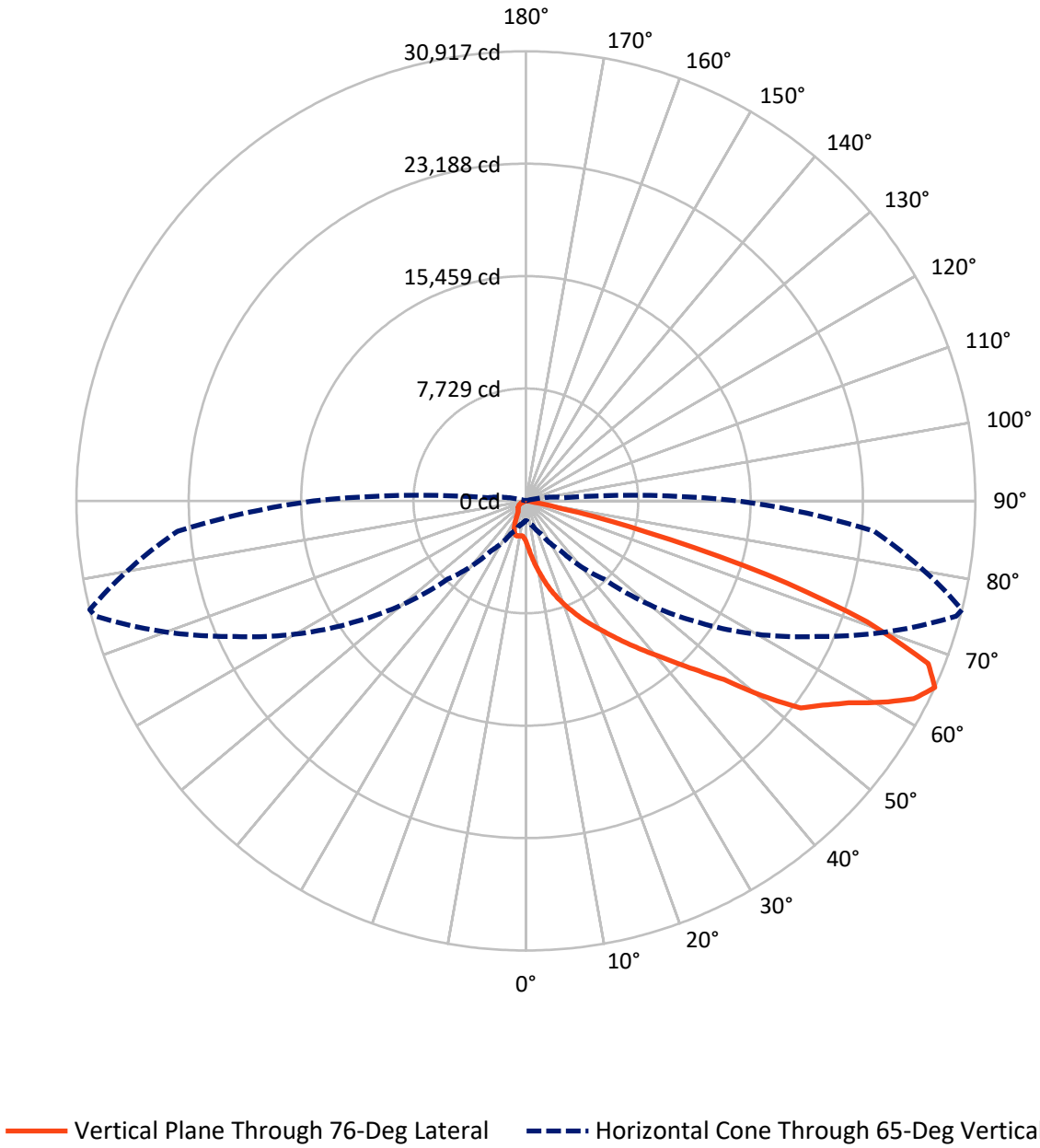
Luminous Intensity Polar Plot



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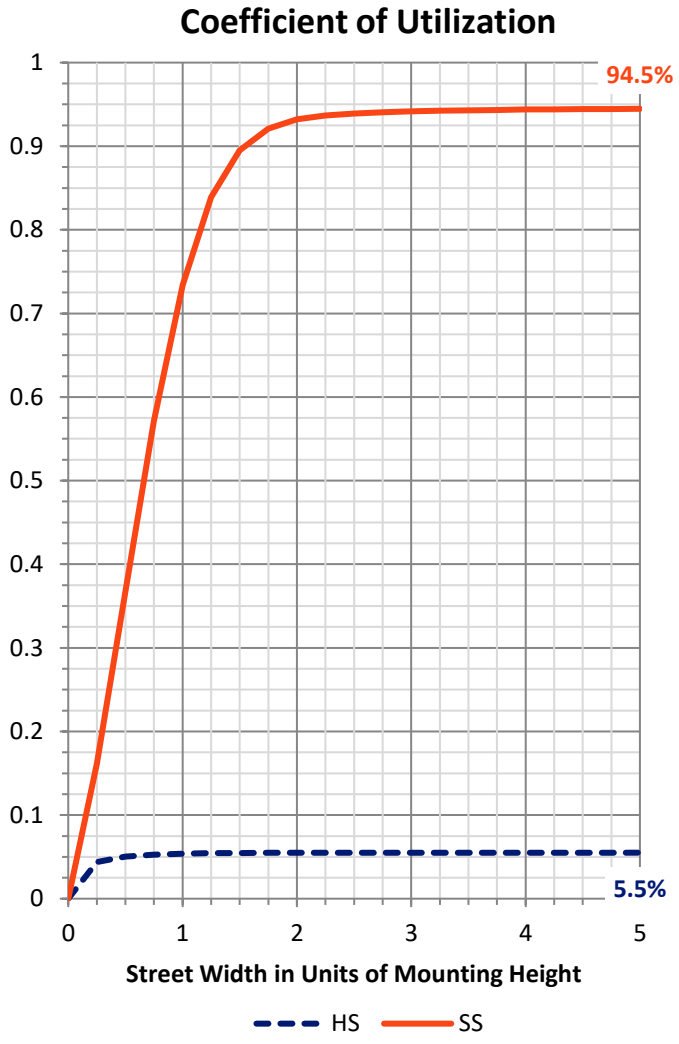
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1763.1	0.0	1763.1
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	30122.5	0.0	30122.5
	% Fixture	94.5	0.0	94.5
Total	Lumens	31885.6	0.0	31885.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.4	1.1
10°-20°	1303.2	4.1
20°-30°	2658.6	8.3
30°-40°	4728.5	14.8
40°-50°	6989.8	21.9
50°-60°	8002.8	25.1
60°-70°	6105.8	19.1
70°-80°	1710.4	5.4
80°-90°	43.0	0.1
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°	31885.6	100.0
0°-180°	31885.6	100.0



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REPORT NUMBER: P643939
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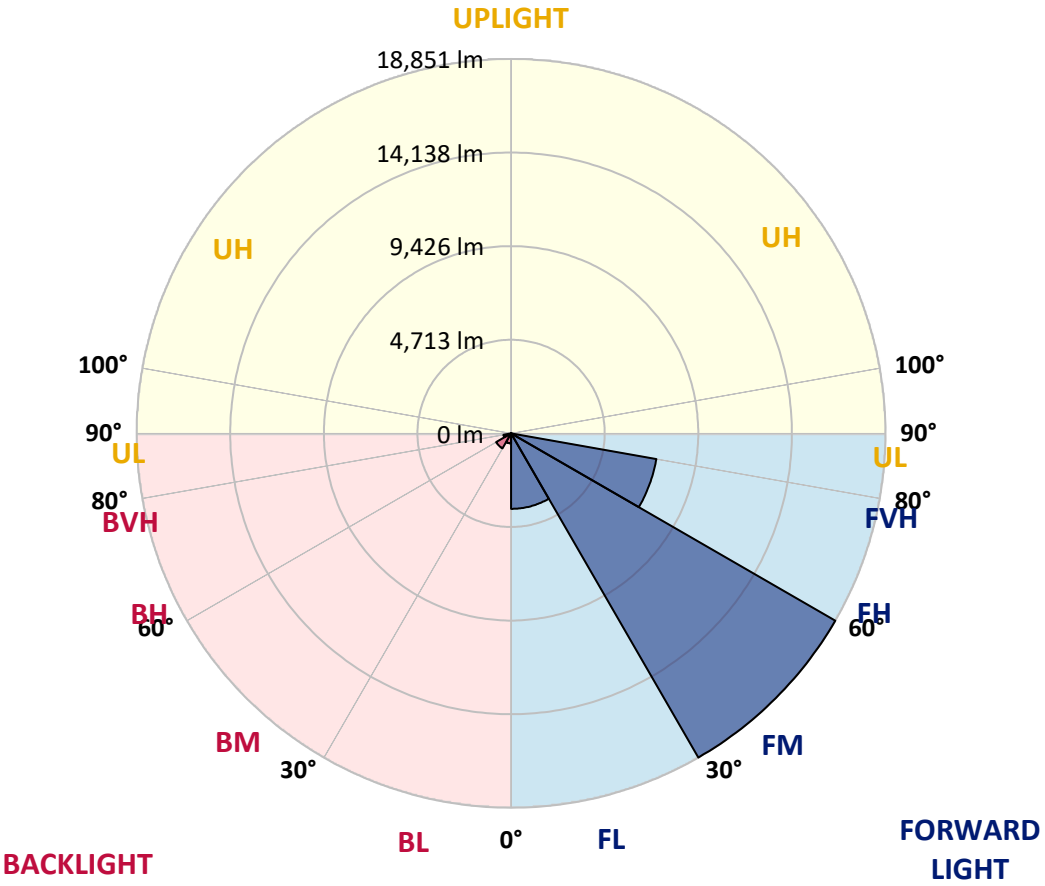
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3802.1	11.9			
FM	(30°-60°)	18851.3	59.1			
FH	(60°-80°)	7428.6	23.3			G3/7500
FVH	(80°-90°)	40.5	0.1			G1/100
BL	(0°-30°)	503.1	1.6	B2/1000		
BM	(30°-60°)	869.9	2.7	B1/1000		
BH	(60°-80°)	387.6	1.2	B1/500		G1/500
BVH	(80°-90°)	2.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type II Short



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REPORT NUMBER: P643939
CATALOG NUMBER: GWS-SA6F-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	*2823.0*	2823.0
2.5°	4350.8	4416.0	4364.9	4279.9	4115.5	3956.8	3752.7	3472.1	3248.2	*3219.9*	3010.1
5°	5875.7	5870.0	5759.5	5648.9	5476.0	5203.9	4792.9	4271.4	3769.7	*3727.2*	3256.7
7.5°	6782.7	6791.2	6728.8	6643.8	6473.7	6193.1	5765.1	5135.9	4401.8	*4316.8*	3594.0
10°	7545.1	7542.3	7496.9	7457.2	7304.2	7117.1	6657.9	5966.4	5082.0	*4948.8*	3971.0
12.5°	8117.7	8137.5	8160.2	8199.9	8134.7	7950.4	7516.8	6762.8	5770.8	*5623.4*	4401.8
15°	8571.2	8576.8	8661.9	8814.9	8868.8	8772.4	8378.4	7533.8	6451.0	*6323.5*	4897.8
17.5°	8707.2	8718.5	8863.1	9143.7	9427.1	9481.0	9183.4	8310.4	7120.0	*6983.9*	5379.6
20°	8993.5	9019.0	9126.7	9373.3	9730.4	10019.5	9903.3	9095.5	7788.9	*7610.3*	5872.8
22.5°	9894.8	9909.0	9872.1	9903.3	10087.5	10422.0	10492.9	9855.1	8474.8	*8284.9*	6405.7
25°	11445.2	11450.9	11193.0	10949.2	10810.3	10872.7	11028.6	10555.2	9155.0	*8968.0*	6901.7
27.5°	13055.1	13075.0	12766.0	12352.2	11856.2	11572.8	11527.4	11195.8	9841.0	*9634.0*	7392.1
30°	14571.5	14571.5	14245.6	13741.1	13077.8	12525.1	12199.2	11842.0	10575.1	*10348.3*	7893.7
32.5°	15934.9	15923.5	15506.9	14959.8	14305.1	13698.5	13012.6	12516.6	11391.4	*11139.1*	8472.0
35°	17060.1	17031.8	16558.4	16034.1	15334.0	14883.3	14118.0	13242.2	12275.7	*12023.4*	9067.2
37.5°	17910.4	17879.2	17445.6	16890.0	16241.0	15949.0	15308.5	14112.4	13208.2	*12978.6*	9727.6
40°	18372.4	18310.1	18009.6	17595.8	17051.6	16796.5	16530.1	15192.3	14305.1	*14018.8*	10507.0
42.5°	18508.5	18434.8	18236.4	18043.6	17714.9	17513.6	17799.9	16411.0	15509.7	*15263.1*	11397.0
45°	18106.0	18063.5	18046.5	18185.4	18244.9	18301.6	19007.3	17760.2	16839.0	*16652.0*	12516.6
47.5°	17136.6	17125.3	17275.5	17853.7	18483.0	19081.0	20319.6	19424.0	18562.3	*18361.1*	14081.2
50°	15345.3	15461.5	15881.0	16895.7	18154.2	19523.2	21546.9	21731.2	21351.4	*21056.6*	16121.9
52.5°	12544.9	12768.9	13709.9	15251.8	17060.1	19398.5	22113.8	23579.2	23967.5	*23661.4*	17584.5
55°	9843.8	10053.5	10892.5	12848.2	15260.3	18449.0	22139.3	24216.9	25064.4	*24781.0*	18573.7
57.5°	7332.5	7525.3	8287.7	10158.4	12811.4	16581.1	21532.8	24571.2	26365.4	*26184.0*	20135.4
60°	4792.9	4982.8	5671.6	7307.0	9937.3	13860.1	20039.0	24497.5	28136.9	*28119.8*	22054.3
62.5°	2658.6	2808.9	3307.7	4583.2	6935.7	10733.8	17692.2	23757.7	29851.6	*29959.4*	23635.9
65°	*1360.5*	*1456.9*	*1760.1*	*2519.8*	*4197.7*	*7610.3*	*14605.5*	*22062.8*	*30645.3*	*30917.4*	*24052.5*
67.5°	890.0	921.2	994.9	1309.5	2247.7	4787.3	10991.7	19344.6	29528.5	*29846.0*	22655.2
70°	722.8	748.3	790.8	873.0	1159.3	2542.4	7219.2	15450.2	24673.2	*24888.7*	18040.8
72.5°	530.0	564.0	646.2	700.1	836.1	1394.5	3755.5	10141.4	16943.9	*17323.7*	11337.5
75°	391.1	411.0	479.0	552.7	683.1	881.5	1437.0	5331.5	8749.7	*8528.6*	4761.8
77.5°	235.3	249.4	306.1	354.3	487.5	549.9	501.7	1969.9	2661.5	*2502.8*	1150.8
80°	116.2	130.4	201.2	266.4	311.8	221.1	209.7	549.9	592.4	*592.4*	289.1
82.5°	39.7	51.0	107.7	175.7	153.1	85.0	99.2	141.7	158.7	*167.2*	85.0
85°	0.0	0.0	25.5	51.0	22.7	11.3	25.5	31.2	39.7	*42.5*	28.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	8.5	*11.3*	11.3
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: GWS-SA6F-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0
2.5°	2896.7	2763.5	2562.3	2380.9	2242.0	2111.6	2012.4	1933.0	1918.9	1873.5	1879.2
5°	3027.1	2786.2	2414.9	2128.6	1927.4	1791.3	1678.0	1592.9	1556.1	1519.2	1490.9
7.5°	3228.4	2879.7	2358.2	2009.6	1774.3	1564.6	1388.8	1247.1	1179.1	1136.6	1108.2
10°	3474.9	3010.1	2361.0	1938.7	1590.1	1269.8	1028.9	873.0	799.3	776.6	773.8
12.5°	3769.7	3174.5	2383.7	1822.5	1323.7	943.8	762.4	691.6	668.9	649.1	649.1
15°	4081.5	3358.7	2383.7	1609.9	1009.0	736.9	660.4	615.1	586.7	575.4	569.7
17.5°	4410.3	3531.6	2327.0	1318.0	773.8	649.1	586.7	544.2	521.5	504.5	498.9
20°	4761.8	3696.0	2185.3	1009.0	663.2	581.0	521.5	479.0	456.3	439.3	439.3
22.5°	5118.9	3849.1	1955.7	776.6	586.7	515.9	459.2	419.5	396.8	379.8	379.8
25°	5450.5	3951.1	1660.9	640.6	530.0	459.2	408.2	368.5	343.0	331.6	326.0
27.5°	5759.5	4016.3	1335.0	564.0	476.2	411.0	357.1	320.3	300.4	291.9	286.3
30°	6079.7	4033.3	1020.4	513.0	430.8	362.8	311.8	283.4	266.4	255.1	255.1
32.5°	6391.5	4013.5	779.5	470.5	391.1	320.3	277.8	252.3	238.1	229.6	226.8
35°	6709.0	3922.8	632.1	433.7	351.5	280.6	246.6	226.8	218.2	206.9	206.9
37.5°	7054.8	3800.9	549.9	396.8	311.8	252.3	221.1	206.9	195.6	187.1	184.2
40°	7485.6	3659.2	504.5	365.6	274.9	226.8	198.4	184.2	175.7	167.2	164.4
42.5°	7995.8	3520.3	481.8	331.6	246.6	201.2	178.6	161.6	153.1	141.7	138.9
45°	8718.5	3489.1	456.3	294.8	221.1	181.4	155.9	138.9	127.5	119.0	116.2
47.5°	9880.6	3577.0	413.8	255.1	195.6	158.7	133.2	119.0	104.9	96.4	90.7
50°	11034.2	3554.3	371.3	221.1	172.9	136.1	113.4	99.2	85.0	76.5	73.7
52.5°	11663.5	3446.6	331.6	195.6	150.2	116.2	96.4	79.4	70.9	62.4	59.5
55°	12233.2	3404.1	291.9	170.1	127.5	102.0	79.4	65.2	59.5	51.0	48.2
57.5°	13349.9	3503.3	257.9	147.4	110.5	87.9	68.0	53.9	48.2	39.7	36.8
60°	14517.7	3514.6	221.1	127.5	96.4	73.7	53.9	42.5	36.8	28.3	25.5
62.5°	15127.1	3228.4	181.4	107.7	79.4	62.4	45.4	34.0	28.3	17.0	17.0
65°	*14616.9*	*2610.5*	*153.1*	*87.9*	*62.4*	*48.2*	*34.0*	*25.5*	*17.0*	*8.5*	*2.8*
67.5°	12936.1	1856.5	127.5	70.9	45.4	34.0	25.5	17.0	2.8	0.0	0.0
70°	9472.5	1060.1	99.2	51.0	34.0	22.7	17.0	8.5	0.0	0.0	0.0
72.5°	5821.8	566.9	73.7	34.0	25.5	17.0	14.2	5.7	0.0	0.0	0.0
75°	2208.0	272.1	45.4	22.7	19.8	14.2	8.5	2.8	0.0	0.0	0.0
77.5°	598.1	133.2	25.5	17.0	14.2	8.5	5.7	0.0	0.0	0.0	0.0
80°	155.9	62.4	17.0	11.3	8.5	5.7	0.0	0.0	0.0	0.0	0.0
82.5°	53.9	28.3	8.5	8.5	5.7	2.8	0.0	0.0	0.0	0.0	0.0
85°	22.7	11.3	5.7	5.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	2.8	2.8	2.8	2.8	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

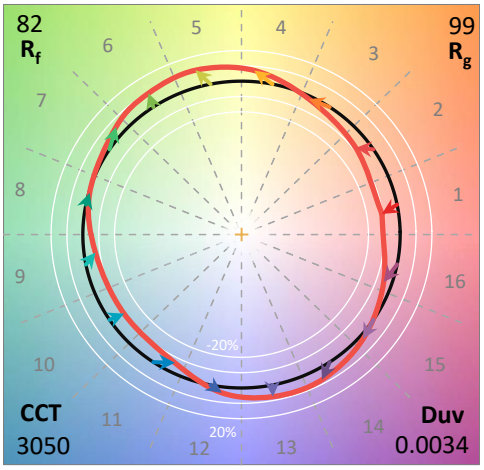
Test Information

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

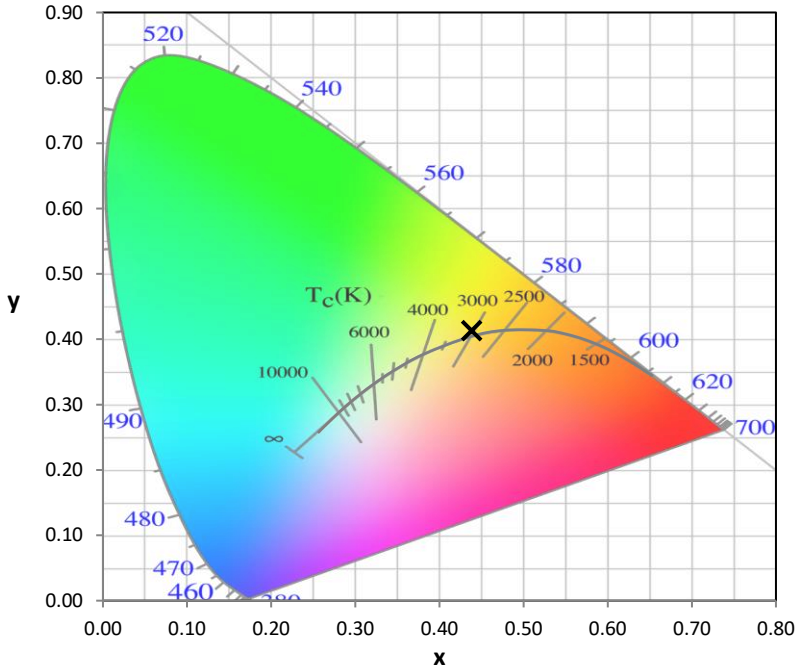
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

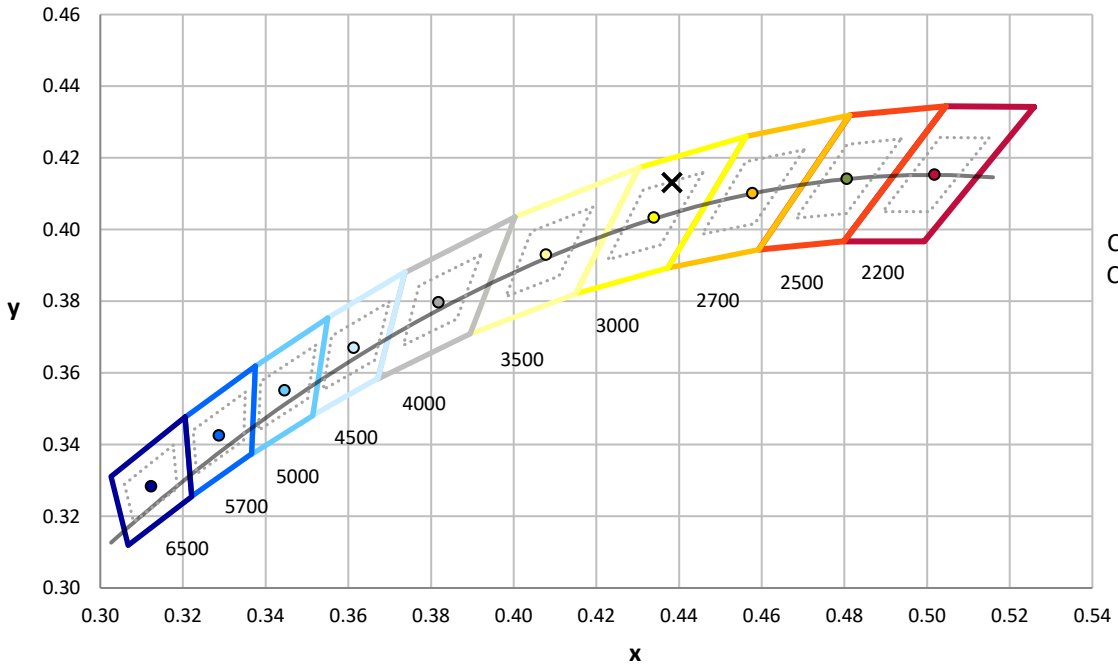
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

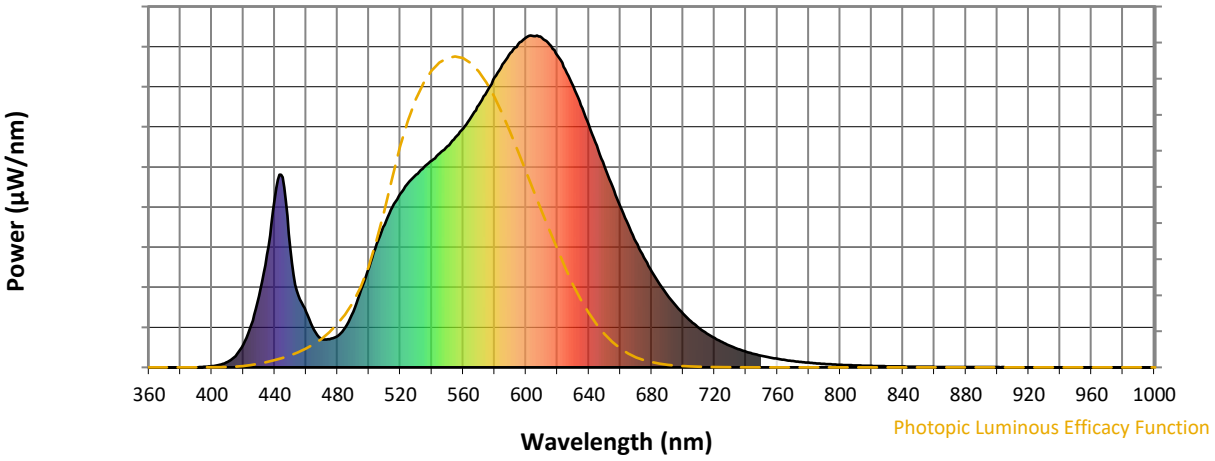


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

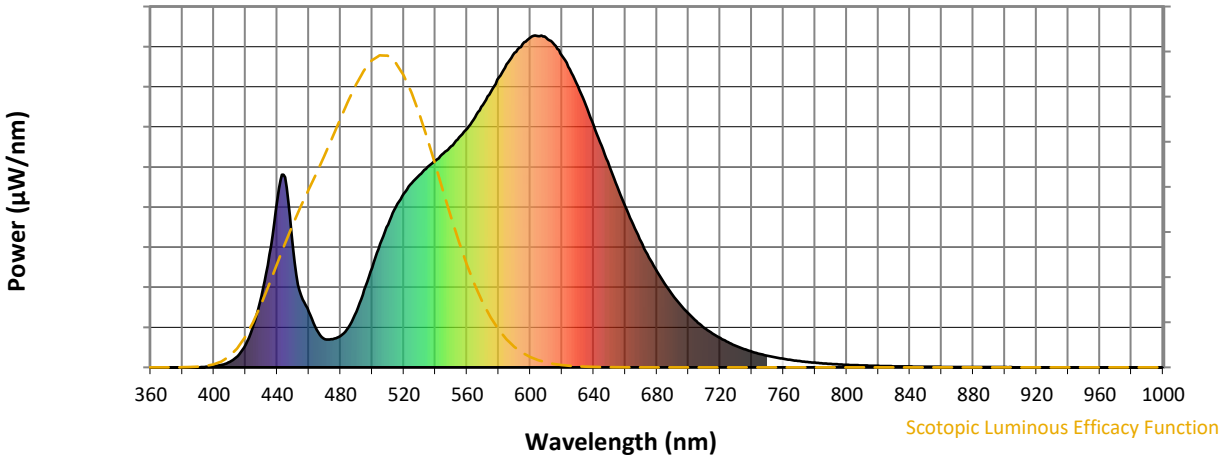


Photopic Lumens: NR

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

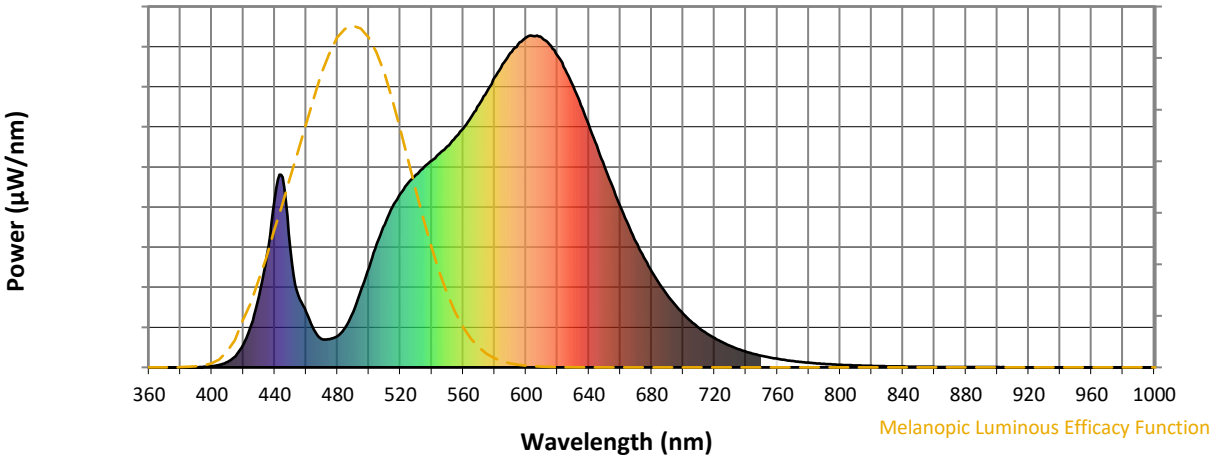


Scotopic Lumens: NR **S/P: 1.27**

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			

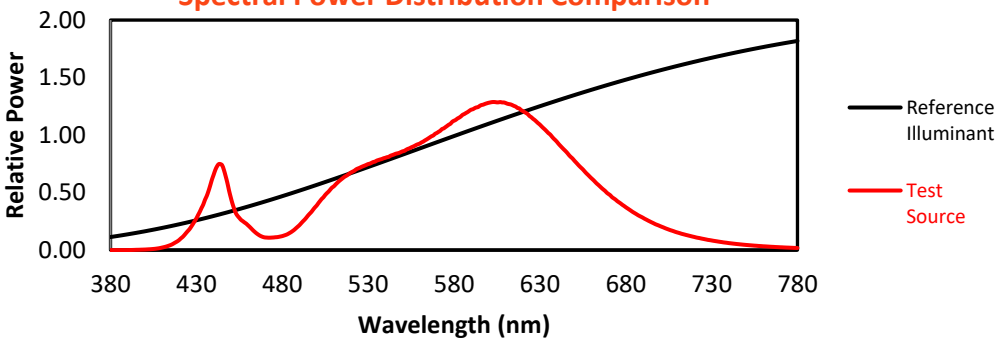
REPORT NUMBER: SP1-2408-195-9

TM-30-18

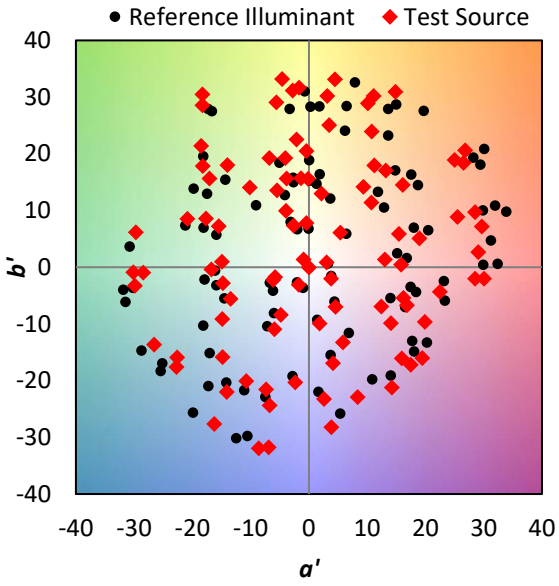
Summary

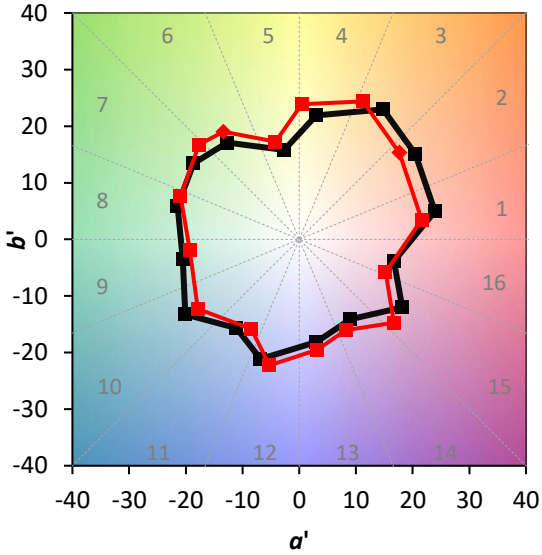
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

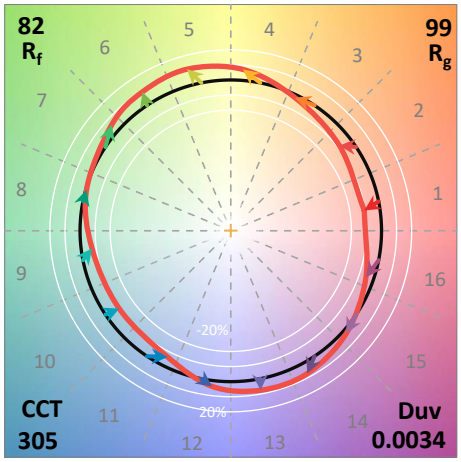
Spectral Power Distribution Comparison

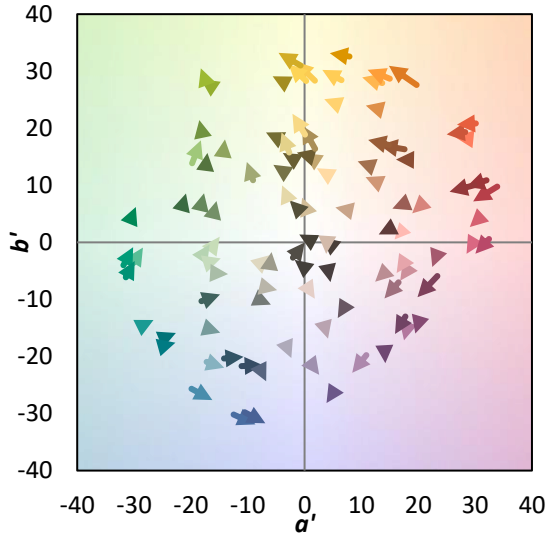


Color Vector Graphics







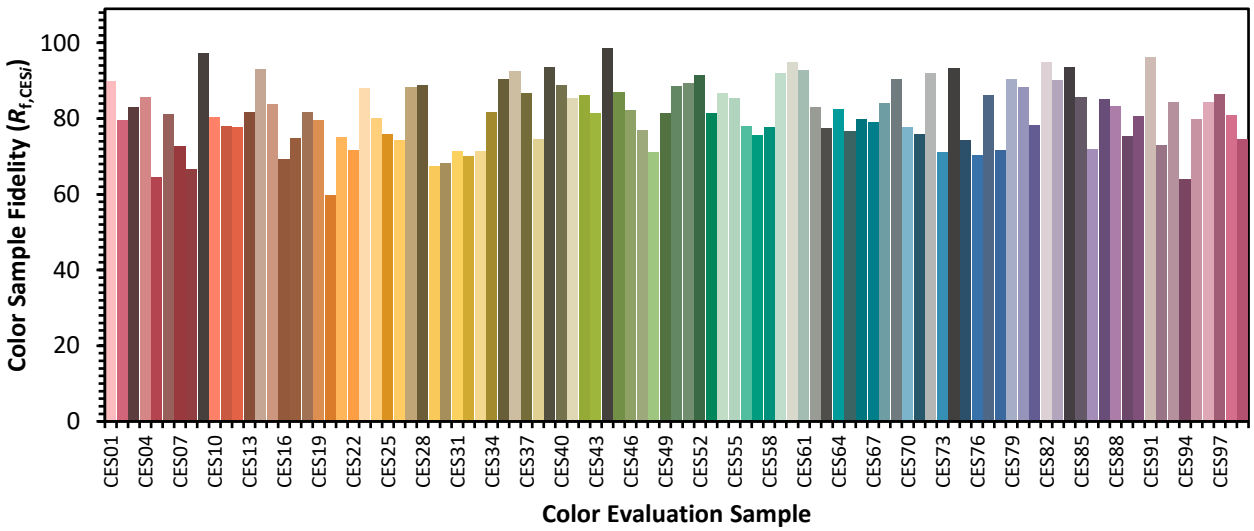


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

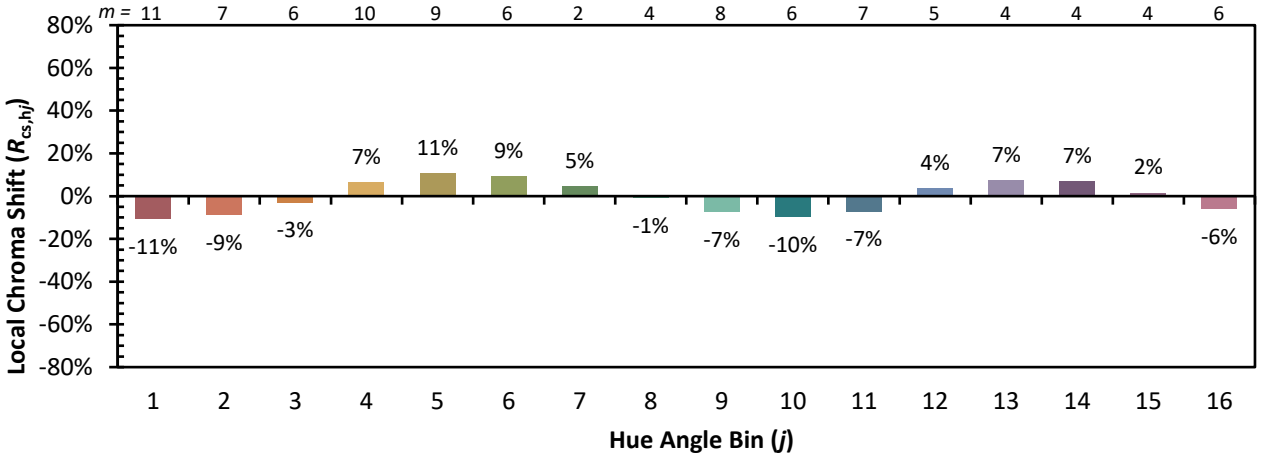
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

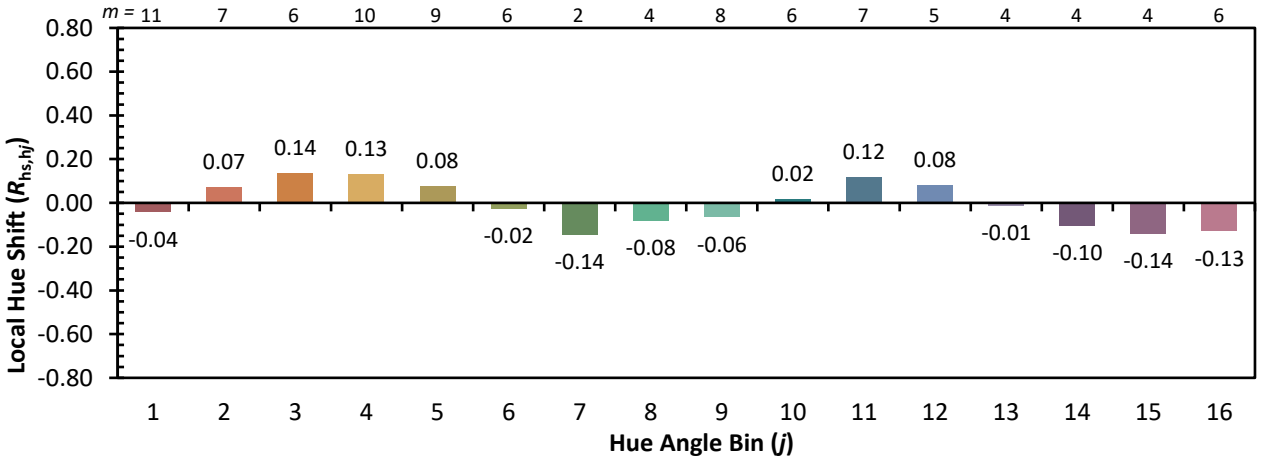


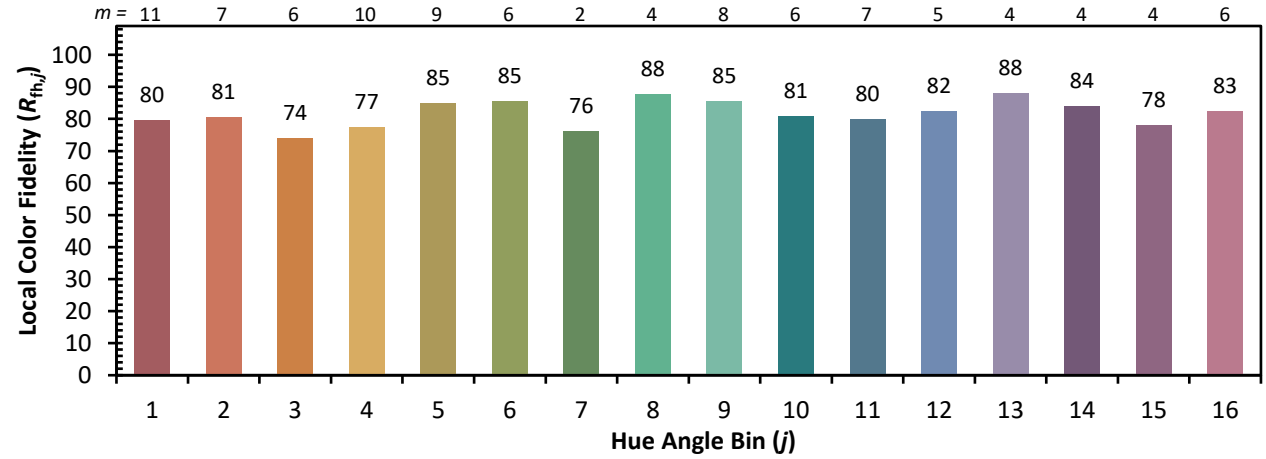
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



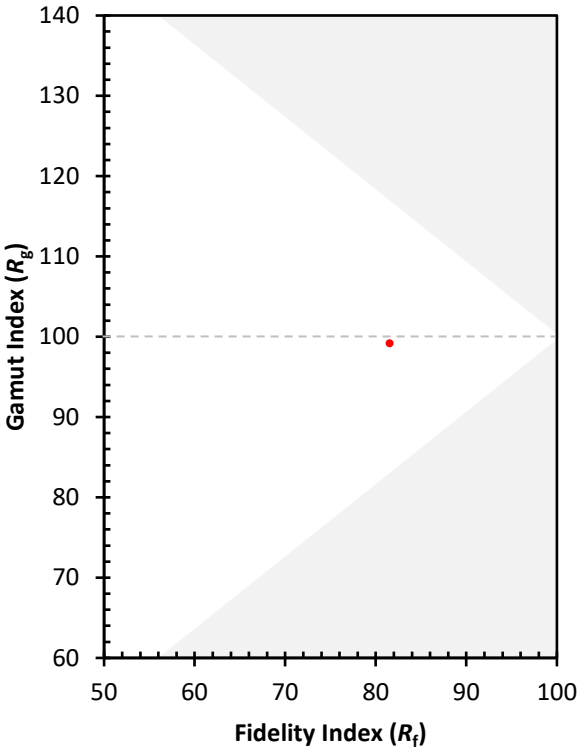


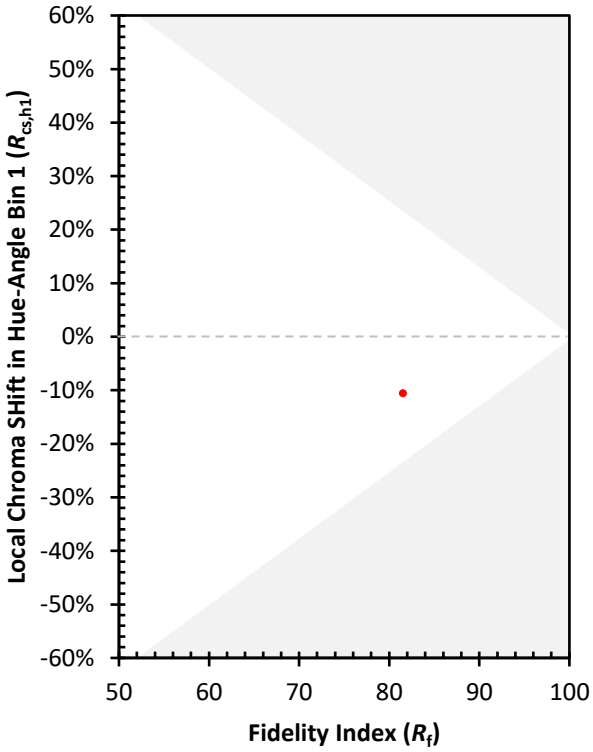


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)