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: P635524

Luminaire Tested: GWS-SA3D-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:	P635524
	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-SA3D-830-U-T2R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11274.4 lumens
Efficiency:	N/A
Efficacy:	93.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	120.8
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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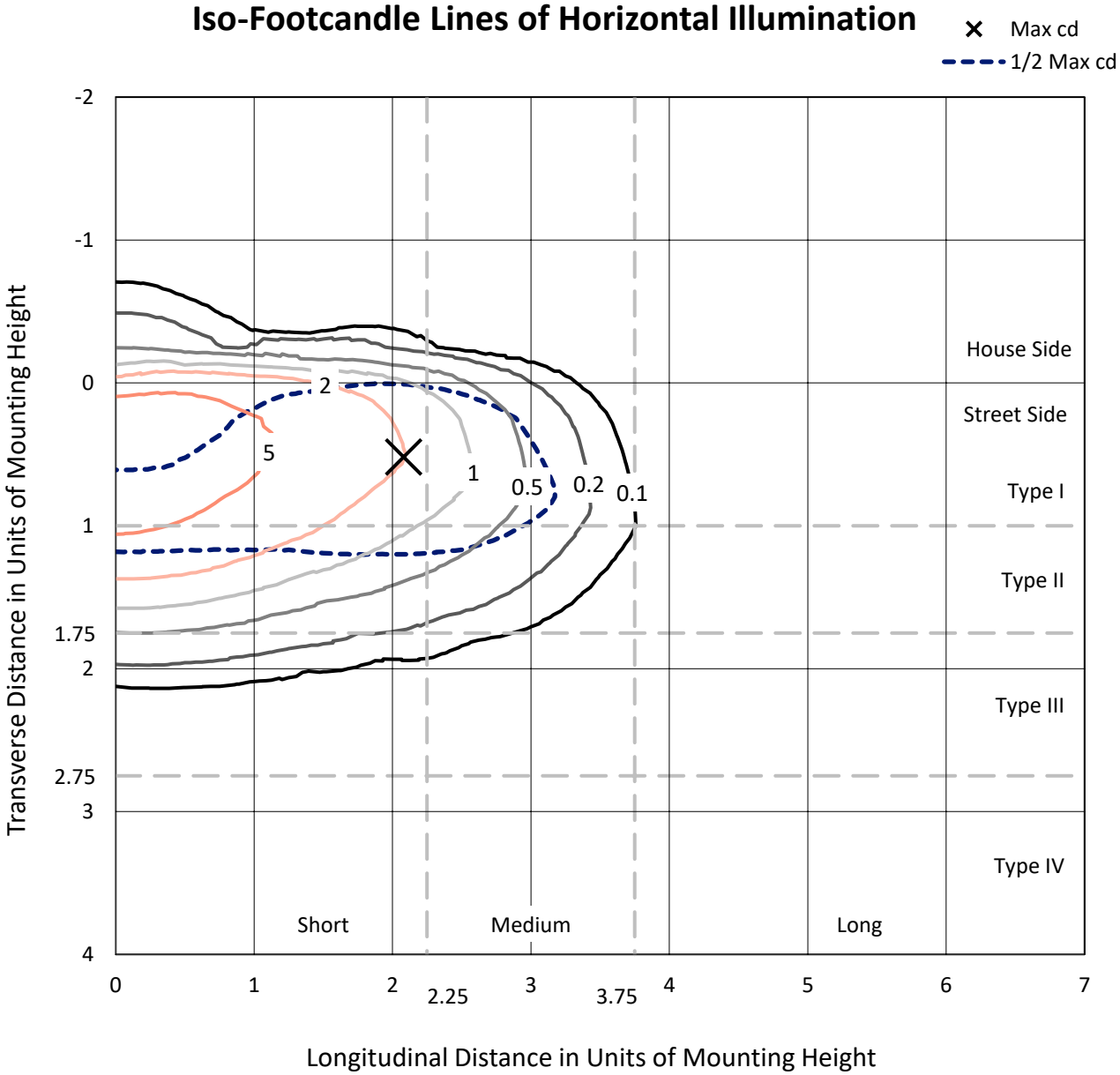
REPORT NUMBER: P635524
CATALOG NUMBER: GWS-SA3D-830-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 8.4 fc
Type II - Short - N/A

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REPORT NUMBER: P635524
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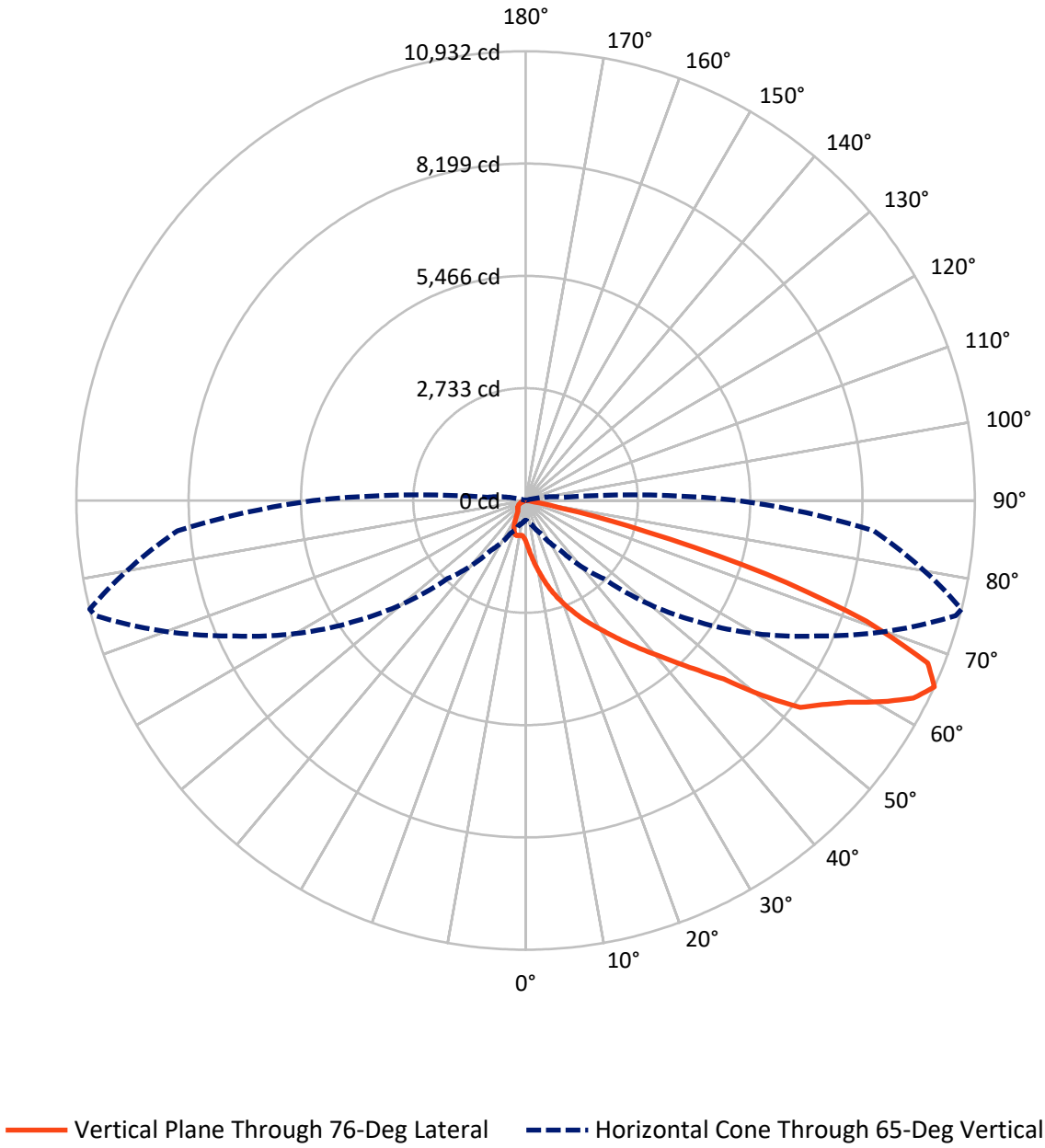
Luminous Intensity Polar Plot



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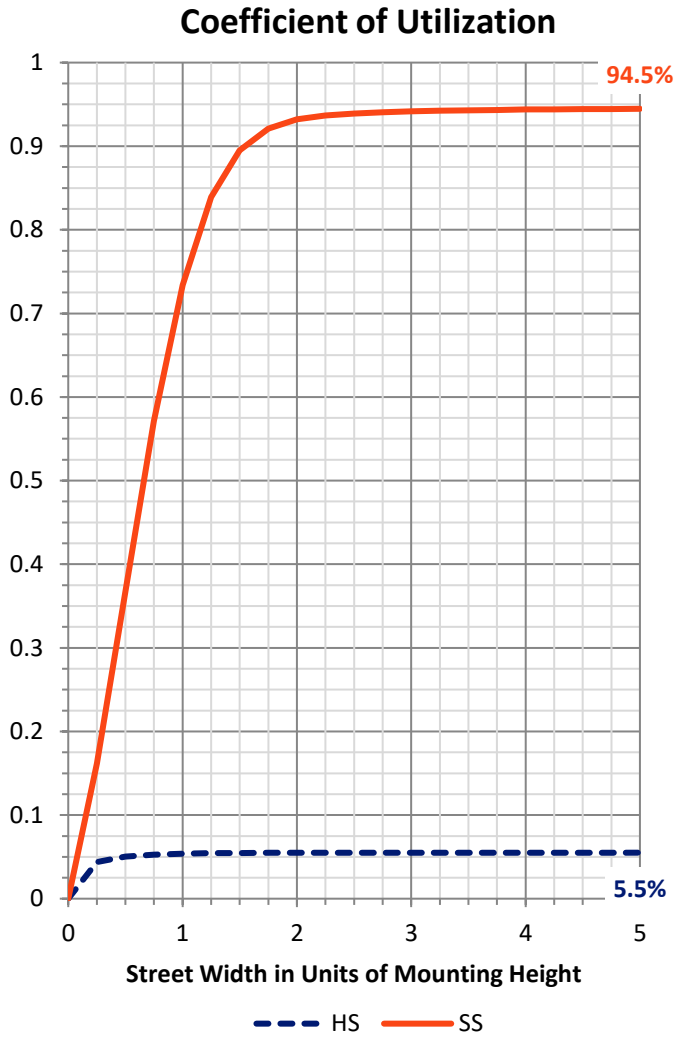
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	623.4	0.0	623.4
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	10651.0	0.0	10651.0
	% Fixture	94.5	0.0	94.5
Total	Lumens	11274.4	0.0	11274.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	1.1
10°-20°	460.8	4.1
20°-30°	940.1	8.3
30°-40°	1671.9	14.8
40°-50°	2471.5	21.9
50°-60°	2829.7	25.1
60°-70°	2158.9	19.1
70°-80°	604.8	5.4
80°-90°	15.2	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°	11274.4	100.0
0°-180°	11274.4	100.0



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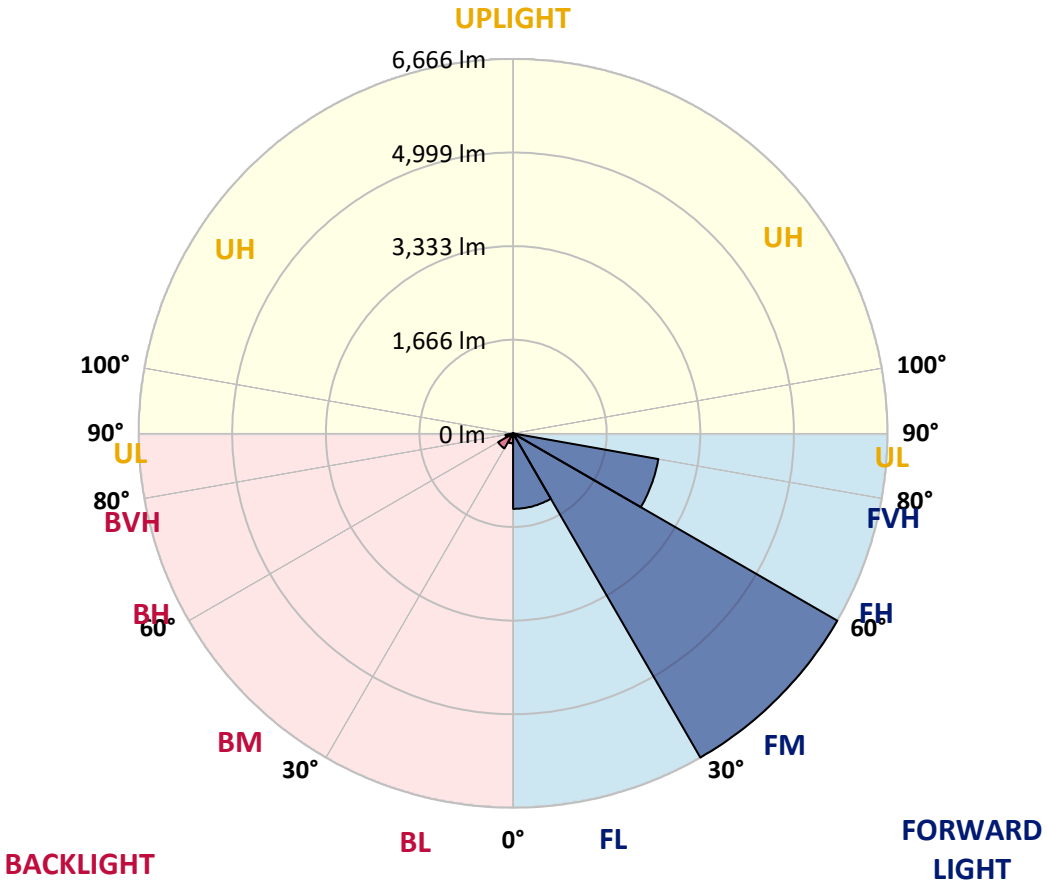
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1344.4	11.9			
FM	(30°-60°)	6665.6	59.1			
FH	(60°-80°)	2626.7	23.3			G2/5000
FVH	(80°-90°)	14.3	0.1			G1/100
BL	(0°-30°)	177.9	1.6	B1/500		
BM	(30°-60°)	307.6	2.7	B1/1000		
BH	(60°-80°)	137.0	1.2	B1/500		G1/500
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type II Short



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Scaled Data Report

REPORT NUMBER: P635524
CATALOG NUMBER: GWS-SA3D-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	*998.2*	998.2
2.5°	1538.4	1561.4	1543.4	1513.3	1455.2	1399.1	1326.9	1227.7	1148.5	*1138.5*	1064.3
5°	2077.6	2075.6	2036.5	1997.4	1936.3	1840.0	1694.7	1510.3	1332.9	*1317.9*	1151.5
7.5°	2398.3	2401.3	2379.2	2349.2	2289.0	2189.8	2038.5	1816.0	1556.4	*1526.4*	1270.8
10°	2667.9	2666.9	2650.8	2636.8	2582.7	2516.5	2354.2	2109.6	1797.0	*1749.8*	1404.1
12.5°	2870.3	2877.3	2885.3	2899.4	2876.3	2811.2	2657.8	2391.3	2040.5	*1988.4*	1556.4
15°	3030.7	3032.7	3062.7	3116.9	3135.9	3101.8	2962.5	2663.9	2281.0	*2235.9*	1731.8
17.5°	3078.8	3082.8	3133.9	3233.1	3333.3	3352.4	3247.1	2938.5	2517.5	*2469.4*	1902.2
20°	3180.0	3189.0	3227.1	3314.3	3440.6	3542.8	3501.7	3216.1	2754.1	*2690.9*	2076.6
22.5°	3498.7	3503.7	3490.7	3501.7	3566.8	3685.1	3710.2	3484.7	2996.6	*2929.4*	2265.0
25°	4046.9	4048.9	3957.7	3871.5	3822.4	3844.5	3899.6	3732.2	3237.1	*3171.0*	2440.4
27.5°	4616.2	4623.2	4513.9	4367.6	4192.2	4092.0	4076.0	3958.7	3479.7	*3406.5*	2613.7
30°	5152.3	5152.3	5037.1	4858.7	4624.2	4428.7	4313.5	4187.2	3739.2	*3659.0*	2791.1
32.5°	5634.4	5630.4	5483.1	5289.6	5058.1	4843.7	4601.1	4425.7	4027.9	*3938.7*	2995.6
35°	6032.3	6022.2	5854.9	5669.5	5421.9	5262.6	4992.0	4682.3	4340.5	*4251.4*	3206.1
37.5°	6332.9	6321.9	6168.6	5972.1	5742.6	5639.4	5412.9	4990.0	4670.3	*4589.1*	3439.6
40°	6496.3	6474.2	6368.0	6221.7	6029.3	5939.1	5844.9	5371.8	5058.1	*4956.9*	3715.2
42.5°	6544.4	6518.3	6448.2	6380.0	6263.8	6192.6	6293.8	5802.8	5484.1	*5396.9*	4029.9
45°	6402.1	6387.0	6381.0	6430.1	6451.2	6471.2	6720.8	6279.8	5954.1	*5888.0*	4425.7
47.5°	6059.3	6055.3	6108.4	6312.9	6535.4	6746.8	7184.8	6868.1	6563.4	*6492.3*	4979.0
50°	5425.9	5467.0	5615.4	5974.1	6419.1	6903.2	7618.8	7683.9	7549.6	*7445.4*	5700.5
52.5°	4435.8	4514.9	4847.7	5392.9	6032.3	6859.1	7819.2	8337.3	8474.6	*8366.4*	6217.7
55°	3480.7	3554.8	3851.5	4543.0	5395.9	6523.3	7828.2	8562.8	8862.5	*8762.3*	6567.4
57.5°	2592.7	2660.9	2930.4	3591.9	4530.0	5862.9	7613.7	8688.1	9322.5	*9258.4*	7119.7
60°	1694.7	1761.9	2005.4	2583.7	3513.7	4900.8	7085.6	8662.1	9948.9	*9942.9*	7798.2
62.5°	940.1	993.2	1169.6	1620.6	2452.4	3795.3	6255.8	8400.5	10555.2	*10593.3*	8357.4
65°	*481.1*	*515.1*	*622.4*	*891.0*	*1484.3*	*2690.9*	*5164.4*	*7801.2*	*10835.8*	*10932.0*	*8504.7*
67.5°	314.7	325.7	351.8	463.0	794.7	1692.7	3886.5	6840.0	10441.0	*10553.2*	8010.6
70°	255.6	264.6	279.6	308.7	409.9	899.0	2552.6	5463.0	8724.2	*8800.4*	6379.0
72.5°	187.4	199.4	228.5	247.5	295.7	493.1	1327.9	3585.9	5991.2	*6125.5*	4008.8
75°	138.3	145.3	169.4	195.4	241.5	311.7	508.1	1885.1	3093.8	*3015.6*	1683.7
77.5°	83.2	88.2	108.2	125.3	172.4	194.4	177.4	696.5	941.1	*884.9*	406.9
80°	41.1	46.1	71.2	94.2	110.2	78.2	74.2	194.4	209.5	*209.5*	102.2
82.5°	14.0	18.0	38.1	62.1	54.1	30.1	35.1	50.1	56.1	*59.1*	30.1
85°	0.0	0.0	9.0	18.0	8.0	4.0	9.0	11.0	14.0	*15.0*	10.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	*4.0*	4.0
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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CATALOG NUMBER: GWS-SA3D-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2	998.2
2.5°	1024.3	977.1	906.0	841.9	792.7	746.6	711.6	683.5	678.5	662.5	664.5
5°	1070.4	985.2	853.9	752.7	681.5	633.4	593.3	563.2	550.2	537.2	527.2
7.5°	1141.5	1018.2	833.8	710.6	627.4	553.2	491.1	441.0	416.9	401.9	391.9
10°	1228.7	1064.3	834.8	685.5	562.2	449.0	363.8	308.7	282.6	274.6	273.6
12.5°	1332.9	1122.5	842.9	644.4	468.0	333.7	269.6	244.5	236.5	229.5	229.5
15°	1443.2	1187.6	842.9	569.3	356.8	260.6	233.5	217.5	207.5	203.4	201.4
17.5°	1559.4	1248.7	822.8	466.0	273.6	229.5	207.5	192.4	184.4	178.4	176.4
20°	1683.7	1306.9	772.7	356.8	234.5	205.5	184.4	169.4	161.4	155.3	155.3
22.5°	1810.0	1361.0	691.5	274.6	207.5	182.4	162.4	148.3	140.3	134.3	134.3
25°	1927.2	1397.1	587.3	226.5	187.4	162.4	144.3	130.3	121.3	117.3	115.3
27.5°	2036.5	1420.1	472.0	199.4	168.4	145.3	126.3	113.2	106.2	103.2	101.2
30°	2149.7	1426.1	360.8	181.4	152.3	128.3	110.2	100.2	94.2	90.2	90.2
32.5°	2260.0	1419.1	275.6	166.4	138.3	113.2	98.2	89.2	84.2	81.2	80.2
35°	2372.2	1387.1	223.5	153.3	124.3	99.2	87.2	80.2	77.2	73.2	73.2
37.5°	2494.5	1344.0	194.4	140.3	110.2	89.2	78.2	73.2	69.2	66.1	65.1
40°	2646.8	1293.8	178.4	129.3	97.2	80.2	70.2	65.1	62.1	59.1	58.1
42.5°	2827.2	1244.7	170.4	117.3	87.2	71.2	63.1	57.1	54.1	50.1	49.1
45°	3082.8	1233.7	161.4	104.2	78.2	64.1	55.1	49.1	45.1	42.1	41.1
47.5°	3493.7	1264.8	146.3	90.2	69.2	56.1	47.1	42.1	37.1	34.1	32.1
50°	3901.6	1256.8	131.3	78.2	61.1	48.1	40.1	35.1	30.1	27.1	26.1
52.5°	4124.1	1218.7	117.3	69.2	53.1	41.1	34.1	28.1	25.1	22.0	21.0
55°	4325.5	1203.6	103.2	60.1	45.1	36.1	28.1	23.1	21.0	18.0	17.0
57.5°	4720.4	1238.7	91.2	52.1	39.1	31.1	24.1	19.0	17.0	14.0	13.0
60°	5133.3	1242.7	78.2	45.1	34.1	26.1	19.0	15.0	13.0	10.0	9.0
62.5°	5348.8	1141.5	64.1	38.1	28.1	22.0	16.0	12.0	10.0	6.0	6.0
65°	*5168.4*	*923.0*	*54.1*	*31.1*	*22.0*	*17.0*	*12.0*	*9.0*	*6.0*	*3.0*	*1.0*
67.5°	4574.1	656.4	45.1	25.1	16.0	12.0	9.0	6.0	1.0	0.0	0.0
70°	3349.4	374.8	35.1	18.0	12.0	8.0	6.0	3.0	0.0	0.0	0.0
72.5°	2058.5	200.4	26.1	12.0	9.0	6.0	5.0	2.0	0.0	0.0	0.0
75°	780.7	96.2	16.0	8.0	7.0	5.0	3.0	1.0	0.0	0.0	0.0
77.5°	211.5	47.1	9.0	6.0	5.0	3.0	2.0	0.0	0.0	0.0	0.0
80°	55.1	22.0	6.0	4.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.0	10.0	3.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	8.0	4.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.0	1.0	1.0	1.0	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

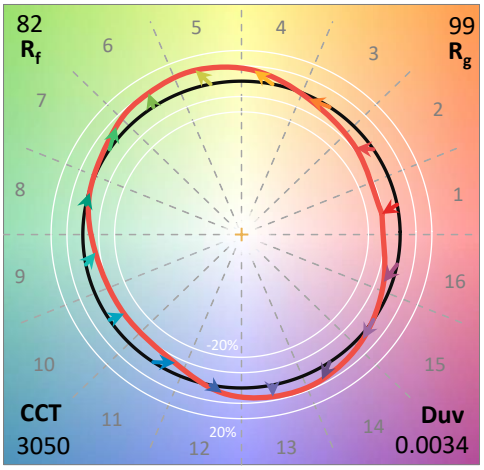
Test Information

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

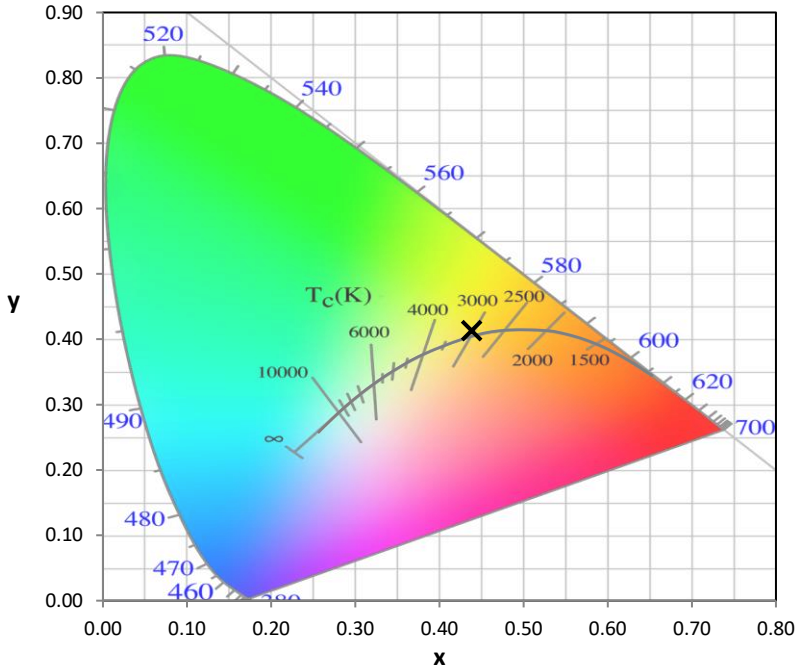
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

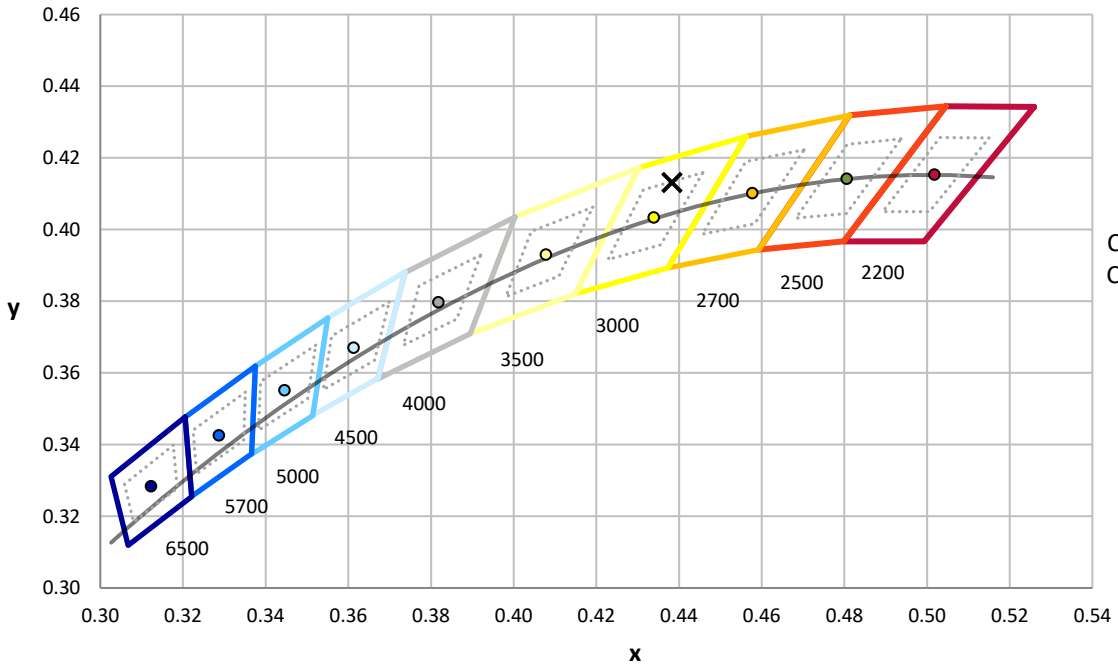
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

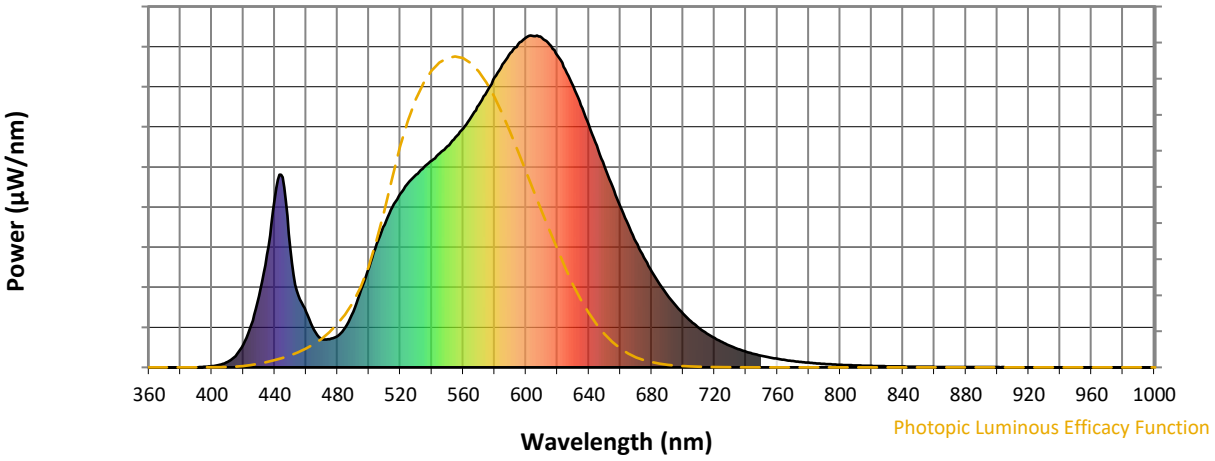


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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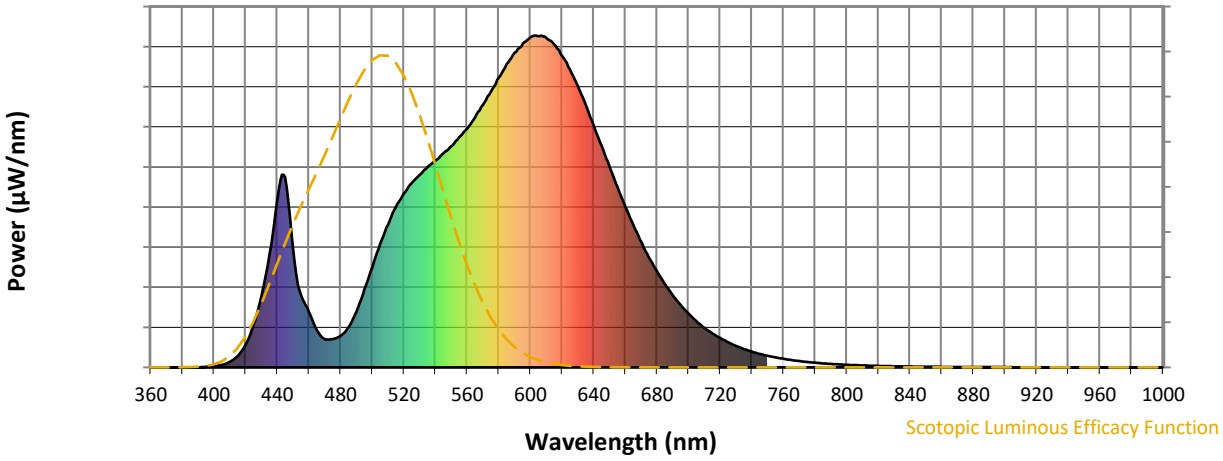
Scotopic Flux vs. Wavelength



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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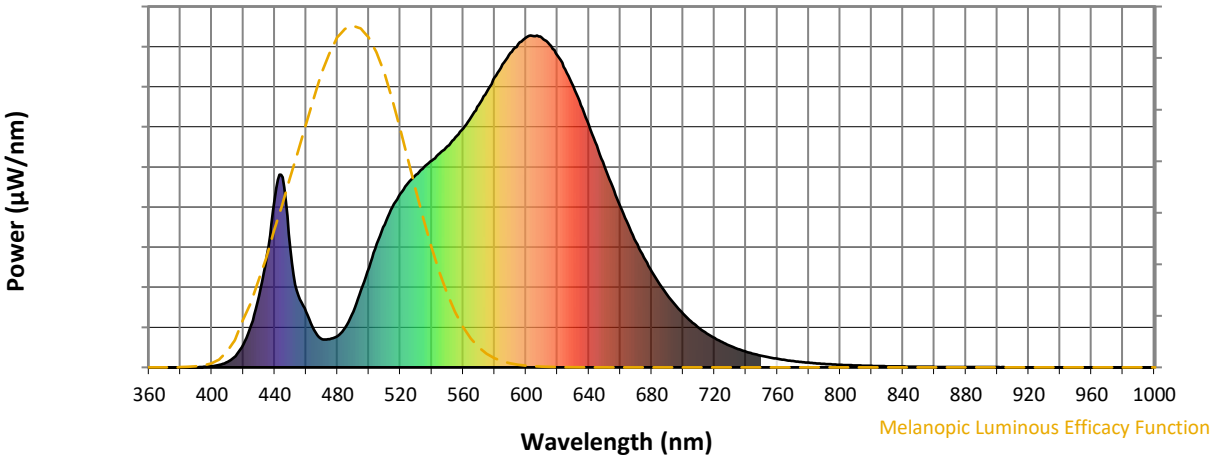
Melanopic Flux vs. Wavelength



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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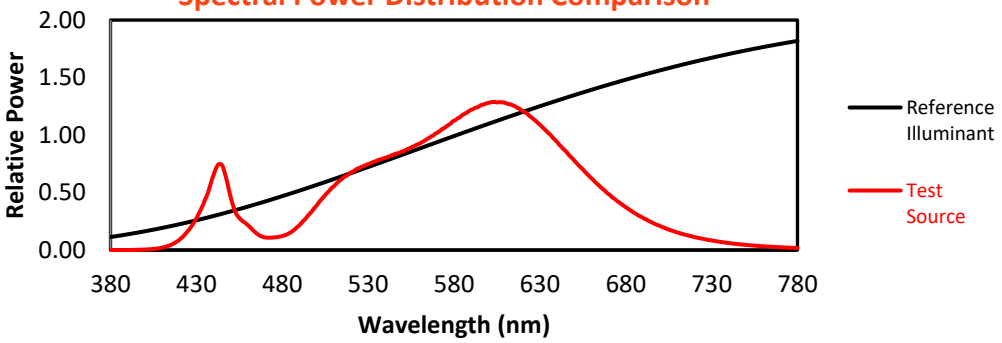
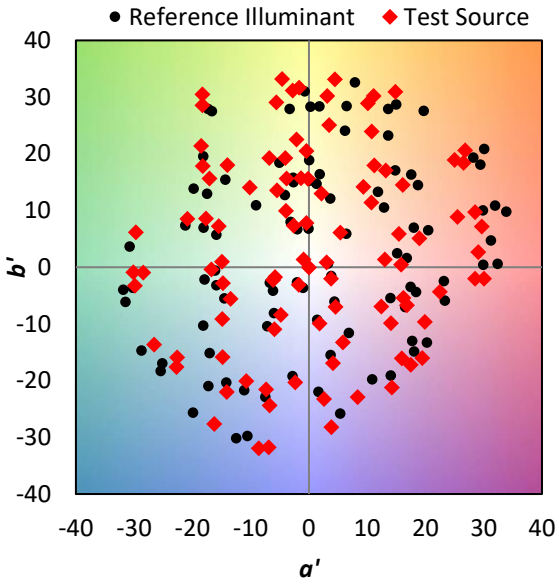
Summary

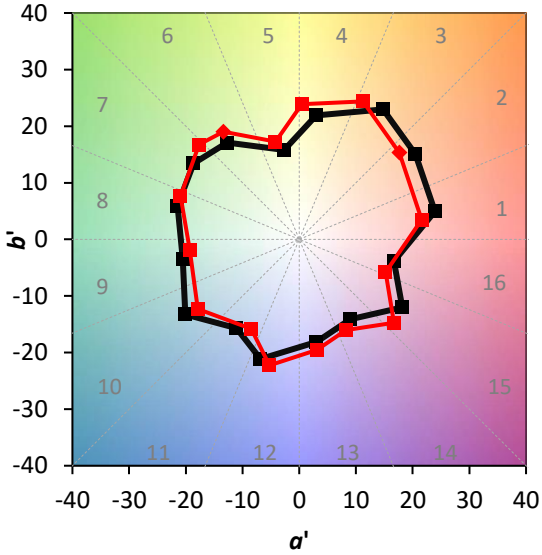
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

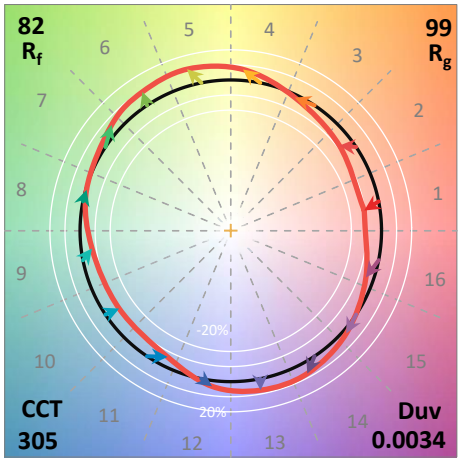
Spectral Power Distribution Comparison

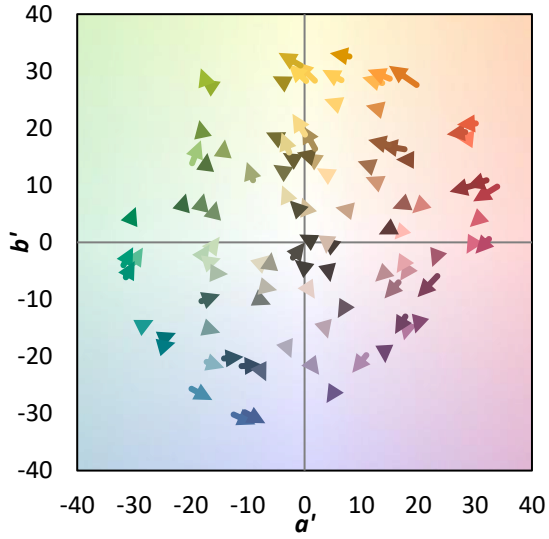


Color Vector Graphics









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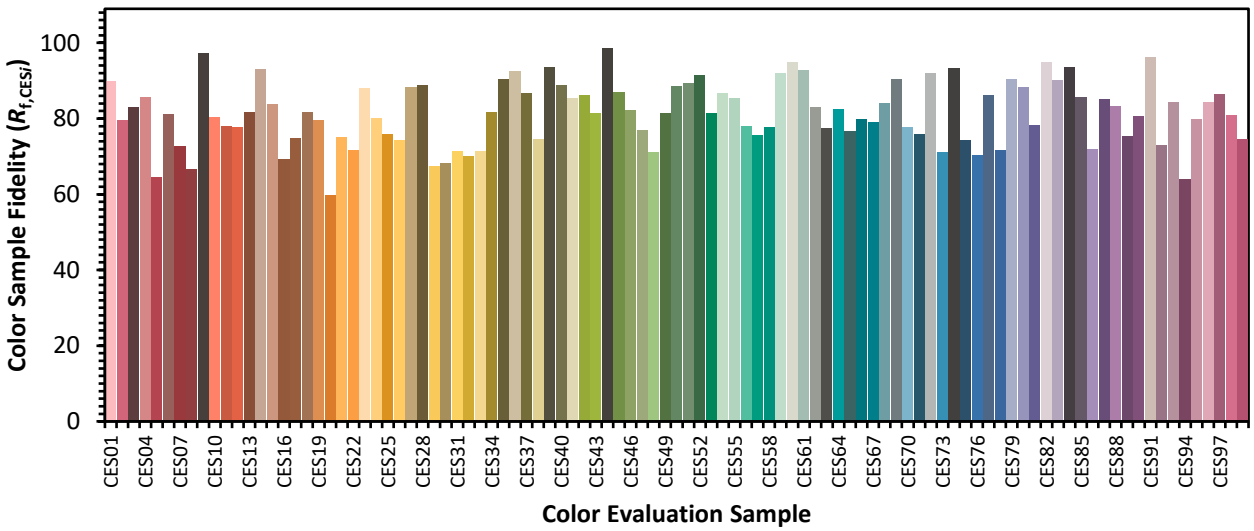
Individual Sample Fidelity Index ($R_{f,i}$)

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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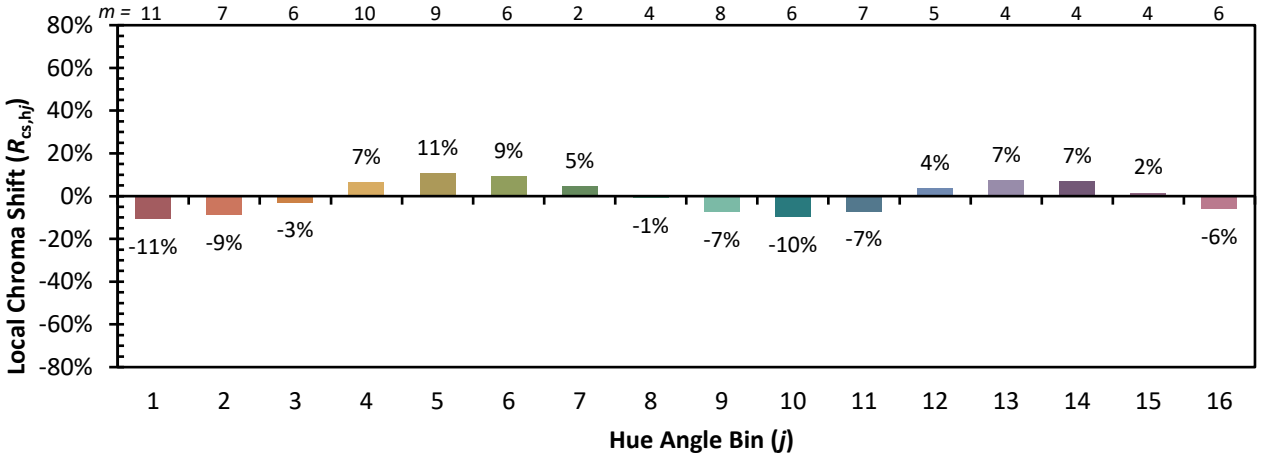
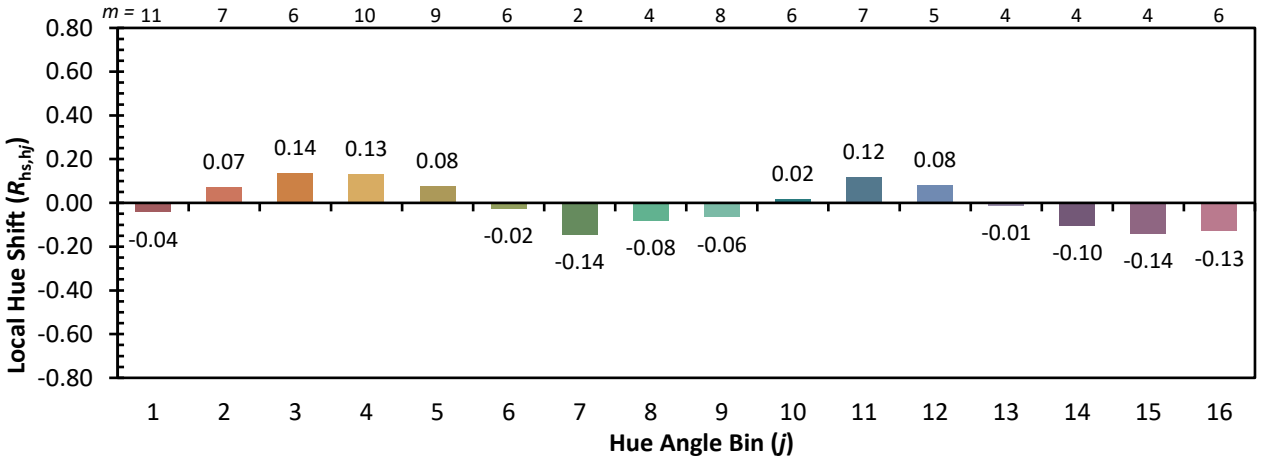
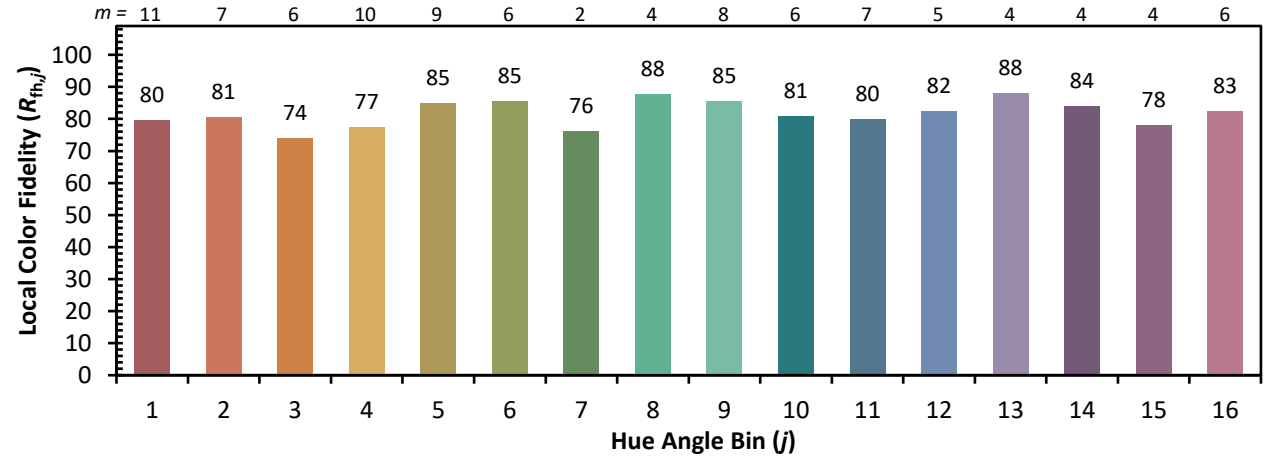
Color Rendition by Hue-Angle Bin







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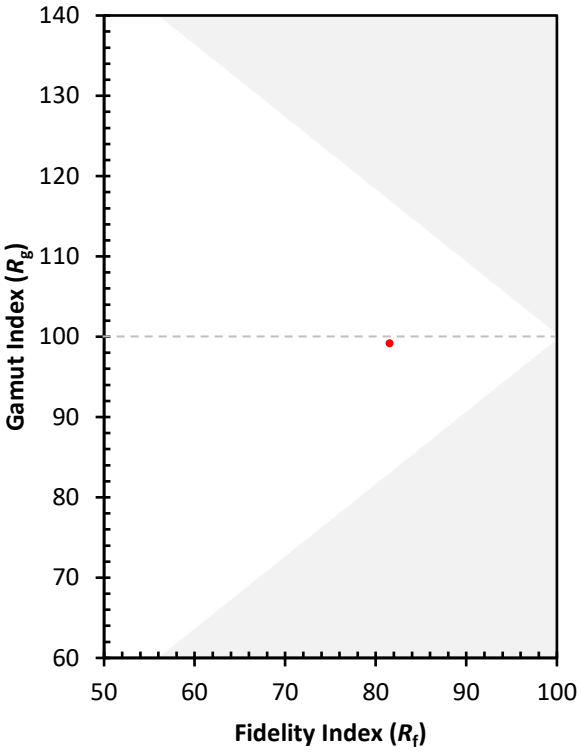
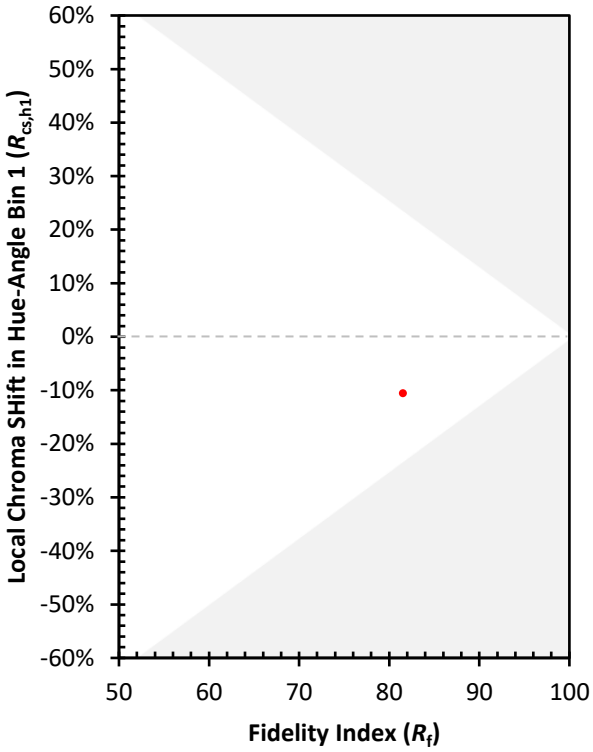
Measure Comparisons





(END OF REPORT)