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: P640977

Luminaire Tested: GWS-SA5E-830-U-T3R-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:	P640977
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5E-830-U-T3R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	23345.2 lumens
Efficiency:	N/A
Efficacy:	86.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G4

Input Watts (W):	269.6
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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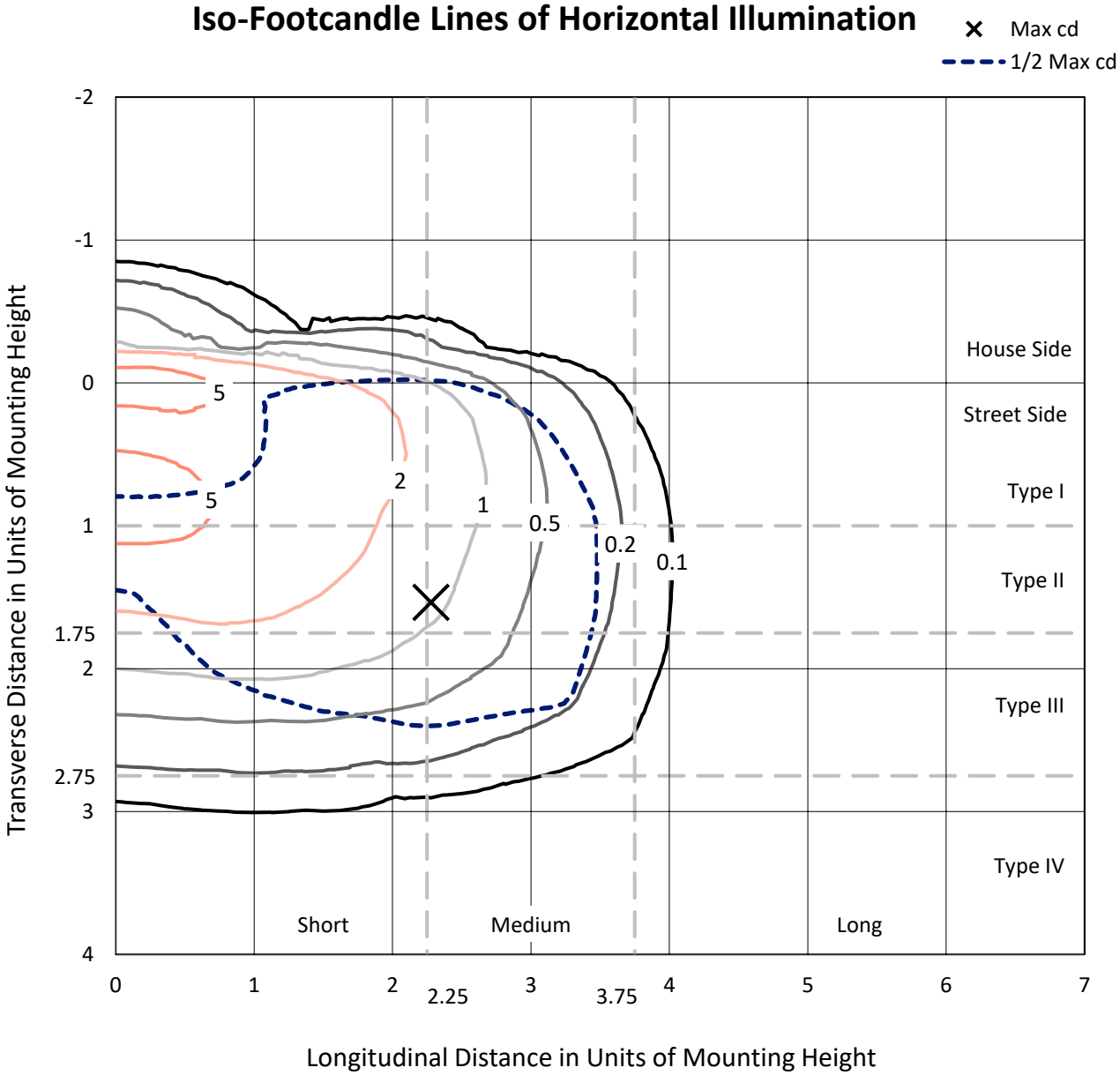
Scaled Data Report

REPORT NUMBER: P640977
CATALOG NUMBER: GWS-SA5E-830-U-T3R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type III - Medium - N/A

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REPORT NUMBER: P640977
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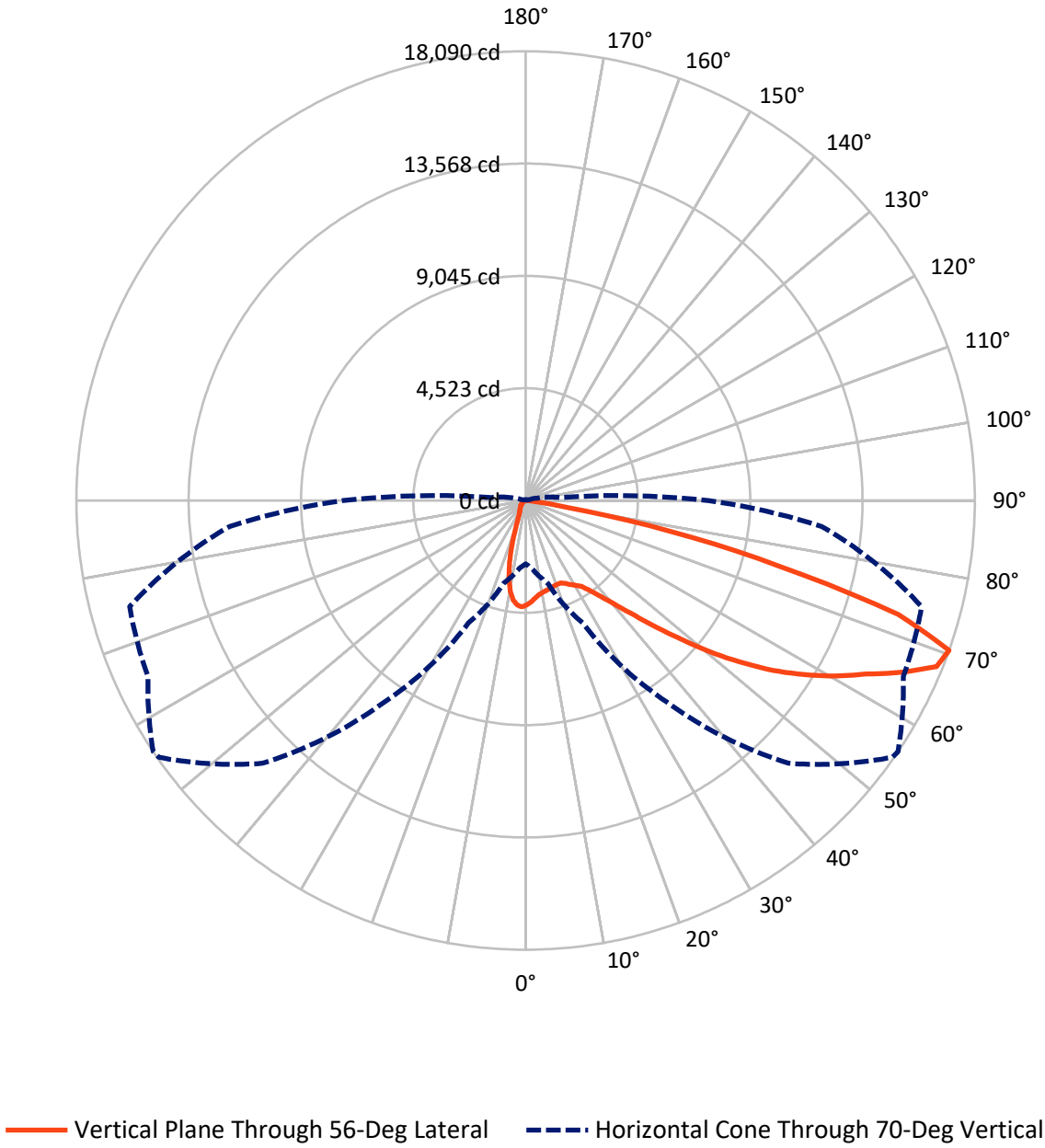
Luminous Intensity Polar Plot



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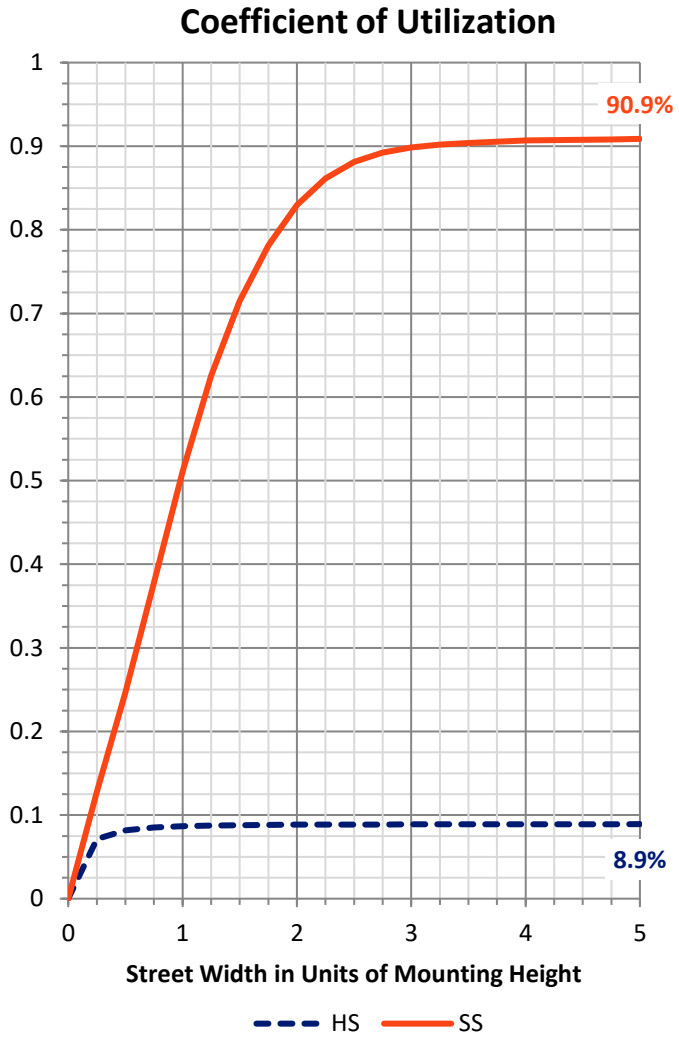
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2096.8	0.0	2096.8
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	21248.4	0.0	21248.4
	% Fixture	91.0	0.0	91.0
Total	Lumens	23345.2	0.0	23345.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.4	1.5
10°-20°	812.9	3.5
20°-30°	1287.6	5.5
30°-40°	2220.4	9.5
40°-50°	3749.5	16.1
50°-60°	5509.2	23.6
60°-70°	6531.5	28.0
70°-80°	2785.3	11.9
80°-90°	87.5	0.4
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°	23345.2	100.0
0°-180°	23345.2	100.0



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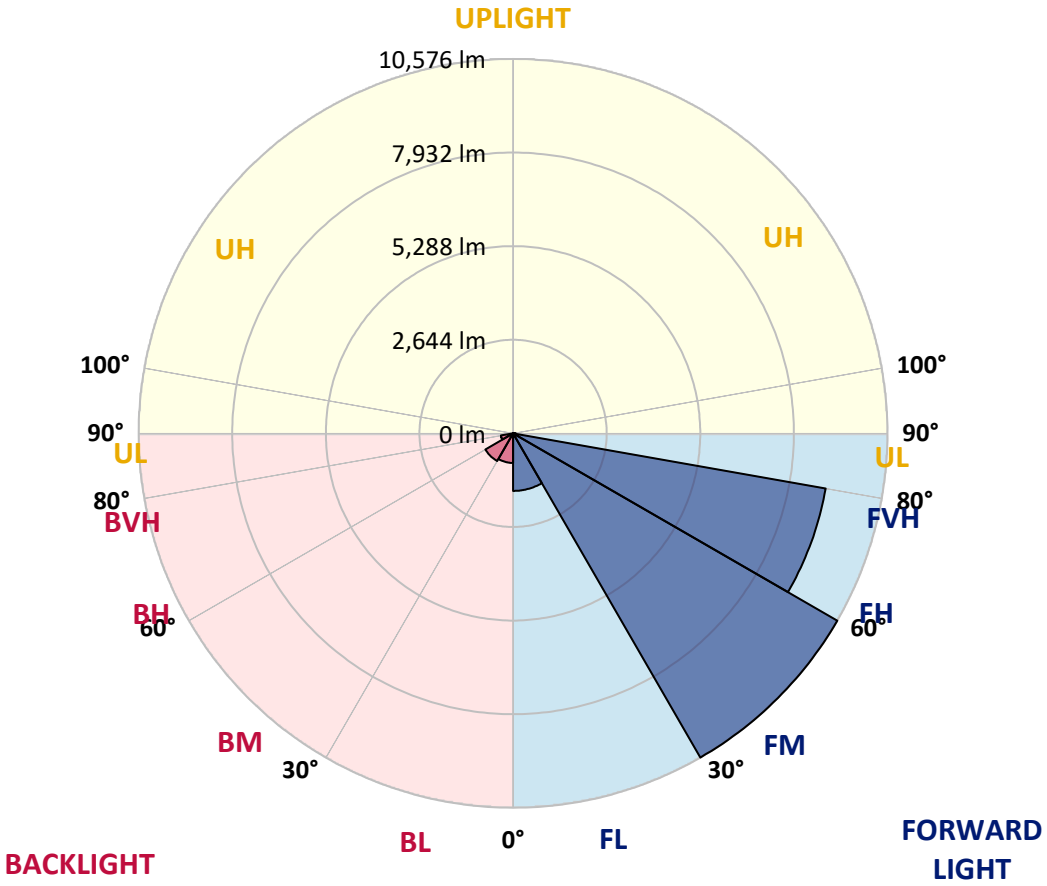
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1626.7	7.0			
FM	(30°-60°)	10576.0	45.3			
FH	(60°-80°)	8967.1	38.4			G4/12000
FVH	(80°-90°)	78.6	0.3			G1/100
BL	(0°-30°)	835.1	3.6	B2/1000		
BM	(30°-60°)	903.1	3.9	B1/1000		
BH	(60°-80°)	349.7	1.5	B1/500		G1/500
BVH	(80°-90°)	8.9	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-G4
Type III Medium



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REPORT NUMBER: P640977
CATALOG NUMBER: GWS-SA5E-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4209.4	4209.4	4209.4	4209.4	4209.4	4209.4	4209.4	*4209.4*	4209.4	4209.4	4209.4
2.5°	3918.6	3912.2	3916.5	3948.6	4008.4	4036.2	4083.2	*4091.8*	4130.3	4179.4	4198.7
5°	3664.2	3642.9	3653.5	3698.4	3766.8	3843.8	3931.5	*3955.0*	4051.2	4160.2	4241.4
7.5°	3431.2	3407.7	3433.3	3503.9	3600.1	3683.5	3813.9	*3828.8*	3982.8	4175.2	4322.7
10°	3065.6	3072.1	3123.4	3247.4	3394.9	3568.0	3743.3	*3764.7*	3955.0	4224.3	4453.1
12.5°	2785.6	2770.6	2826.2	2967.3	3174.7	3426.9	3689.9	*3717.7*	3957.1	4299.2	4619.8
15°	2655.2	2650.9	2674.4	2777.0	2978.0	3275.1	3640.7	*3677.1*	3984.9	4367.6	4778.0
17.5°	2659.5	2653.0	2650.9	2710.8	2860.4	3161.8	3587.3	*3634.3*	4008.4	4442.4	4944.8
20°	2845.4	2815.5	2762.1	2734.3	2824.1	3089.2	3550.9	*3604.4*	4042.6	4521.5	5122.2
22.5°	3234.5	3245.2	3102.0	2952.3	2909.6	3097.7	3546.6	*3608.6*	4117.4	4645.5	5340.3
25°	4012.7	3995.6	3730.5	3394.9	3161.8	3196.0	3621.5	*3696.3*	4265.0	4822.9	5545.5
27.5°	4987.5	5002.5	4639.1	4104.6	3617.2	3399.1	3758.3	*3833.1*	4436.0	4934.1	5682.3
30°	6050.0	6035.1	5646.0	5053.8	4262.8	3736.9	3895.1	*3961.4*	4521.5	4994.0	5823.4
32.5°	7054.8	7020.6	6635.8	6015.8	5085.9	4269.2	4083.2	*4121.7*	4634.8	5124.4	6013.7
35°	7912.1	7909.9	7574.3	6913.7	5932.5	4936.2	4406.1	*4438.1*	4846.4	5331.7	6293.8
37.5°	8797.1	8767.2	8391.0	7788.1	6802.6	5667.4	4899.9	*4887.1*	5179.9	5637.4	6637.9
40°	9524.0	9504.8	9216.2	8636.8	7706.9	6475.5	5498.5	*5460.0*	5575.4	6060.7	7116.8
42.5°	10062.7	10064.9	9975.1	9622.3	8664.6	7409.7	6251.0	*6191.1*	6189.0	6699.9	7749.6
45°	10471.1	10498.9	10633.5	10580.1	9795.5	8497.8	7215.2	*7153.2*	7048.4	7529.4	8474.3
47.5°	10661.3	10697.7	11103.9	11317.6	10785.3	9577.4	8363.2	*8232.8*	8027.5	8632.5	9284.6
50°	10642.1	10706.2	11272.7	11922.6	11683.2	10672.0	9613.8	*9551.8*	9216.2	9799.8	10086.3
52.5°	10206.0	10342.8	11283.4	12290.3	12373.7	11681.1	10907.2	*10791.7*	10629.3	11018.3	10838.8
55°	9021.6	9188.4	10832.4	12407.9	12912.5	12561.9	12172.8	*12078.7*	11809.3	12168.5	11495.1
57.5°	8378.1	8521.4	9883.2	12350.2	13369.9	13376.4	13299.4	*13222.4*	13000.1	13305.8	12264.7
60°	7991.2	8134.4	9376.5	12138.6	13784.7	14235.8	14357.6	*14349.1*	14028.4	14599.2	13166.9
62.5°	7424.7	7621.3	8848.5	11589.1	14079.7	15082.3	15450.1	*15392.3*	15035.3	15946.0	14060.5
65°	6280.9	6452.0	7766.7	10682.7	13906.5	15783.6	16634.4	*16664.3*	16251.7	17213.8	14765.9
67.5°	4403.9	4530.0	5836.3	8780.0	12730.7	16014.4	17846.6	*17844.4*	17141.1	17863.7	14453.8
70°	*2552.6*	*2725.7*	*3448.3*	*5427.9*	*9904.5*	*14964.8*	*18028.3*	*18090.3*	*16779.8*	*16506.1*	*11961.1*
72.5°	987.7	1130.9	1954.0	2883.9	5165.0	11463.0	15507.8	*15689.5*	14043.4	12732.9	8324.7
75°	295.0	329.2	919.3	1535.0	2073.7	5537.0	10498.9	*10550.2*	9633.0	7942.0	4267.1
77.5°	220.2	243.7	401.9	776.0	726.9	1678.2	5432.2	*5932.5*	5113.7	2836.9	1175.8
80°	149.6	177.4	286.5	378.4	269.4	446.8	1526.4	*1676.1*	1560.6	637.1	295.0
82.5°	66.3	85.5	203.1	190.3	98.3	128.3	470.3	*500.3*	322.8	192.4	102.6
85°	6.4	8.6	77.0	83.4	36.3	29.9	98.3	*98.3*	70.5	66.3	42.8
87.5°	0.0	0.0	2.1	4.3	4.3	6.4	8.6	*10.7*	12.8	17.1	21.4
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: P640977
CATALOG NUMBER: GWS-SA5E-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4209.4	4209.4	4209.4	4209.4	4209.4	4209.4	4209.4	4209.4	4209.4	4209.4	4209.4
2.5°	4247.9	4222.2	4254.3	4279.9	4286.3	4239.3	4211.5	4170.9	4162.3	4164.5	4153.8
5°	4305.6	4292.7	4316.3	4288.5	4215.8	4079.0	3961.4	3831.0	3760.4	3719.8	3715.5
7.5°	4412.5	4406.1	4380.4	4254.3	4027.7	3724.1	3431.2	3144.7	2967.3	2903.2	2892.5
10°	4570.7	4557.8	4453.1	4153.8	3670.6	3087.0	2595.3	2184.9	1934.7	1862.0	1772.3
12.5°	4752.4	4726.7	4498.0	3937.9	3131.9	2323.8	1710.3	1250.6	1034.7	970.6	970.6
15°	4927.7	4872.1	4472.3	3580.9	2469.2	1511.4	955.6	722.6	656.3	639.2	639.2
17.5°	5107.3	5000.4	4371.8	3093.4	1706.0	893.6	637.1	592.2	583.6	585.8	587.9
20°	5276.1	5109.4	4194.4	2507.7	1088.2	624.2	570.8	560.1	555.8	560.1	558.0
22.5°	5460.0	5209.9	3925.0	1868.5	707.6	562.2	543.0	534.5	530.2	536.6	536.6
25°	5641.7	5282.6	3568.0	1257.0	562.2	523.8	513.1	504.5	500.3	502.4	502.4
27.5°	5735.8	5254.8	3099.8	801.7	504.5	485.3	474.6	463.9	457.5	455.4	457.5
30°	5799.9	5169.3	2526.9	570.8	457.5	434.0	423.3	414.7	397.6	386.9	391.2
32.5°	5900.4	5083.7	1904.8	478.9	419.0	382.7	365.6	344.2	320.7	310.0	310.0
35°	6020.1	4966.2	1336.1	431.8	378.4	339.9	307.8	271.5	243.7	235.2	235.2
37.5°	6178.3	4855.0	889.3	399.8	344.2	303.6	258.7	215.9	186.0	181.7	179.6
40°	6415.6	4760.9	626.4	376.3	314.3	265.1	211.6	166.8	145.4	139.0	139.0
42.5°	6723.5	4664.7	496.0	352.7	288.6	228.7	168.9	132.5	115.4	111.2	109.0
45°	7104.0	4551.4	431.8	331.4	263.0	190.3	134.7	111.2	98.3	94.1	94.1
47.5°	7516.6	4397.5	401.9	303.6	233.0	153.9	113.3	96.2	89.8	87.7	85.5
50°	7922.8	4190.1	376.3	277.9	198.8	126.1	98.3	87.7	83.4	81.2	81.2
52.5°	8277.7	3948.6	344.2	248.0	162.5	109.0	87.7	81.2	77.0	72.7	70.5
55°	8581.2	3685.6	303.6	213.8	132.5	96.2	81.2	74.8	70.5	66.3	64.1
57.5°	8972.4	3536.0	243.7	173.2	109.0	85.5	74.8	68.4	64.1	57.7	57.7
60°	9406.4	3426.9	181.7	136.8	94.1	79.1	68.4	62.0	57.7	51.3	51.3
62.5°	9754.9	3264.5	143.2	111.2	81.2	70.5	62.0	55.6	51.3	44.9	44.9
65°	9887.4	2928.8	117.6	87.7	66.3	62.0	55.6	51.3	44.9	38.5	38.5
67.5°	9288.8	2257.5	98.3	70.5	55.6	53.4	49.2	47.0	38.5	34.2	32.1
70°	*7356.3*	*1376.8*	*81.2*	*57.7*	*47.0*	*44.9*	*44.9*	*40.6*	*34.2*	*32.1*	*29.9*
72.5°	5041.0	709.8	66.3	47.0	40.6	40.6	38.5	36.3	32.1	29.9	29.9
75°	2618.8	237.3	51.3	36.3	32.1	34.2	34.2	32.1	29.9	29.9	27.8
77.5°	750.4	106.9	38.5	27.8	25.7	25.7	27.8	27.8	27.8	25.7	25.7
80°	194.5	62.0	27.8	21.4	21.4	21.4	21.4	23.5	25.7	23.5	23.5
82.5°	79.1	34.2	19.2	17.1	17.1	17.1	17.1	19.2	21.4	21.4	21.4
85°	49.2	17.1	15.0	15.0	15.0	12.8	12.8	15.0	15.0	17.1	17.1
87.5°	29.9	12.8	12.8	12.8	12.8	10.7	10.7	10.7	10.7	10.7	10.7
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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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

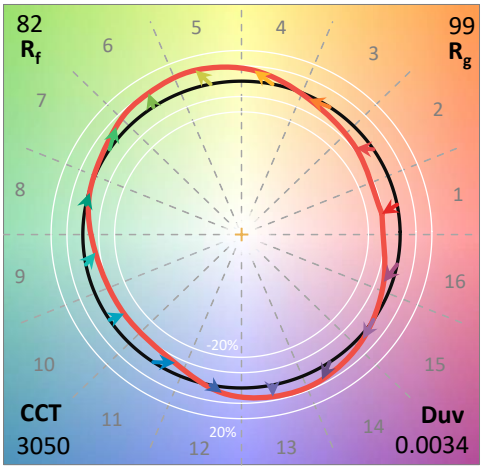
Test Information

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

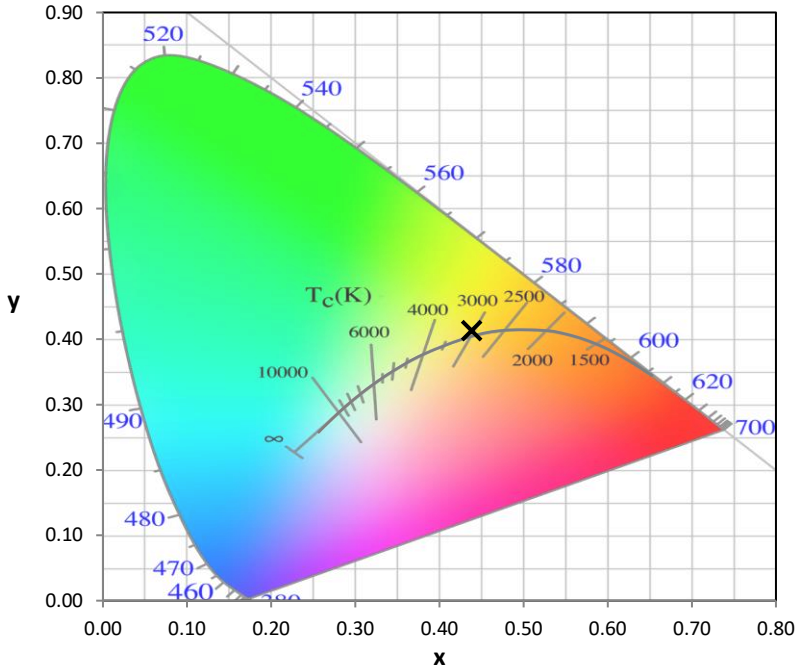
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

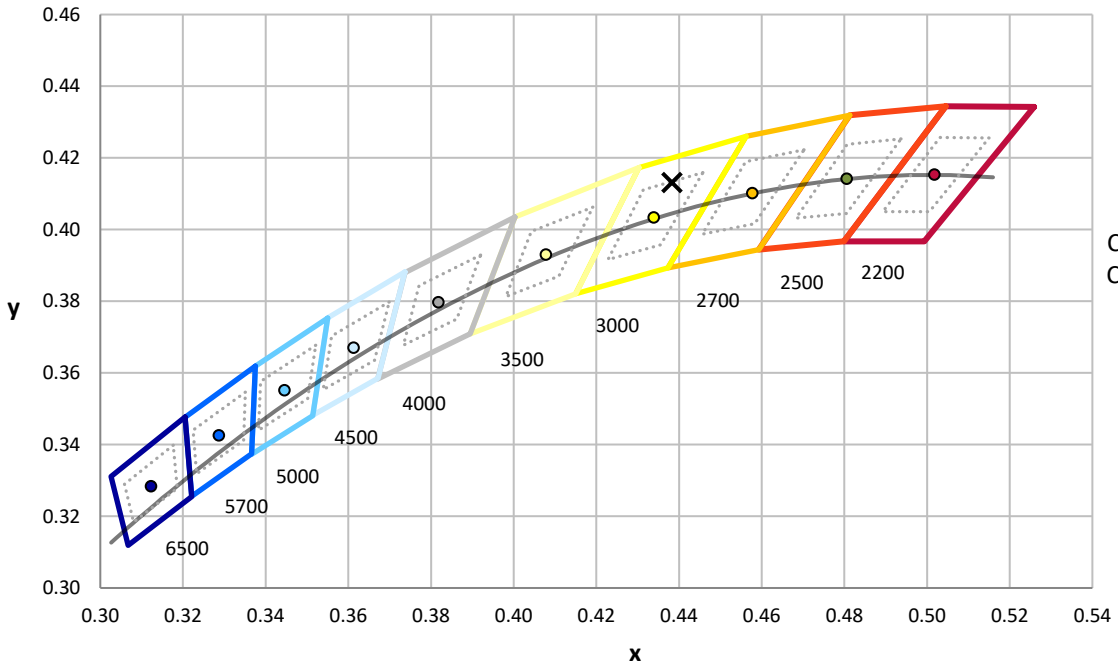
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

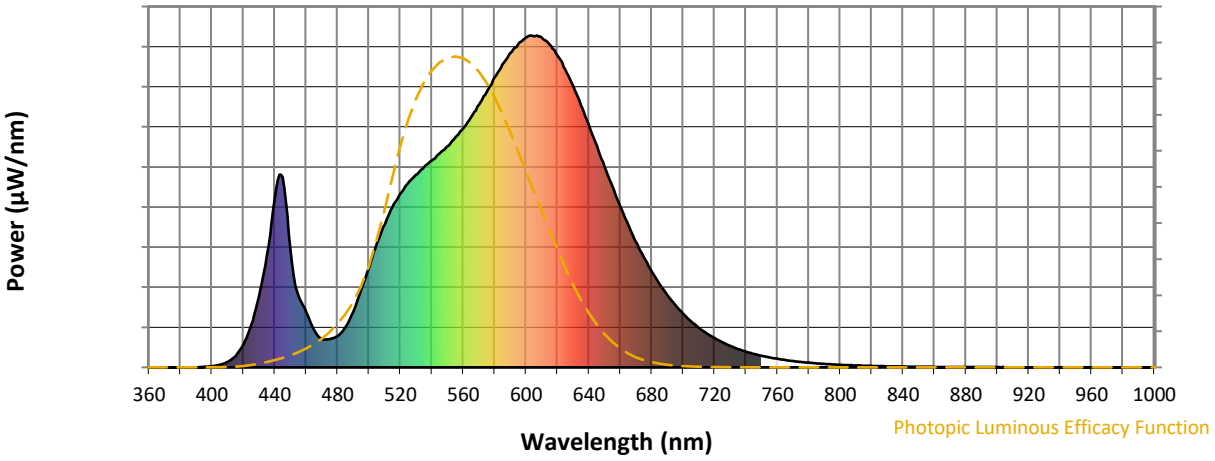


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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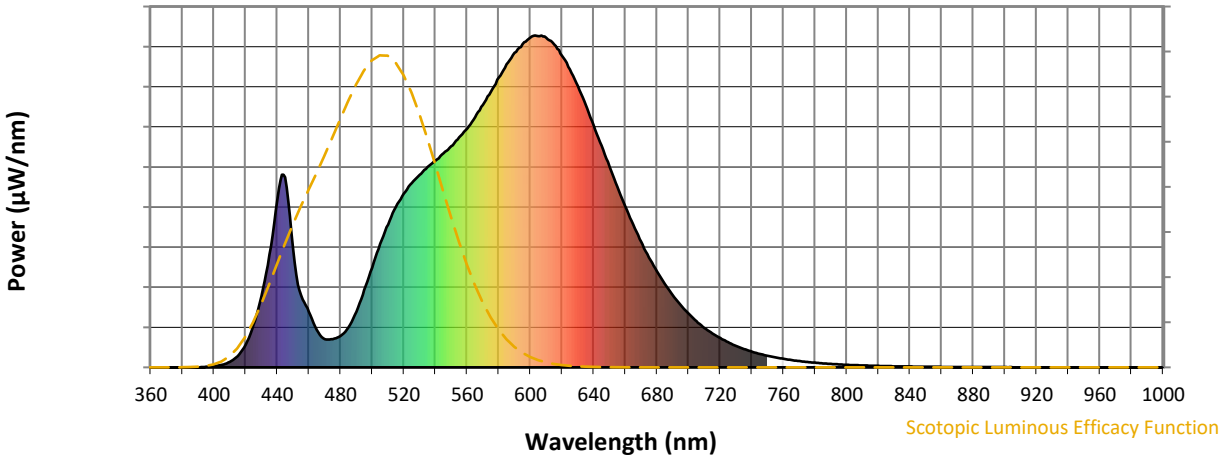
Scotopic Flux vs. Wavelength



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			

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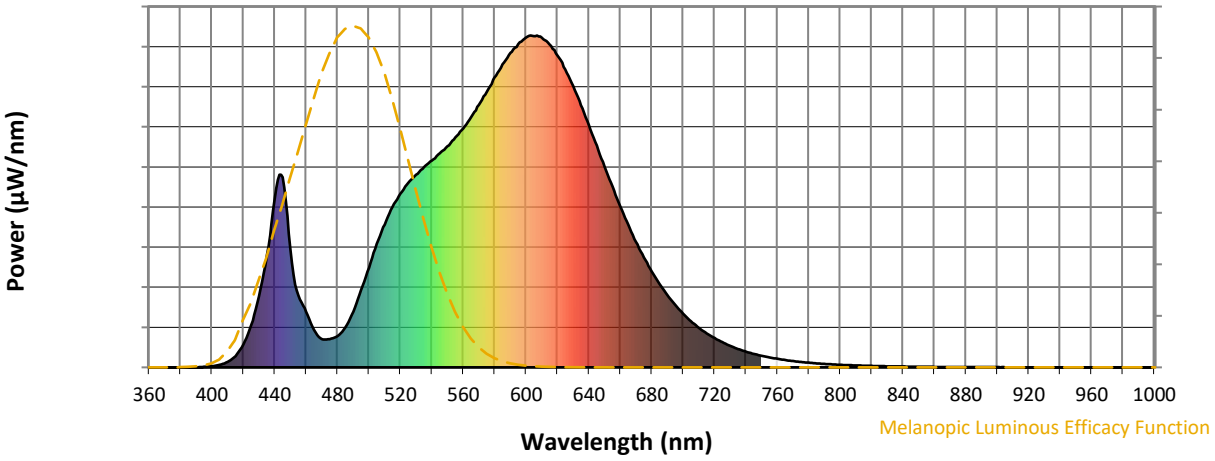
Melanopic Flux vs. Wavelength



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			

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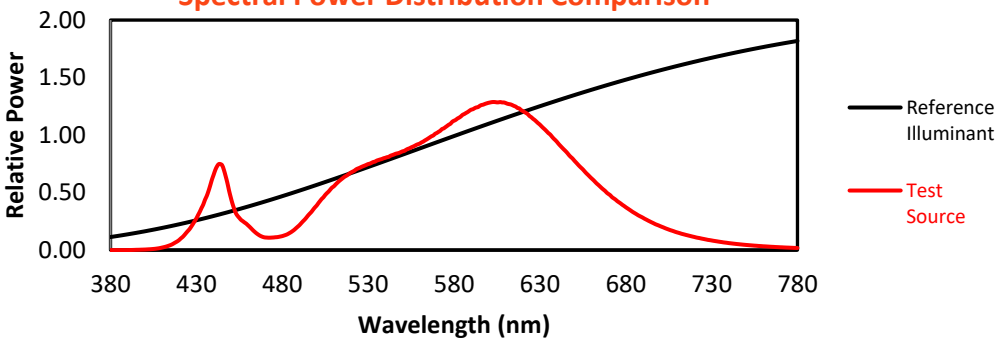
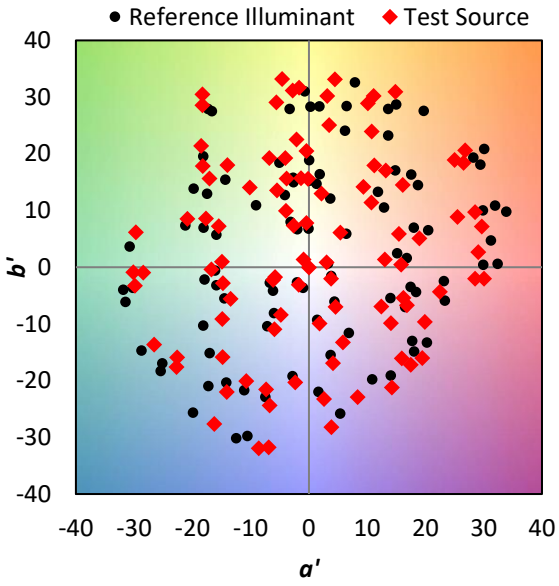
Summary

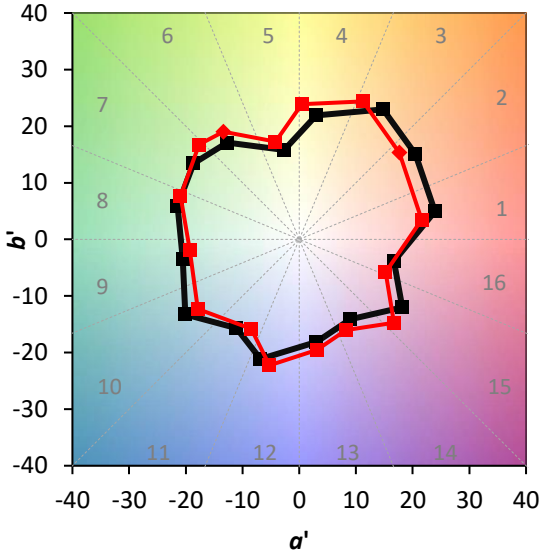
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

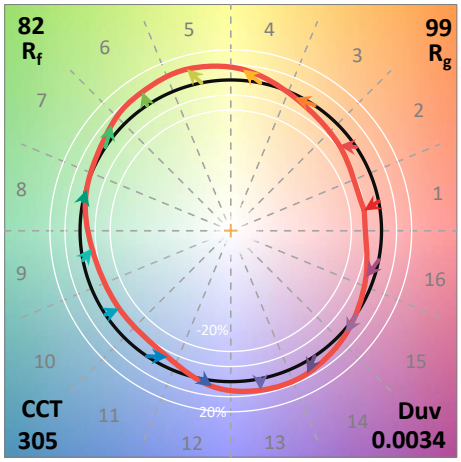
Spectral Power Distribution Comparison

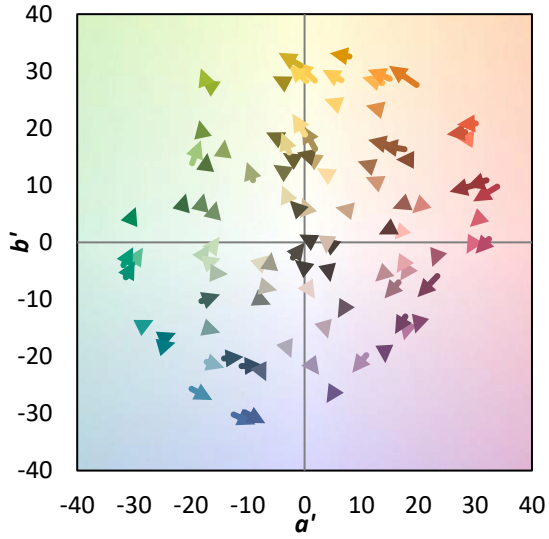


Color Vector Graphics









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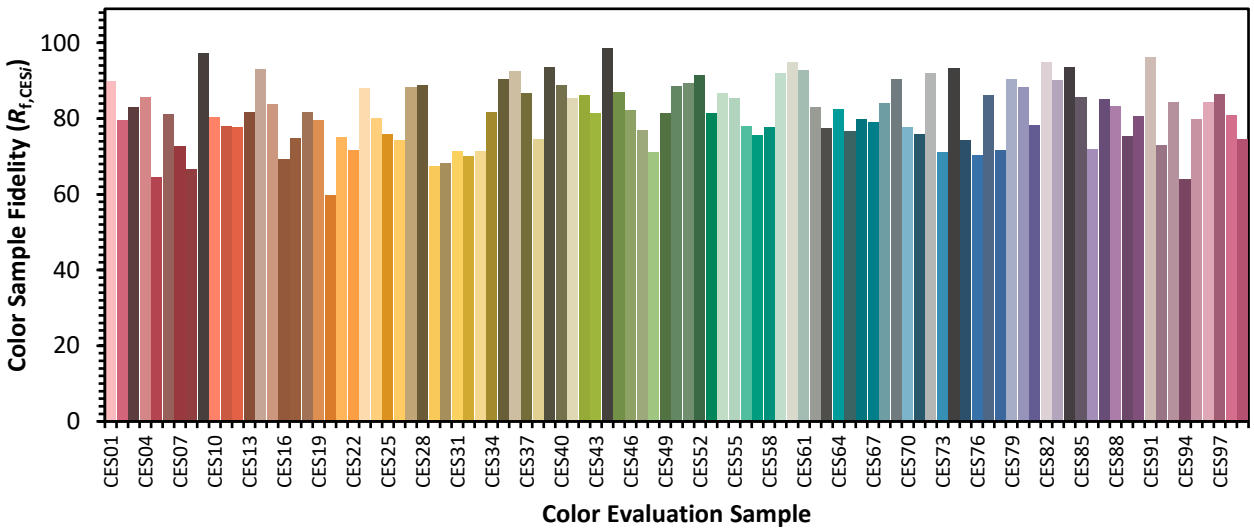
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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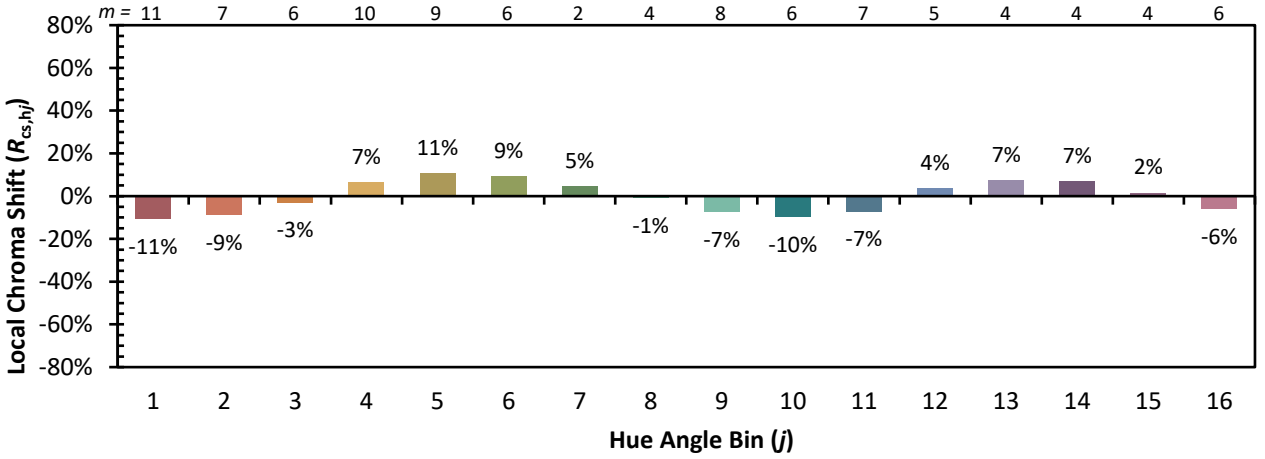
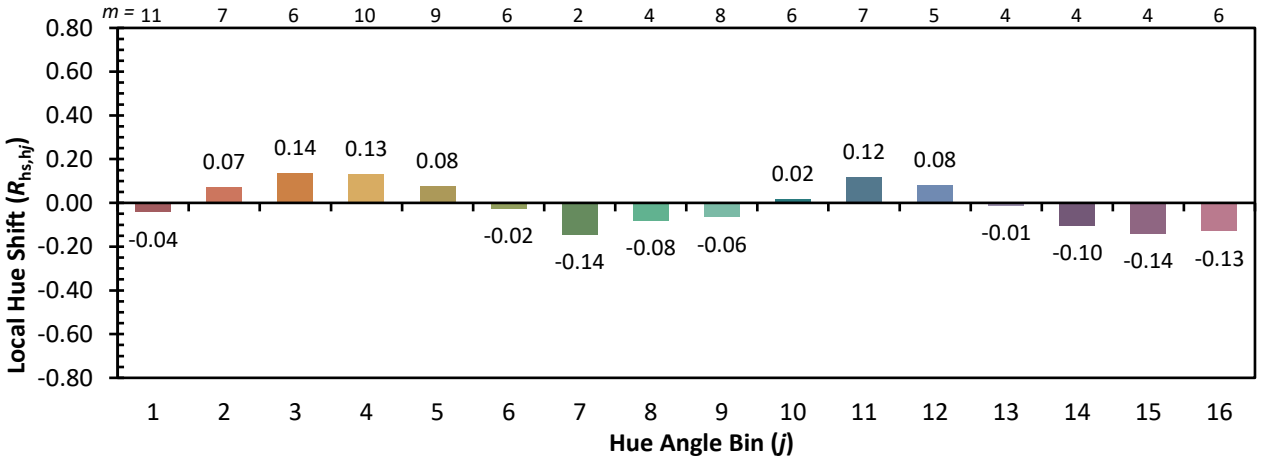
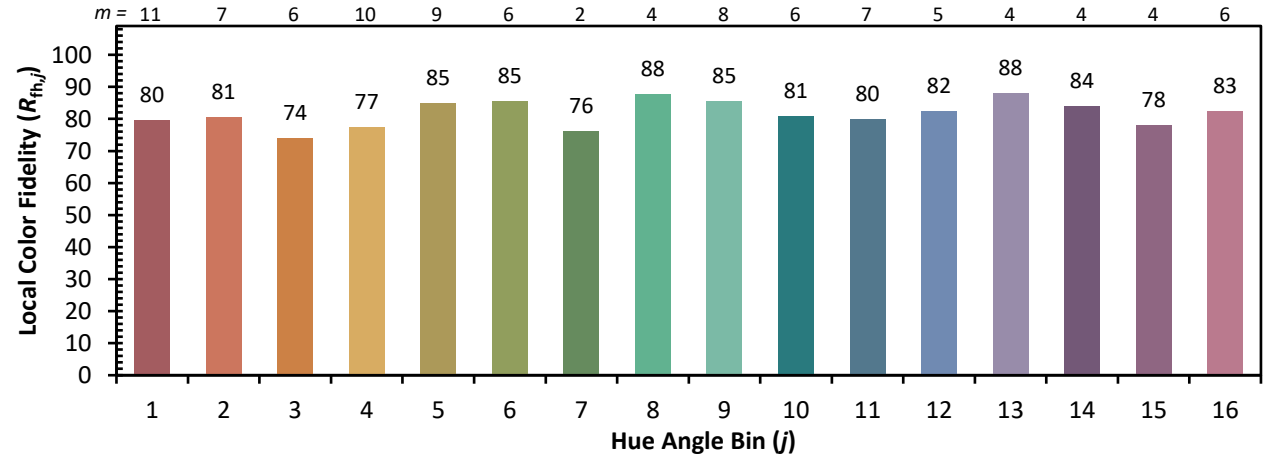
Color Rendition by Hue-Angle Bin







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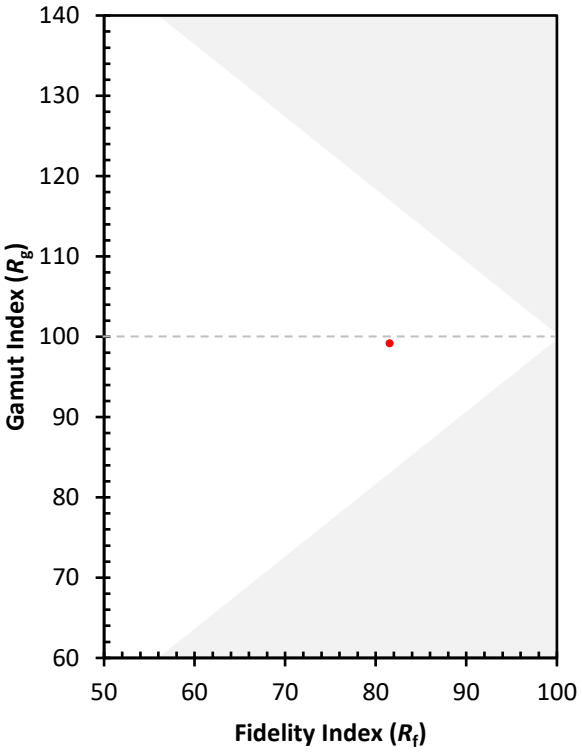
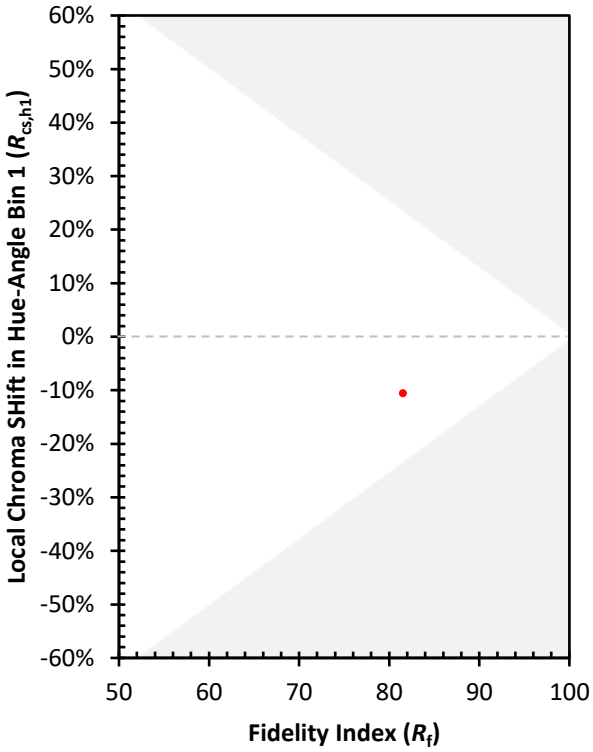
Measure Comparisons





(END OF REPORT)