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: P637513

Luminaire Tested: GWS-SA4C-830-U-T3R-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:	P637513
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA4C-830-U-T3R-W
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15676.3 lumens
Efficiency:	N/A
Efficacy:	122.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G3

Input Watts (W):	128.5
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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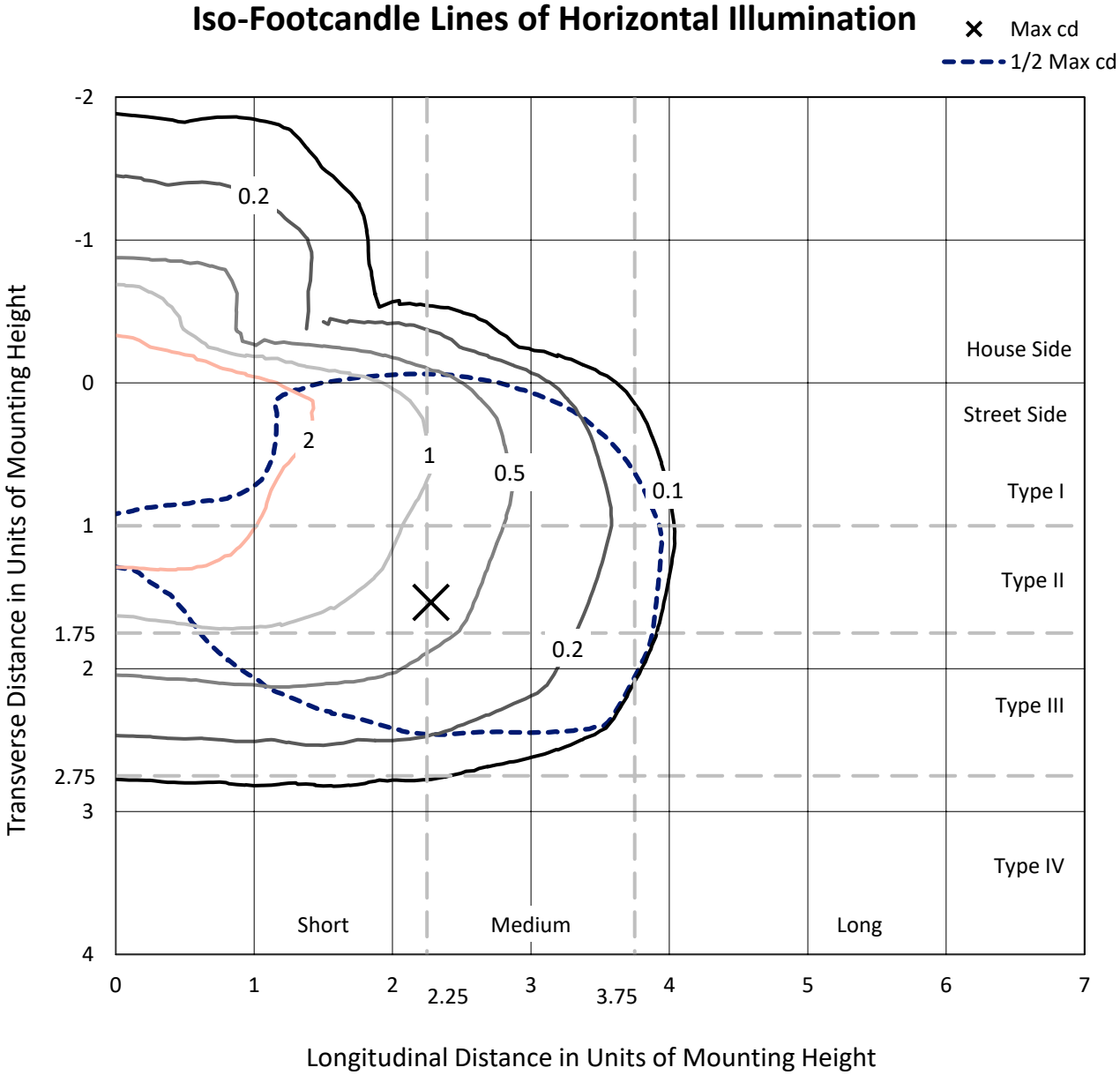
Scaled Data Report

REPORT NUMBER: P637513
CATALOG NUMBER: GWS-SA4C-830-U-T3R-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type III - Medium - N/A

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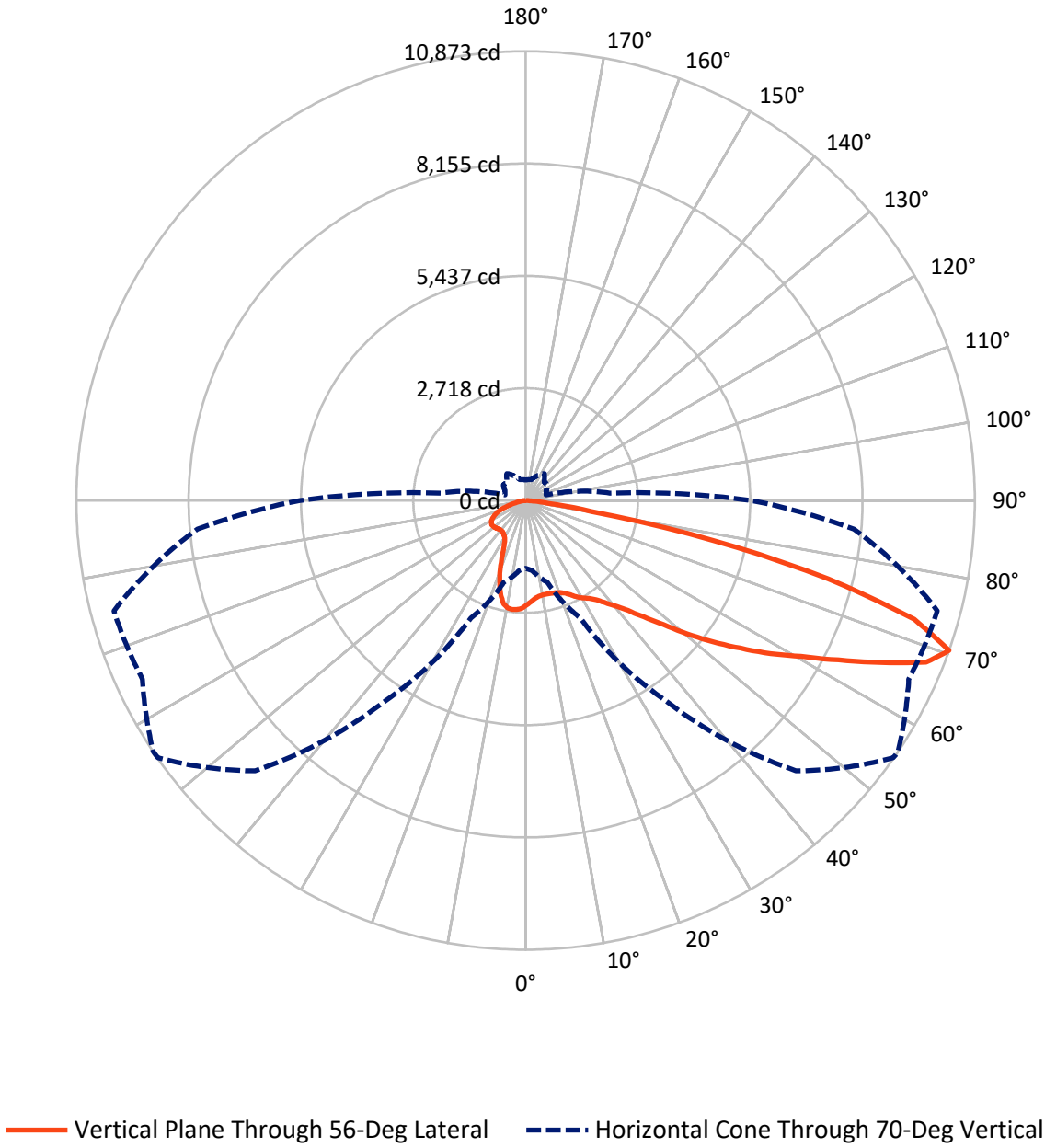
Luminous Intensity Polar Plot



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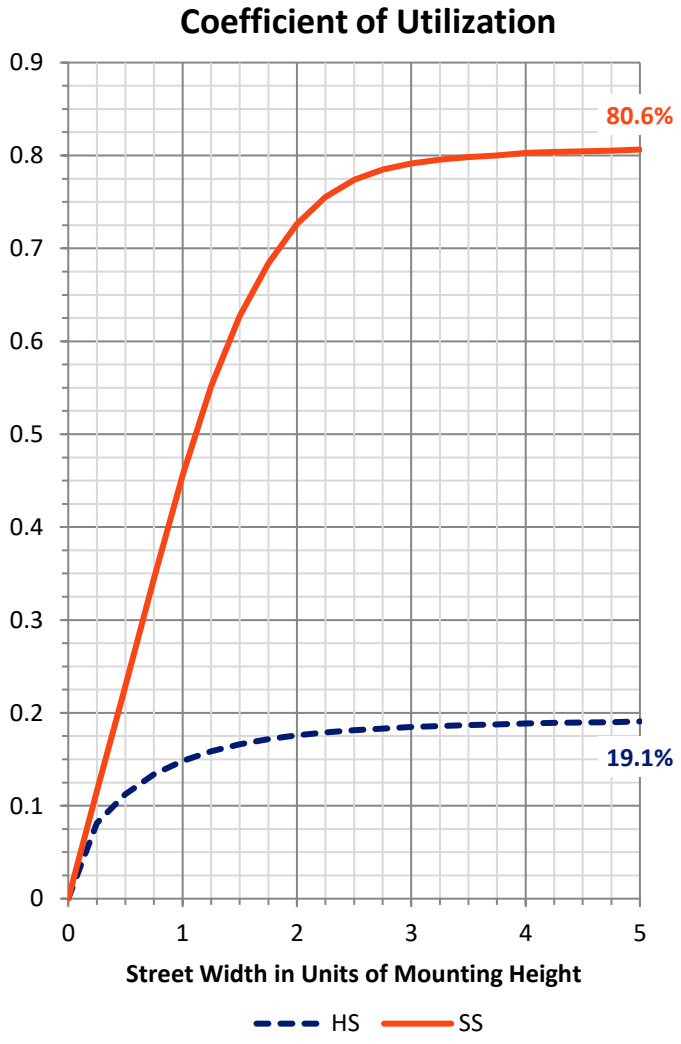
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3013.8	0.0	3013.8
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	12662.5	0.0	12662.5
	% Fixture	80.8	0.0	80.8
Total	Lumens	15676.3	0.0	15676.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.2	1.5
10°-20°	634.5	4.0
20°-30°	1048.9	6.7
30°-40°	1568.3	10.0
40°-50°	2333.9	14.9
50°-60°	3318.1	21.2
60°-70°	4109.5	26.2
70°-80°	2269.2	14.5
80°-90°	159.8	1.0
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°	15676.3	100.0
0°-180°	15676.3	100.0



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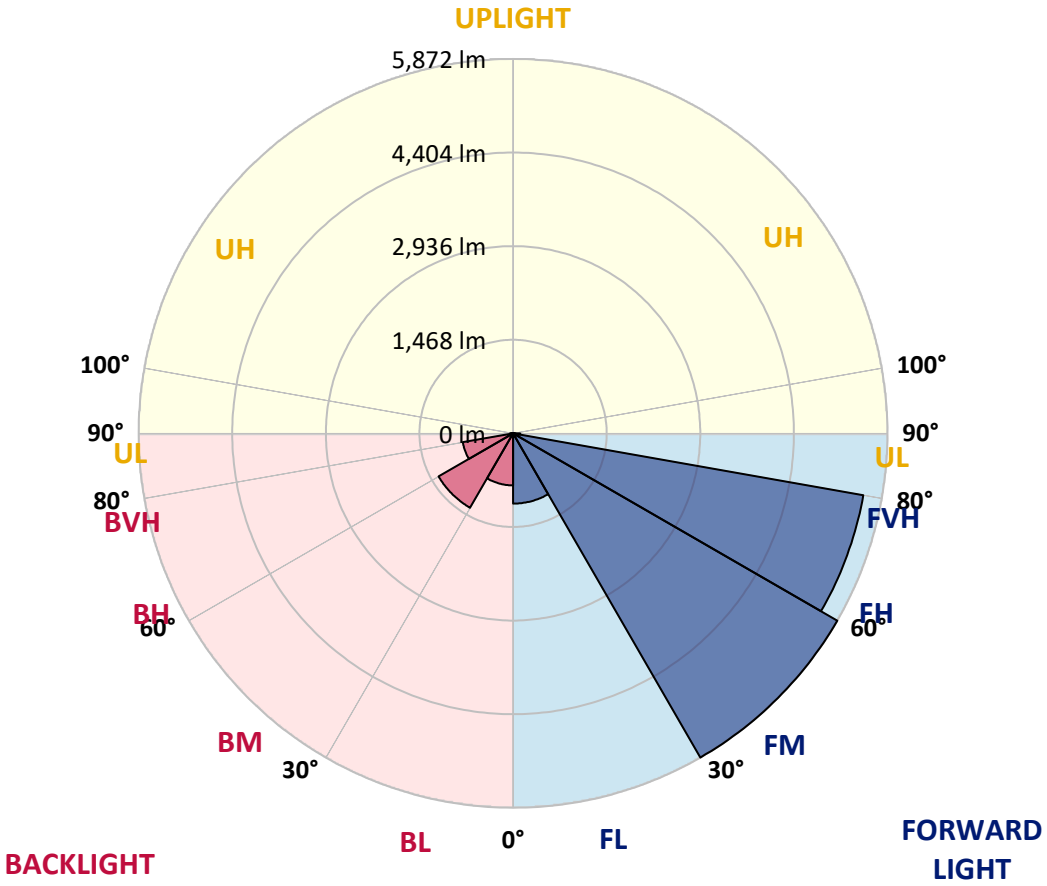
REPORT NUMBER: P637513
CATALOG NUMBER: GWS-SA4C-830-U-T3R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1101.7	7.0			
FM	(30°-60°)	5872.1	37.5			
FH	(60°-80°)	5577.6	35.6			G3/7500
FVH	(80°-90°)	111.1	0.7			G2/225
BL	(0°-30°)	815.9	5.2	B2/1000		
BM	(30°-60°)	1348.1	8.6	B2/2500		
BH	(60°-80°)	801.0	5.1	B2/1000		G2/1000
BVH	(80°-90°)	48.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type III Medium



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Scaled Data Report

REPORT NUMBER: P637513
CATALOG NUMBER: GWS-SA4C-830-U-T3R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	*2530.4*	2530.4	2530.4	2530.4
2.5°	2367.9	2354.6	2370.1	2377.8	2397.7	2426.5	2451.9	*2453.0*	2466.3	2498.3	2529.3
5°	2260.7	2254.0	2258.5	2281.7	2302.7	2339.2	2377.8	*2381.2*	2418.7	2481.8	2543.7
7.5°	2177.8	2168.9	2185.5	2215.3	2241.9	2282.8	2333.6	*2338.0*	2391.1	2486.2	2581.2
10°	2058.4	2051.7	2082.7	2122.5	2180.0	2247.4	2314.8	*2320.4*	2390.0	2514.9	2647.6
12.5°	2006.4	2006.4	2019.7	2057.3	2120.3	2209.8	2311.5	*2320.4*	2407.7	2559.1	2732.7
15°	2087.1	2092.6	2081.6	2079.4	2104.8	2189.9	2315.9	*2329.2*	2440.9	2604.5	2816.7
17.5°	2249.6	2255.1	2226.4	2181.1	2155.6	2208.7	2332.5	*2346.9*	2476.2	2654.2	2907.4
20°	2477.3	2484.0	2421.0	2351.3	2264.0	2262.9	2364.6	*2377.8*	2521.6	2708.4	3003.5
22.5°	2743.7	2748.2	2668.6	2558.0	2424.3	2363.5	2419.9	*2433.1*	2580.1	2783.5	3107.4
25°	3052.2	3065.4	2969.3	2809.0	2627.7	2501.7	2511.6	*2527.1*	2685.2	2884.1	3230.2
27.5°	3381.6	3398.2	3287.6	3110.8	2860.9	2654.2	2629.9	*2643.2*	2796.8	2946.0	3295.4
30°	3718.8	3730.9	3620.4	3418.1	3111.9	2826.7	2729.4	*2737.1*	2845.5	2975.9	3361.7
32.5°	4093.5	4083.6	3977.4	3744.2	3401.5	3033.4	2822.2	*2820.0*	2899.6	3035.6	3456.8
35°	4445.1	4459.4	4346.7	4089.1	3719.9	3288.7	2961.5	*2952.7*	3014.6	3132.9	3590.5
37.5°	4870.7	4866.2	4731.4	4452.8	4039.3	3533.0	3157.2	*3141.7*	3163.8	3284.3	3777.4
40°	5174.7	5205.6	5118.3	4858.5	4413.0	3833.7	3386.0	*3351.8*	3357.3	3471.1	4027.2
42.5°	5423.4	5452.1	5461.0	5295.1	4840.8	4205.2	3671.2	*3637.0*	3640.3	3801.7	4334.5
45°	5614.6	5653.3	5778.2	5729.6	5322.8	4634.1	4057.0	*4021.7*	4023.9	4203.0	4705.9
47.5°	5693.1	5735.1	5988.3	6104.3	5834.6	5147.0	4536.8	*4484.8*	4492.6	4690.5	5130.4
50°	5667.7	5724.1	6066.8	6392.9	6263.5	5668.8	5110.5	*5074.1*	5044.2	5331.6	5591.4
52.5°	5448.8	5510.7	6059.0	6576.4	6614.0	6161.8	5703.1	*5682.1*	5675.4	6012.6	6106.6
55°	4804.3	4908.2	5792.6	6625.0	6888.1	6626.1	6345.3	*6310.0*	6344.2	6742.2	6627.2
57.5°	4447.3	4524.6	5270.8	6570.8	7112.5	7068.3	6986.5	*6989.8*	7028.5	7534.8	7258.4
60°	4243.9	4334.5	4981.2	6422.7	7328.1	7605.6	7657.5	*7657.5*	7727.2	8389.3	7899.6
62.5°	3974.1	4065.9	4710.4	6137.5	7527.1	8237.9	8501.0	*8497.7*	8525.3	9305.8	8526.4
65°	3426.9	3512.0	4166.5	5687.6	7624.4	8934.3	9459.4	*9449.5*	9394.2	10121.6	8941.0
67.5°	2488.4	2569.1	3191.5	4832.0	7273.9	9495.9	10446.6	*10451.0*	10120.5	10635.6	8963.1
70°	*1640.5*	*1695.8*	*2051.7*	*3138.4*	*5915.3*	*9253.8*	*10860.0*	*10873.3*	*10232.1*	*10315.0*	*7977.0*
72.5°	1023.7	1062.3	1281.2	1871.5	3495.5	7324.8	9798.8	*9835.3*	9205.2	9064.8	6554.3
75°	679.9	706.4	852.3	1091.1	1617.3	3964.2	7448.6	*7565.8*	7377.8	7105.9	4566.7
77.5°	409.0	431.1	542.8	693.1	716.3	1548.7	4347.8	*4650.7*	4677.2	3709.9	1912.4
80°	186.8	212.2	299.6	395.8	381.4	539.5	1533.3	*1604.0*	1892.5	1178.4	603.6
82.5°	110.5	121.6	199.0	196.8	162.5	262.0	551.6	*566.0*	480.9	431.1	257.6
85°	44.2	52.0	84.0	74.1	59.7	85.1	207.8	*217.8*	208.9	187.9	95.1
87.5°	0.0	0.0	0.0	0.0	1.1	2.2	18.8	*19.9*	28.7	52.0	28.7
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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REPORT NUMBER: P637513
CATALOG NUMBER: GWS-SA4C-830-U-T3R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4	2530.4
2.5°	2549.2	2542.6	2575.7	2601.1	2612.2	2623.3	2613.3	2610.0	2610.0	2587.9	2576.8
5°	2576.8	2580.1	2625.5	2646.5	2646.5	2637.6	2611.1	2592.3	2585.7	2556.9	2549.2
7.5°	2628.8	2643.2	2685.2	2684.1	2653.1	2604.5	2538.1	2487.3	2440.9	2421.0	2408.8
10°	2713.9	2732.7	2761.4	2715.0	2628.8	2500.5	2360.2	2249.6	2183.3	2130.2	2130.2
12.5°	2811.2	2828.9	2823.3	2716.1	2538.1	2298.2	2096.0	1968.8	1876.0	1827.3	1827.3
15°	2908.5	2922.8	2863.1	2665.3	2349.1	2029.6	1808.5	1656.0	1575.3	1530.0	1530.0
17.5°	3006.8	3005.7	2879.7	2548.1	2102.6	1732.3	1515.6	1397.3	1369.7	1361.9	1360.8
20°	3101.9	3076.5	2858.7	2352.4	1816.3	1432.7	1295.6	1303.3	1344.2	1361.9	1364.1
22.5°	3209.1	3146.1	2796.8	2102.6	1491.3	1224.8	1233.7	1297.8	1357.5	1384.0	1387.4
25°	3318.6	3205.8	2692.9	1809.6	1219.3	1148.6	1217.1	1289.0	1356.4	1390.7	1394.0
27.5°	3362.8	3205.8	2516.0	1470.3	1074.5	1116.5	1191.7	1261.3	1332.1	1371.9	1379.6
30°	3399.3	3178.2	2268.4	1164.0	1014.8	1085.6	1150.8	1214.9	1284.5	1333.2	1342.0
32.5°	3450.1	3153.9	1968.8	978.3	987.2	1055.7	1101.0	1155.2	1218.2	1250.3	1247.0
35°	3509.8	3116.3	1607.3	889.9	964.0	1030.3	1062.3	1094.4	1065.7	1064.6	1067.9
37.5°	3595.0	3083.1	1292.3	850.1	948.5	1012.6	1039.1	970.6	930.8	914.2	907.6
40°	3717.7	3069.9	1019.2	826.9	946.3	1011.5	992.7	886.6	832.4	774.9	773.8
42.5°	3872.4	3059.9	842.4	815.8	954.0	1036.9	928.6	831.3	719.7	694.2	692.0
45°	4071.4	3044.4	753.9	813.6	972.8	1056.8	922.0	755.0	678.8	667.7	667.7
47.5°	4311.3	3020.1	714.1	813.6	993.8	1048.0	902.1	738.4	660.0	672.1	679.9
50°	4586.5	2989.2	693.1	811.4	1014.8	1048.0	860.0	735.1	655.5	718.5	744.0
52.5°	4880.6	2953.8	678.8	802.6	1029.2	1049.1	862.3	746.2	660.0	729.6	750.6
55°	5205.6	2948.3	658.9	783.8	1033.6	1020.3	867.8	770.5	666.6	661.1	662.2
57.5°	5615.7	3014.6	644.5	756.1	1015.9	961.7	878.8	788.2	658.9	660.0	667.7
60°	6044.7	3139.5	656.6	729.6	979.4	906.5	886.6	779.3	621.3	603.6	605.8
62.5°	6409.5	3234.6	666.6	717.4	926.4	857.8	878.8	759.5	600.3	595.8	605.8
65°	6562.0	3156.1	642.3	692.0	849.0	798.1	862.3	734.0	582.6	566.0	567.1
67.5°	6392.9	2788.0	594.7	635.6	761.7	721.9	835.7	700.9	558.3	538.4	533.9
70°	*5461.0*	*2048.4*	*512.9*	*546.1*	*655.5*	*632.3*	*794.8*	*657.7*	*519.6*	*505.2*	*495.2*
72.5°	4400.8	1450.4	425.6	434.4	514.0	532.8	724.1	603.6	475.3	434.4	420.1
75°	3063.2	910.9	354.9	346.0	371.4	406.8	564.9	500.8	410.1	367.0	353.7
77.5°	1317.7	467.6	277.5	273.0	247.6	281.9	433.3	417.9	343.8	294.1	286.3
80°	441.1	270.8	200.1	192.3	164.7	197.9	305.1	333.8	269.7	217.8	204.5
82.5°	221.1	157.0	127.1	115.0	110.5	124.9	180.2	207.8	186.8	150.3	127.1
85°	108.3	89.5	69.6	68.5	57.5	54.2	75.2	88.4	84.0	61.9	58.6
87.5°	39.8	35.4	22.1	17.7	11.1	7.7	4.4	4.4	3.3	3.3	3.3
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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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

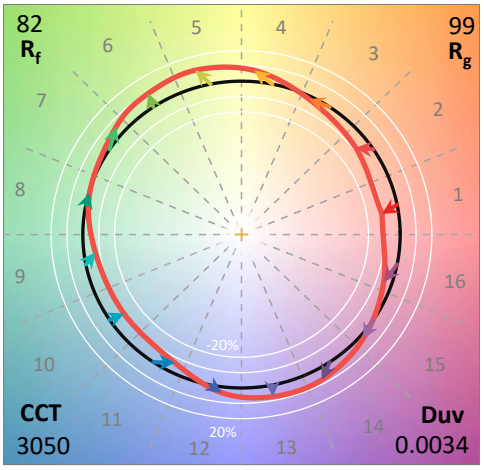
Test Information

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

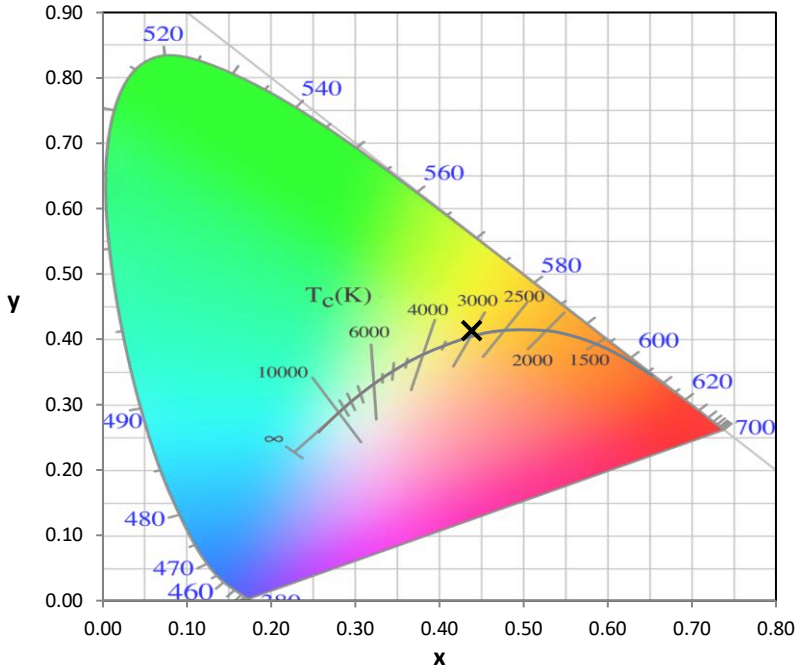
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

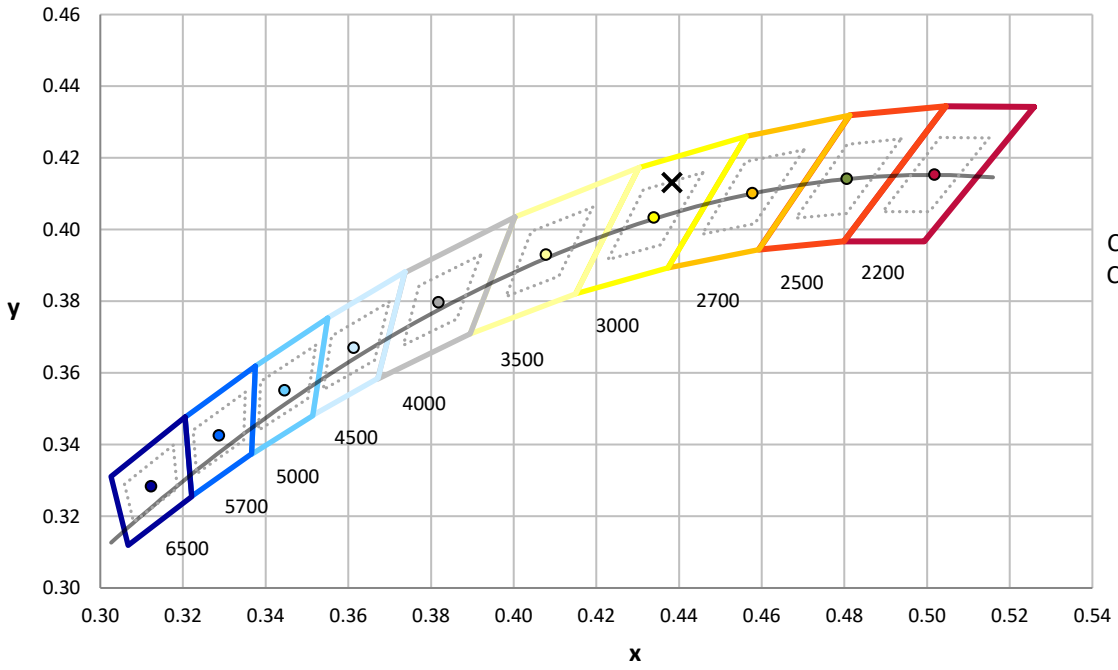
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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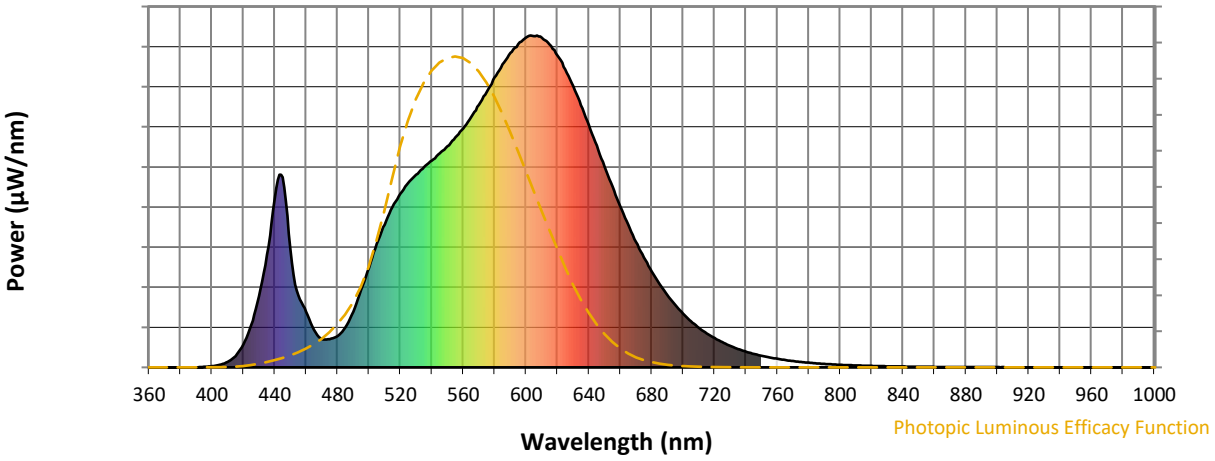
Photopic Flux vs. Wavelength



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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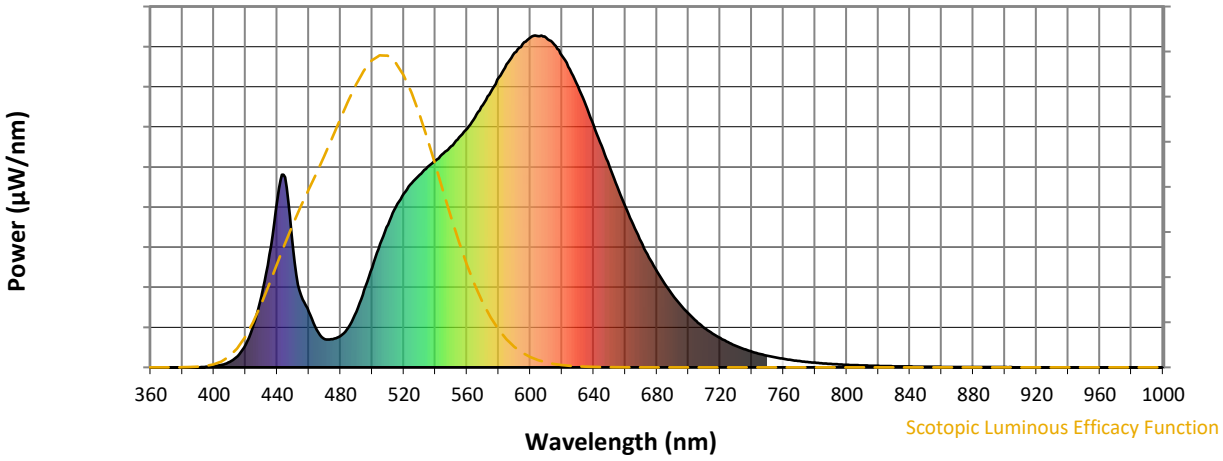
Scotopic Flux vs. Wavelength



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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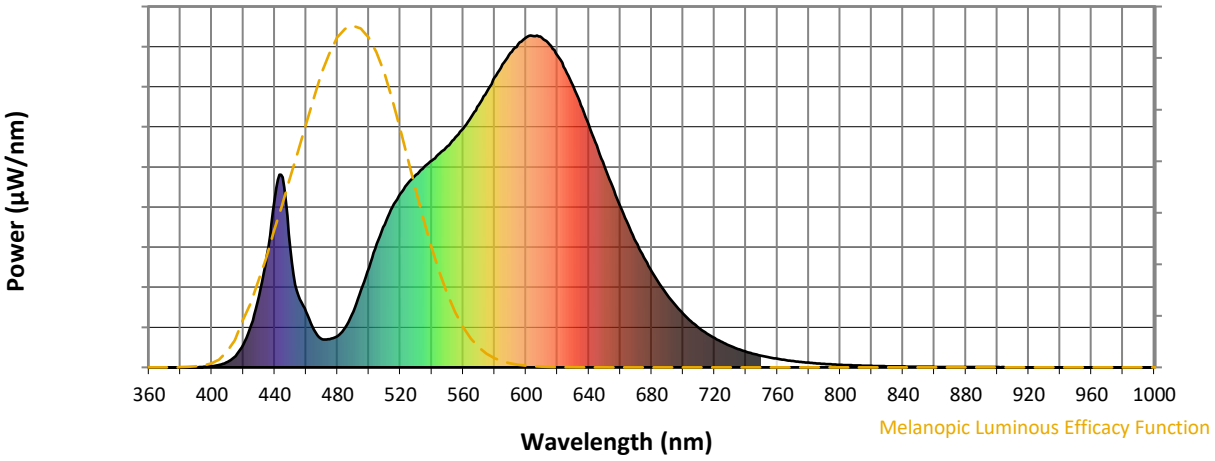
Melanopic Flux vs. Wavelength



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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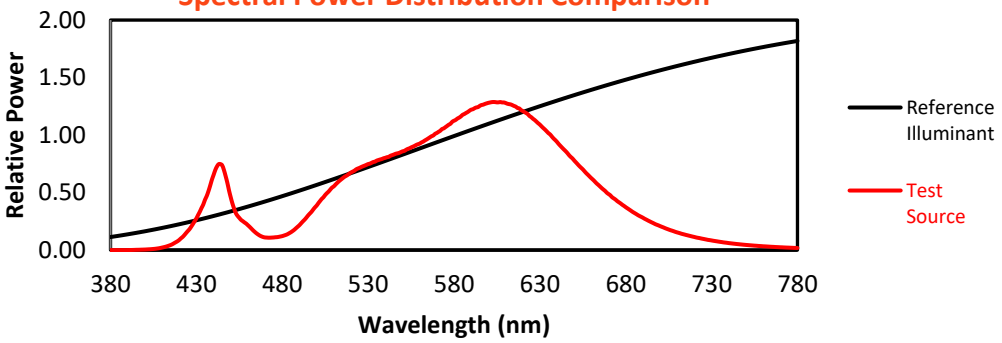
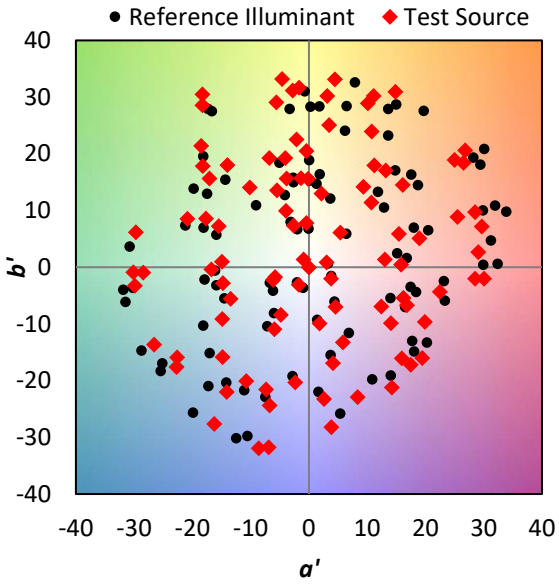
Summary

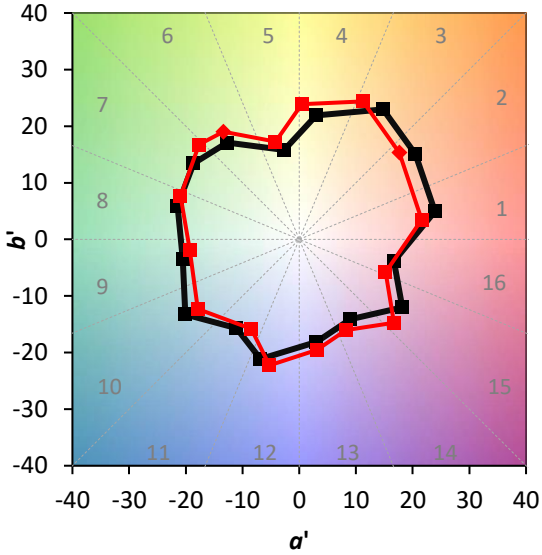
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

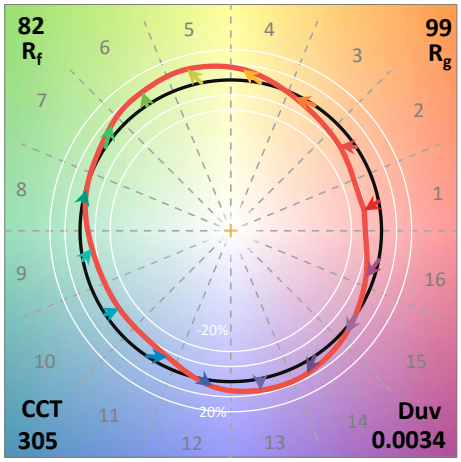
Spectral Power Distribution Comparison

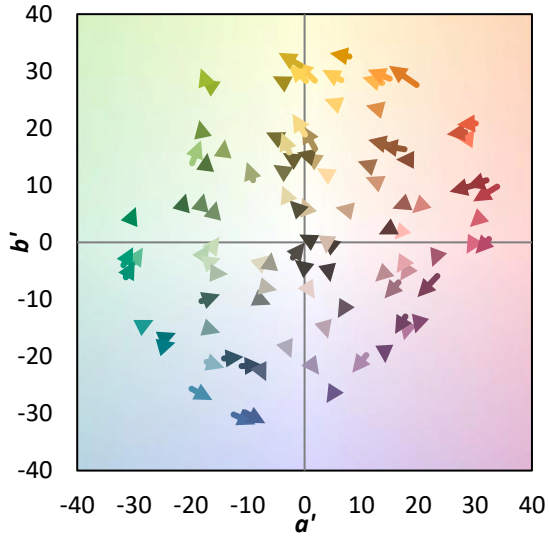


Color Vector Graphics









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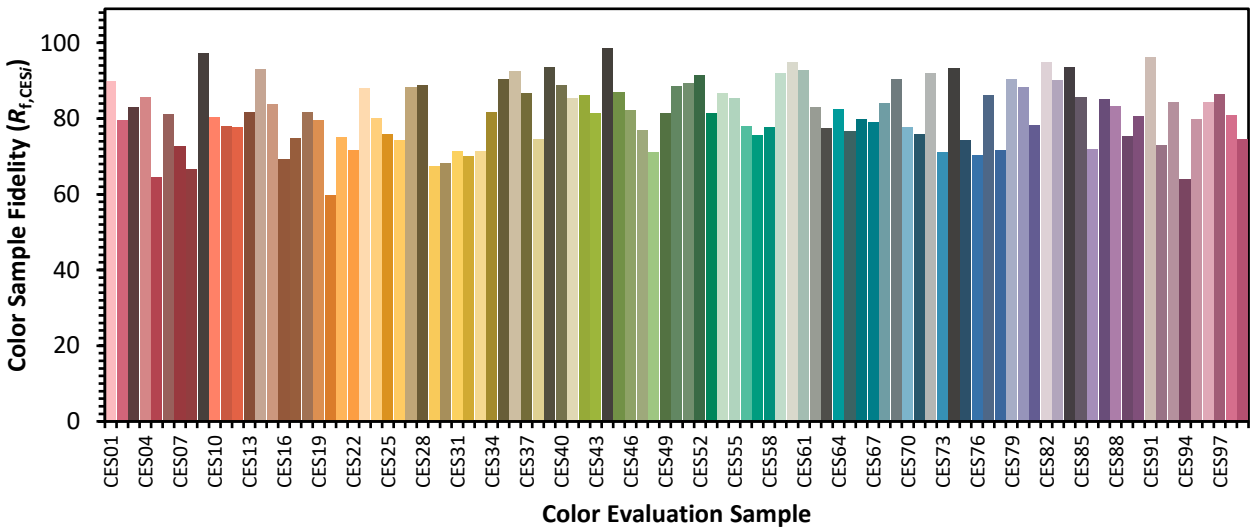
Individual Sample Fidelity Index ($R_{f,i}$)

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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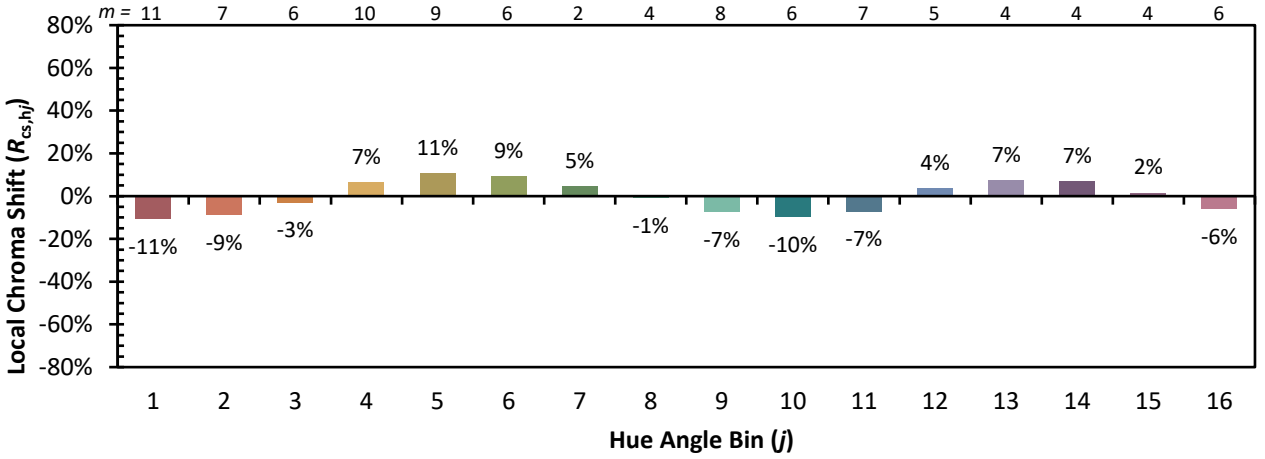
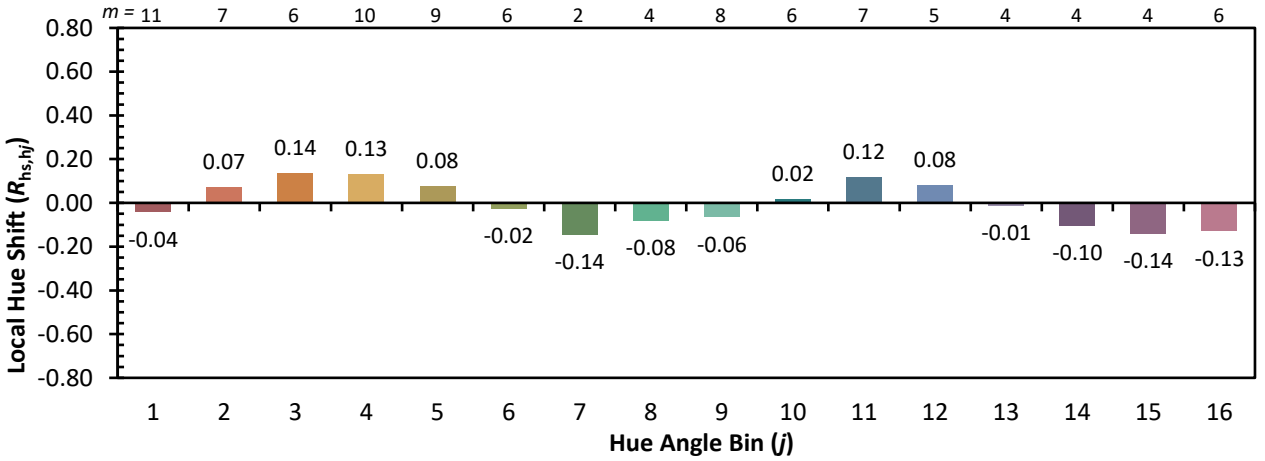
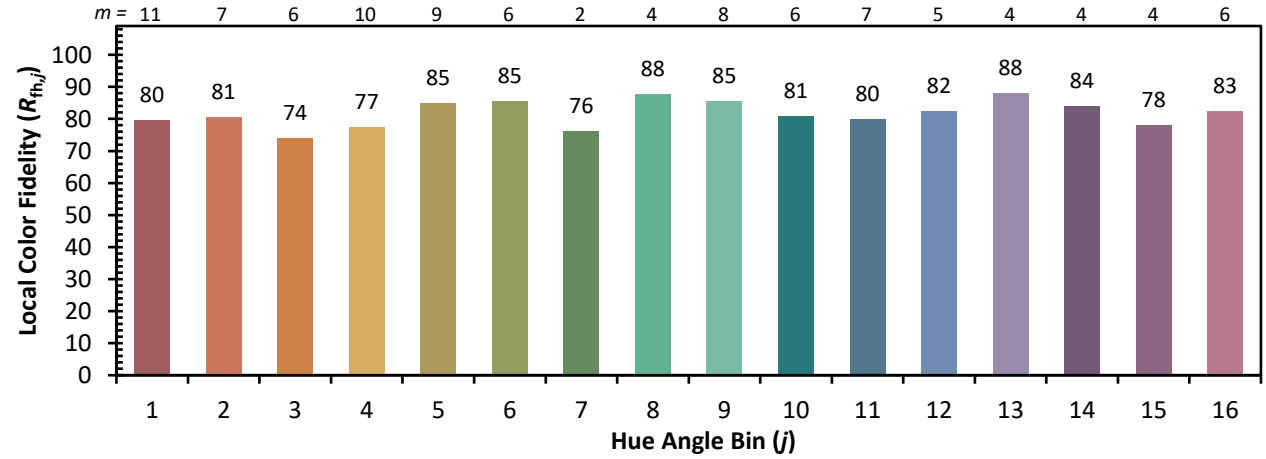
Color Rendition by Hue-Angle Bin







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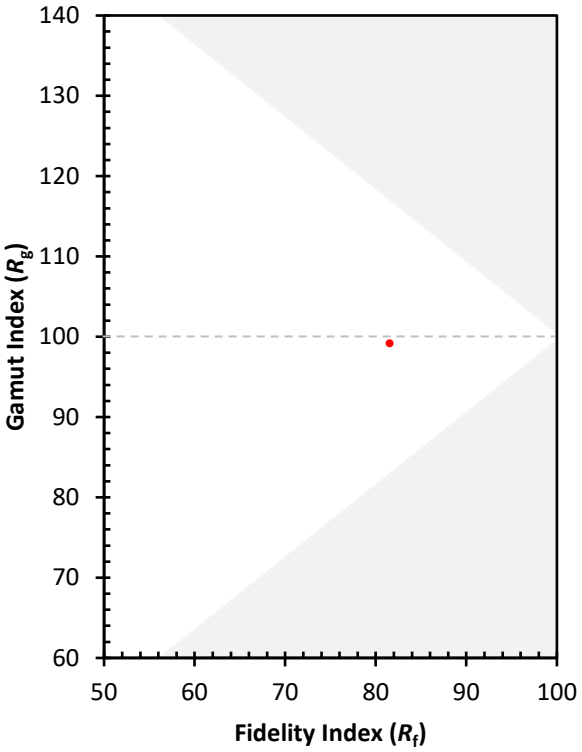
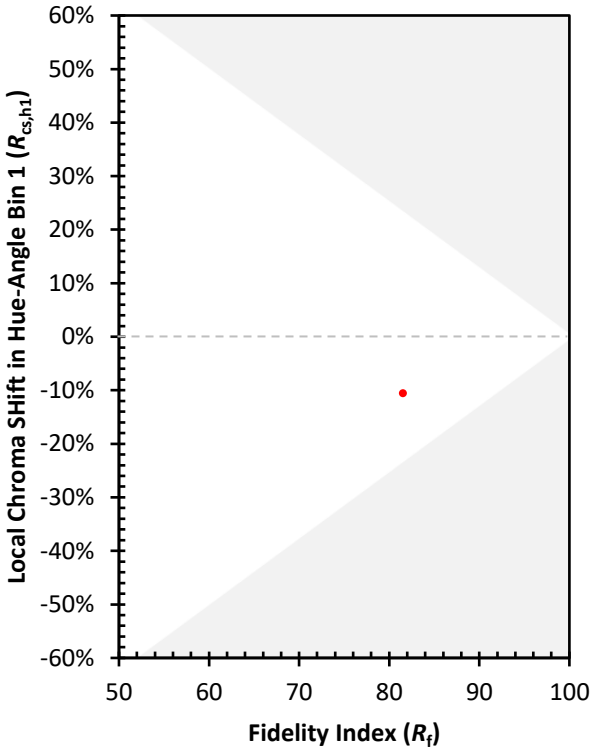
Measure Comparisons





(END OF REPORT)