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: P639952

Luminaire Tested: GWS-SA5C-830-U-RW-W-GRSWH

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:	P639952
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5C-830-U-RW-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16675.5 lumens
Efficiency:	N/A
Efficacy:	105.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B4 - U0 - G1

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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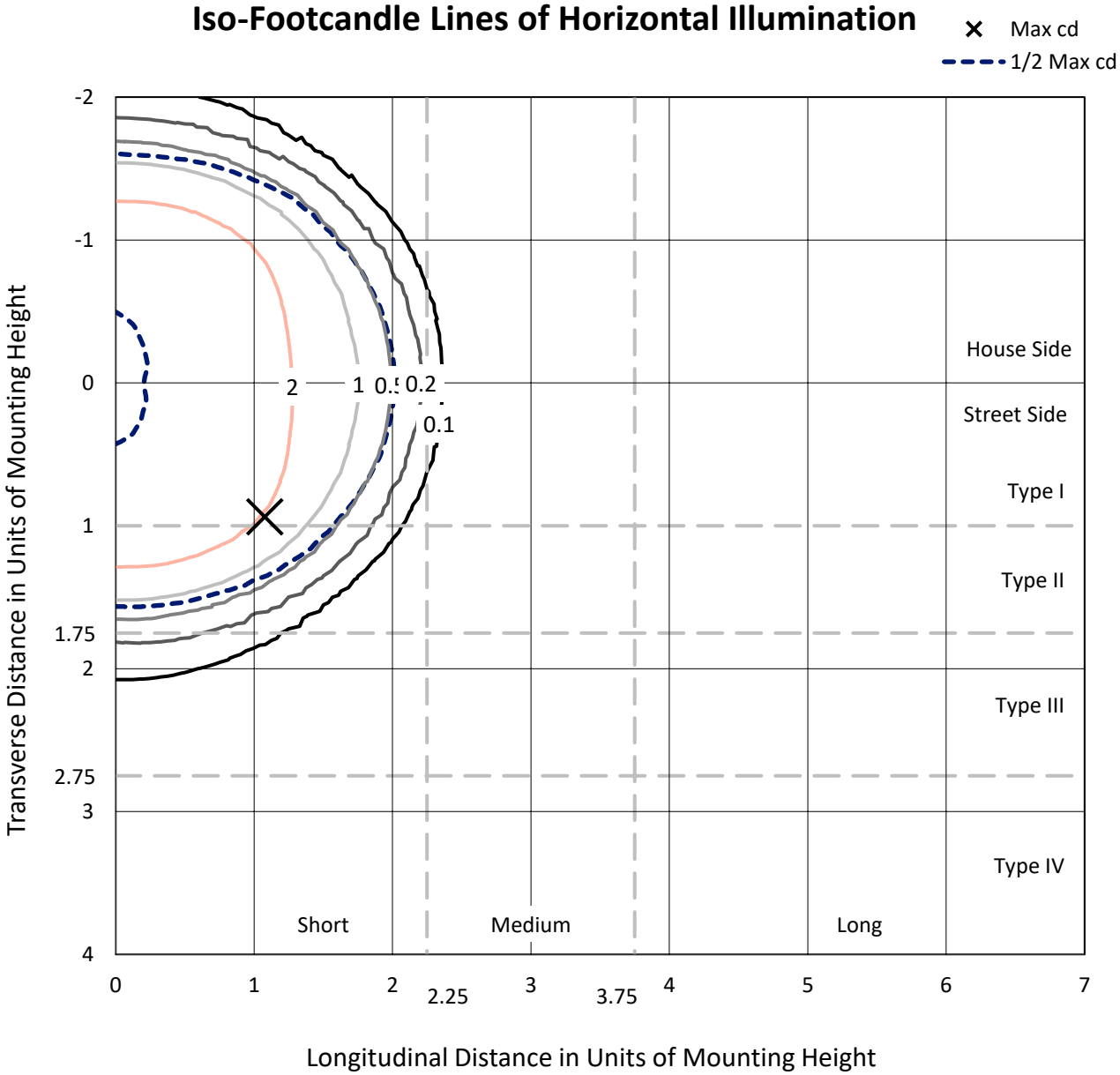
Scaled Data Report

REPORT NUMBER: P639952
CATALOG NUMBER: GWS-SA5C-830-U-RW-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type V - Short - N/A

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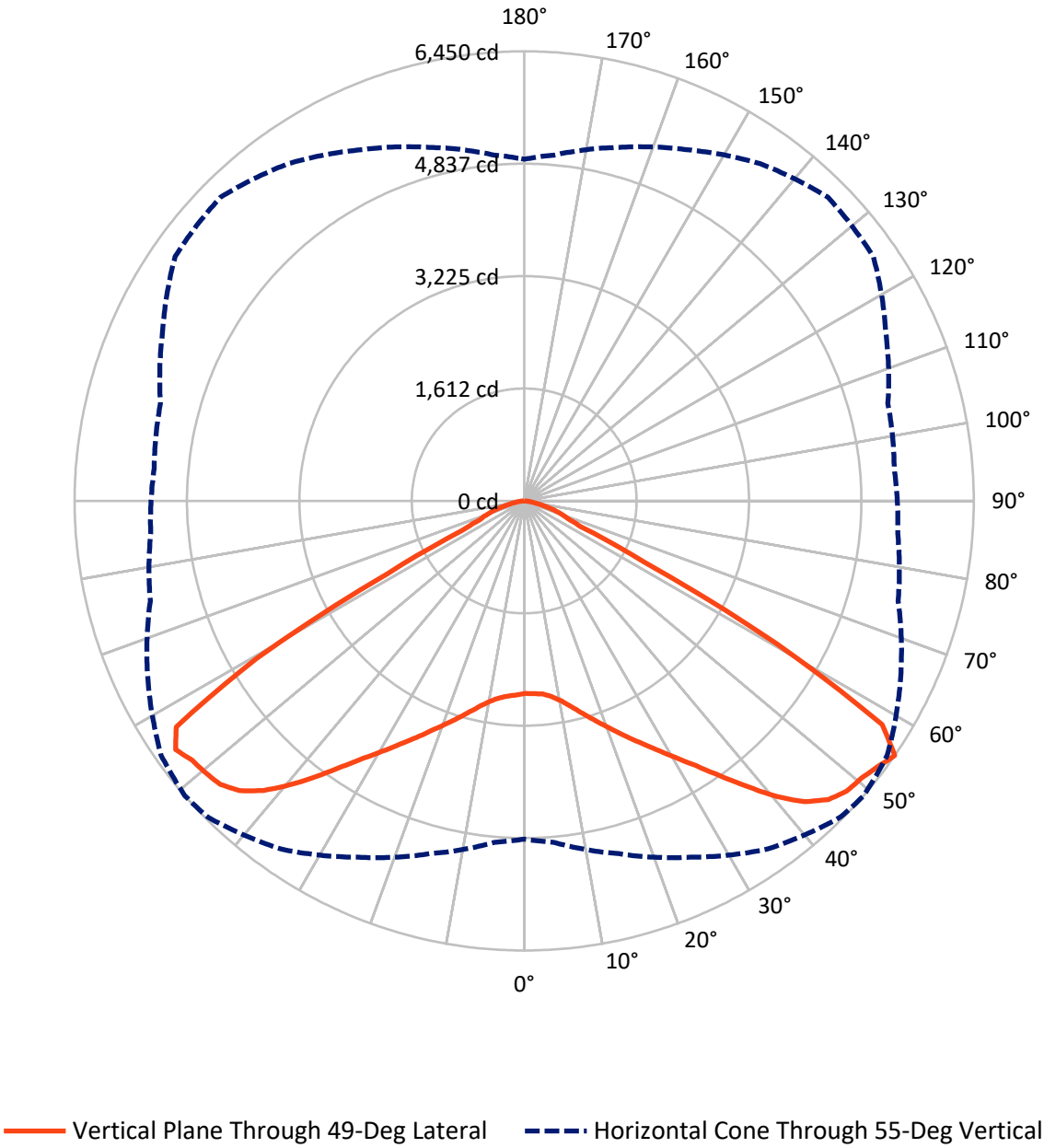
Luminous Intensity Polar Plot



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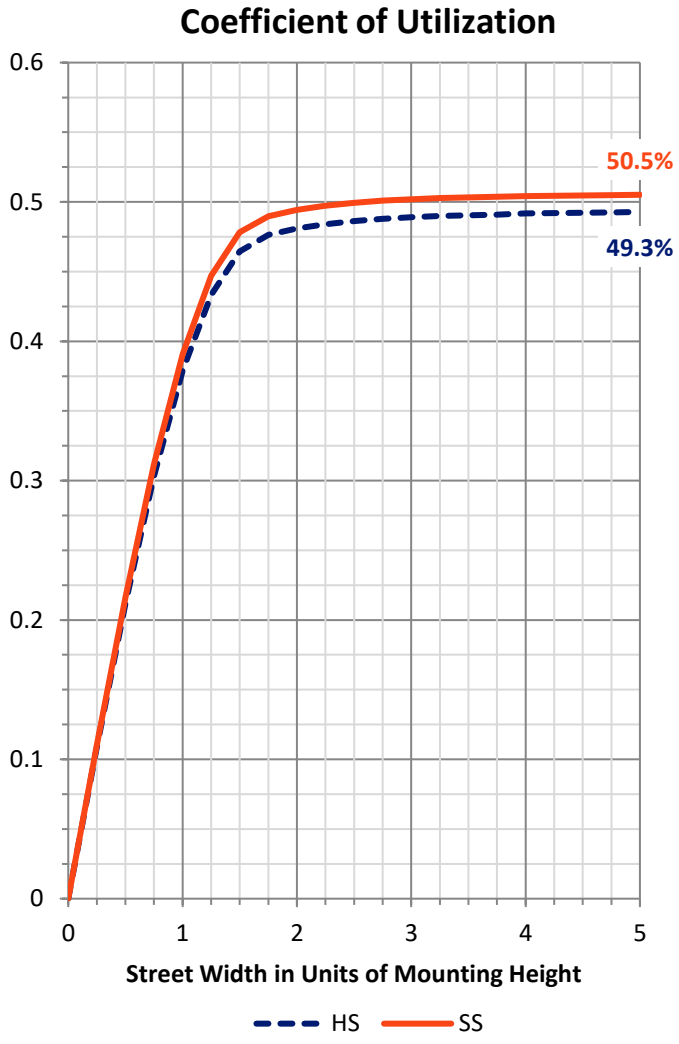
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8256.0	0.0	8256.0
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	8419.5	0.0	8419.5
	% Fixture	50.5	0.0	50.5
Total	Lumens	16675.5	0.0	16675.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.5	1.6
10°-20°	888.8	5.3
20°-30°	1693.0	10.2
30°-40°	2870.0	17.2
40°-50°	4319.1	25.9
50°-60°	4727.7	28.4
60°-70°	1494.9	9.0
70°-80°	358.8	2.2
80°-90°	53.8	0.3
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°	16675.5	100.0
0°-180°	16675.5	100.0



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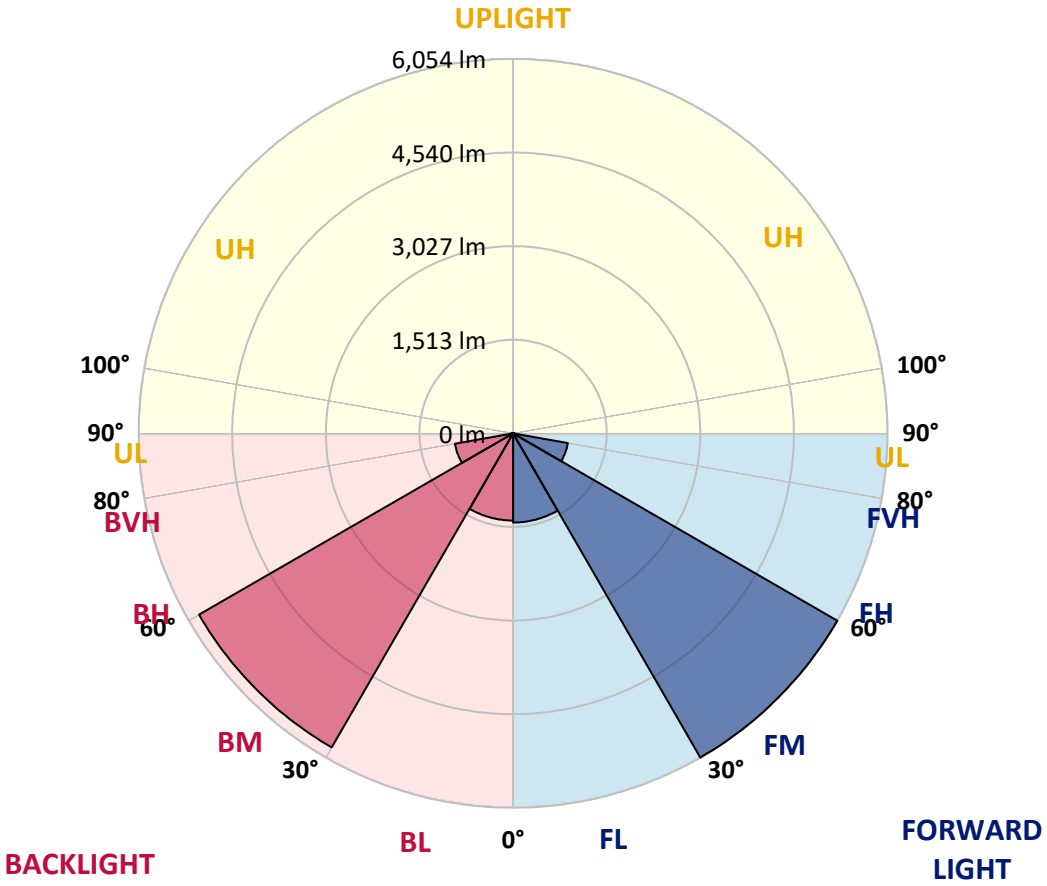
REPORT NUMBER: P639952
CATALOG NUMBER: GWS-SA5C-830-U-RW-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1441.7	8.6			
FM	(30°-60°)	6053.7	36.3			
FH	(60°-80°)	899.2	5.4			G1/1800
FVH	(80°-90°)	24.9	0.1			G1/100
BL	(0°-30°)	1409.5	8.5	B3/2500		
BM	(30°-60°)	5863.0	35.2	B4/8500		
BH	(60°-80°)	954.5	5.7	B2/1000		G1/1800
BVH	(80°-90°)	28.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
Type V Short



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REPORT NUMBER: P639952
CATALOG NUMBER: GWS-SA5C-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4	*2762.4*	2762.4	2762.4	2762.4	2762.4
2.5°	2721.7	2724.4	2729.9	2739.3	2748.8	2762.4	*2767.8*	2774.6	2773.2	2781.4	2781.4
5°	2708.2	2712.2	2720.4	2733.9	2750.2	2776.0	*2782.7*	2799.0	2815.3	2835.6	2842.4
7.5°	2724.4	2729.9	2739.3	2761.0	2785.5	2819.4	*2832.9*	2860.0	2891.2	2927.8	2942.8
10°	2755.6	2762.4	2778.7	2813.9	2853.3	2904.8	*2917.0*	2950.9	3001.1	3051.2	3081.1
12.5°	2790.9	2801.7	2831.6	2887.2	2945.5	3013.3	*3032.3*	3074.3	3128.5	3193.6	3234.3
15°	2831.6	2841.1	2887.2	2965.8	3056.7	3146.2	*3167.9*	3208.6	3269.6	3333.3	3390.3
17.5°	2917.0	2933.3	2987.5	3078.4	3184.1	3289.9	*3314.3*	3360.4	3409.3	3459.4	3513.7
20°	3033.6	3047.2	3116.3	3228.9	3353.7	3449.9	*3474.4*	3515.0	3538.1	3563.9	3610.0
22.5°	3150.2	3169.2	3247.9	3380.8	3527.2	3631.7	*3650.7*	3688.6	3672.3	3664.2	3694.0
25°	3295.3	3321.1	3398.4	3543.5	3692.7	3821.5	*3836.4*	3869.0	3841.9	3799.8	3798.5
27.5°	3475.7	3498.8	3578.8	3727.9	3875.8	4010.0	*4038.5*	4081.9	4022.2	3970.7	3934.1
30°	3690.0	3704.9	3793.0	3951.7	4103.6	4231.1	*4267.7*	4311.1	4266.3	4180.9	4144.3
32.5°	3939.5	3959.8	4061.6	4228.4	4364.0	4491.4	*4528.1*	4582.3	4533.5	4437.2	4391.1
35°	4239.2	4259.5	4366.7	4548.4	4686.7	4818.3	*4844.0*	4888.8	4827.8	4716.6	4679.9
37.5°	4564.7	4590.4	4726.0	4898.3	5043.4	5196.6	*5198.0*	5211.5	5124.7	4986.4	4945.7
40°	4930.8	4964.7	5100.3	5279.3	5454.3	5579.0	*5577.7*	5539.7	5393.3	5179.0	5116.6
42.5°	5292.9	5320.0	5457.0	5641.4	5816.4	5934.3	*5899.1*	5806.9	5595.3	5303.7	5221.0
45°	5554.6	5575.0	5718.7	5926.2	6103.9	6177.1	*6113.3*	6002.1	5716.0	5382.4	5260.4
47.5°	5678.0	5705.2	5850.3	6056.4	6257.1	6299.1	*6223.2*	6118.8	5786.5	5455.6	5291.5
50°	5611.6	5646.8	5810.9	6002.1	6228.6	6315.4	*6261.2*	6156.7	5861.1	5527.5	5347.1
52.5°	5439.4	5473.3	5680.7	5912.6	6168.9	6341.2	*6339.8*	6254.4	5946.5	5547.8	5349.9
55°	*4850.8*	*4917.3*	*5240.0*	*5640.1*	*6095.7*	*6417.1*	*6449.7*	*6358.8*	*5960.1*	*5553.3*	*5378.3*
57.5°	3157.0	3273.7	3580.1	4100.9	5014.9	5836.7	*6056.4*	6078.1	5862.5	5530.2	5383.8
60°	1318.1	1411.7	1654.5	2000.3	2755.6	3733.4	*4159.2*	4586.4	5101.7	5288.8	5333.6
62.5°	819.1	827.2	851.6	930.3	1182.5	1659.9	*1933.8*	2333.9	3100.1	3752.4	4053.4
65°	739.1	743.1	748.6	743.1	755.4	813.7	*886.9*	1026.6	1338.5	1662.6	2047.7
67.5°	650.9	656.4	660.4	656.4	660.4	663.1	*671.3*	683.5	740.4	786.5	821.8
70°	526.2	534.3	541.1	538.4	554.6	554.6	*562.8*	572.3	600.8	634.7	659.1
72.5°	401.4	394.6	402.8	405.5	420.4	428.5	*440.7*	451.6	484.1	504.5	535.7
75°	260.4	253.6	265.8	272.6	292.9	303.8	*314.6*	325.5	348.5	362.1	391.9
77.5°	141.0	139.7	151.9	161.4	183.1	196.6	*204.8*	212.9	231.9	236.0	254.9
80°	81.4	81.4	89.5	96.3	109.8	124.8	*132.9*	139.7	153.2	157.3	165.4
82.5°	44.8	44.8	48.8	52.9	63.7	71.9	*78.7*	84.1	96.3	100.4	104.4
85°	21.7	20.3	23.1	25.8	29.8	33.9	*38.0*	40.7	50.2	52.9	58.3
87.5°	2.7	2.7	2.7	4.1	5.4	8.1	*9.5*	9.5	14.9	17.6	20.3
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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REPORT NUMBER: P639952
CATALOG NUMBER: GWS-SA5C-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4	2762.4
2.5°	2789.5	2771.9	2782.7	2786.8	2786.8	2782.7	2765.1	2759.7	2751.5	2739.3	2739.3
5°	2851.9	2838.3	2841.1	2834.3	2818.0	2797.7	2765.1	2748.8	2735.3	2720.4	2719.0
7.5°	2959.0	2941.4	2938.7	2912.9	2869.5	2826.1	2777.3	2747.5	2727.1	2708.2	2706.8
10°	3098.7	3082.4	3062.1	3010.6	2946.8	2883.1	2816.6	2776.0	2746.1	2719.0	2717.6
12.5°	3254.7	3235.7	3197.7	3121.8	3041.8	2979.4	2903.4	2841.1	2796.3	2759.7	2752.9
15°	3424.2	3397.1	3332.0	3242.5	3163.8	3097.4	3016.0	2926.5	2858.7	2800.4	2793.6
17.5°	3554.4	3519.1	3448.6	3364.5	3299.4	3233.0	3127.2	3014.6	2917.0	2843.8	2832.9
20°	3643.9	3615.4	3535.4	3473.0	3435.0	3376.7	3253.3	3125.8	3016.0	2923.8	2918.4
22.5°	3726.6	3692.7	3614.0	3577.4	3577.4	3538.1	3420.1	3269.6	3140.8	3033.6	3020.1
25°	3820.2	3783.5	3723.9	3719.8	3738.8	3721.2	3578.8	3417.4	3266.9	3146.2	3124.5
27.5°	3950.4	3909.7	3874.4	3898.8	3925.9	3907.0	3748.3	3561.1	3402.5	3280.4	3261.4
30°	4157.8	4107.7	4075.1	4104.9	4157.8	4102.2	3930.0	3732.0	3572.0	3437.7	3428.2
32.5°	4399.2	4342.3	4308.4	4355.8	4403.3	4316.5	4145.6	3955.8	3787.6	3646.6	3630.3
35°	4689.4	4617.6	4567.4	4631.1	4679.9	4594.5	4425.0	4244.6	4057.5	3911.0	3889.3
37.5°	4947.1	4860.3	4826.4	4915.9	4981.0	4925.4	4741.0	4571.4	4366.7	4206.7	4197.2
40°	5134.2	5048.8	5024.4	5172.2	5286.1	5272.6	5107.1	4913.2	4720.6	4536.2	4518.6
42.5°	5215.6	5155.9	5161.4	5360.7	5537.0	5623.8	5476.0	5268.5	5082.7	4891.5	4879.3
45°	5233.2	5196.6	5240.0	5489.5	5721.4	5899.1	5773.0	5599.4	5389.2	5204.8	5199.3
47.5°	5252.2	5231.9	5298.3	5562.8	5838.1	6044.2	5973.7	5794.7	5581.8	5401.4	5387.8
50°	5297.0	5288.8	5363.4	5614.3	5893.7	6083.5	6003.5	5825.9	5607.5	5429.9	5397.3
52.5°	5310.5	5297.0	5404.1	5694.3	5985.9	6082.2	5909.9	5678.0	5458.3	5260.4	5226.5
55°	*5352.6*	*5328.2*	*5401.4*	*5724.1*	*6113.3*	*6160.8*	*5904.5*	*5557.3*	*5250.9*	*4981.0*	*4901.0*
57.5°	5363.4	5336.3	5383.8	5675.3	5975.0	5933.0	5189.8	4484.7	3907.0	3607.3	3641.2
60°	5305.1	5313.2	5231.9	5199.3	4792.5	4231.1	3177.4	2540.0	1994.8	1764.3	1814.5
62.5°	4038.5	4072.4	3794.4	3299.4	2537.3	2011.1	1330.3	1033.4	874.7	834.0	840.8
65°	2038.2	2084.3	1795.5	1484.9	1103.9	892.3	771.6	747.2	739.1	729.6	729.6
67.5°	806.9	820.4	809.6	758.1	705.2	686.2	680.8	678.1	668.6	663.1	664.5
70°	648.2	659.1	642.8	610.2	588.6	587.2	584.5	579.1	572.3	572.3	576.3
72.5°	528.9	539.7	516.7	496.3	480.1	467.9	461.1	457.0	447.5	447.5	451.6
75°	389.2	396.0	377.0	374.3	356.7	344.5	333.6	328.2	316.0	310.5	314.6
77.5°	259.0	257.7	248.2	248.2	241.4	226.5	214.3	202.1	185.8	174.9	177.7
80°	168.2	168.2	164.1	164.1	157.3	145.1	130.2	118.0	108.5	100.4	100.4
82.5°	107.1	105.8	104.4	103.1	100.4	88.1	77.3	69.2	62.4	57.0	58.3
85°	59.7	59.7	57.0	57.0	51.5	44.8	39.3	33.9	29.8	28.5	28.5
87.5°	20.3	20.3	19.0	19.0	16.3	12.2	9.5	8.1	6.8	5.4	6.8
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

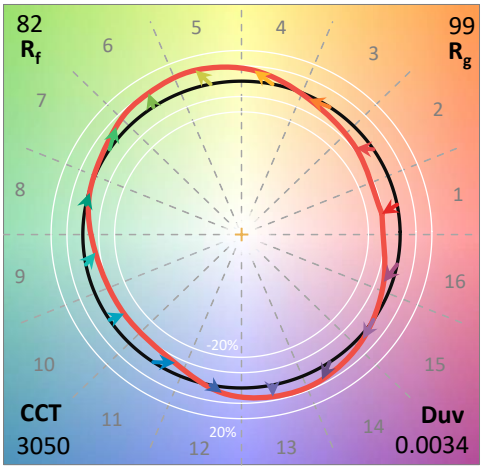
Test Information

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

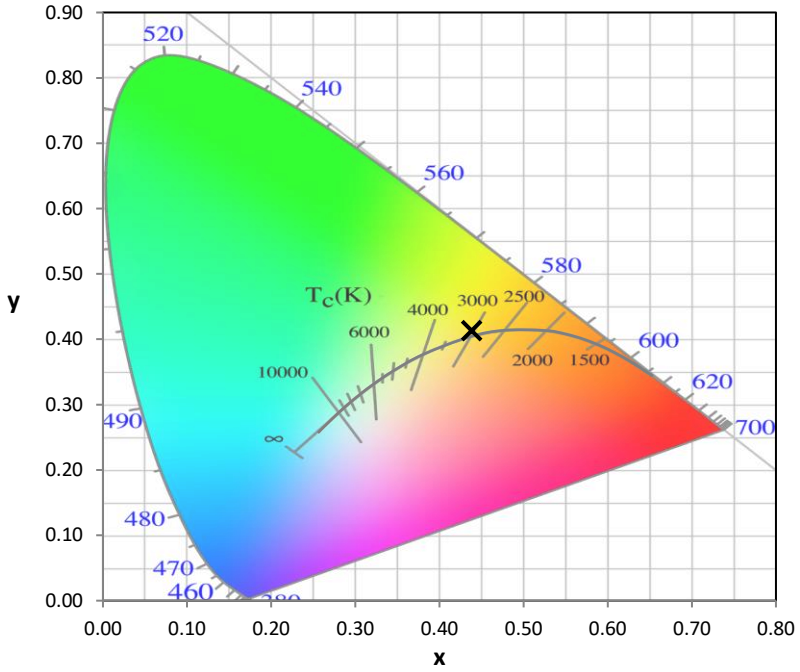
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

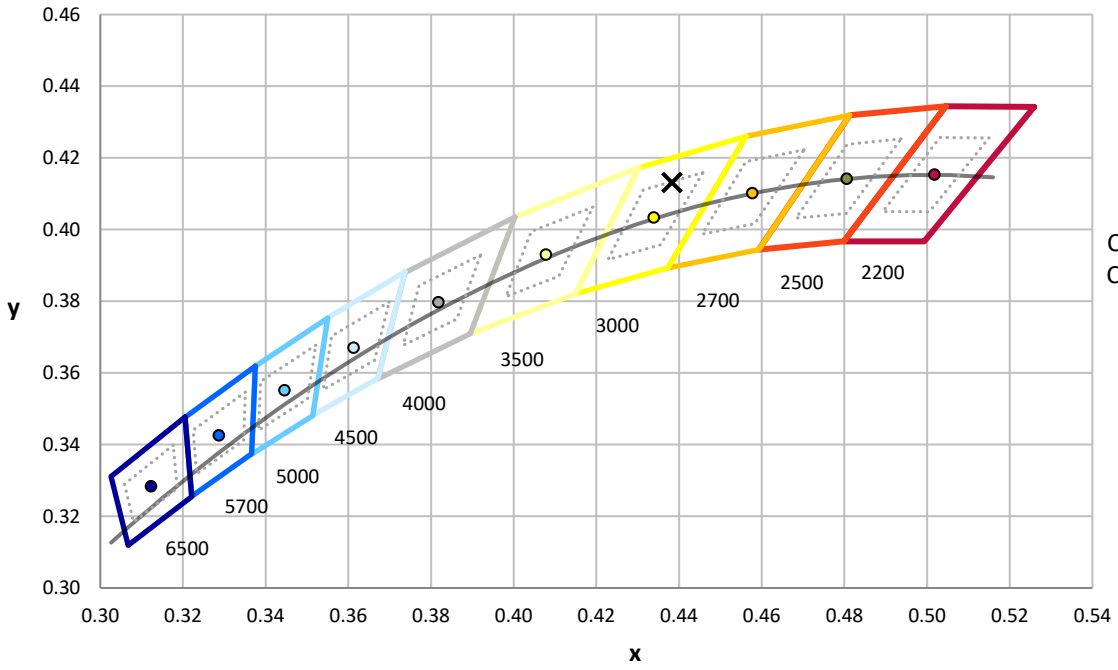
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

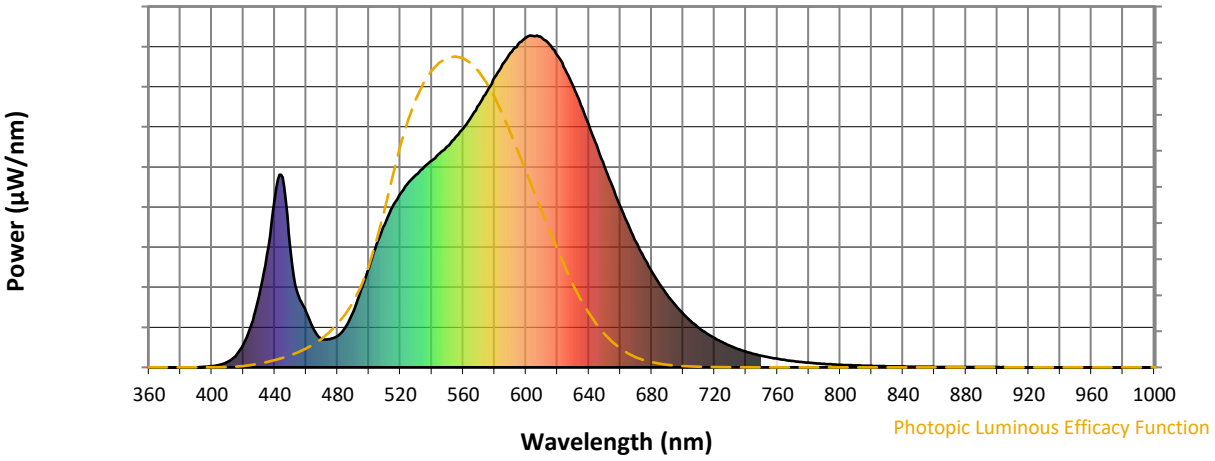


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

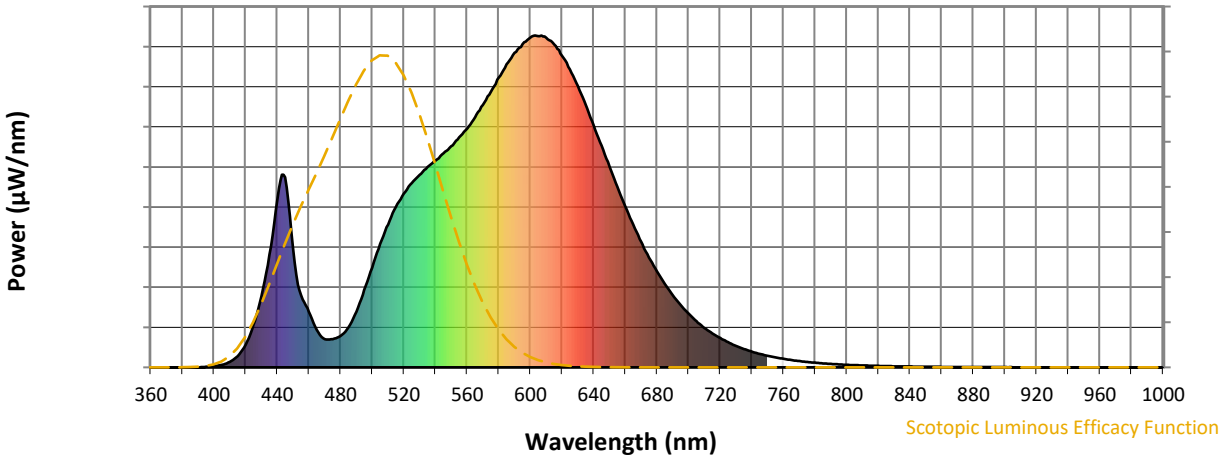


Photopic Lumens: NR

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

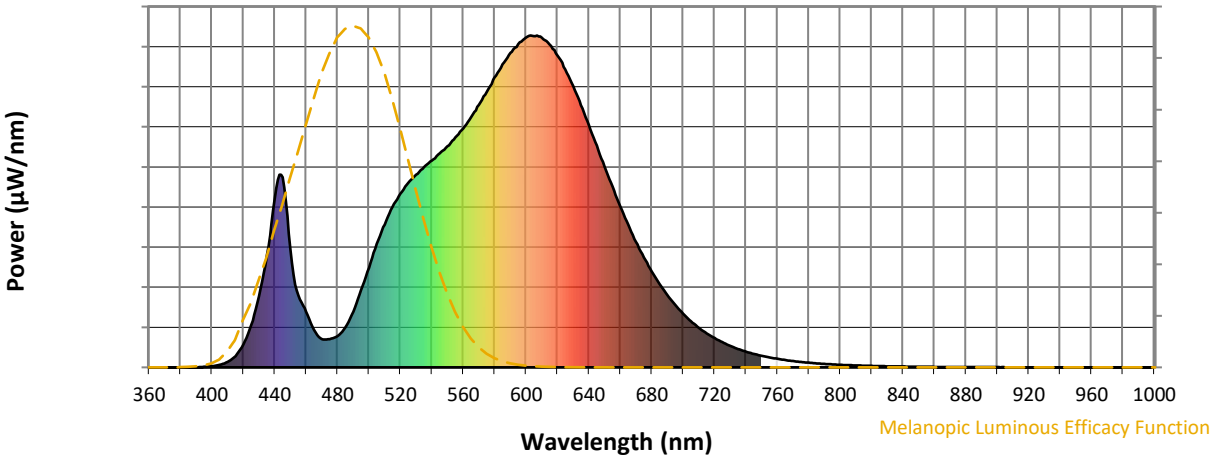


Scotopic Lumens: NR **S/P: 1.27**

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			

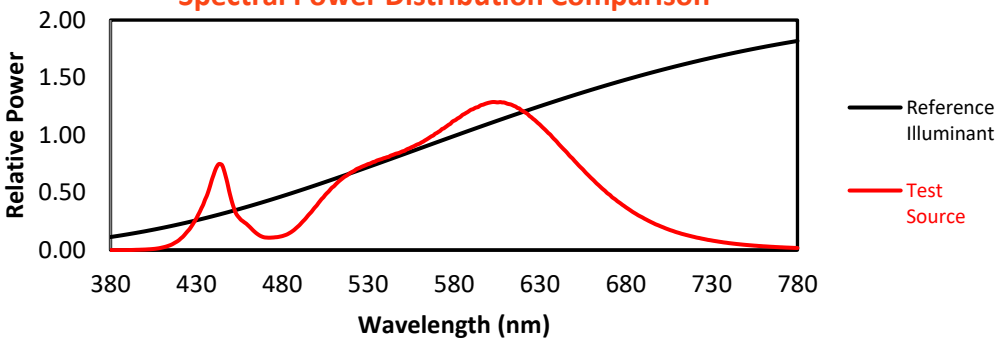
REPORT NUMBER: SP1-2408-195-9

TM-30-18

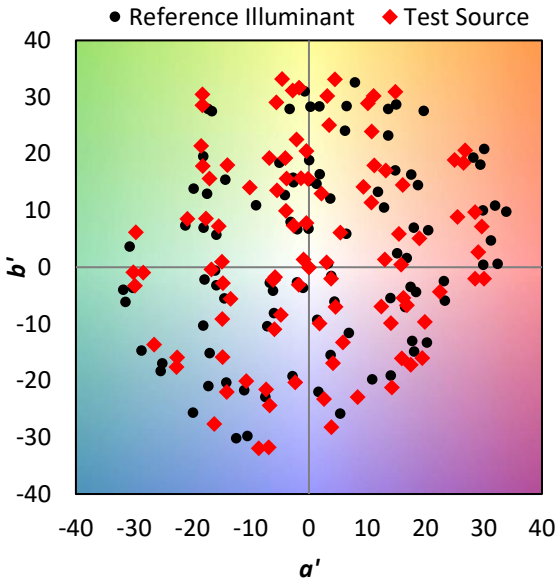
Summary

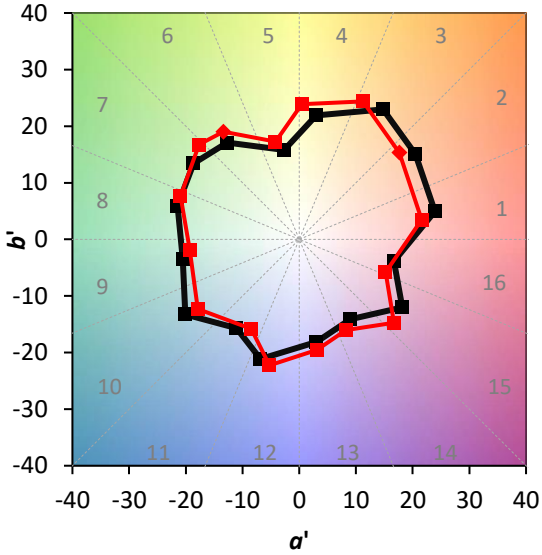
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

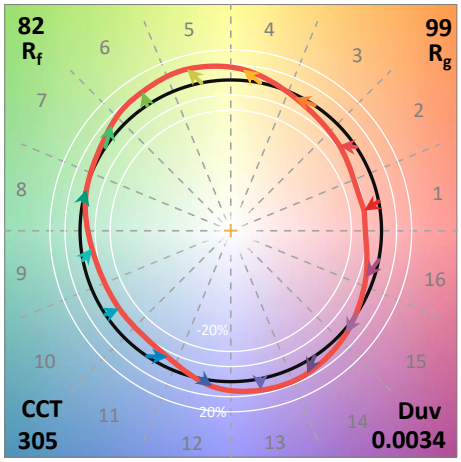
Spectral Power Distribution Comparison

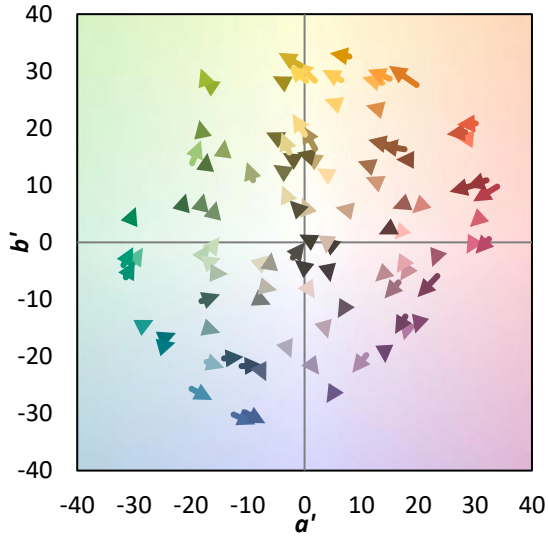


Color Vector Graphics







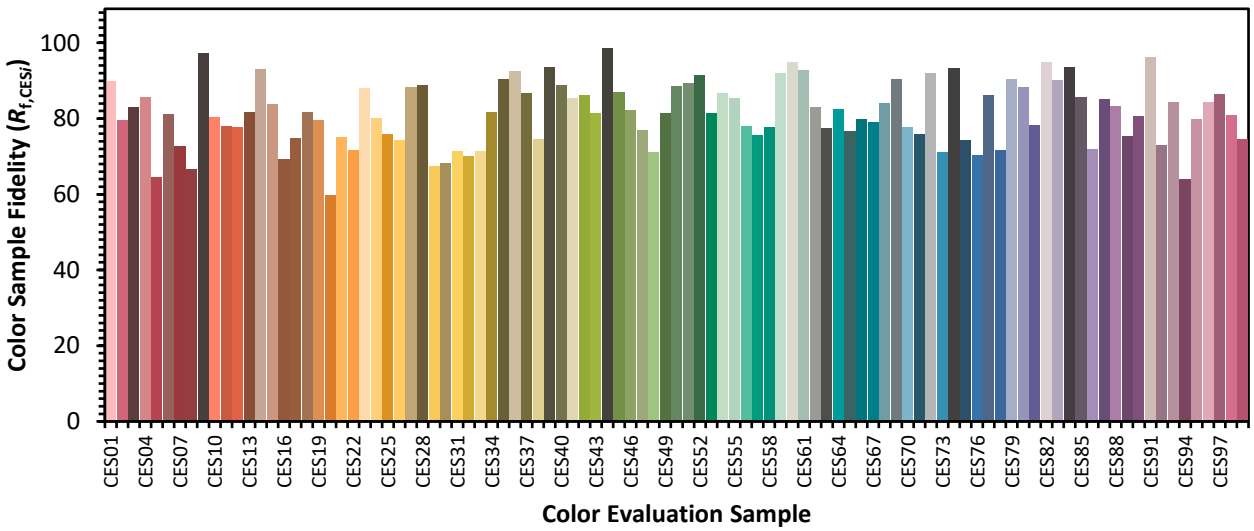


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

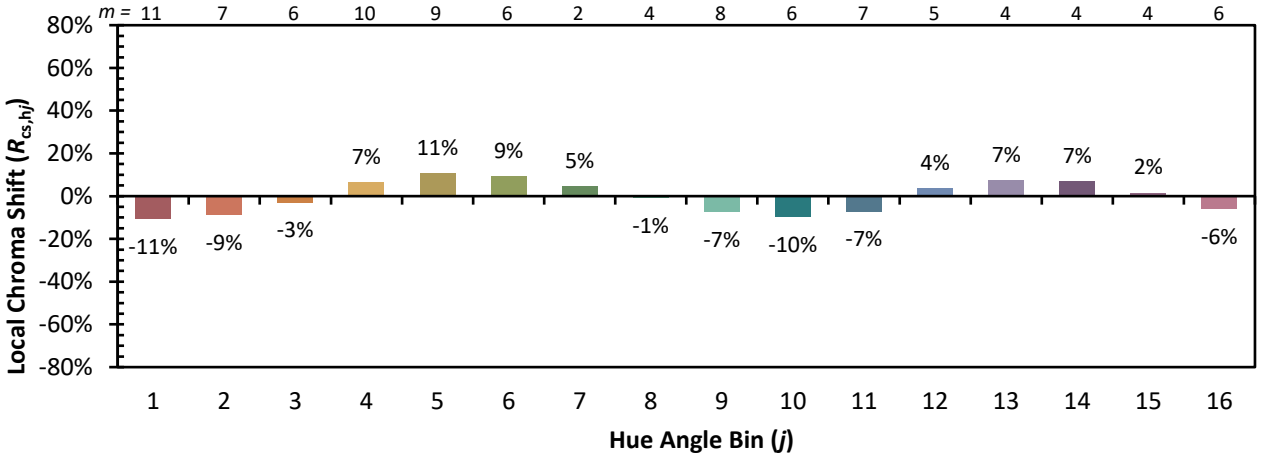
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

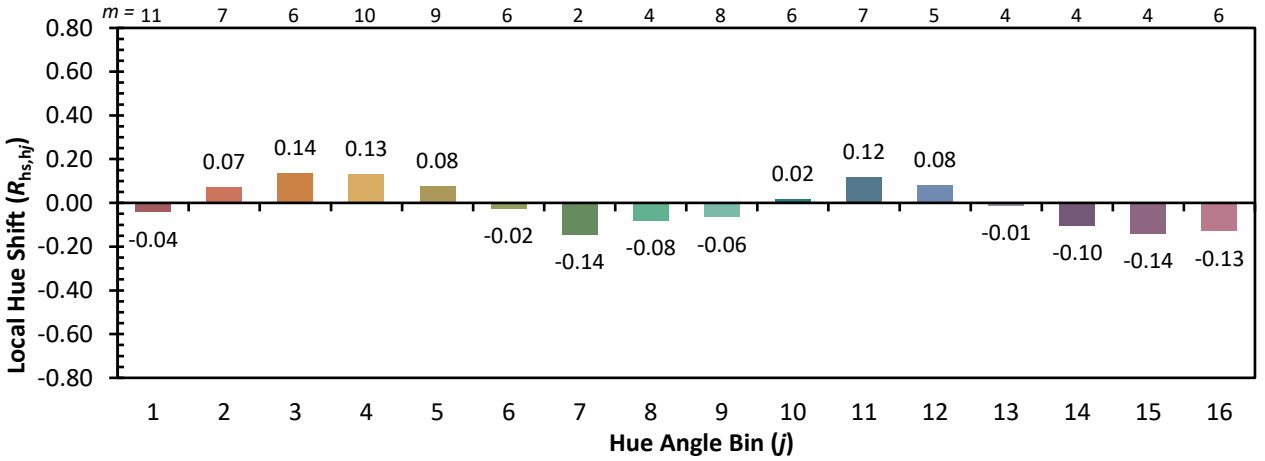


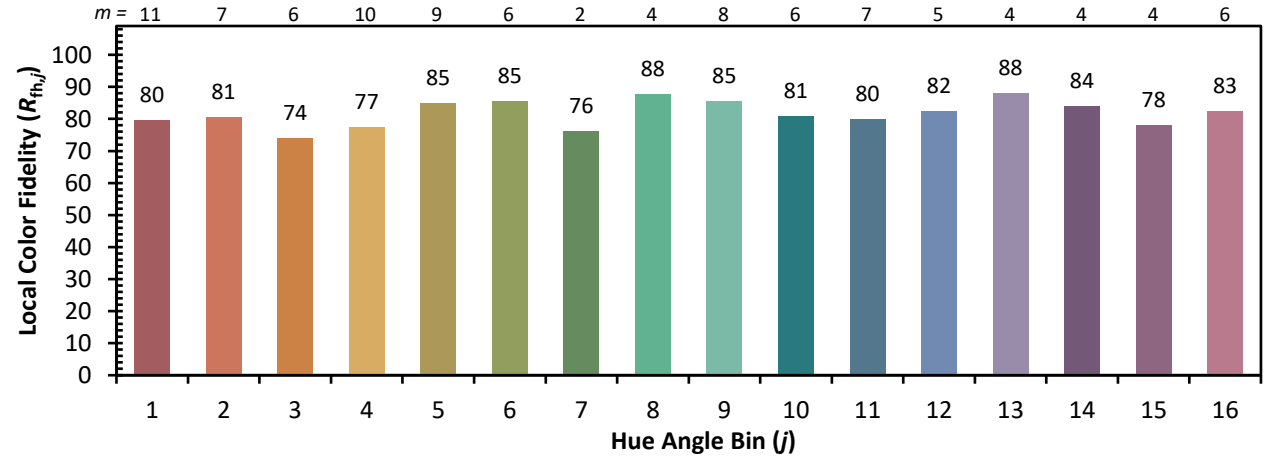
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



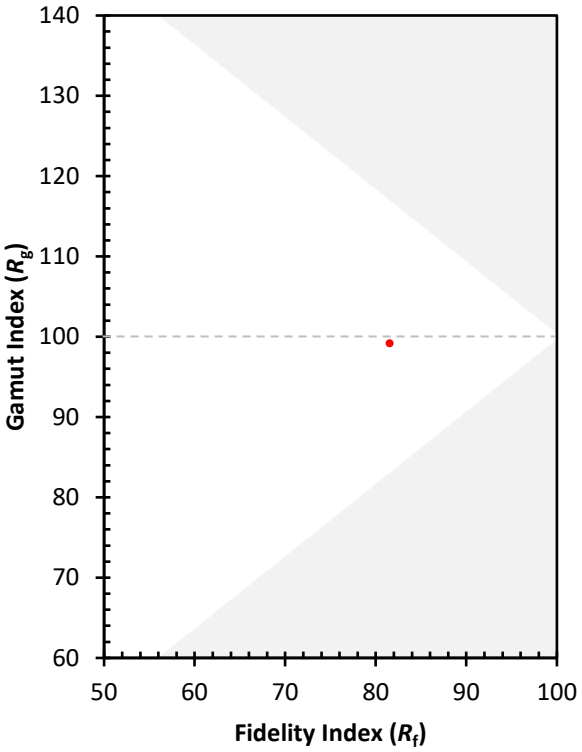


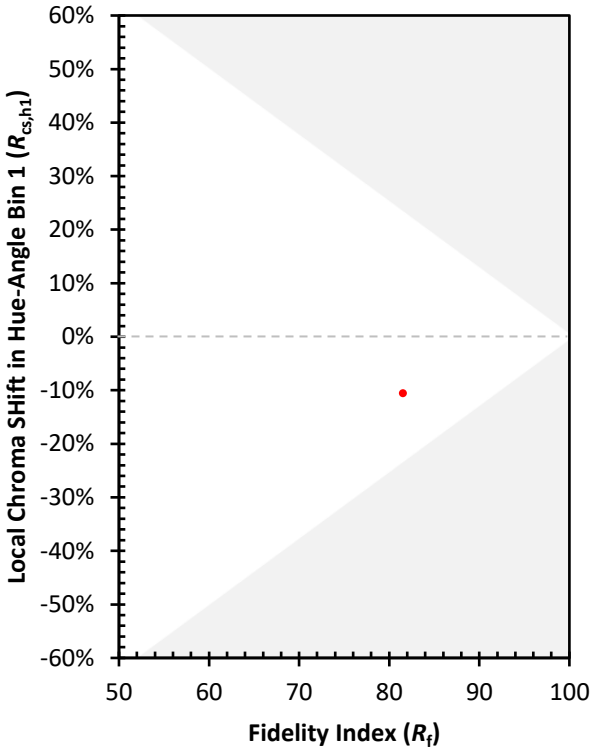


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)