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: P642944

Luminaire Tested: GWS-SA6D-830-U-T2-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:	P642944
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6D-830-U-T2-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSLLED GLARE SHIELD, WH
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	23724.6 lumens
Efficiency:	N/A
Efficacy:	96.6 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	245.7
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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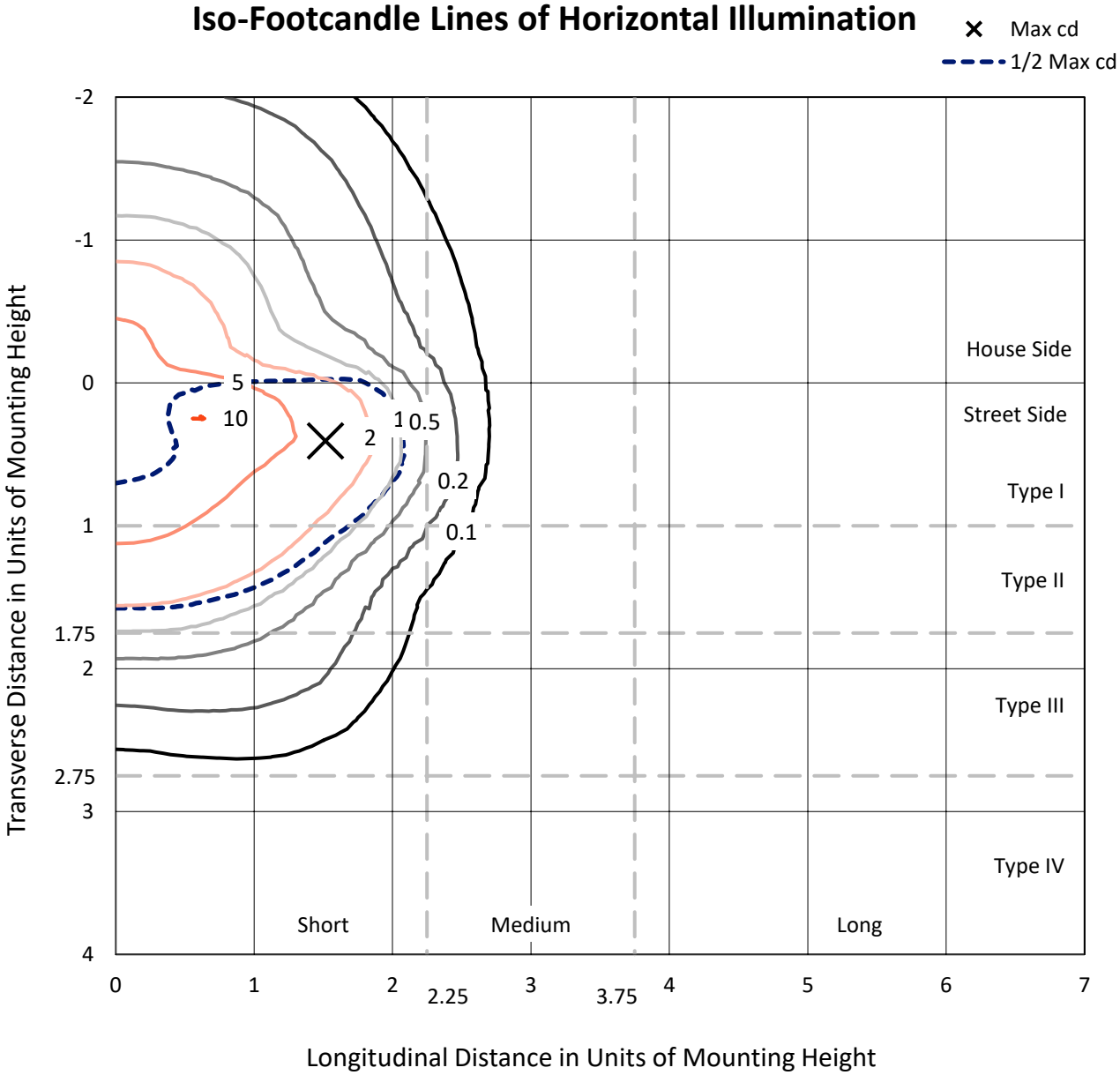
Scaled Data Report

REPORT NUMBER: P642944
CATALOG NUMBER: GWS-SA6D-830-U-T2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
Type II - Short - N/A

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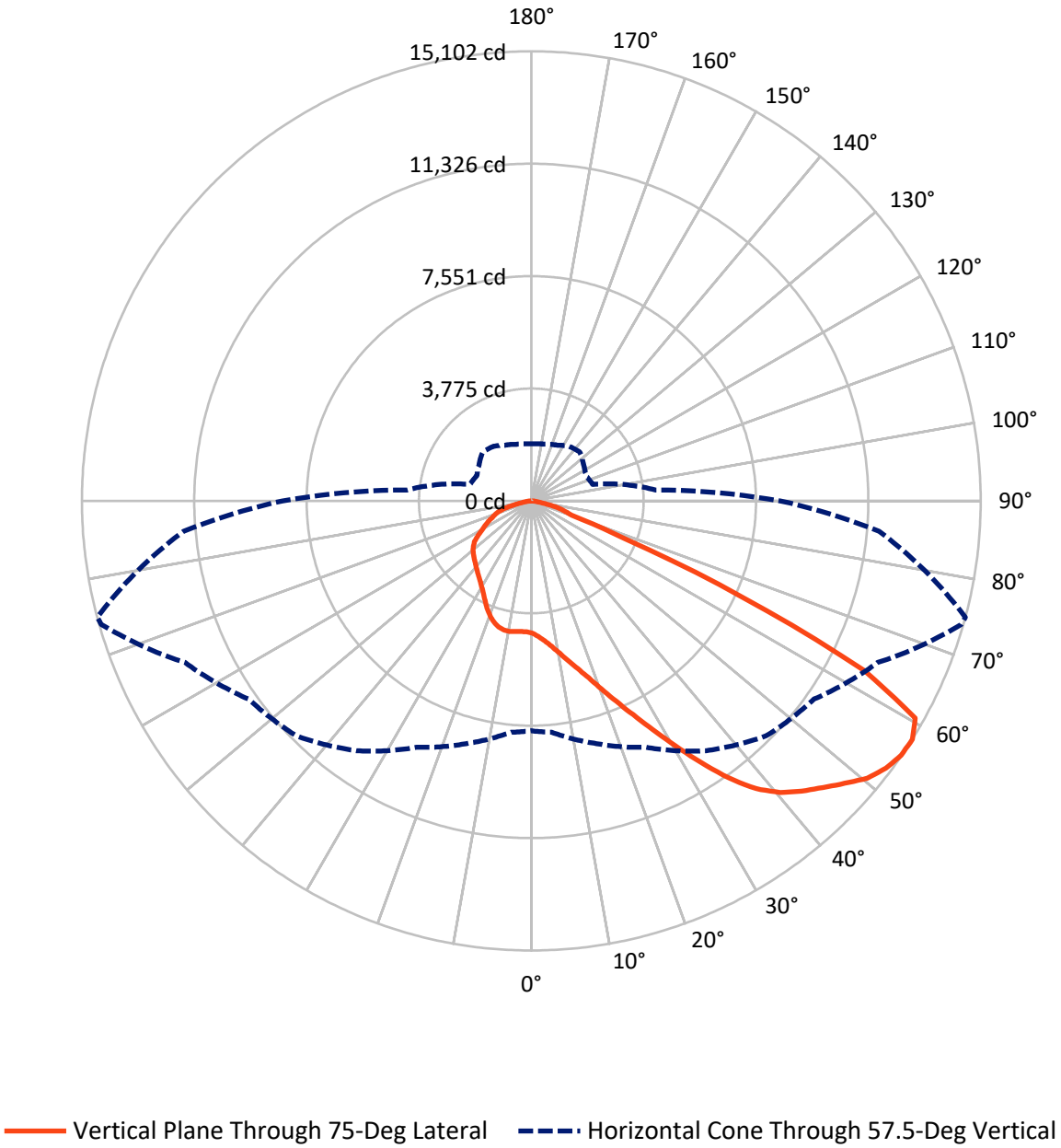
Luminous Intensity Polar Plot



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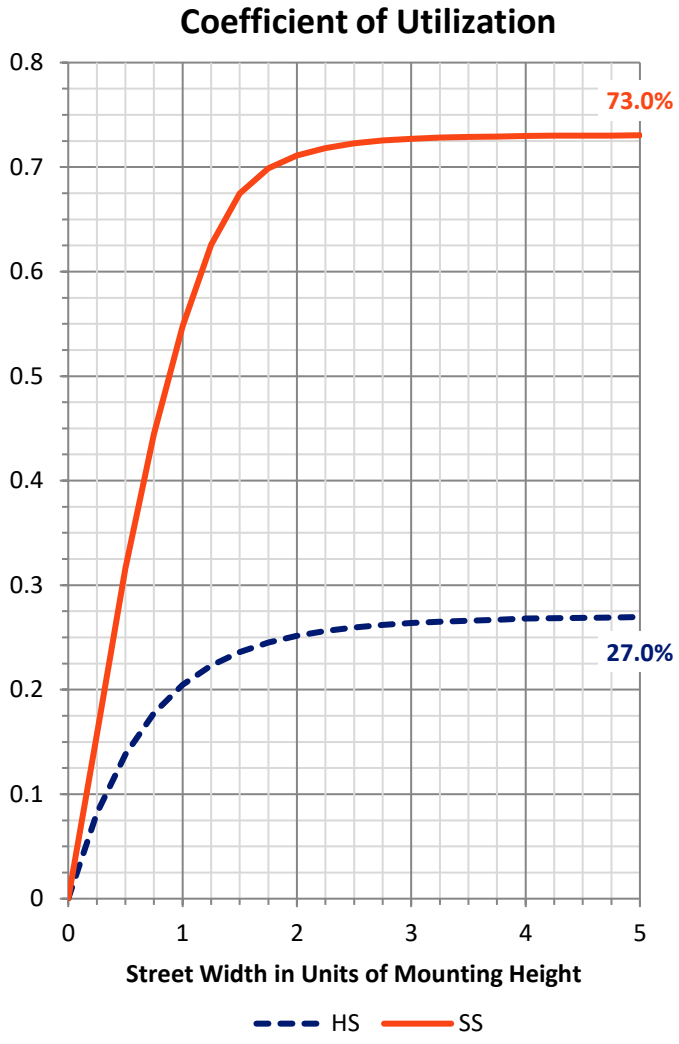
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6418.0	0.0	6418.0
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	17306.6	0.0	17306.6
	% Fixture	72.9	0.0	72.9
Total	Lumens	23724.6	0.0	23724.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.6	1.9
10°-20°	1415.6	6.0
20°-30°	2510.5	10.6
30°-40°	3843.1	16.2
40°-50°	5351.2	22.6
50°-60°	6131.4	25.8
60°-70°	3150.4	13.3
70°-80°	793.1	3.3
80°-90°	84.8	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°	23724.6	100.0
0°-180°	23724.6	100.0



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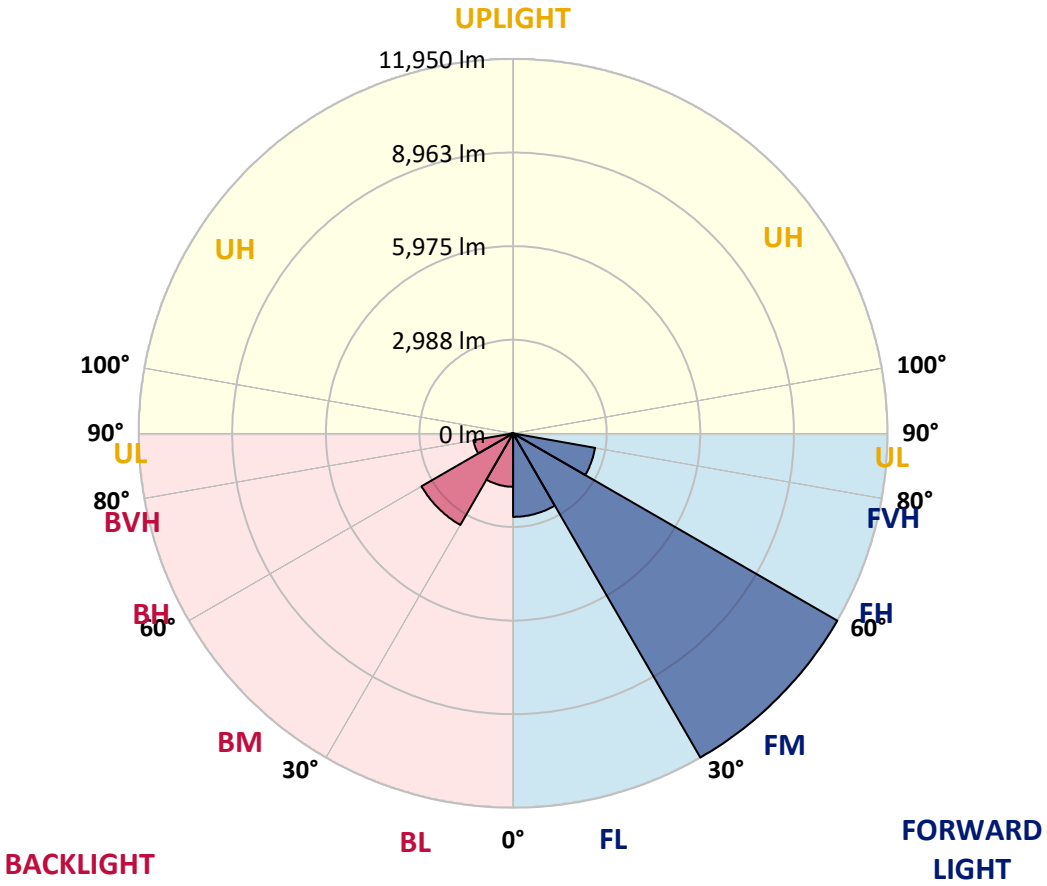
REPORT NUMBER: P642944
CATALOG NUMBER: GWS-SA6D-830-U-T2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2665.6	11.2			
FM	(30°-60°)	11950.3	50.4			
FH	(60°-80°)	2659.3	11.2			G2/5000
FVH	(80°-90°)	31.4	0.1			G1/100
BL	(0°-30°)	1705.0	7.2	B3/2500		
BM	(30°-60°)	3375.3	14.2	B3/5000		
BH	(60°-80°)	1284.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	53.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Short



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REPORT NUMBER: P642944
CATALOG NUMBER: GWS-SA6D-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0
2.5°	4773.5	4785.8	4773.5	4793.9	4753.1	4734.8	4689.9	4622.6	4569.5	4561.4	4502.2
5°	5144.8	5171.3	5155.0	5146.8	5091.8	5051.0	4983.6	4849.0	4738.8	4722.5	4606.2
7.5°	5383.5	5401.8	5401.8	5408.0	5387.6	5340.6	5269.2	5110.1	4955.1	4930.6	4755.2
10°	5463.0	5477.3	5503.8	5554.8	5595.6	5609.9	5563.0	5410.0	5220.3	5195.8	4951.0
12.5°	5481.4	5497.7	5538.5	5632.3	5744.5	5846.5	5854.7	5742.5	5530.4	5503.8	5177.4
15°	5516.1	5532.4	5587.5	5703.7	5869.0	6064.8	6185.2	6107.7	5873.1	5844.5	5434.5
17.5°	5512.0	5530.4	5611.9	5767.0	5989.3	6272.9	6505.5	6538.1	6295.3	6246.4	5726.2
20°	5501.8	5518.1	5605.8	5795.5	6070.9	6460.6	6880.8	7050.1	6789.0	6744.1	6066.9
22.5°	5583.4	5601.7	5669.1	5826.1	6113.8	6605.4	7227.6	7635.6	7374.5	7311.2	6458.5
25°	5767.0	5793.5	5834.3	5942.4	6191.3	6733.9	7582.6	8298.6	8031.3	7955.9	6884.9
27.5°	6050.5	6083.2	6140.3	6191.3	6364.7	6897.1	7935.5	9041.1	8773.9	8694.3	7335.7
30°	6397.3	6440.2	6513.6	6548.3	6666.6	7137.8	8319.0	9806.1	9651.1	9540.9	7843.7
32.5°	6876.7	6935.9	7005.2	7015.4	7086.8	7503.0	8698.4	10565.0	10562.9	10485.4	8421.0
35°	7501.0	7564.2	7578.5	7592.8	7627.4	8004.8	9157.4	11256.5	11523.8	11434.0	9049.3
37.5°	8182.3	8274.1	8296.5	8233.3	8282.3	8608.7	9673.5	11811.4	12360.2	12264.3	9657.2
40°	8910.6	8947.3	9008.5	8908.5	8969.7	9300.2	10179.4	12166.4	12984.4	12882.4	10136.6
42.5°	9432.8	9500.1	9591.9	9555.2	9589.9	9891.8	10534.4	12337.7	13429.1	13327.1	10481.4
45°	9999.9	10020.3	10079.5	10071.3	10091.7	10373.2	10789.4	12413.2	13826.9	13735.1	10775.1
47.5°	10493.6	10524.2	10562.9	10518.1	10473.2	10656.8	10997.5	12478.5	14285.9	14175.7	11083.1
50°	10968.9	10995.4	11042.3	10911.8	10744.5	10791.4	11099.5	12568.2	14716.3	14638.8	11325.9
52.5°	11056.6	11085.2	11305.5	11332.0	11117.8	10952.6	11279.0	12766.1	14969.3	14920.3	11413.6
55°	9953.0	10004.0	10442.6	10946.5	11474.8	11421.8	11566.6	12870.2	15069.2	15081.5	11570.7
57.5°	7725.4	7798.8	8439.3	9130.9	10242.7	11162.7	11603.3	12843.6	15034.6	15101.9	11731.8
60°	5067.3	5110.1	5869.0	6644.2	7796.8	9069.7	10385.5	12366.3	14726.5	14822.4	11691.1
62.5°	3060.0	3108.9	3718.9	4306.4	4985.7	5836.3	7044.0	9938.7	12343.8	12558.0	9363.4
65°	2135.8	2201.1	2735.6	3219.1	3453.7	3278.2	3567.9	5550.8	7690.7	7780.4	5722.1
67.5°	1548.3	1593.2	2031.8	2607.1	2866.2	2315.4	1764.6	2458.2	3349.6	3382.3	2360.2
70°	1013.9	1064.9	1462.7	1984.9	2339.8	1876.8	1319.9	1330.1	1409.6	1425.9	1370.9
72.5°	556.9	587.5	903.7	1317.8	1383.1	1122.0	1030.2	1105.7	1160.7	1160.7	1175.0
75°	287.6	314.2	369.2	434.5	524.3	614.0	742.5	854.7	913.9	918.0	911.9
77.5°	146.9	157.1	197.9	214.2	234.6	273.4	355.0	454.9	508.0	528.4	524.3
80°	69.4	73.4	83.6	97.9	120.4	153.0	191.8	228.5	261.1	265.2	287.6
82.5°	36.7	40.8	44.9	53.0	65.3	81.6	112.2	134.6	155.0	159.1	177.5
85°	14.3	16.3	18.4	20.4	28.6	34.7	46.9	63.2	77.5	77.5	91.8
87.5°	0.0	0.0	0.0	0.0	2.0	4.1	8.2	10.2	14.3	14.3	24.5
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-SA6D-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0
2.5°	4487.9	4428.8	4402.2	4359.4	4324.7	4286.0	4255.4	4232.9	4218.7	4210.5	4202.3
5°	4561.4	4471.6	4400.2	4314.5	4255.4	4198.3	4151.3	4118.7	4102.4	4090.1	4082.0
7.5°	4675.6	4555.2	4420.6	4288.0	4184.0	4092.2	4033.0	3998.3	3975.9	3967.7	3961.6
10°	4832.7	4665.4	4443.0	4232.9	4077.9	3977.9	3937.1	3920.8	3922.9	3918.8	3916.7
12.5°	5010.2	4781.7	4436.9	4135.0	3963.7	3904.5	3906.5	3933.1	3963.7	3971.8	3973.9
15°	5201.9	4895.9	4377.8	4008.5	3873.9	3880.0	3933.1	3996.3	4053.4	4075.9	4079.9
17.5°	5410.0	4991.8	4269.7	3869.8	3800.5	3865.7	3963.7	4067.7	4151.3	4188.1	4198.3
20°	5642.5	5073.4	4116.7	3733.1	3731.1	3839.2	3982.0	4118.7	4224.8	4273.7	4281.9
22.5°	5889.4	5124.4	3929.0	3606.7	3659.7	3804.5	3967.7	4110.5	4222.7	4271.7	4281.9
25°	6138.3	5140.7	3722.9	3490.4	3586.3	3749.5	3898.4	4012.6	4118.7	4161.5	4169.7
27.5°	6370.8	5093.8	3527.1	3390.4	3518.9	3667.9	3767.8	3829.0	3902.5	3935.1	3941.2
30°	6607.5	5000.0	3361.9	3310.9	3443.5	3555.7	3600.5	3604.6	3633.2	3633.2	3637.3
32.5°	6846.1	4861.2	3217.0	3233.3	3349.6	3423.1	3429.2	3382.3	3347.6	3290.5	3288.4
35°	7121.5	4720.5	3098.7	3145.6	3239.5	3284.3	3266.0	3176.2	3092.6	2998.8	2994.7
37.5°	7376.5	4575.6	2998.8	3055.9	3115.0	3147.7	3104.8	2996.7	2927.4	2831.5	2817.2
40°	7586.6	4445.1	2902.9	2962.0	2990.6	3019.2	2949.8	2862.1	2872.3	2819.2	2817.2
42.5°	7709.0	4318.6	2813.1	2858.0	2876.4	2896.8	2835.6	2770.3	2825.4	2784.6	2786.6
45°	7798.8	4208.5	2731.5	2747.8	2792.7	2823.3	2766.2	2692.8	2705.0	2547.9	2511.2
47.5°	7900.8	4147.3	2654.0	2637.7	2717.2	2770.3	2682.6	2576.5	2503.0	2348.0	2333.7
50°	8008.9	4124.8	2572.4	2527.5	2623.4	2674.4	2572.4	2439.8	2343.9	2260.3	2252.1
52.5°	8045.6	4122.8	2470.4	2394.9	2490.8	2562.2	2476.5	2341.9	2227.6	2146.0	2142.0
55°	8190.5	4181.9	2339.8	2213.4	2303.1	2450.0	2386.8	2193.0	2101.2	2064.4	2060.4
57.5°	*8359.8*	*4192.1*	*2133.8*	*2015.5*	*2139.9*	*2313.3*	*2233.8*	*2066.5*	*1966.5*	*1921.6*	*1917.6*
60°	8290.4	3941.2	1913.5	1864.5	2001.2	2184.8	2111.4	1966.5	1850.3	1807.4	1803.3
62.5°	6317.8	2782.5	1752.3	1734.0	1852.3	1999.2	1984.9	1833.9	1723.8	1693.2	1689.1
65°	3800.5	1954.3	1597.3	1595.3	1678.9	1819.7	1838.0	1715.6	1599.3	1556.5	1556.5
67.5°	1878.8	1495.3	1421.9	1411.7	1464.7	1564.7	1642.2	1542.2	1444.3	1403.5	1397.4
70°	1328.0	1317.8	1293.3	1264.8	1275.0	1315.8	1348.4	1264.8	1160.7	1119.9	1111.8
72.5°	1148.5	1150.5	1134.2	1111.8	1103.6	1075.1	1046.5	985.3	922.1	879.2	883.3
75°	891.5	895.5	905.7	897.6	875.1	844.5	813.9	736.4	685.4	644.6	636.5
77.5°	520.2	540.6	573.2	565.1	569.2	526.3	514.1	438.6	391.7	363.1	357.0
80°	293.8	306.0	320.3	330.5	318.2	299.9	273.4	232.6	218.3	197.9	193.8
82.5°	177.5	189.7	195.8	204.0	199.9	175.4	155.0	128.5	116.3	106.1	104.0
85°	89.8	97.9	104.0	108.1	95.9	79.6	71.4	57.1	49.0	42.8	42.8
87.5°	22.4	24.5	28.6	24.5	22.4	10.2	8.2	2.0	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

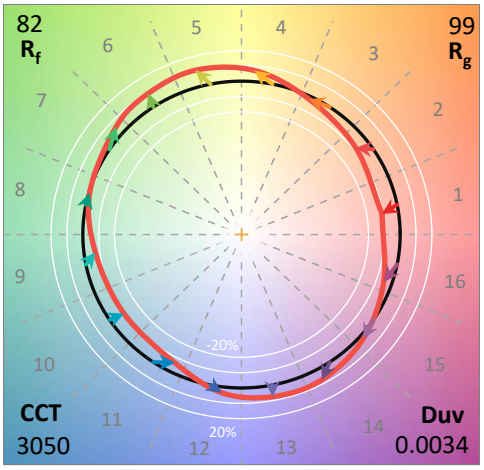
Test Information

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

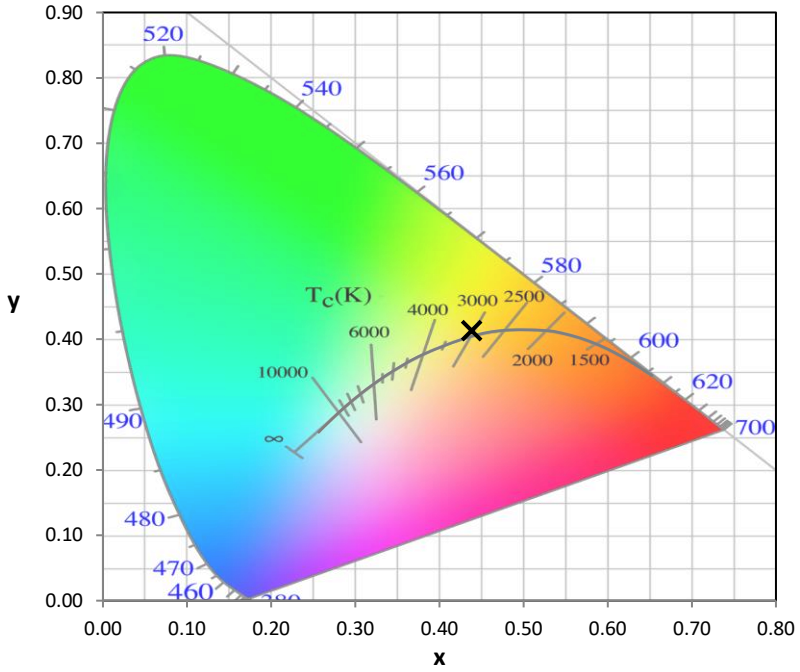
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

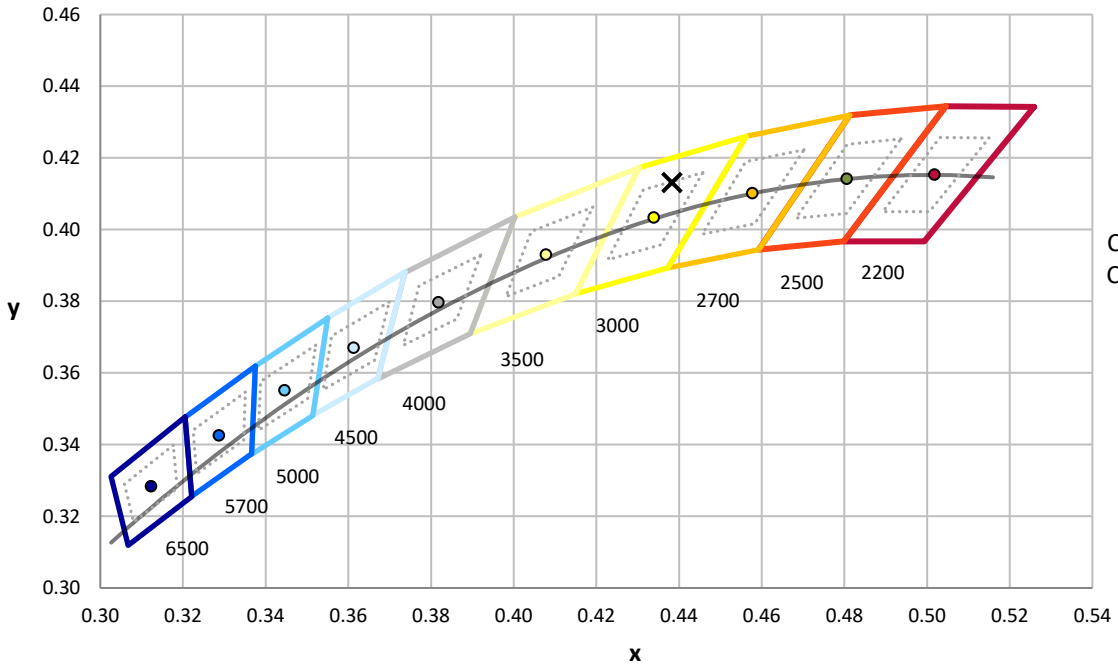
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

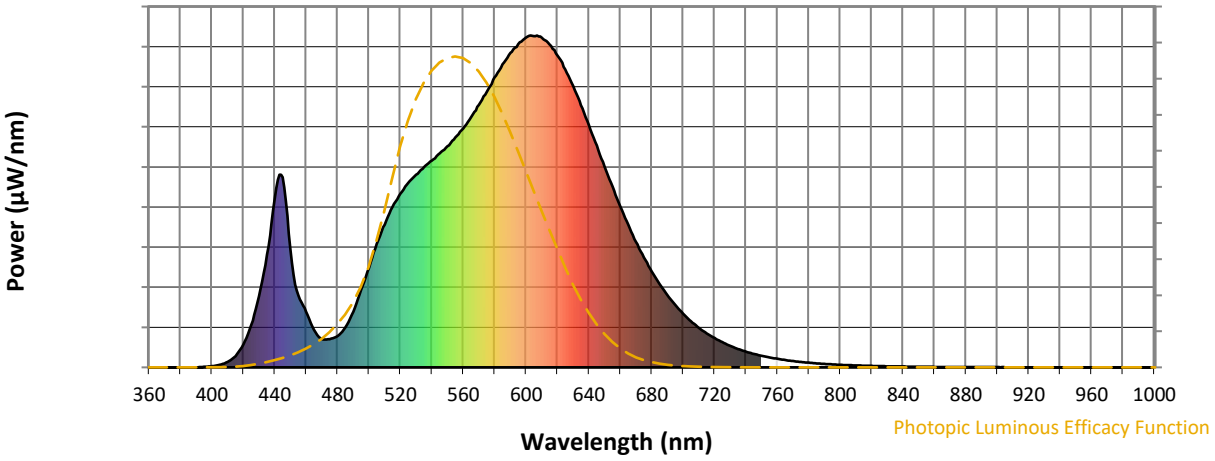


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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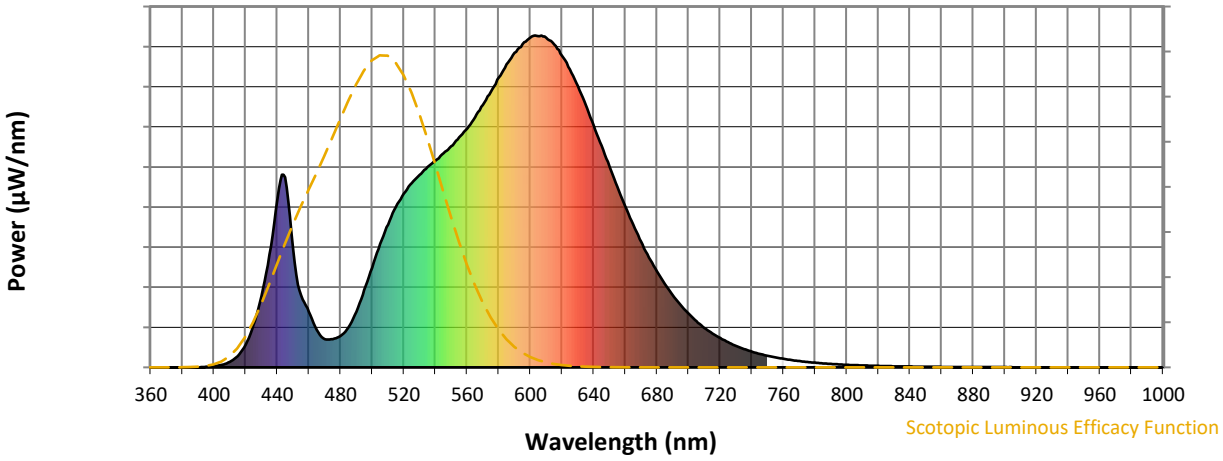
Scotopic Flux vs. Wavelength



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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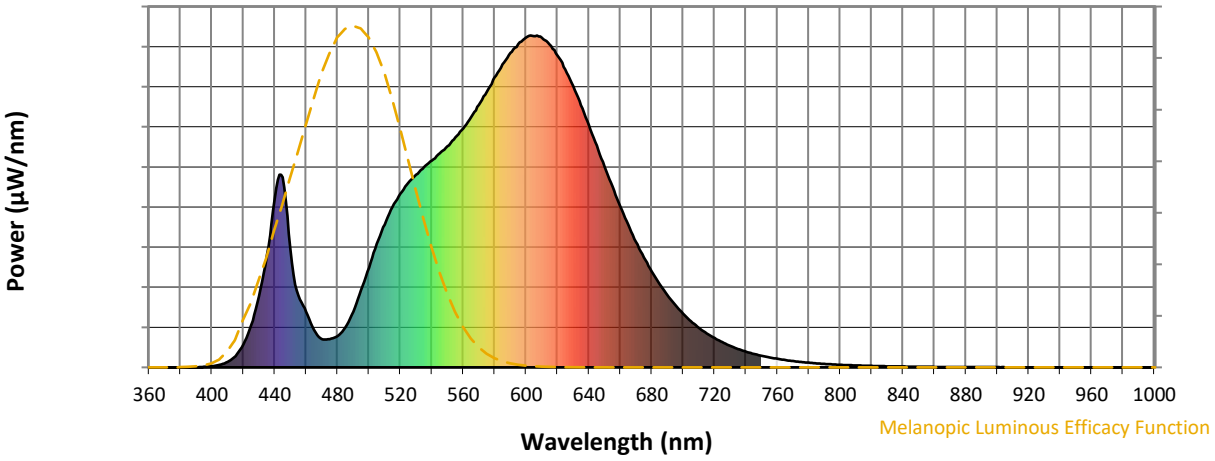
Melanopic Flux vs. Wavelength



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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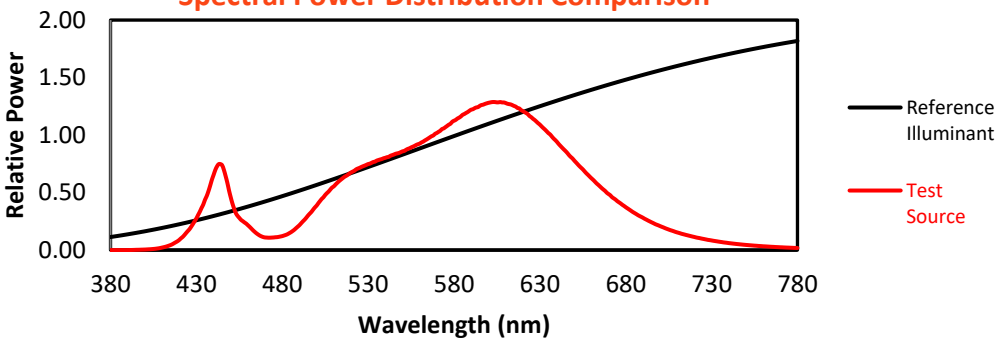
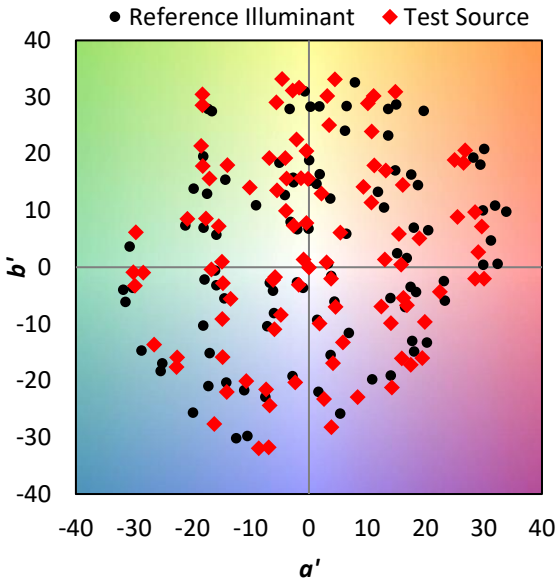
Summary

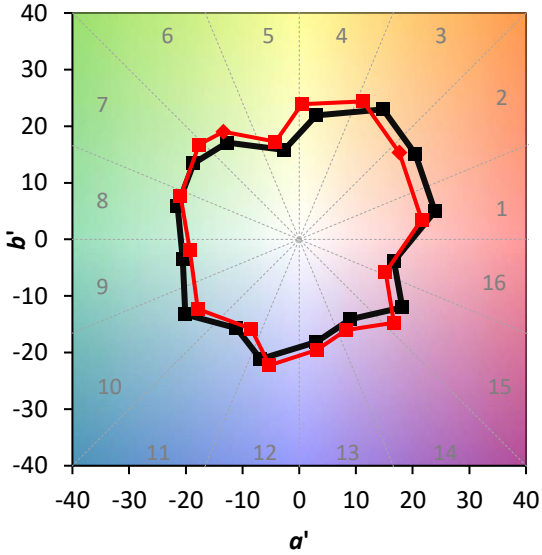
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

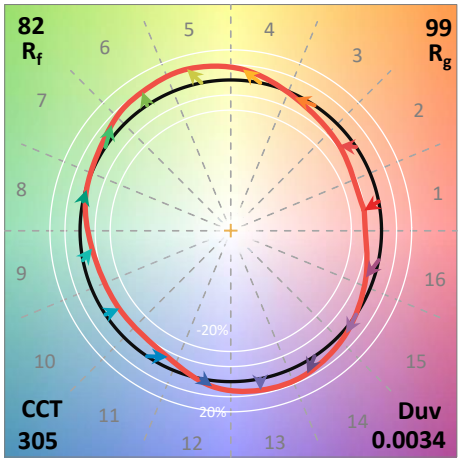
Spectral Power Distribution Comparison

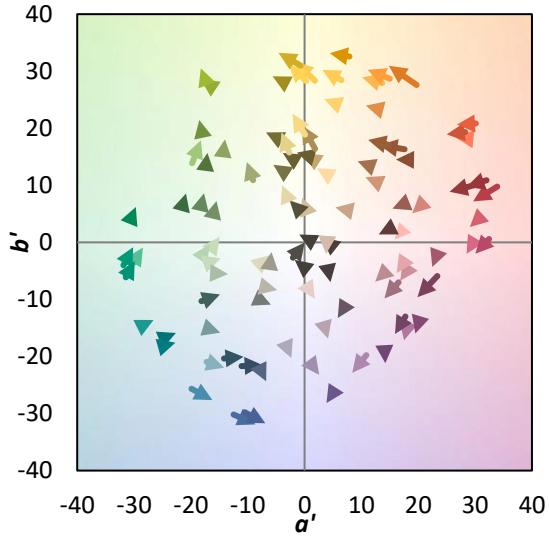


Color Vector Graphics









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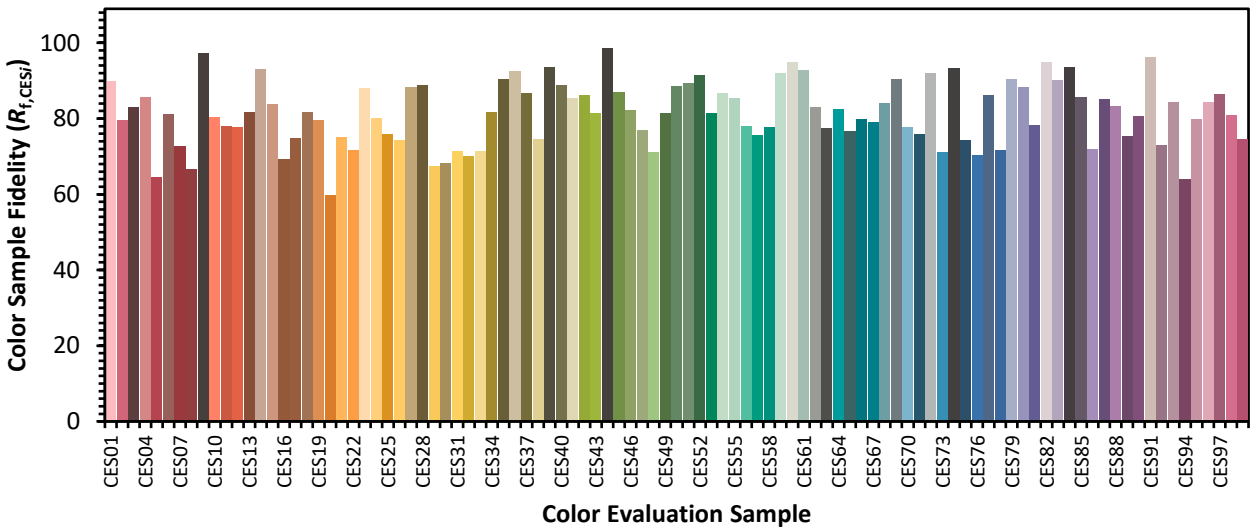
Individual Sample Fidelity Index ($R_{f,i}$)

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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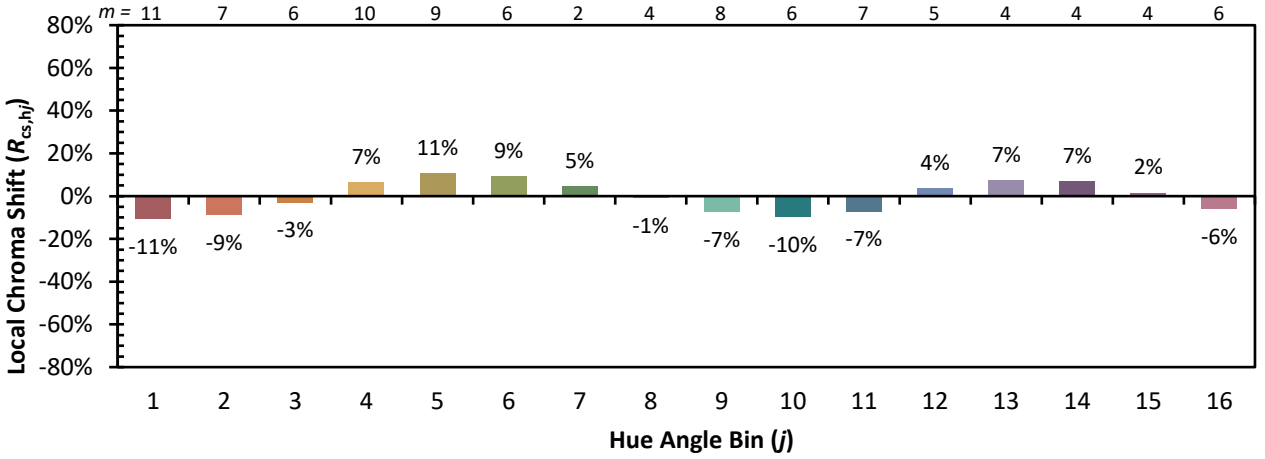
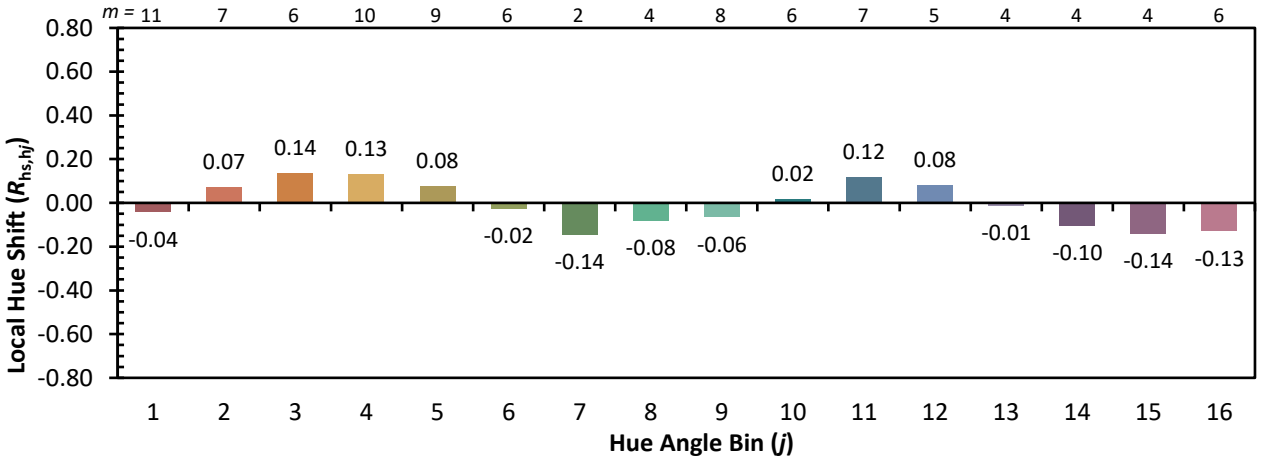
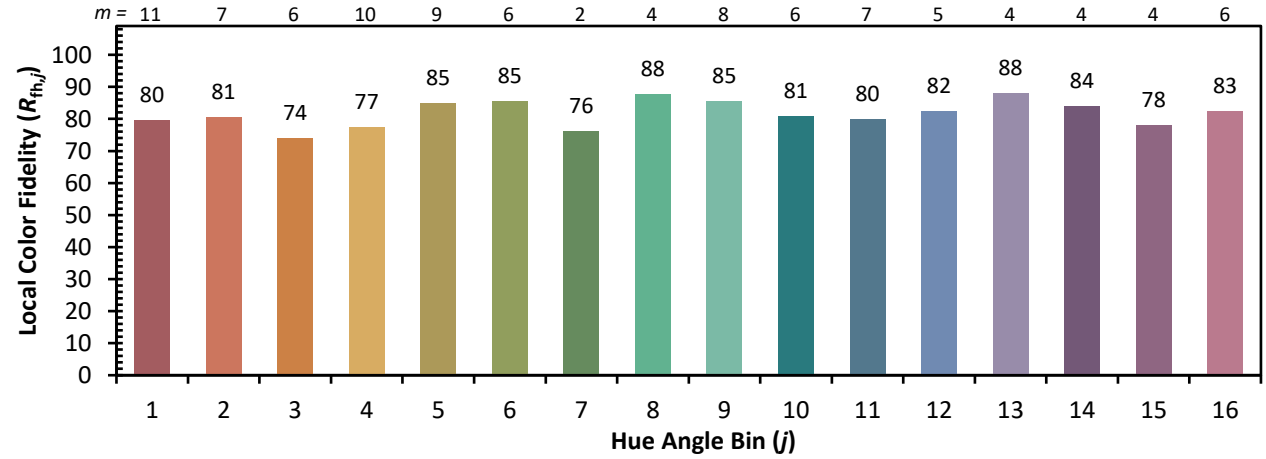
Color Rendition by Hue-Angle Bin







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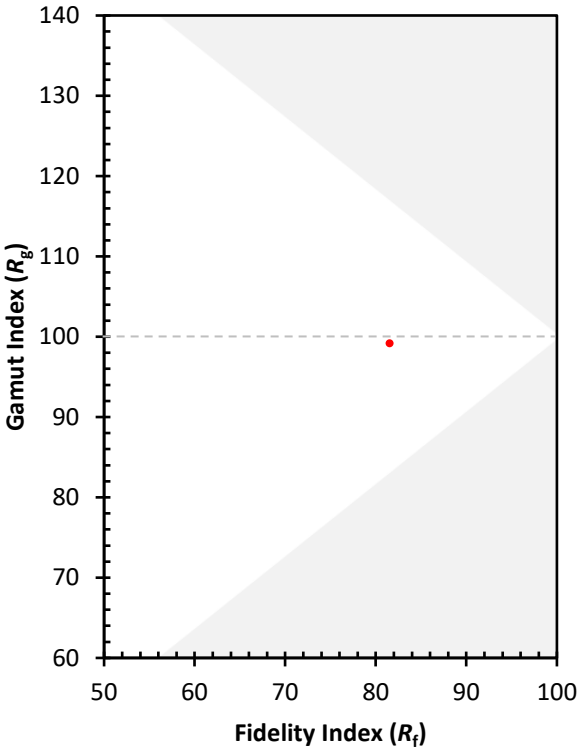
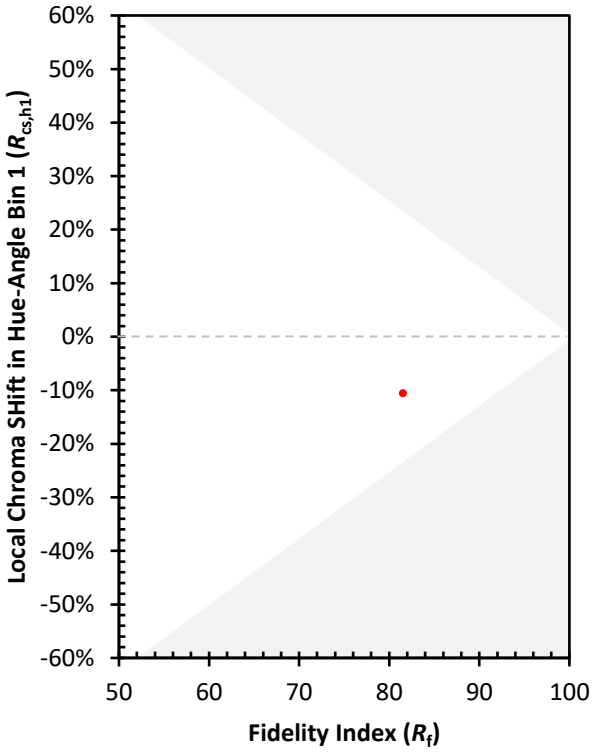
Measure Comparisons





(END OF REPORT)