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: P630549

Luminaire Tested: GWS-SA1D-830-U-SL2-W-GRSBK

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:	P630549
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1D-830-U-SL2-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2828.5 lumens
Efficiency:	N/A
Efficacy:	63.8 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	44.3
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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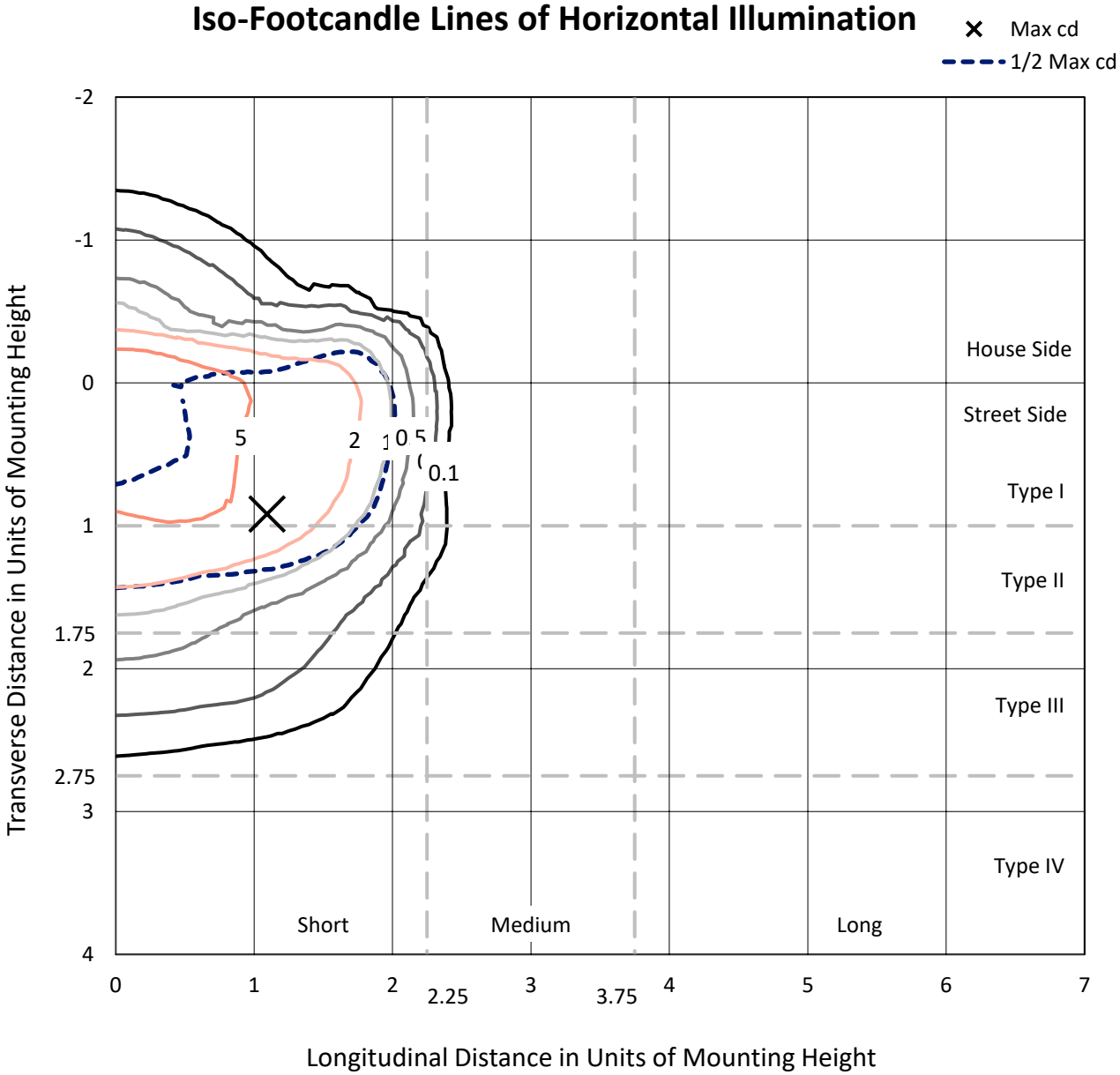
REPORT NUMBER: P630549
CATALOG NUMBER: GWS-SA1D-830-U-SL2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
Type II - Short - N/A

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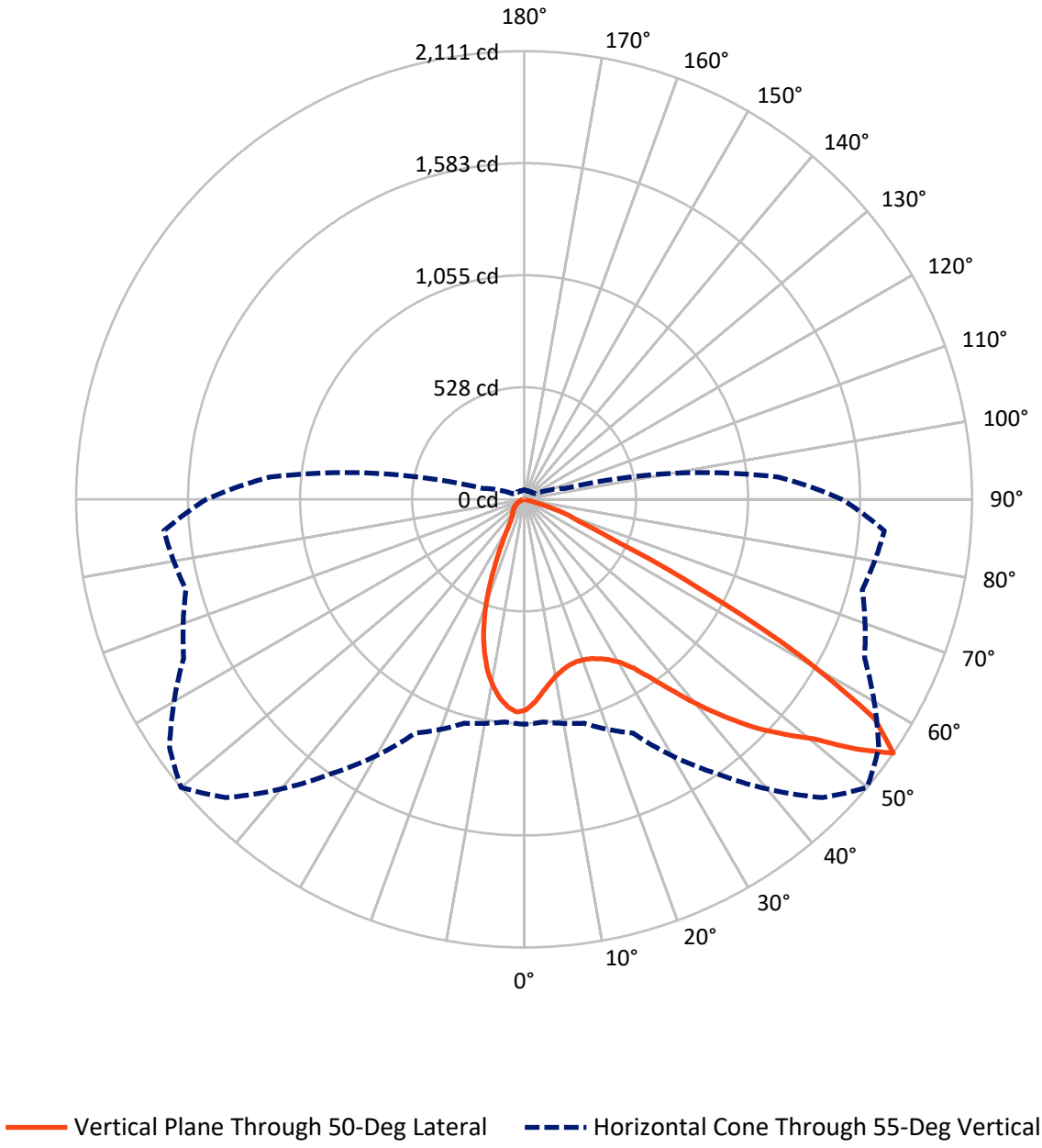
Luminous Intensity Polar Plot



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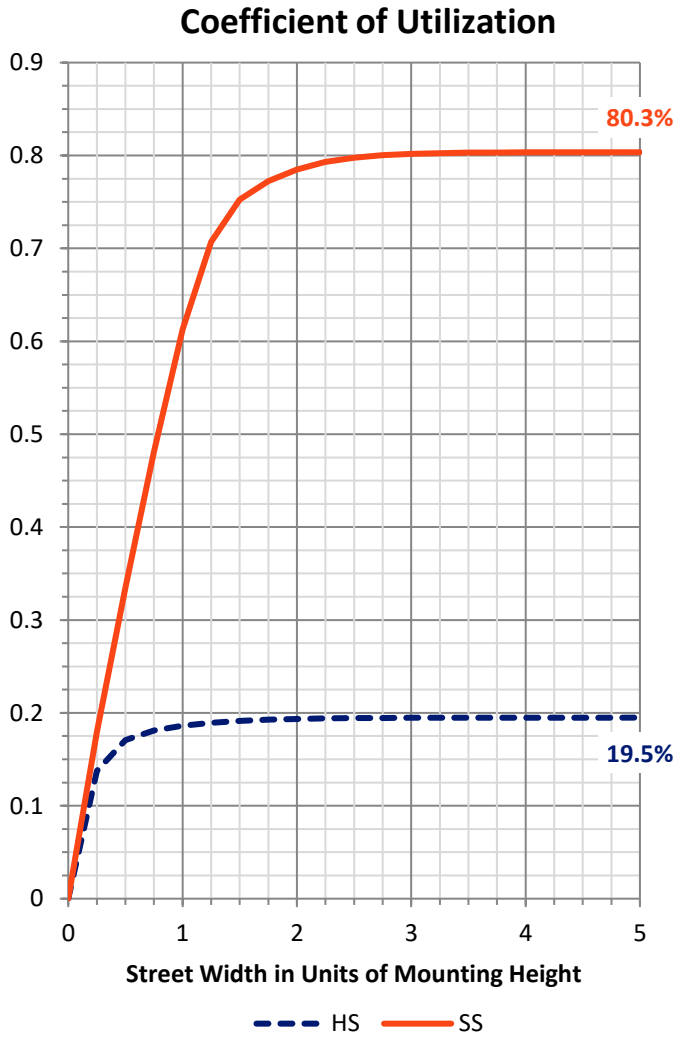
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	557.3	0.0	557.3
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	2271.1	0.0	2271.1
	% Fixture	80.3	0.0	80.3
Total	Lumens	2828.5	0.0	2828.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	3.1
10°-20°	214.5	7.6
20°-30°	302.5	10.7
30°-40°	447.7	15.8
40°-50°	645.8	22.8
50°-60°	761.8	26.9
60°-70°	339.8	12.0
70°-80°	29.2	1.0
80°-90°	0.0	0.0
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°	2828.5	100.0
0°-180°	2828.5	100.0



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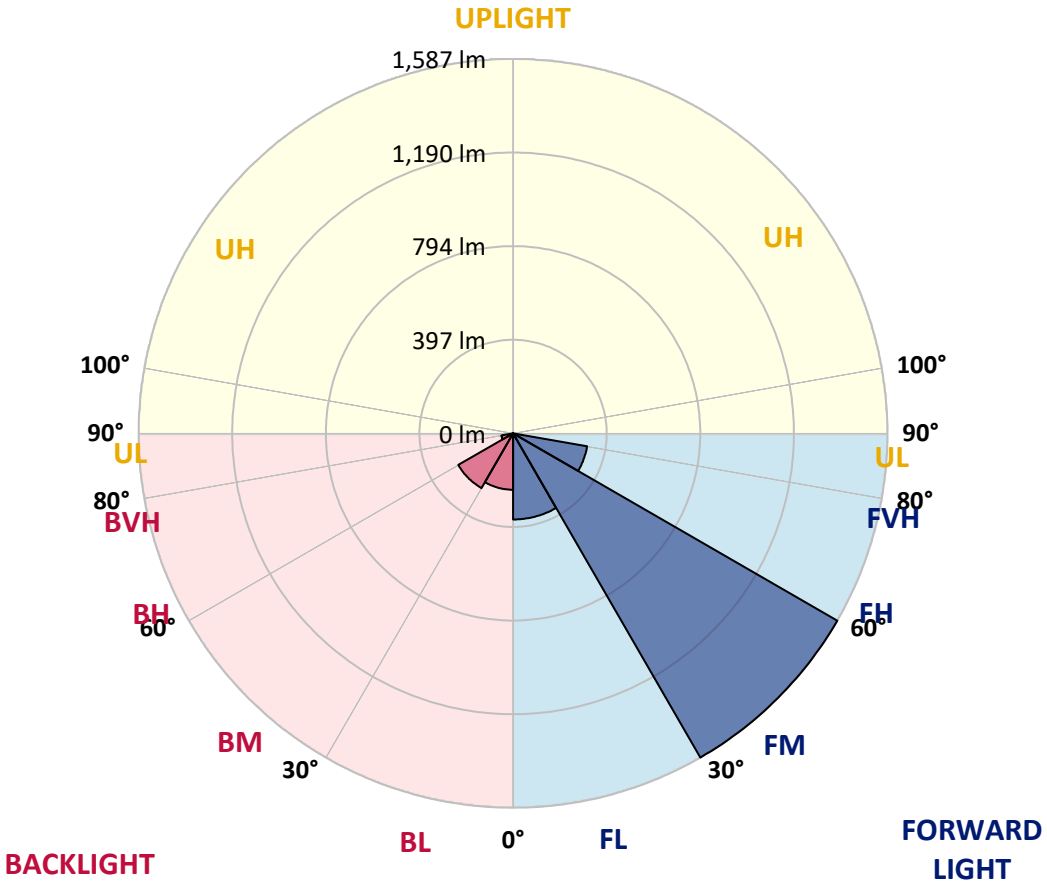
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	365.2	12.9			
FM	(30°-60°)	1587.3	56.1			
FH	(60°-80°)	318.7	11.3			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	239.0	8.4	B1/500		
BM	(30°-60°)	268.0	9.5	B1/1000		
BH	(60°-80°)	50.3	1.8	B0/110		G0/110
BVH	(80°-90°)	0.0	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-G0
Type II Short



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REPORT NUMBER: P630549
CATALOG NUMBER: GWS-SA1D-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	992.4	992.4	992.4	992.4	992.4	992.4	*992.4*	992.4	992.4	992.4	992.4
2.5°	922.0	922.6	923.0	932.3	935.8	949.6	*956.8*	960.6	970.6	982.4	992.0
5°	860.1	859.1	860.8	872.6	880.2	900.5	*911.6*	919.2	941.3	968.9	992.0
7.5°	806.3	808.3	810.4	823.2	834.6	856.7	*872.6*	884.0	914.7	955.8	994.8
10°	768.3	768.3	771.4	785.9	799.4	826.7	*842.5*	857.0	893.6	944.1	997.9
12.5°	740.3	740.7	744.5	761.0	776.6	804.9	*821.5*	835.6	876.0	932.3	998.6
15°	727.2	726.2	729.3	746.9	764.2	790.7	*808.0*	821.8	863.6	925.8	1002.1
17.5°	723.8	723.1	725.5	742.7	760.4	786.3	*803.2*	817.0	861.9	927.8	1012.4
20°	733.8	732.4	731.3	746.2	762.8	788.3	*805.9*	821.5	870.2	939.2	1028.3
22.5°	757.6	757.6	755.2	762.4	773.5	796.6	*814.9*	835.3	891.9	962.0	1051.8
25°	801.4	798.0	793.5	796.6	795.2	809.7	*831.5*	859.8	933.0	999.6	1080.4
27.5°	851.5	854.6	847.0	847.4	835.3	830.1	*855.3*	898.1	994.1	1052.8	1122.9
30°	919.5	917.1	917.5	916.4	888.5	863.9	*891.2*	948.2	1071.1	1134.0	1178.2
32.5°	972.7	976.2	987.6	994.1	957.5	918.2	*947.2*	1016.2	1158.8	1226.5	1245.8
35°	1029.0	1035.2	1058.3	1079.8	1049.0	1003.8	*1034.9*	1106.3	1241.4	1318.0	1323.5
37.5°	1088.4	1100.8	1128.4	1166.1	1161.2	1121.2	*1149.5*	1212.4	1306.3	1373.3	1387.8
40°	1156.4	1168.5	1213.7	1267.9	1279.3	1270.4	*1279.7*	1316.3	1349.1	1375.7	1415.4
42.5°	1231.0	1247.6	1304.9	1377.4	1420.2	1428.2	*1406.4*	1402.6	1367.7	1348.1	1409.5
45°	1319.0	1338.4	1403.3	1497.2	1565.2	1576.0	*1538.3*	1489.6	1379.5	1327.7	1391.9
47.5°	1417.8	1436.1	1500.7	1613.6	1714.8	1718.9	*1653.3*	1574.9	1414.4	1351.2	1405.4
50°	1451.0	1462.3	1518.3	1650.9	1837.3	1869.1	*1774.2*	1670.9	1484.4	1420.2	1471.0
52.5°	1337.0	1341.5	1390.2	1524.2	1812.5	2016.6	*1950.6*	1814.2	1609.1	1525.5	1572.2
55°	*1059.4*	*1052.1*	*1091.5*	*1214.4*	*1575.3*	*1986.5*	*2110.5*	*2039.3*	*1769.7*	*1649.2*	*1703.7*
57.5°	741.0	732.4	723.4	806.6	1175.4	1684.0	*1944.7*	2070.8	1922.6	1771.7	1845.6
60°	609.1	600.8	557.3	519.0	710.6	1209.2	*1493.8*	1731.0	1910.2	1765.5	1841.1
62.5°	526.2	521.4	503.8	451.7	418.2	690.3	*935.4*	1162.6	1465.8	1386.4	1390.5
65°	413.3	411.9	424.0	429.6	369.8	381.9	*477.2*	604.3	792.5	747.2	708.6
67.5°	282.5	279.3	302.1	371.5	355.7	301.4	*279.3*	281.8	342.9	209.6	166.4
70°	179.6	172.3	172.7	230.3	289.4	237.9	*215.5*	189.6	170.6	31.1	35.2
72.5°	115.0	110.5	95.0	103.9	134.0	116.0	*117.1*	100.8	67.3	16.6	19.3
75°	48.3	44.5	34.2	27.3	26.9	16.9	*14.8*	13.8	9.3	9.3	10.0
77.5°	0.3	0.0	0.0	0.3	0.7	0.3	*0.3*	0.7	1.4	2.1	2.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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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Scaled Data Report

REPORT NUMBER: P630549
CATALOG NUMBER: GWS-SA1D-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4
2.5°	997.9	989.6	999.0	1002.4	1002.1	1002.4	992.4	985.5	985.1	976.5	972.4
5°	1001.7	995.2	1002.1	997.6	986.9	973.4	955.4	939.9	933.0	923.0	918.2
7.5°	1009.0	1002.1	1001.0	983.1	956.5	928.2	896.4	868.1	852.9	834.6	835.6
10°	1014.1	1006.2	992.7	956.1	911.9	866.7	819.4	777.3	750.7	726.2	722.0
12.5°	1016.2	1004.5	973.1	917.8	855.7	796.6	727.2	667.1	625.7	593.6	589.1
15°	1020.0	1001.0	947.9	871.5	786.3	702.7	614.3	532.1	477.2	440.3	443.4
17.5°	1025.9	997.2	919.5	819.7	711.7	593.6	474.1	379.8	329.4	308.0	308.4
20°	1034.2	992.7	888.5	762.8	622.2	470.3	331.5	260.4	246.2	245.5	244.5
22.5°	1045.2	988.3	855.3	700.3	516.2	329.4	220.6	198.5	204.4	215.8	217.9
25°	1058.3	982.7	818.4	629.8	400.5	216.2	165.4	161.9	176.1	191.3	194.7
27.5°	1078.7	980.0	776.2	549.7	281.1	155.0	135.4	137.4	150.2	163.0	166.1
30°	1113.3	985.1	730.3	459.9	180.6	123.6	117.4	120.5	127.4	134.0	136.7
32.5°	1160.2	1000.3	685.8	361.9	128.8	107.4	106.0	107.7	110.5	114.3	115.3
35°	1215.1	1026.6	639.8	259.0	106.4	98.1	96.7	96.7	98.1	98.8	99.1
37.5°	1260.3	1054.2	596.7	172.3	95.3	90.8	88.7	87.7	87.4	88.1	88.4
40°	1280.0	1065.6	549.7	125.3	87.4	84.3	81.1	78.0	78.0	80.5	80.8
42.5°	1266.2	1052.8	495.5	103.6	81.8	77.3	72.5	69.8	71.1	73.5	74.2
45°	1236.9	1021.4	435.8	91.5	76.3	70.4	64.9	63.2	64.6	67.7	68.4
47.5°	1232.0	1000.7	364.3	83.6	70.4	64.6	58.7	57.0	58.7	61.1	61.8
50°	1280.0	1018.6	284.9	76.7	64.9	58.4	53.5	51.8	52.8	54.2	54.9
52.5°	1367.7	1085.3	230.0	70.1	58.4	52.1	49.0	47.0	47.0	48.3	48.7
55°	*1497.2*	*1201.6*	*198.5*	*62.5*	*50.8*	*47.3*	*44.5*	*42.5*	*42.5*	*43.2*	*43.5*
57.5°	1646.4	1342.5	205.8	52.5	44.5	42.8	40.4	38.7	39.4	39.4	39.4
60°	1625.7	1332.2	220.3	44.2	39.4	38.7	36.6	35.9	37.6	36.3	35.6
62.5°	1197.5	920.2	115.3	36.3	33.8	33.1	31.8	33.1	35.6	31.8	30.4
65°	581.5	445.4	46.3	29.7	28.7	28.0	27.3	29.4	30.7	24.9	23.5
67.5°	136.7	111.2	30.0	25.2	23.8	22.4	23.1	23.5	22.4	16.9	16.2
70°	35.6	34.9	23.5	21.1	19.0	17.6	17.6	17.3	14.8	10.7	10.0
72.5°	19.3	19.0	16.9	15.9	13.1	11.7	12.1	10.7	8.3	6.2	5.9
75°	9.7	10.4	9.7	9.0	7.3	6.6	6.6	5.9	4.1	2.4	2.4
77.5°	2.1	2.4	2.4	2.1	1.7	1.4	1.4	1.7	0.7	0.0	0.0
80°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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

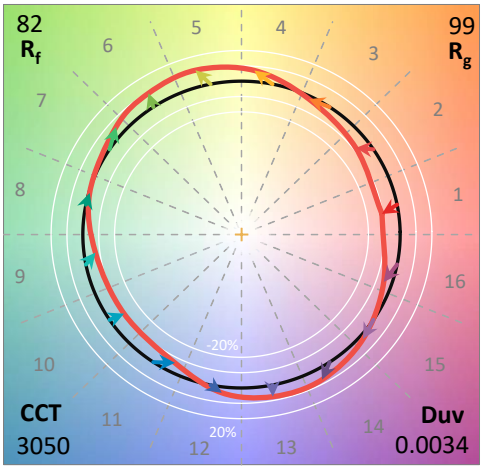
Test Information

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

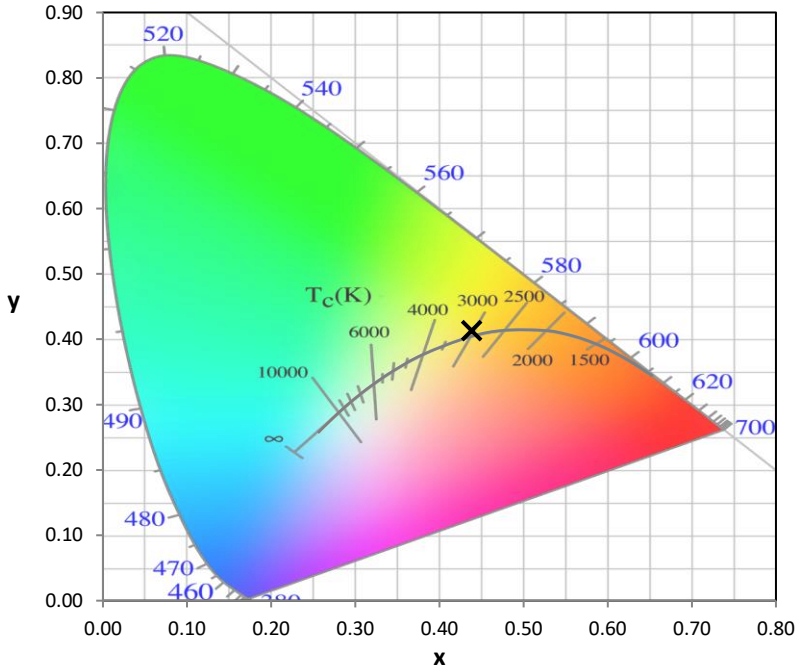
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

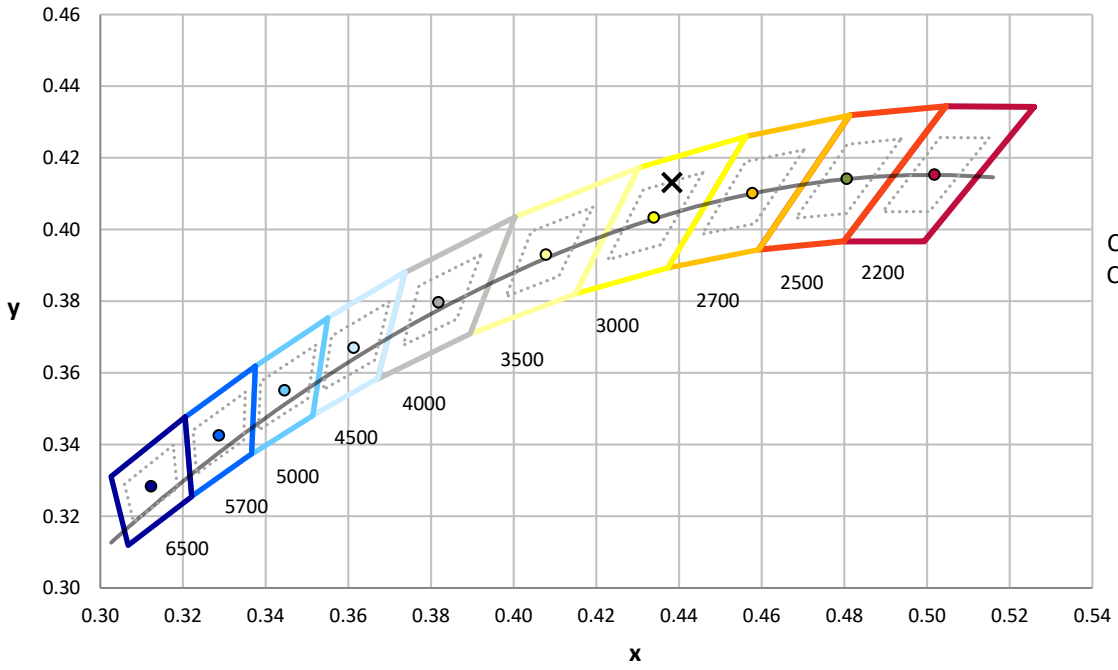
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

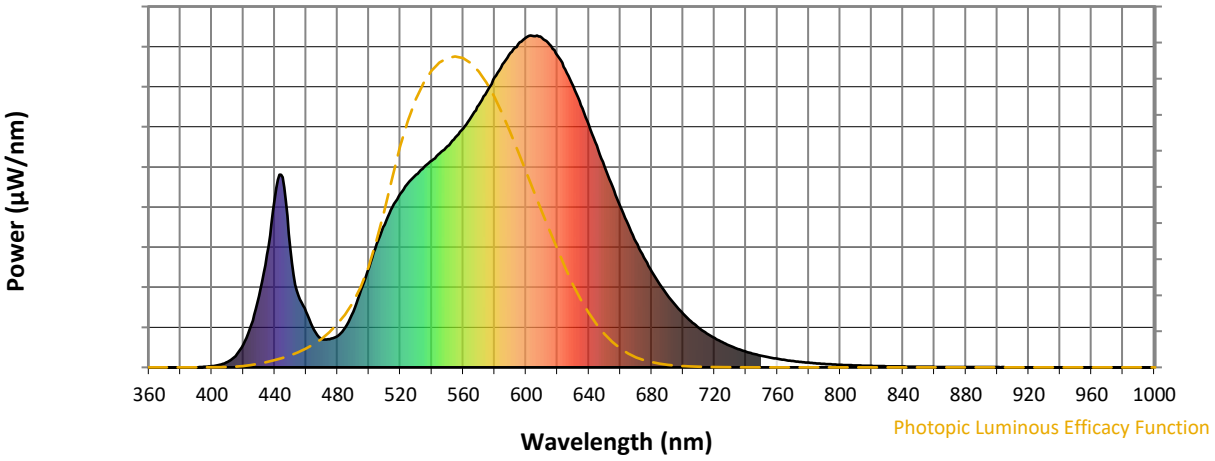


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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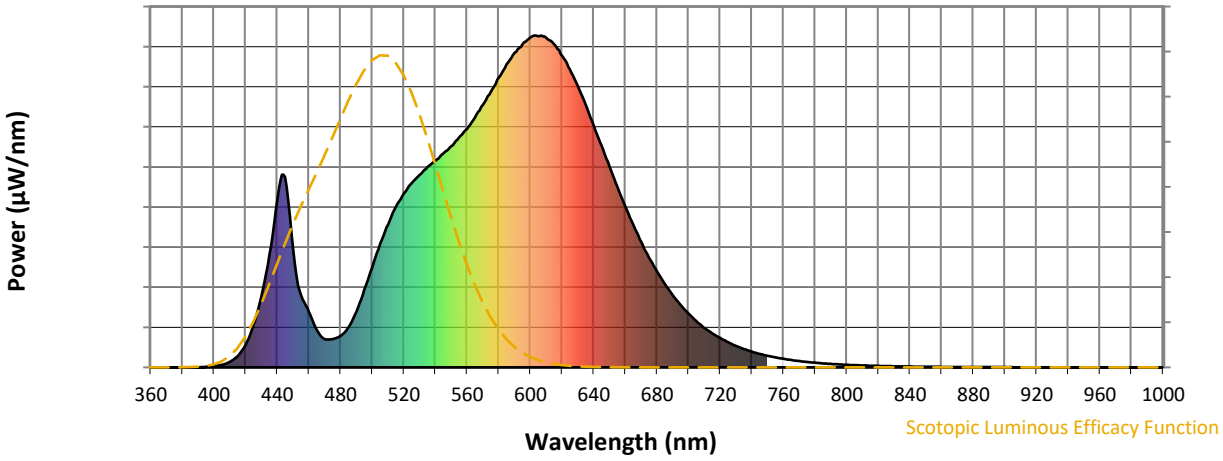
Scotopic Flux vs. Wavelength



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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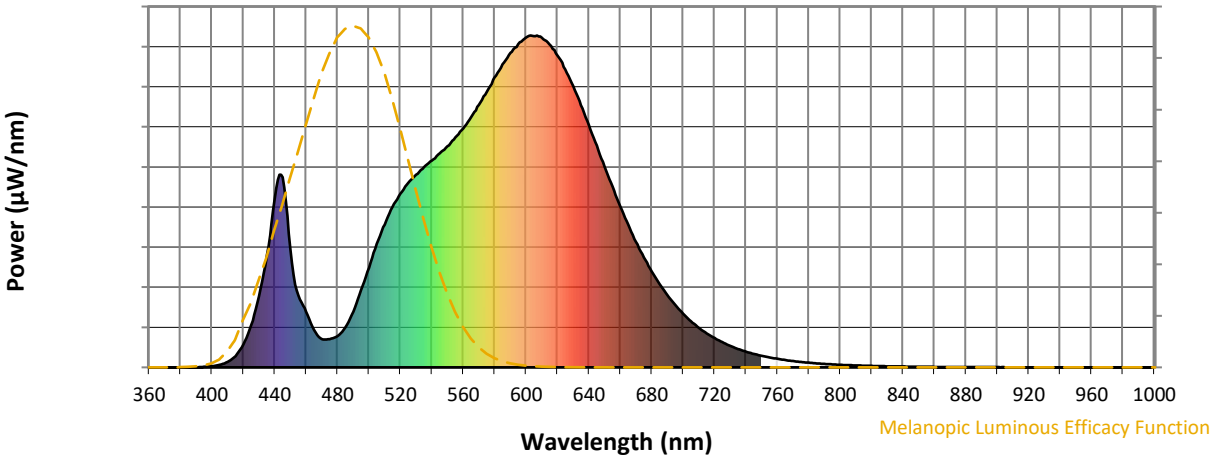
Melanopic Flux vs. Wavelength



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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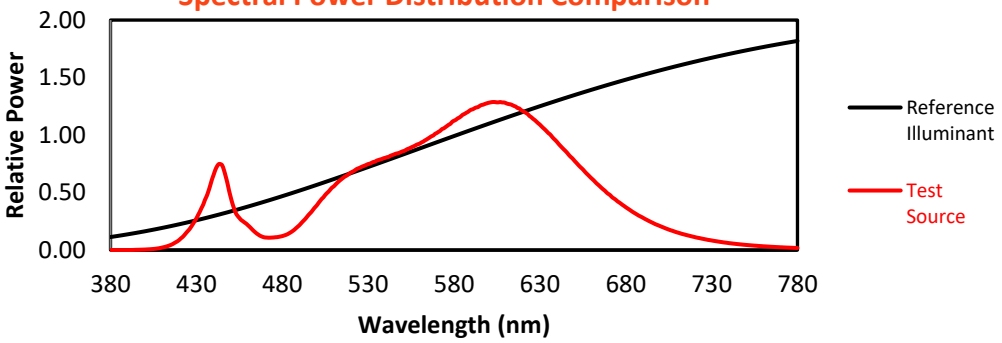
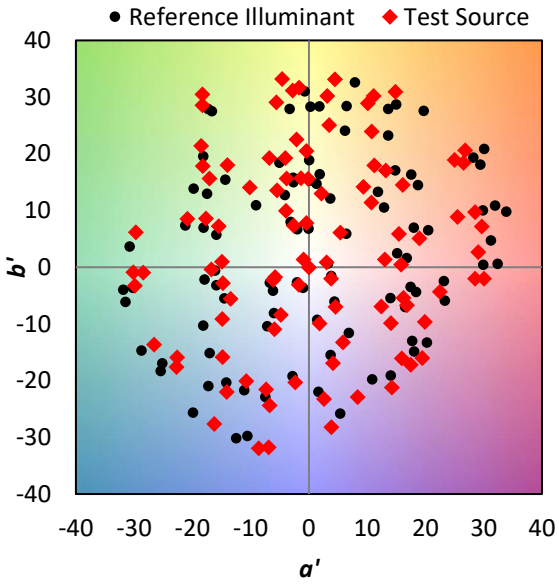
Summary

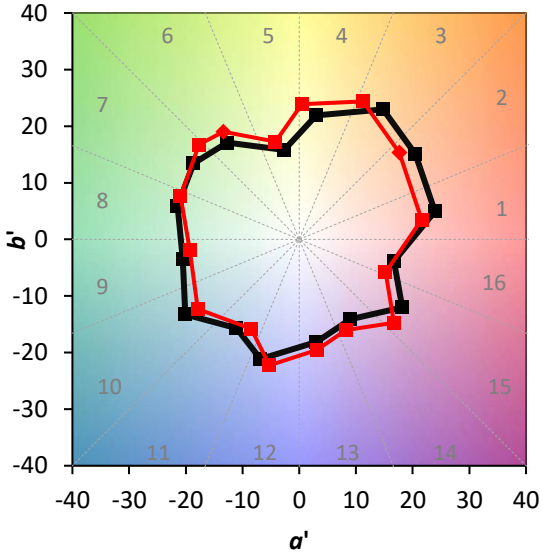
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

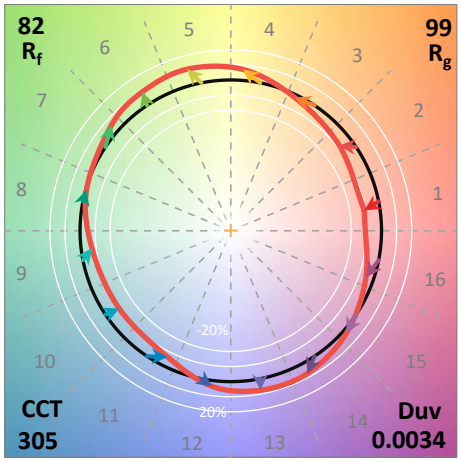
Spectral Power Distribution Comparison

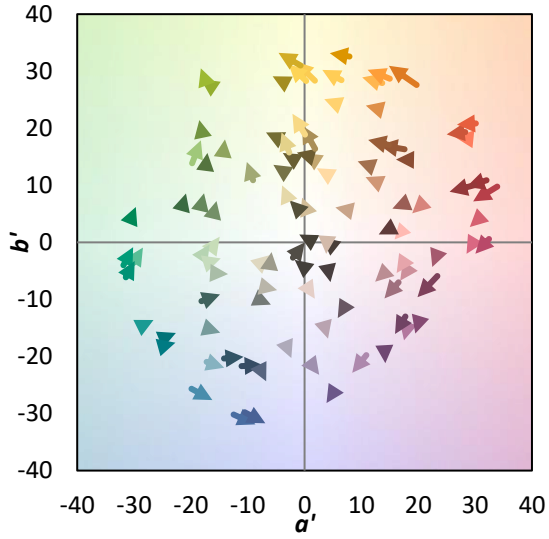


Color Vector Graphics









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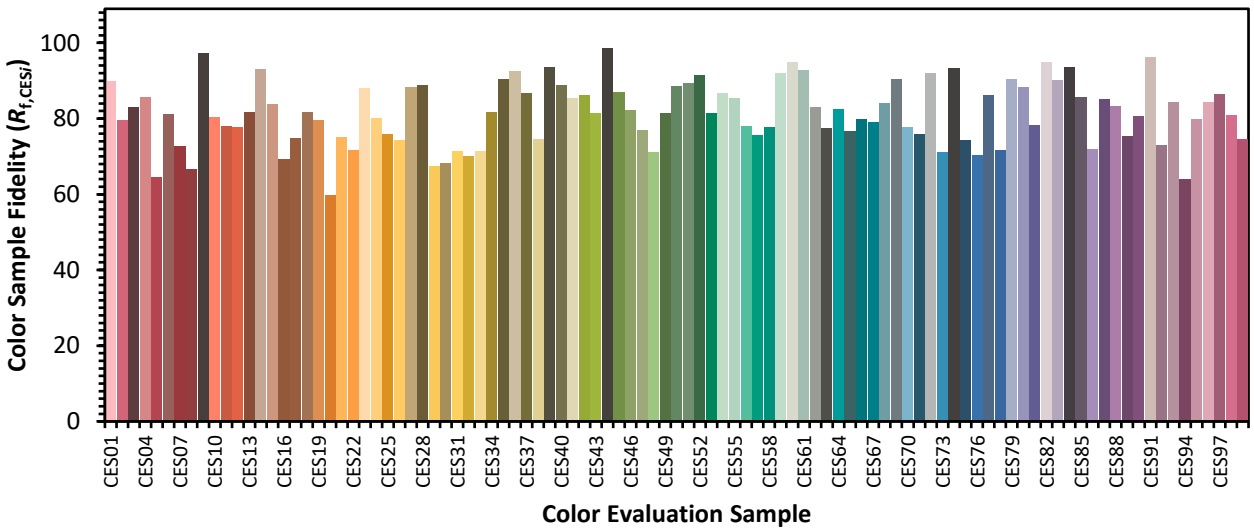
Individual Sample Fidelity Index ($R_{f,i}$)

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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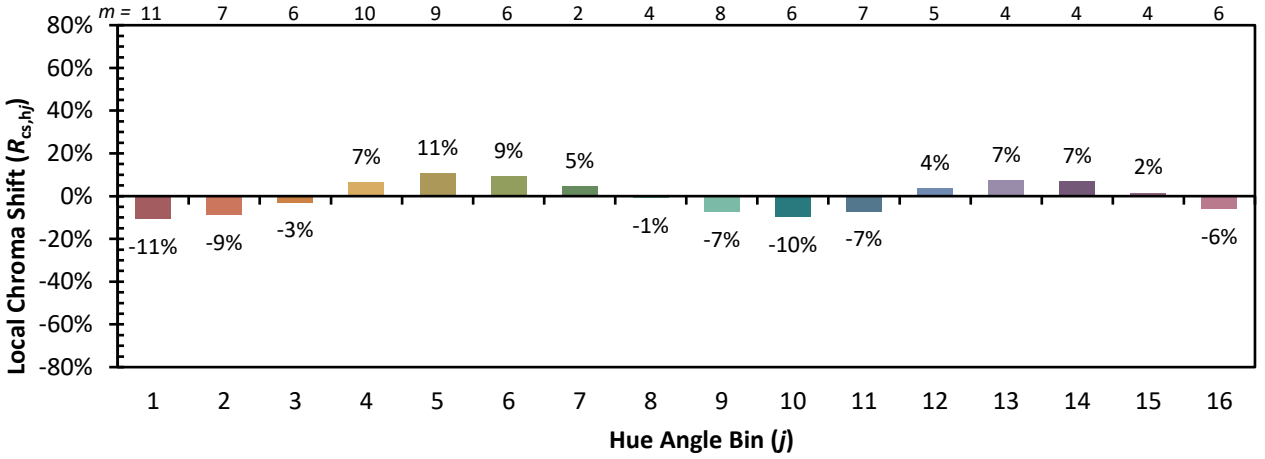
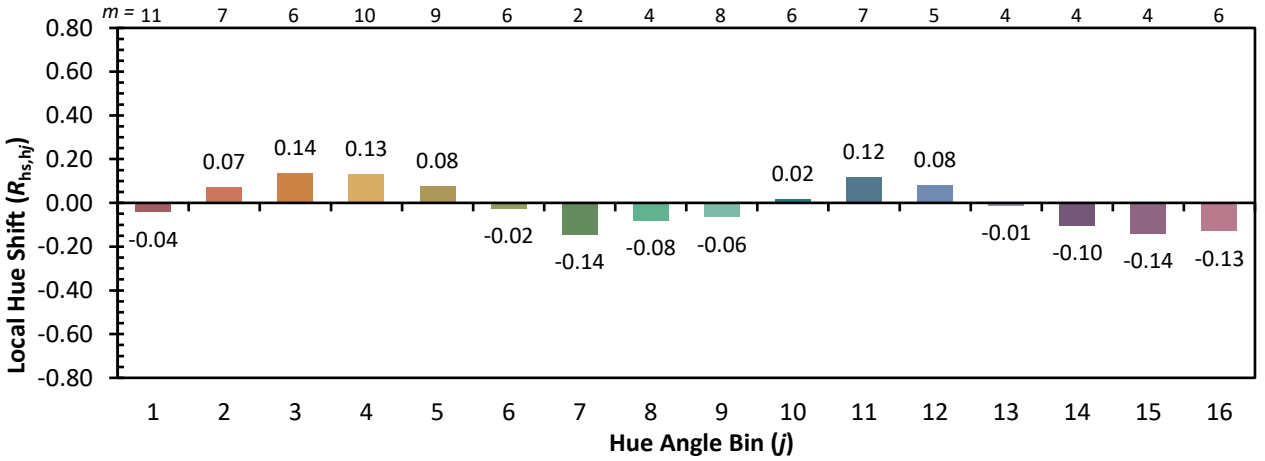
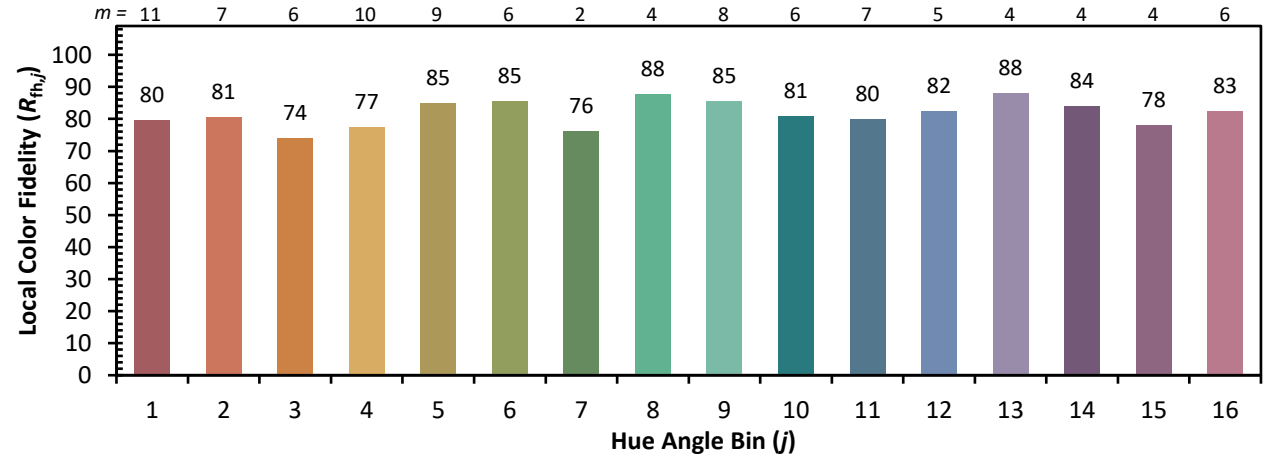
Color Rendition by Hue-Angle Bin







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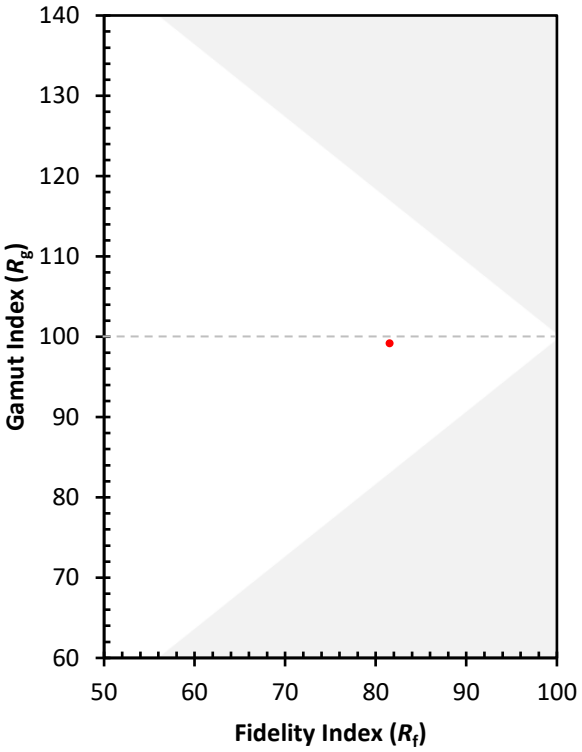
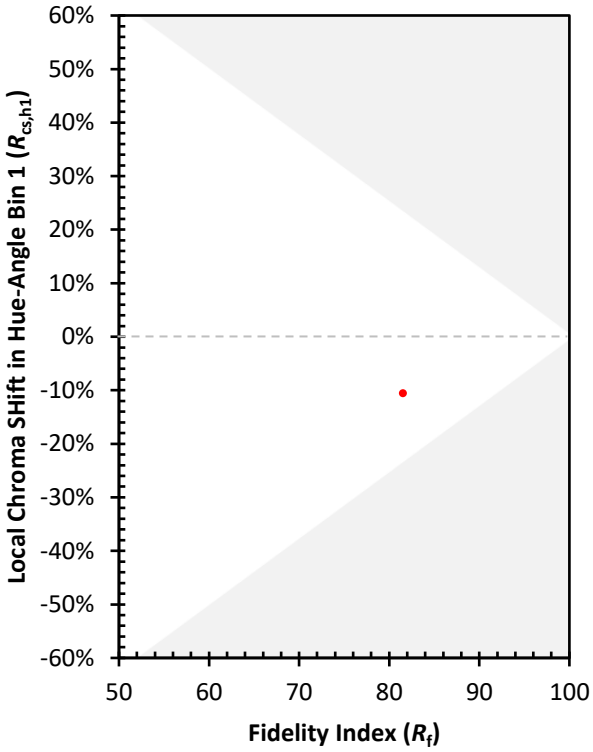
Measure Comparisons





(END OF REPORT)