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: P637505

Luminaire Tested: GWS-SA4C-830-U-T2R-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:	P637505
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA4C-830-U-T2R-W
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15723.8 lumens
Efficiency:	N/A
Efficacy:	122.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

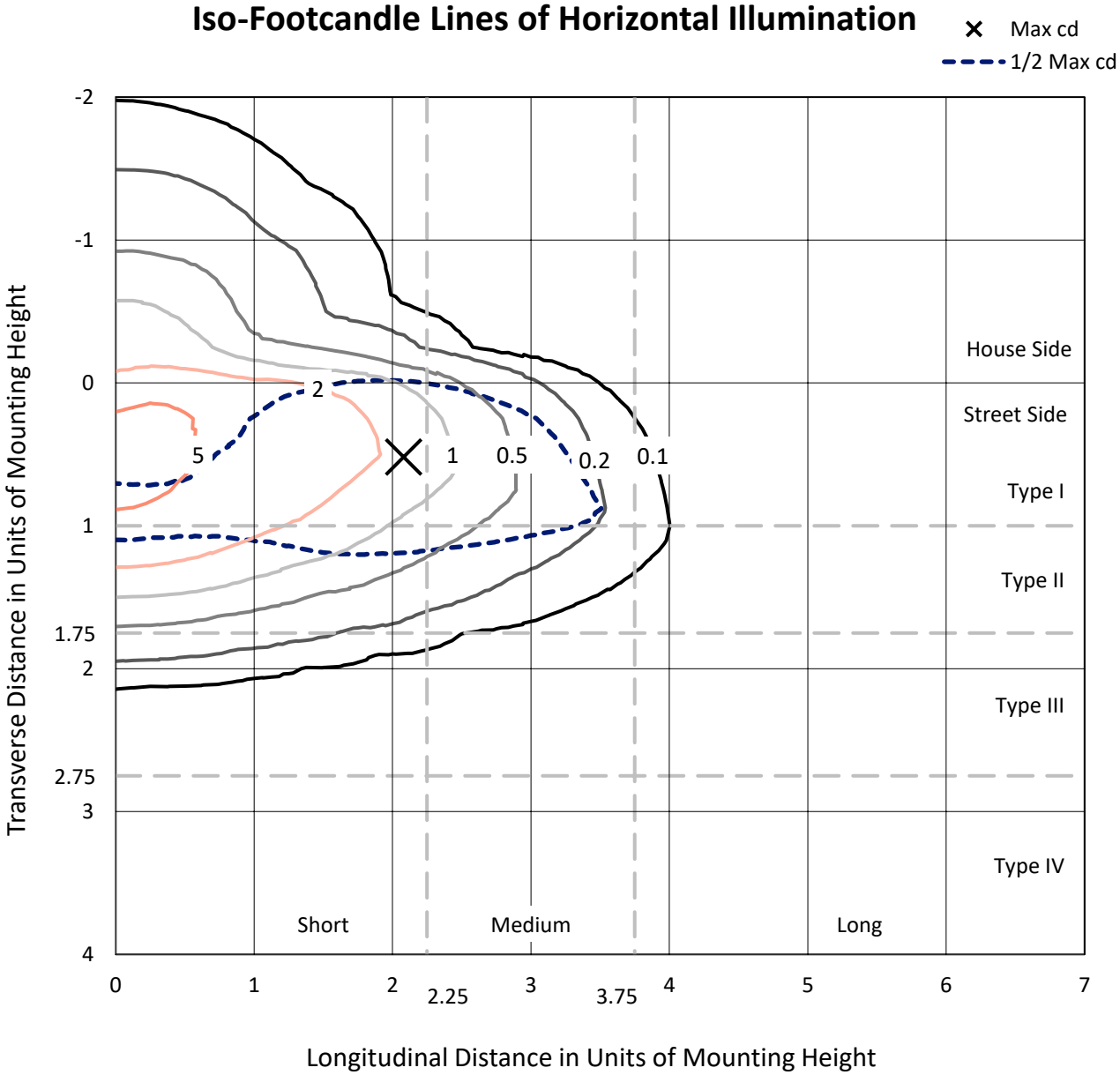
Input Watts (W):	128.5
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P637505
CATALOG NUMBER: GWS-SA4C-830-U-T2R-W

Iso-Footcandle Lines of Horizontal Illumination



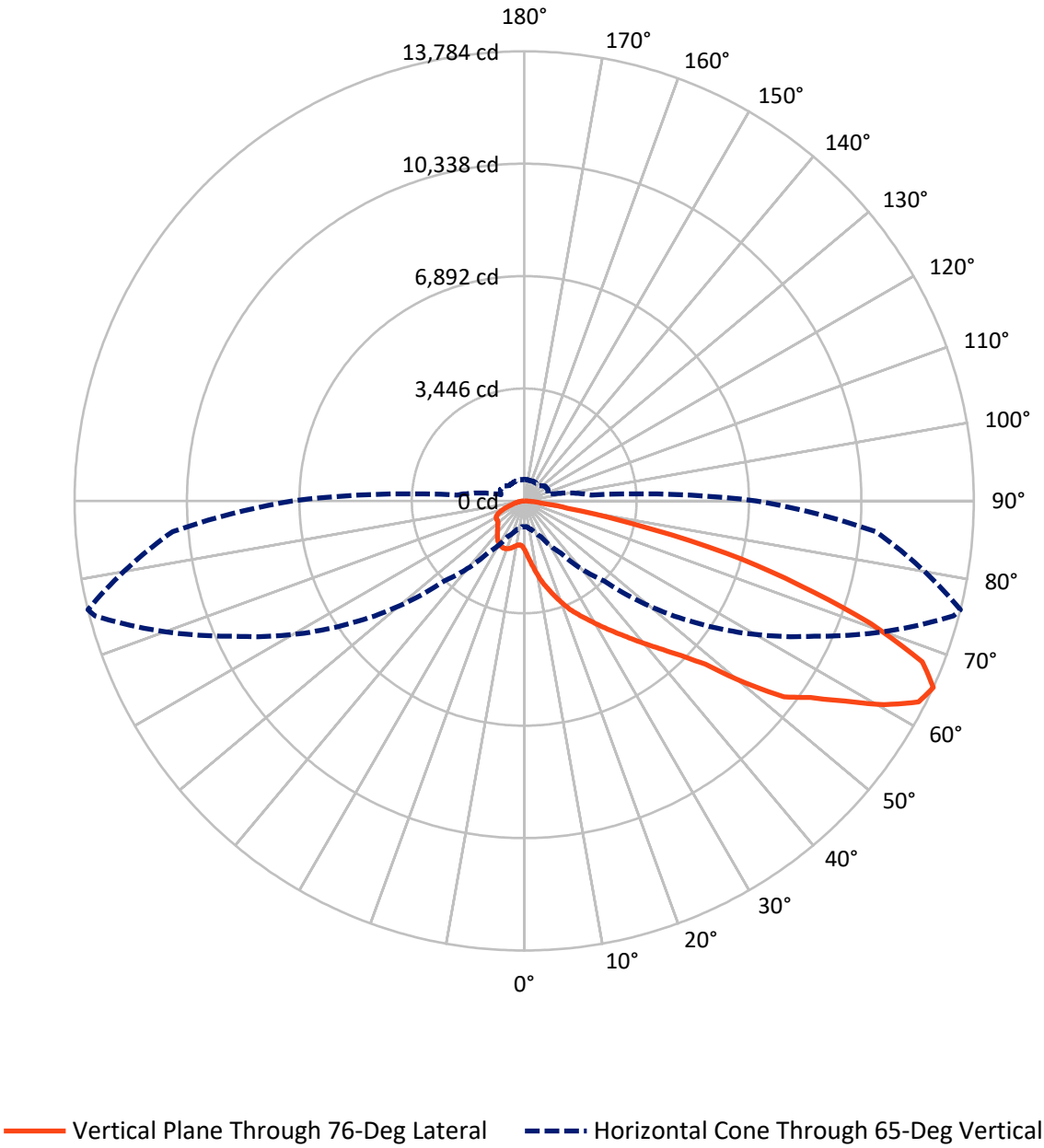
Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type II - Short - N/A

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P637505
CATALOG NUMBER: GWS-SA4C-830-U-T2R-W

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

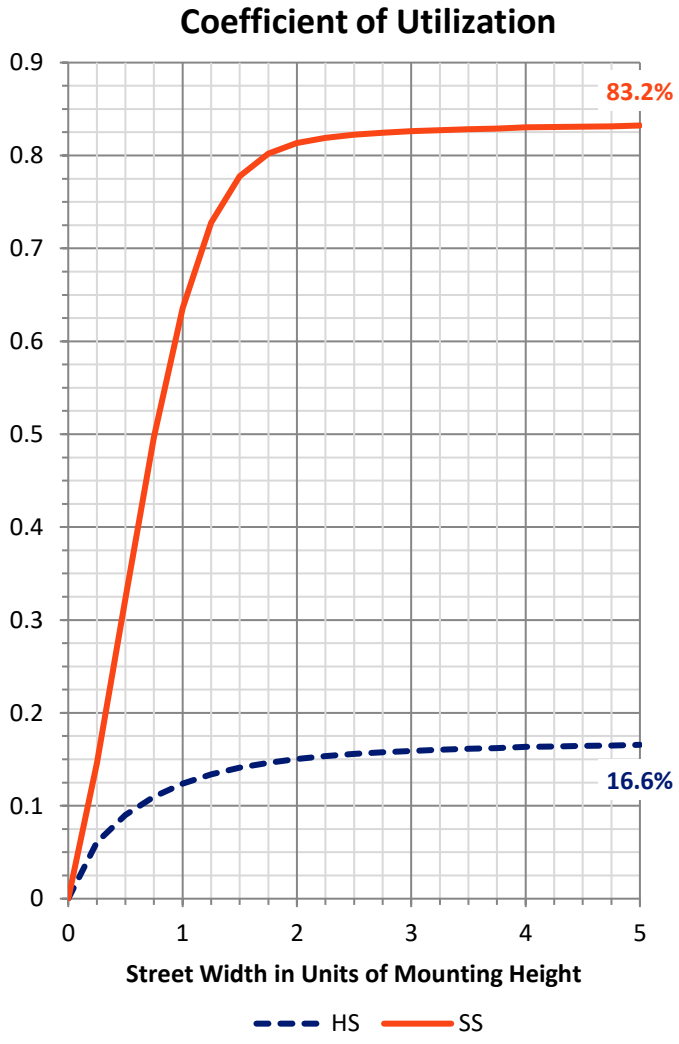
REPORT NUMBER: P637505
CATALOG NUMBER: GWS-SA4C-830-U-T2R-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2628.3	0.0	2628.3
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	13095.5	0.0	13095.5
	% Fixture	83.3	0.0	83.3
Total	Lumens	15723.8	0.0	15723.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.9	1.1
10°-20°	673.8	4.3
20°-30°	1313.1	8.4
30°-40°	2196.1	14.0
40°-50°	3144.4	20.0
50°-60°	3722.6	23.7
60°-70°	3095.3	19.7
70°-80°	1266.7	8.1
80°-90°	134.9	0.9
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°	15723.8	100.0
0°-180°	15723.8	100.0



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

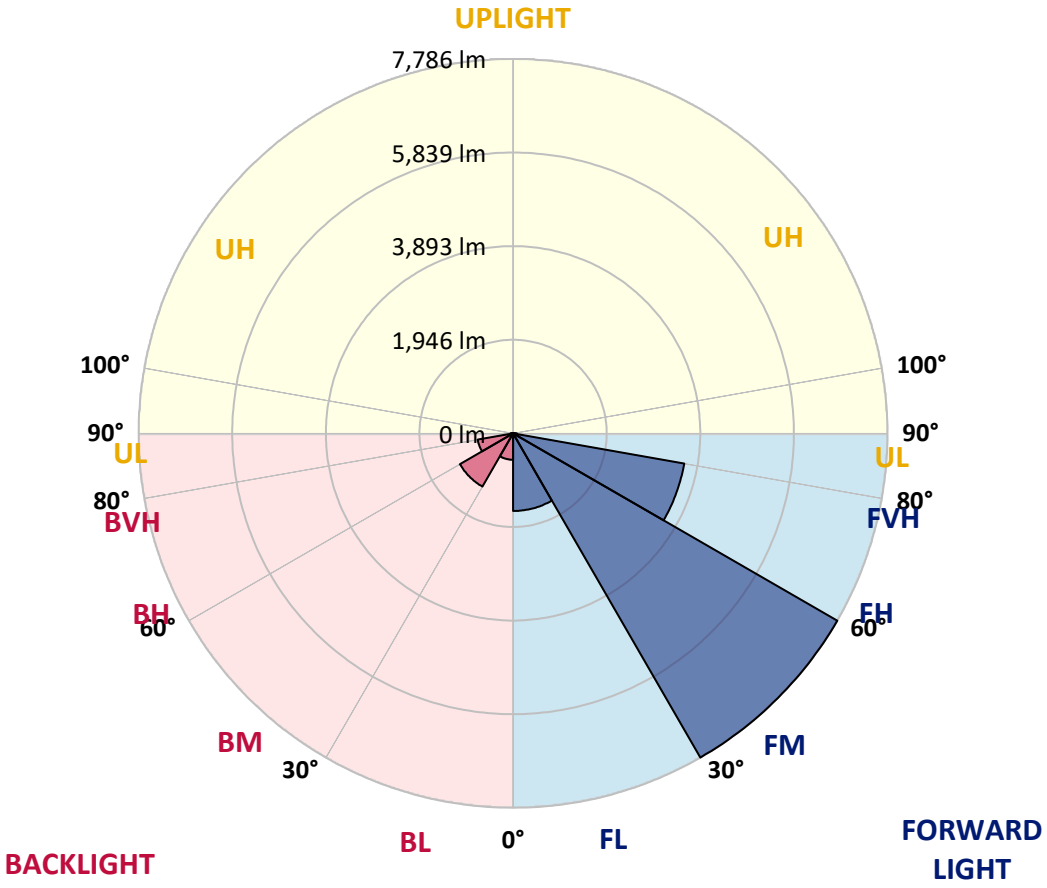
Scaled Data Report

REPORT NUMBER: P637505
CATALOG NUMBER: GWS-SA4C-830-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1614.0	10.3			
FM	(30°-60°)	7785.8	49.5			
FH	(60°-80°)	3615.3	23.0			G2/5000
FVH	(80°-90°)	80.4	0.5			G1/100
BL	(0°-30°)	549.8	3.5	B2/1000		
BM	(30°-60°)	1277.3	8.1	B2/2500		
BH	(60°-80°)	746.7	4.7	B2/1000		G2/1000
BVH	(80°-90°)	54.4	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-G2
Type II Short



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P637505
CATALOG NUMBER: GWS-SA4C-830-U-T2R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1489.0	1489.0	1489.0	1489.0	1489.0	1489.0	1489.0	1489.0	1489.0	*1489.0*	1489.0
2.5°	2087.0	2094.7	2069.3	2060.5	2000.8	1920.1	1852.7	1751.0	1657.0	*1642.6*	1558.6
5°	2650.8	2617.6	2588.9	2570.1	2487.2	2395.4	2252.8	2061.6	1861.5	*1837.2*	1655.9
7.5°	2985.7	2980.2	2944.8	2933.8	2869.6	2777.9	2630.9	2393.2	2102.5	*2062.7*	1787.4
10°	3254.3	3251.0	3233.3	3243.3	3184.7	3095.1	2952.5	2707.1	2366.7	*2326.9*	1934.5
12.5°	3488.7	3494.2	3490.9	3527.4	3497.5	3427.9	3279.7	3010.0	2630.9	*2587.8*	2113.5
15°	3660.0	3664.4	3681.0	3760.6	3777.2	3762.8	3612.5	3307.4	2891.7	*2829.8*	2298.1
17.5°	3708.6	3717.5	3757.3	3885.5	3975.1	4034.7	3923.1	3610.3	3148.2	*3080.8*	2486.1
20°	3773.9	3783.8	3823.6	3957.4	4088.9	4224.9	4205.0	3917.6	3406.9	*3351.6*	2676.2
22.5°	4075.6	4067.9	4050.2	4114.3	4208.3	4377.4	4427.2	4212.7	3674.4	*3621.3*	2886.2
25°	4657.1	4642.7	4530.0	4471.4	4440.4	4543.2	4631.7	4481.3	3935.3	*3855.7*	3081.9
27.5°	5298.2	5290.5	5146.8	5007.5	4817.4	4773.2	4825.1	4715.7	4188.4	*4107.7*	3252.1
30°	5905.1	5881.9	5731.5	5556.9	5302.6	5112.5	5036.2	4945.6	4465.9	*4381.8*	3451.1
32.5°	6447.8	6418.0	6241.1	6047.7	5781.3	5556.9	5329.2	5189.9	4779.8	*4682.5*	3654.5
35°	6893.3	6863.5	6682.2	6476.6	6183.7	6017.8	5706.1	5455.2	5099.3	*5000.9*	3894.4
37.5°	7238.2	7210.6	7021.6	6819.3	6563.9	6432.4	6161.5	5753.7	5467.4	*5364.5*	4148.6
40°	7431.7	7411.8	7260.3	7100.0	6885.6	6771.7	6650.1	6130.6	5879.7	*5776.9*	4448.2
42.5°	7490.3	7477.0	7370.9	7288.0	7143.2	7056.9	7126.6	6573.9	6319.6	*6230.1*	4785.3
45°	7343.2	7343.2	7312.3	7354.3	7360.9	7359.8	7604.1	7074.6	6860.2	*6761.8*	5260.6
47.5°	6967.4	6991.7	7037.0	7243.7	7461.5	7643.9	8162.3	7742.3	7555.5	*7474.8*	5933.8
50°	6279.8	6346.2	6500.9	6904.4	7367.6	7831.8	8690.7	8729.4	8907.4	*8764.8*	6924.3
52.5°	5272.8	5262.9	5657.5	6232.3	6938.7	7839.6	8981.4	9600.5	10079.1	*9980.7*	7660.5
55°	4190.6	4174.0	4542.1	5334.7	6280.9	7543.3	9156.1	9999.5	10729.1	*10640.7*	8322.6
57.5°	3209.0	3188.0	3515.2	4230.4	5352.4	6914.3	9122.9	10474.9	11623.4	*11578.1*	9222.4
60°	2208.6	2183.2	2489.4	3115.0	4253.6	5952.6	8755.9	10719.1	12670.2	*12685.7*	10185.2
62.5°	1326.5	1312.1	1534.3	2019.6	3059.8	4761.0	7897.0	10571.0	13503.7	*13573.3*	10804.3
65°	*800.3*	*790.4*	*920.8*	*1204.9*	*1941.1*	*3474.3*	*6572.8*	*9813.8*	*13624.2*	*13784.4*	*10818.6*
67.5°	582.6	583.7	621.2	734.0	1131.9	2244.0	4932.3	8456.4	12996.3	*13162.1*	10136.6
70°	506.3	508.5	528.4	553.8	684.2	1284.5	3206.8	6675.6	11140.3	*11268.5*	8501.7
72.5°	449.9	449.9	463.2	476.4	535.0	782.6	1717.8	4665.9	8792.4	*8826.7*	6488.8
75°	395.7	392.4	399.1	405.7	464.3	547.2	835.7	3251.0	6494.3	*6414.7*	4193.9
77.5°	315.0	311.7	312.8	319.5	372.5	391.3	423.4	2030.6	3660.0	*3454.4*	1852.7
80°	224.4	222.2	234.3	250.9	275.2	239.9	265.3	982.7	1451.4	*1350.8*	718.5
82.5°	133.8	138.2	157.0	170.2	190.1	150.3	171.3	328.3	514.0	*500.8*	291.8
85°	18.8	19.9	56.4	65.2	81.8	58.6	90.6	148.1	205.6	*220.0*	102.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.7	26.5	58.6	*59.7*	25.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P637505
CATALOG NUMBER: GWS-SA4C-830-U-T2R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1489.0	1489.0	1489.0	1489.0	1489.0	1489.0	1489.0	1489.0	1489.0	1489.0	1489.0
2.5°	1515.5	1463.6	1389.5	1327.6	1275.6	1233.6	1198.3	1171.7	1164.0	1152.9	1152.9
5°	1570.8	1476.8	1344.2	1250.2	1196.1	1164.0	1141.9	1130.8	1125.3	1118.7	1115.4
7.5°	1647.1	1515.5	1336.4	1241.4	1199.4	1179.5	1165.1	1158.5	1154.0	1147.4	1147.4
10°	1752.1	1573.0	1360.8	1272.3	1239.2	1219.3	1202.7	1191.6	1181.7	1171.7	1169.5
12.5°	1865.9	1648.2	1405.0	1314.3	1279.0	1254.6	1231.4	1214.8	1202.7	1190.5	1187.2
15°	1991.9	1725.5	1452.5	1355.2	1311.0	1277.9	1250.2	1224.8	1208.2	1190.5	1188.3
17.5°	2115.8	1804.0	1492.3	1382.9	1326.5	1285.6	1245.8	1212.6	1191.6	1171.7	1166.2
20°	2263.9	1882.5	1519.9	1390.6	1323.2	1269.0	1221.5	1179.5	1156.3	1133.0	1129.7
22.5°	2399.8	1955.5	1533.2	1379.6	1297.8	1233.6	1178.4	1133.0	1107.6	1084.4	1080.0
25°	2531.4	2019.6	1527.7	1353.0	1259.1	1185.0	1127.5	1082.2	1057.9	1033.6	1026.9
27.5°	2658.5	2062.7	1505.6	1312.1	1210.4	1130.8	1075.6	1034.7	1013.7	992.7	983.8
30°	2783.4	2102.5	1471.3	1259.1	1148.5	1074.5	1029.1	1000.4	979.4	957.3	950.7
32.5°	2909.4	2131.2	1419.3	1197.2	1085.5	1024.7	997.1	976.1	954.0	931.9	925.2
35°	3036.6	2143.4	1356.3	1126.4	1032.5	992.7	982.7	958.4	928.5	902.0	893.2
37.5°	3188.0	2154.4	1277.9	1056.8	986.0	977.2	975.0	938.5	903.1	866.6	856.7
40°	3370.4	2168.8	1197.2	993.8	948.4	971.7	962.8	913.1	842.3	806.9	795.9
42.5°	3593.7	2195.3	1113.1	936.3	920.8	950.7	940.7	851.2	803.6	783.7	778.2
45°	3922.0	2292.6	1029.1	891.0	899.8	920.8	905.3	814.7	795.9	782.6	776.0
47.5°	4506.8	2441.8	956.2	856.7	883.2	894.3	834.6	804.7	790.4	772.7	764.9
50°	5114.7	2507.1	897.6	835.7	864.4	870.0	795.9	791.5	781.5	762.7	755.0
52.5°	5525.9	2498.2	862.2	828.0	849.0	828.0	778.2	777.1	770.5	748.4	739.5
55°	5990.2	2513.7	846.7	830.2	842.3	757.2	756.1	759.4	756.1	731.8	727.4
57.5°	6617.0	2561.2	839.0	837.9	837.9	722.9	735.1	739.5	732.9	721.8	718.5
60°	7219.4	2564.5	824.6	846.7	834.6	701.9	710.8	715.2	707.5	705.3	704.1
62.5°	7446.0	2405.4	792.6	840.1	821.3	678.7	685.4	687.6	679.8	685.4	684.2
65°	*7108.9*	*2067.1*	*739.5*	*808.1*	*780.4*	*657.7*	*653.3*	*658.8*	*645.6*	*659.9*	*661.0*
67.5°	6311.9	1642.6	658.8	747.3	722.9	634.5	625.7	625.7	603.6	625.7	624.6
70°	5089.3	1160.7	540.5	650.0	659.9	606.9	602.4	577.0	541.7	574.8	571.5
72.5°	3857.9	833.5	425.6	514.0	568.2	568.2	569.3	526.2	485.3	500.8	487.5
75°	2444.1	587.0	340.5	393.5	445.5	498.5	524.0	444.4	407.9	401.3	394.6
77.5°	1101.0	385.8	265.3	301.8	316.1	393.5	478.6	382.5	332.7	318.4	313.9
80°	461.0	239.9	189.0	213.3	194.6	330.5	422.3	297.4	244.3	224.4	210.0
82.5°	202.3	142.6	120.5	115.0	121.6	245.4	315.0	197.9	152.5	206.7	208.9
85°	85.1	75.2	61.9	56.4	49.7	94.0	148.1	77.4	95.1	54.2	44.2
87.5°	19.9	22.1	16.6	11.1	6.6	1.1	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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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

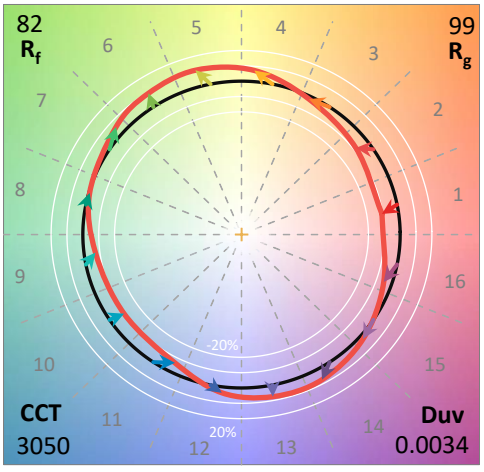
Test Information

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

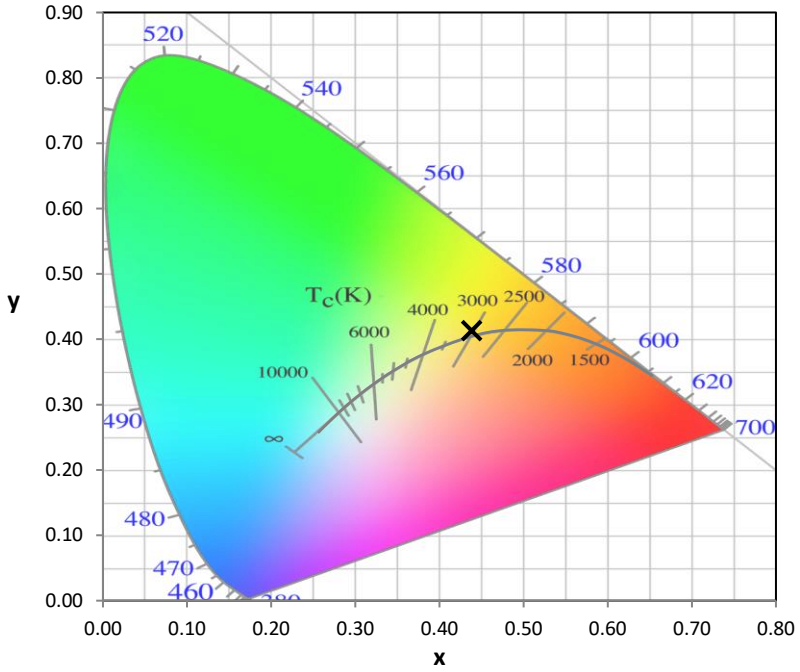
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

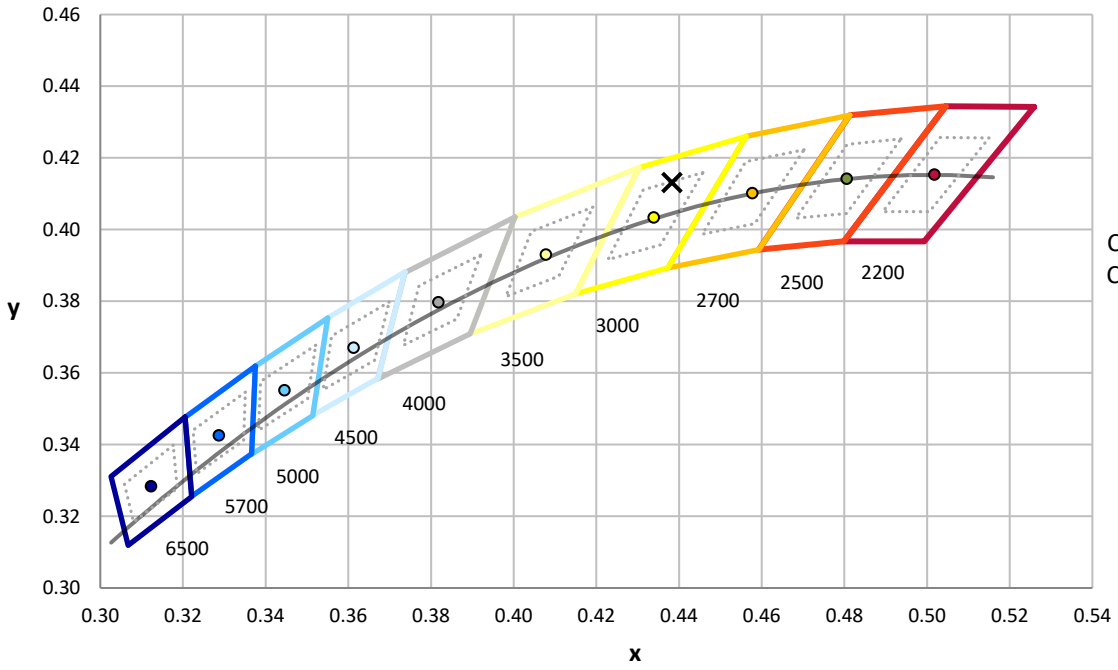
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

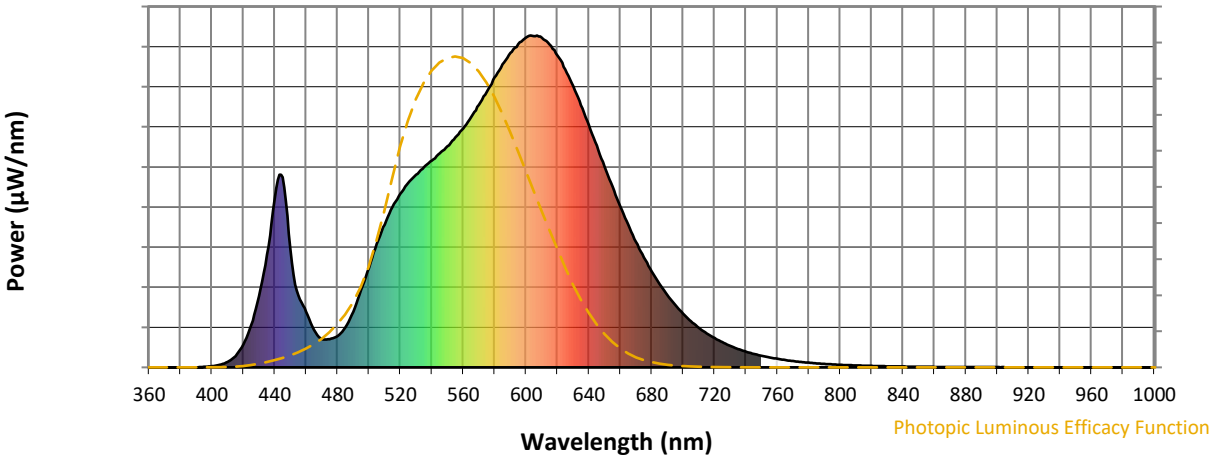


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

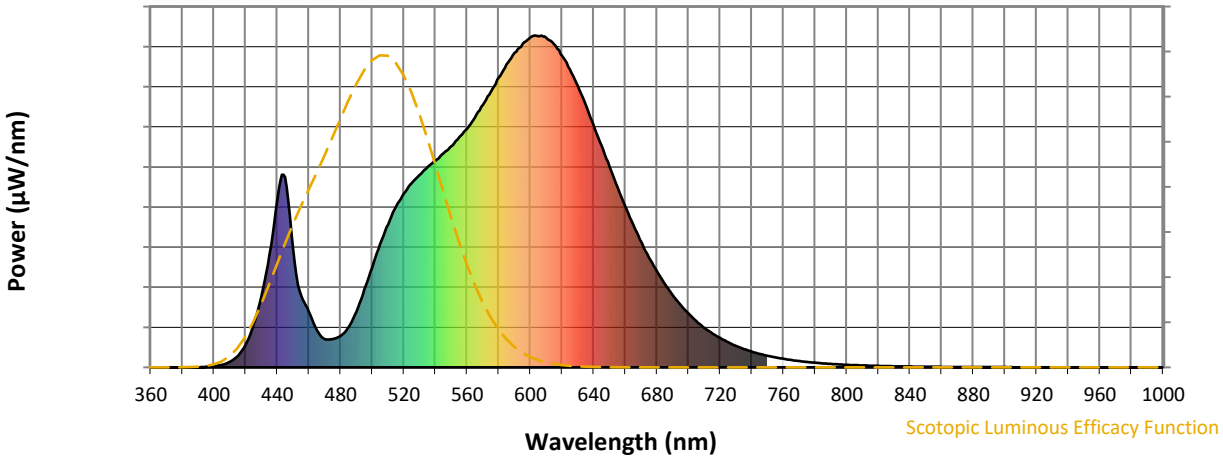


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

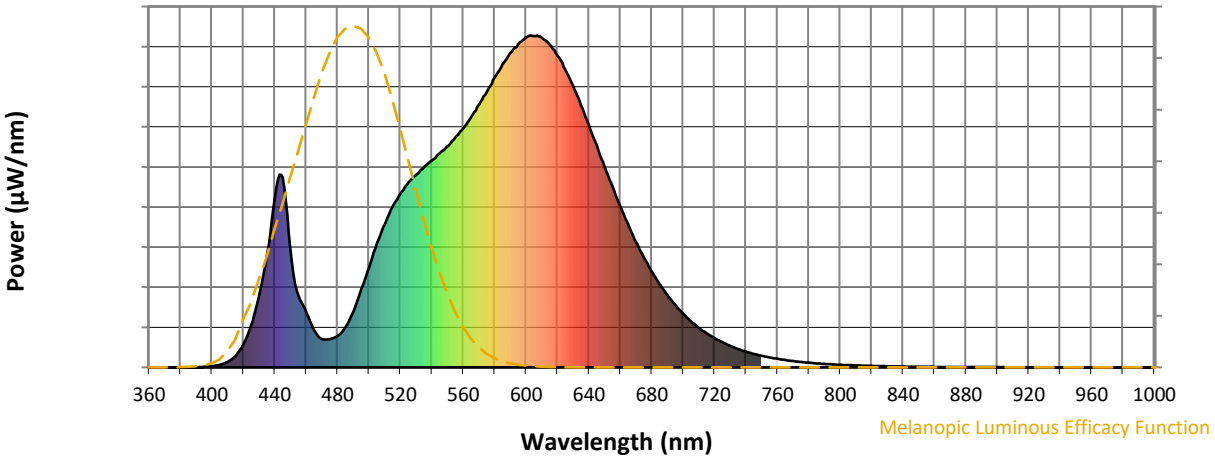


Scotopic Lumens: NR **S/P: 1.27**

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			

REPORT NUMBER: SP1-2408-195-9

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			

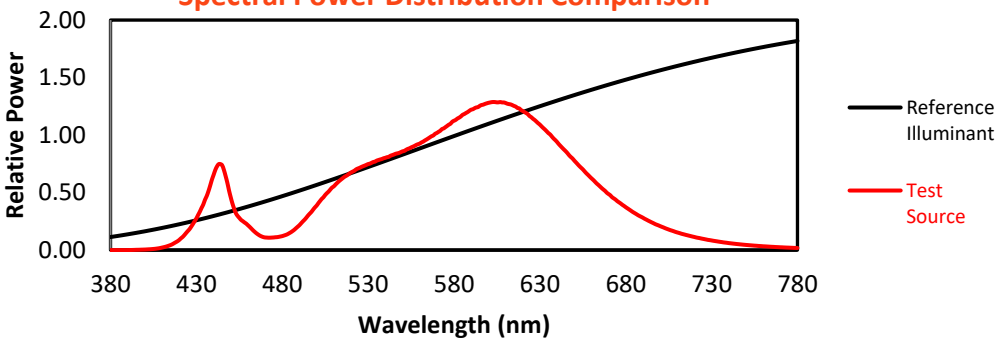
REPORT NUMBER: SP1-2408-195-9

TM-30-18

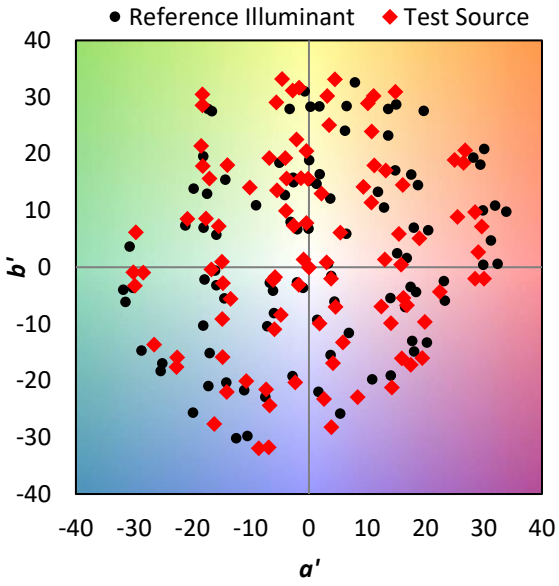
Summary

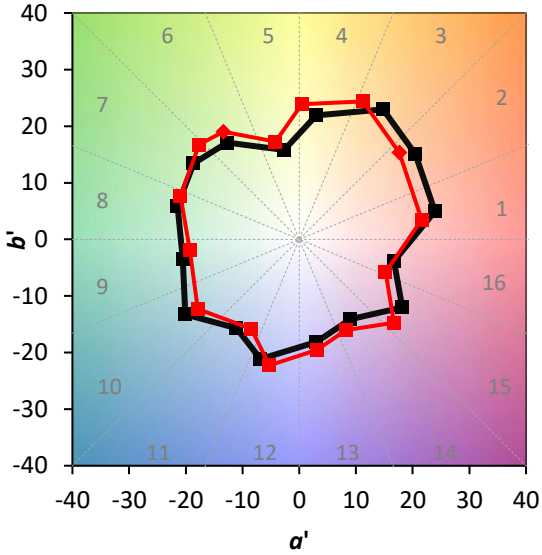
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

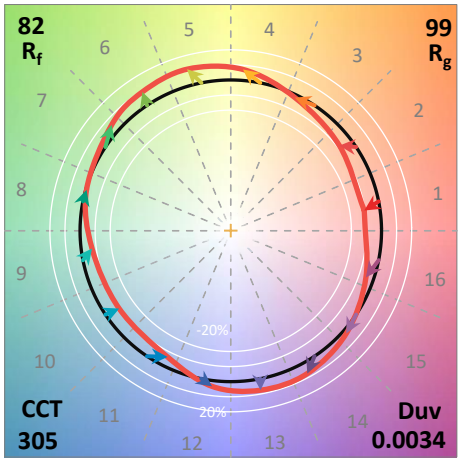
Spectral Power Distribution Comparison

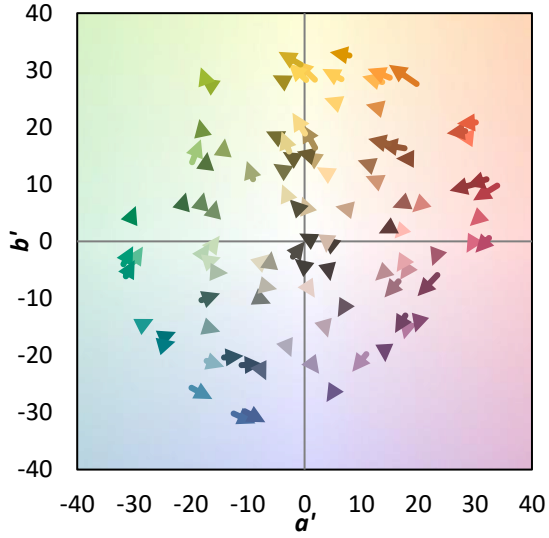


Color Vector Graphics







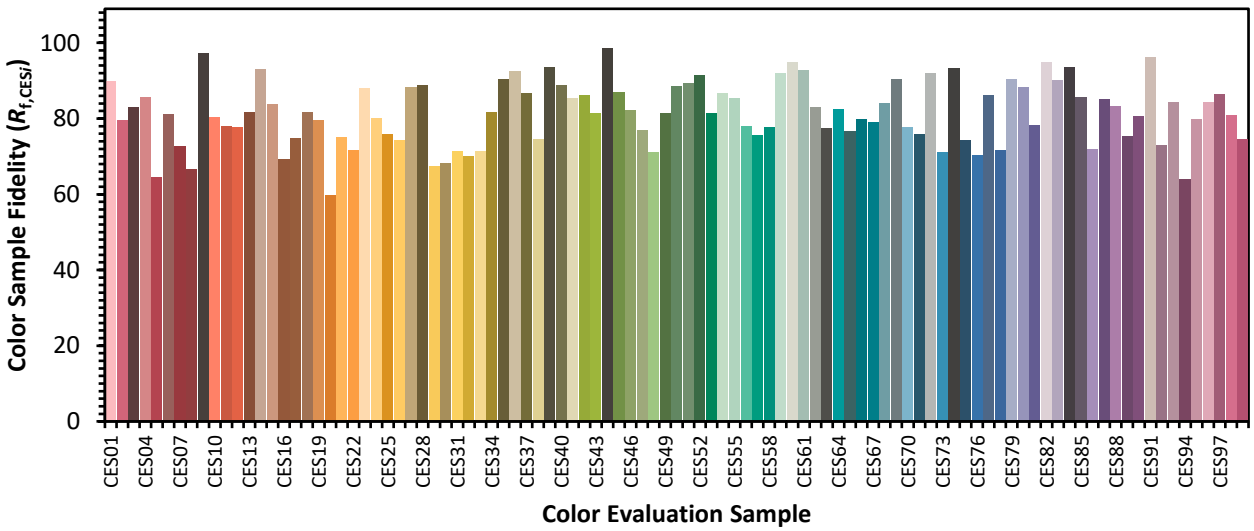


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

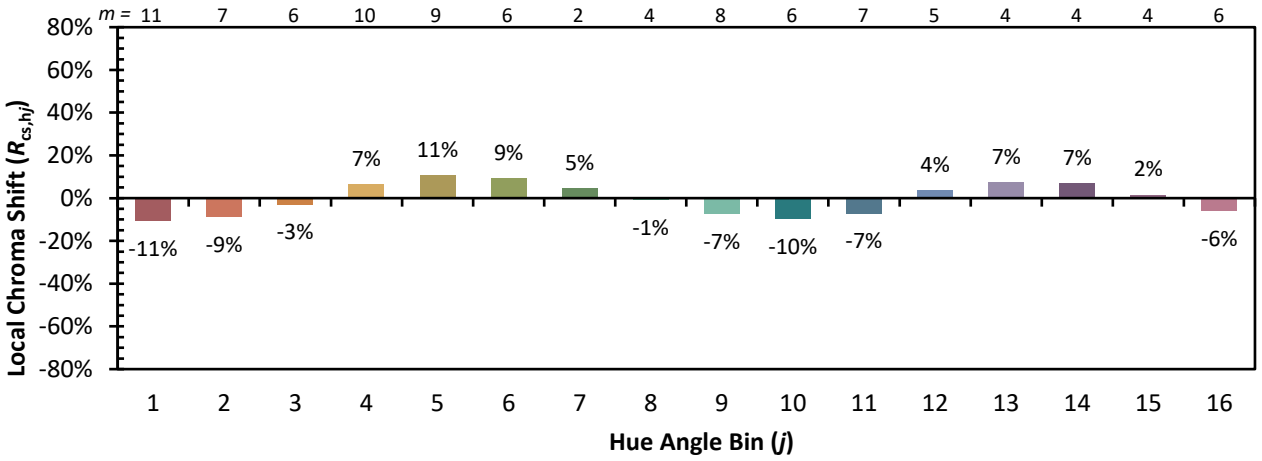
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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	

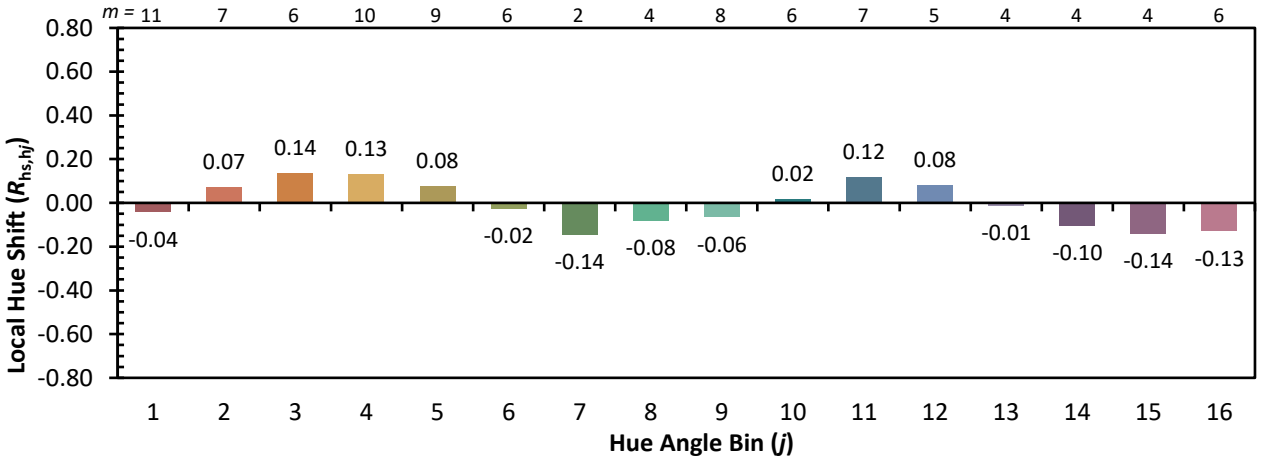


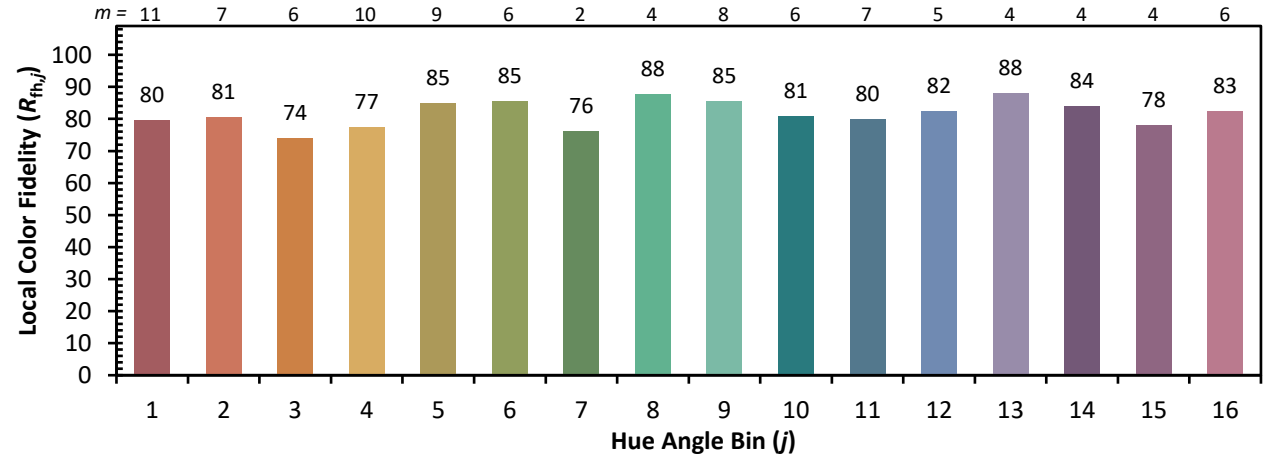
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



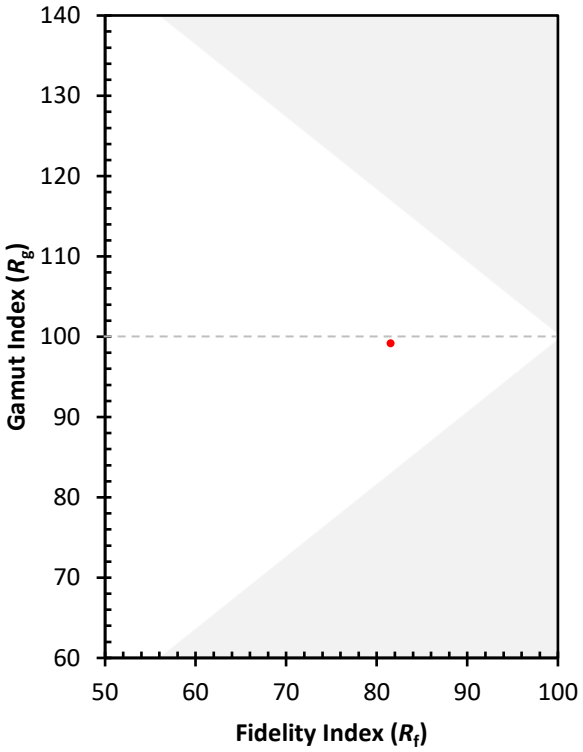


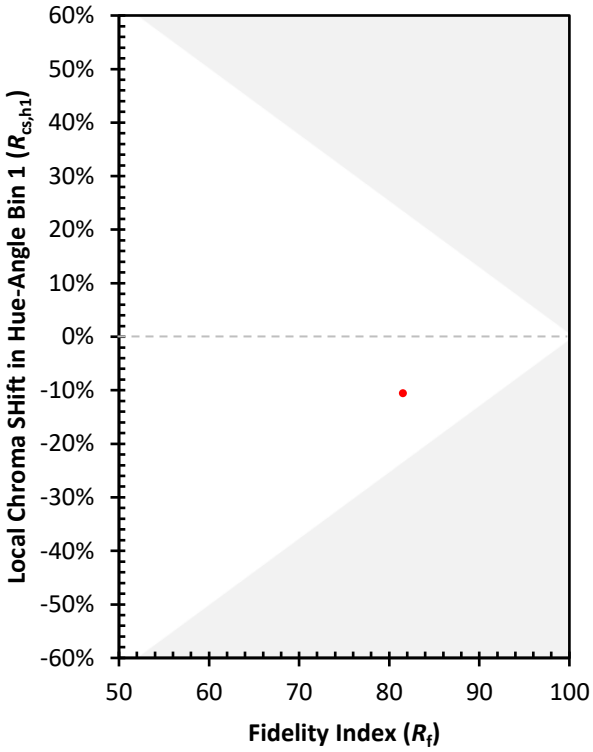


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)