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: P642949

Luminaire Tested: GWS-SA6D-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:	P642949
	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-SA6D-830-U-T2R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	22949.5 lumens
Efficiency:	N/A
Efficacy:	93.4 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G3

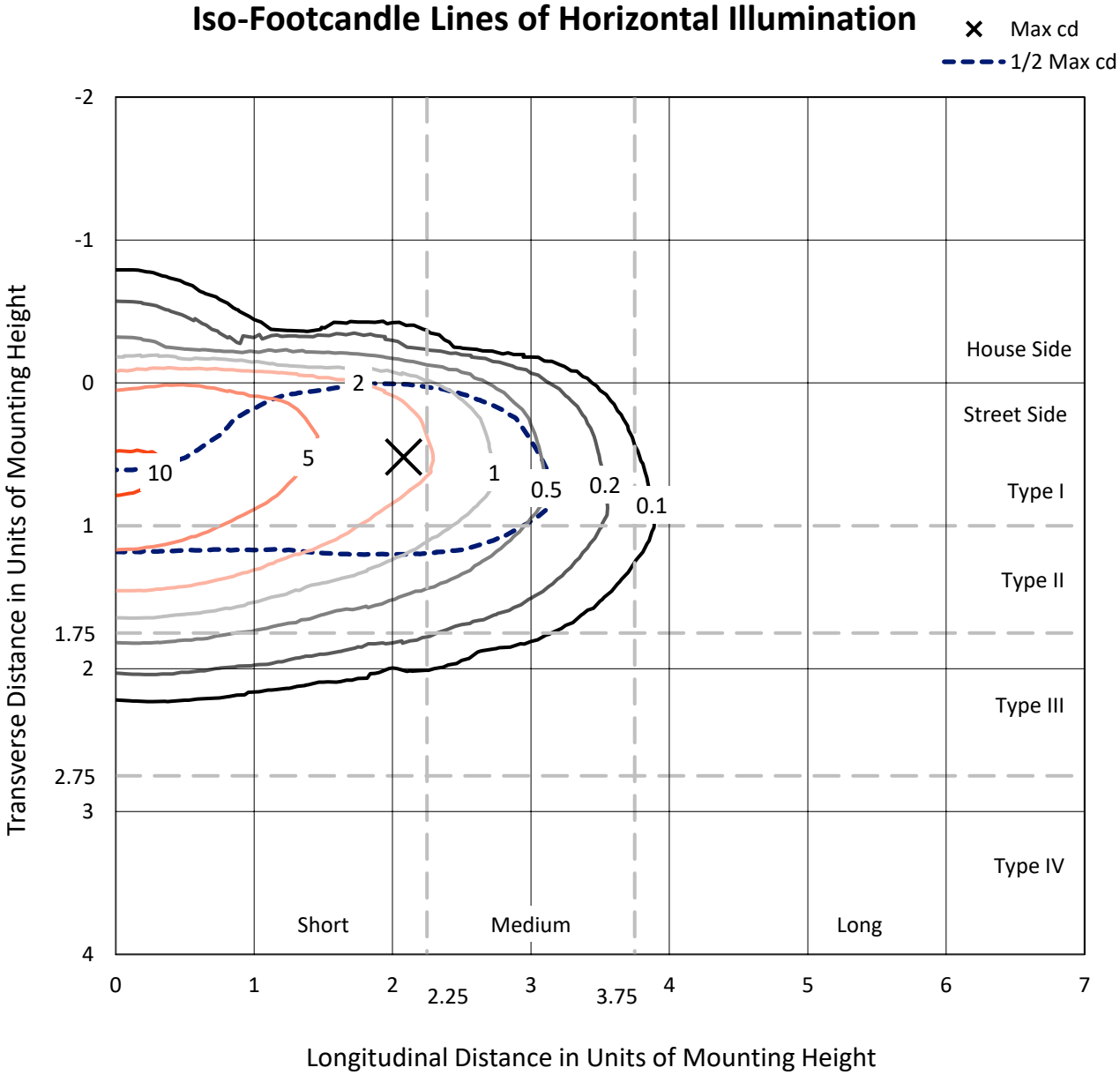
Input Watts (W):	245.7
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P642949
CATALOG NUMBER: GWS-SA6D-830-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



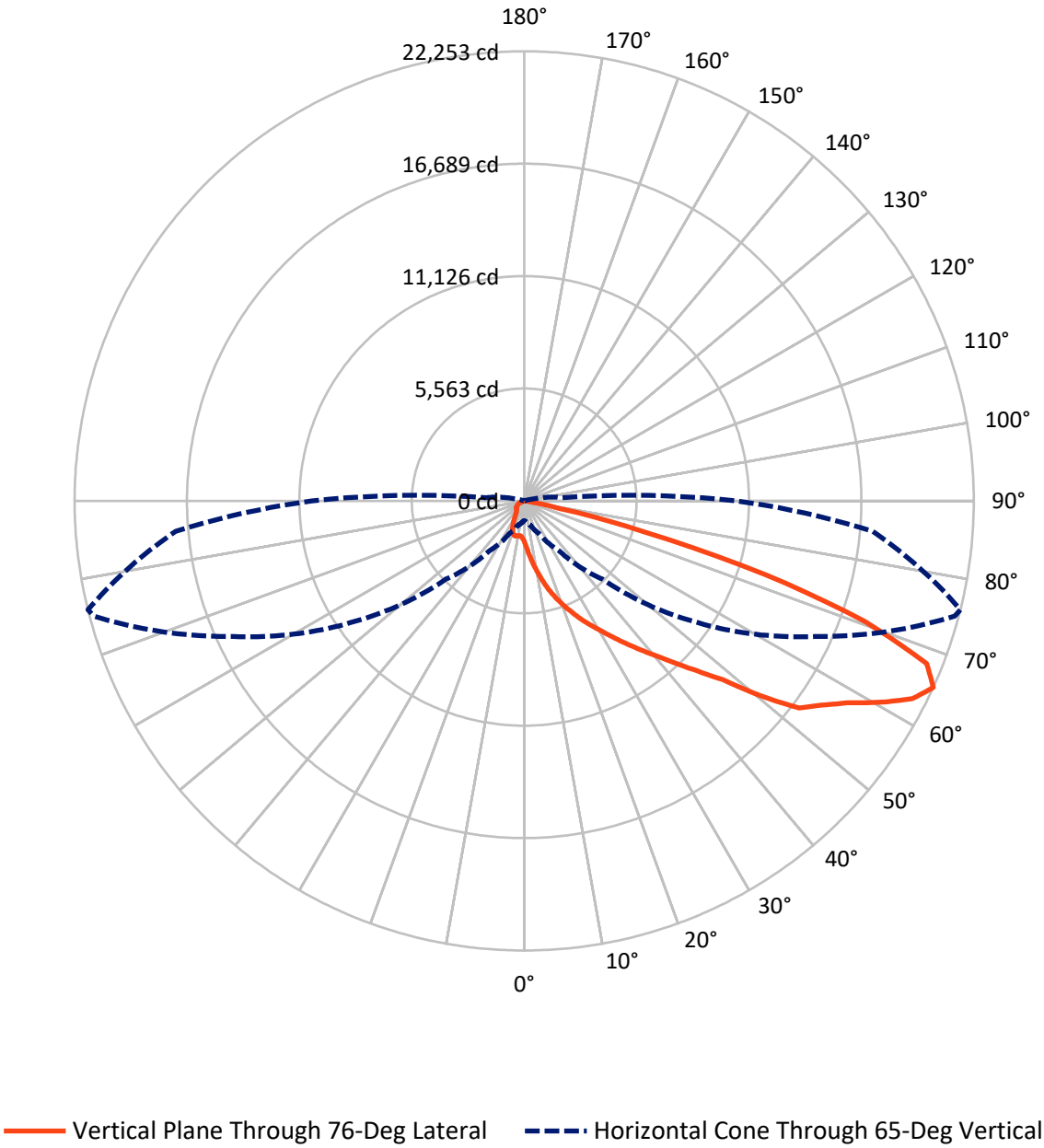
Based on 25 foot mounting height. Maximum calculated value = 11 fc
Type II - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P642949
CATALOG NUMBER: GWS-SA6D-830-U-T2R-W-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

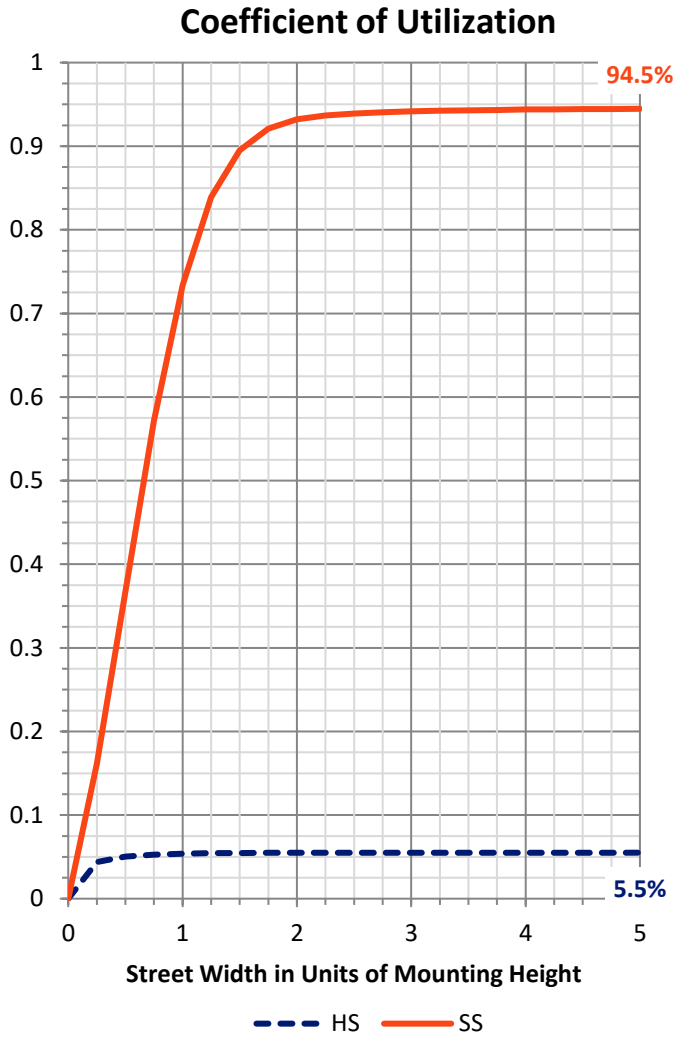
REPORT NUMBER: P642949
CATALOG NUMBER: GWS-SA6D-830-U-T2R-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1269.0	0.0	1269.0
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	21680.5	0.0	21680.5
	% Fixture	94.5	0.0	94.5
Total	Lumens	22949.5	0.0	22949.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.2	1.1
10°-20°	937.9	4.1
20°-30°	1913.5	8.3
30°-40°	3403.3	14.8
40°-50°	5030.9	21.9
50°-60°	5760.0	25.1
60°-70°	4394.6	19.1
70°-80°	1231.0	5.4
80°-90°	31.0	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°	22949.5	100.0
0°-180°	22949.5	100.0



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

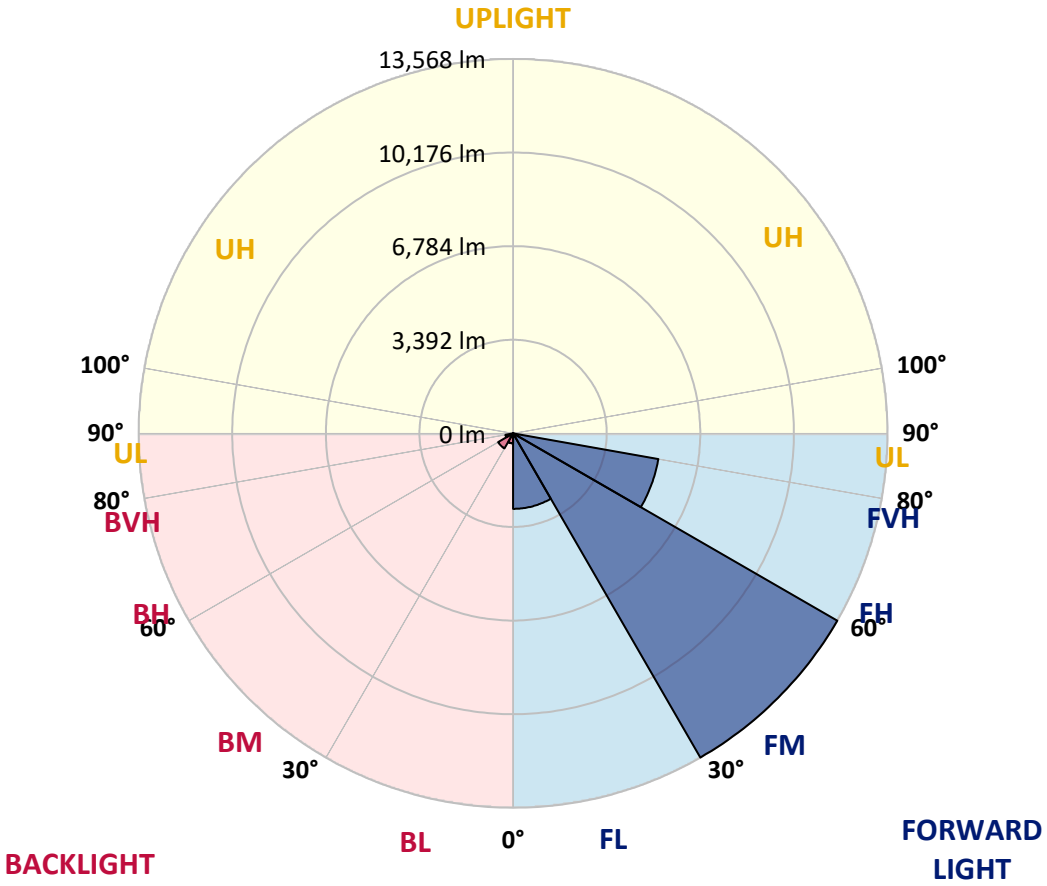
Scaled Data Report

REPORT NUMBER: P642949
CATALOG NUMBER: GWS-SA6D-830-U-T2R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2736.6	11.9			
FM	(30°-60°)	13568.1	59.1			
FH	(60°-80°)	5346.7	23.3			G3/7500
FVH	(80°-90°)	29.2	0.1			G1/100
BL	(0°-30°)	362.1	1.6	B1/500		
BM	(30°-60°)	626.1	2.7	B1/1000		
BH	(60°-80°)	279.0	1.2	B1/500		G1/500
BVH	(80°-90°)	1.8	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-G3
Type II Short



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

Scaled Data Report

REPORT NUMBER: P642949
CATALOG NUMBER: GWS-SA6D-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	*2031.9*	2031.9
2.5°	3131.4	3178.4	3141.6	3080.4	2962.1	2847.9	2701.0	2499.0	2337.9	*2317.5*	2166.5
5°	4229.0	4224.9	4145.3	4065.8	3941.3	3745.5	3449.7	3074.3	2713.2	*2682.6*	2344.0
7.5°	4881.8	4887.9	4843.0	4781.8	4659.4	4457.5	4149.4	3696.5	3168.2	*3107.0*	2586.8
10°	5430.6	5428.5	5395.9	5367.3	5257.2	5122.5	4792.0	4294.3	3657.8	*3561.9*	2858.1
12.5°	5842.6	5856.9	5873.2	5901.8	5854.9	5722.3	5410.2	4867.5	4153.5	*4047.4*	3168.2
15°	6169.0	6173.1	6234.3	6344.5	6383.2	6313.9	6030.3	5422.4	4643.1	*4551.3*	3525.2
17.5°	6267.0	6275.1	6379.2	6581.1	6785.1	6823.9	6609.7	5981.4	5124.6	*5026.6*	3872.0
20°	6473.0	6491.4	6568.9	6746.4	7003.4	7211.5	7127.9	6546.4	5606.0	*5477.5*	4226.9
22.5°	7121.7	7131.9	7105.4	7127.9	7260.5	7501.2	7552.2	7093.2	6099.7	*5963.0*	4610.5
25°	8237.6	8241.7	8056.1	7880.6	7780.7	7825.5	7937.7	7597.1	6589.3	*6454.6*	4967.5
27.5°	9396.4	9410.6	9188.3	8890.4	8533.4	8329.4	8296.8	8058.1	7083.0	*6934.1*	5320.4
30°	10487.8	10487.8	10253.2	9890.1	9412.7	9014.9	8780.3	8523.2	7611.3	*7448.1*	5681.5
32.5°	11469.0	11460.9	11161.0	10767.3	10296.0	9859.5	9365.8	9008.8	8198.9	*8017.3*	6097.6
35°	12278.9	12258.5	11917.8	11540.4	11036.6	10712.2	10161.4	9531.0	8835.4	*8653.8*	6526.0
37.5°	12890.9	12868.5	12556.4	12156.5	11689.4	11479.2	11018.2	10157.3	9506.5	*9341.3*	7001.4
40°	13223.5	13178.6	12962.3	12664.5	12272.8	12089.2	11897.4	10934.5	10296.0	*10090.0*	7562.4
42.5°	13321.4	13268.3	13125.5	12986.8	12750.2	12605.3	12811.4	11811.8	11163.0	*10985.6*	8203.0
45°	13031.7	13001.1	12988.9	13088.8	13131.7	13172.5	13680.4	12782.8	12119.8	*11985.2*	9008.8
47.5°	12334.0	12325.8	12434.0	12850.1	13303.0	13733.5	14625.0	13980.3	13360.1	*13215.3*	10134.9
50°	11044.7	11128.4	11430.3	12160.6	13066.4	14051.7	15508.3	15640.9	15367.5	*15155.4*	11603.7
52.5°	9029.2	9190.3	9867.6	10977.4	12278.9	13962.0	15916.3	16971.0	17250.5	*17030.2*	12656.3
55°	7085.0	7236.0	7839.8	9247.4	10983.5	13278.5	15934.7	17430.0	18040.0	*17836.0*	13368.3
57.5°	5277.6	5416.3	5965.0	7311.5	9220.9	11934.2	15498.1	17685.0	18976.3	*18845.8*	14492.4
60°	3449.7	3586.4	4082.1	5259.2	7152.3	9975.7	14423.0	17632.0	20251.4	*20239.1*	15873.5
62.5°	1913.5	2021.7	2380.7	3298.7	4991.9	7725.6	12733.9	17099.5	21485.6	*21563.1*	17011.8
65°	*979.2*	*1048.6*	*1266.9*	*1813.6*	*3021.3*	*5477.5*	*10512.3*	*15879.6*	*22056.8*	*22252.6*	*17311.7*
67.5°	640.6	663.0	716.0	942.5	1617.7	3445.6	7911.2	13923.2	21253.0	*21481.5*	16305.9
70°	520.2	538.6	569.2	628.3	834.4	1829.9	5196.0	11120.2	17758.4	*17913.5*	12984.8
72.5°	381.5	406.0	465.1	503.9	601.8	1003.7	2703.0	7299.2	12195.3	*12468.7*	8160.1
75°	281.5	295.8	344.8	397.8	491.6	634.4	1034.3	3837.3	6297.6	*6138.4*	3427.2
77.5°	169.3	179.5	220.3	255.0	350.9	395.8	361.1	1417.8	1915.6	*1801.3*	828.3
80°	83.6	93.8	144.8	191.8	224.4	159.1	151.0	395.8	426.4	*426.4*	208.1
82.5°	28.6	36.7	77.5	126.5	110.2	61.2	71.4	102.0	114.2	*120.4*	61.2
85°	0.0	0.0	18.4	36.7	16.3	8.2	18.4	22.4	28.6	*30.6*	20.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.1	*8.2*	8.2
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: P642949
CATALOG NUMBER: GWS-SA6D-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9	2031.9
2.5°	2084.9	1989.0	1844.2	1713.6	1613.7	1519.8	1448.4	1391.3	1381.1	1348.5	1352.5
5°	2178.7	2005.3	1738.1	1532.1	1387.2	1289.3	1207.7	1146.5	1120.0	1093.5	1073.1
7.5°	2323.6	2072.7	1697.3	1446.4	1277.1	1126.1	999.6	897.6	848.7	818.1	797.7
10°	2501.1	2166.5	1699.3	1395.4	1144.5	913.9	740.5	628.3	575.3	559.0	556.9
12.5°	2713.2	2284.8	1715.7	1311.7	952.7	679.3	548.8	497.8	481.4	467.2	467.2
15°	2937.6	2417.4	1715.7	1158.7	726.2	530.4	475.3	442.7	422.3	414.1	410.0
17.5°	3174.3	2541.9	1674.9	948.6	556.9	467.2	422.3	391.7	375.4	363.1	359.0
20°	3427.2	2660.2	1572.9	726.2	477.4	418.2	375.4	344.8	328.4	316.2	316.2
22.5°	3684.3	2770.4	1407.6	559.0	422.3	371.3	330.5	301.9	285.6	273.4	273.4
25°	3923.0	2843.8	1195.5	461.0	381.5	330.5	293.8	265.2	246.8	238.7	234.6
27.5°	4145.3	2890.7	960.9	406.0	342.7	295.8	257.0	230.5	216.2	210.1	206.0
30°	4375.9	2903.0	734.4	369.2	310.1	261.1	224.4	204.0	191.8	183.6	183.6
32.5°	4600.3	2888.7	561.0	338.6	281.5	230.5	199.9	181.6	171.4	165.2	163.2
35°	4828.7	2823.4	454.9	312.1	253.0	202.0	177.5	163.2	157.1	148.9	148.9
37.5°	5077.6	2735.7	395.8	285.6	224.4	181.6	159.1	148.9	140.8	134.6	132.6
40°	5387.7	2633.7	363.1	263.2	197.9	163.2	142.8	132.6	126.5	120.4	118.3
42.5°	5754.9	2533.7	346.8	238.7	177.5	144.8	128.5	116.3	110.2	102.0	100.0
45°	6275.1	2511.3	328.4	212.2	159.1	130.6	112.2	100.0	91.8	85.7	83.6
47.5°	7111.5	2574.5	297.8	183.6	140.8	114.2	95.9	85.7	75.5	69.4	65.3
50°	7941.8	2558.2	267.2	159.1	124.4	97.9	81.6	71.4	61.2	55.1	53.0
52.5°	8394.7	2480.7	238.7	140.8	108.1	83.6	69.4	57.1	51.0	44.9	42.8
55°	8804.8	2450.1	210.1	122.4	91.8	73.4	57.1	46.9	42.8	36.7	34.7
57.5°	9608.5	2521.5	185.6	106.1	79.6	63.2	49.0	38.8	34.7	28.6	26.5
60°	10449.0	2529.6	159.1	91.8	69.4	53.0	38.8	30.6	26.5	20.4	18.4
62.5°	10887.6	2323.6	130.6	77.5	57.1	44.9	32.6	24.5	20.4	12.2	12.2
65°	*10520.4*	*1878.9*	*110.2*	*63.2*	*44.9*	*34.7*	*24.5*	*18.4*	*12.2*	*6.1*	*2.0*
67.5°	9310.7	1336.2	91.8	51.0	32.6	24.5	18.4	12.2	2.0	0.0	0.0
70°	6817.8	763.0	71.4	36.7	24.5	16.3	12.2	6.1	0.0	0.0	0.0
72.5°	4190.2	408.0	53.0	24.5	18.4	12.2	10.2	4.1	0.0	0.0	0.0
75°	1589.2	195.8	32.6	16.3	14.3	10.2	6.1	2.0	0.0	0.0	0.0
77.5°	430.4	95.9	18.4	12.2	10.2	6.1	4.1	0.0	0.0	0.0	0.0
80°	112.2	44.9	12.2	8.2	6.1	4.1	0.0	0.0	0.0	0.0	0.0
82.5°	38.8	20.4	6.1	6.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0
85°	16.3	8.2	4.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	2.0	2.0	2.0	2.0	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

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

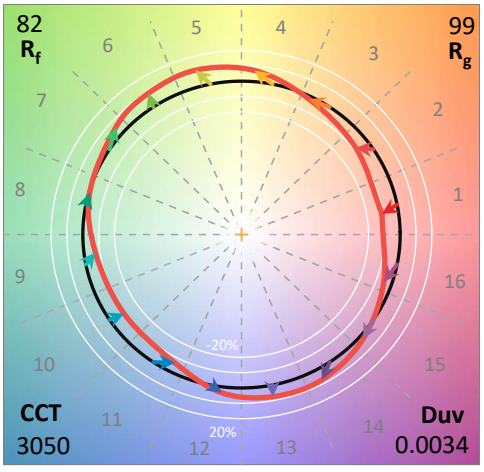
Test Information

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

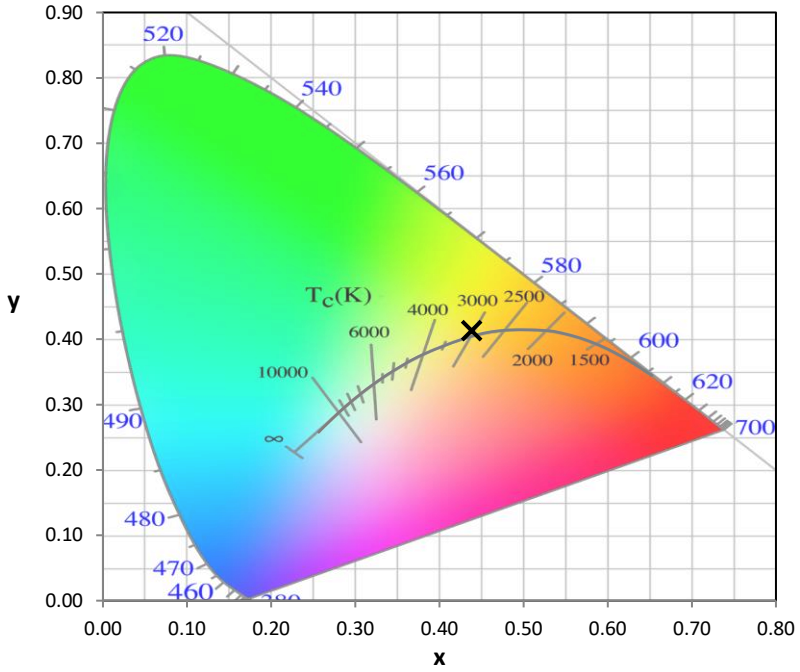
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

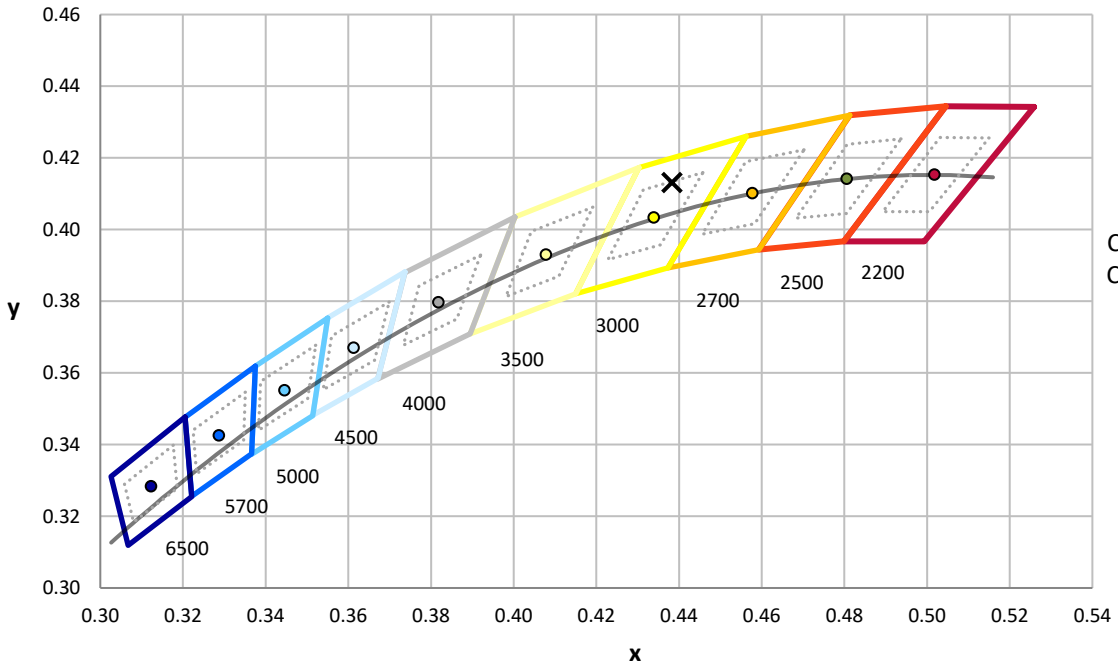
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

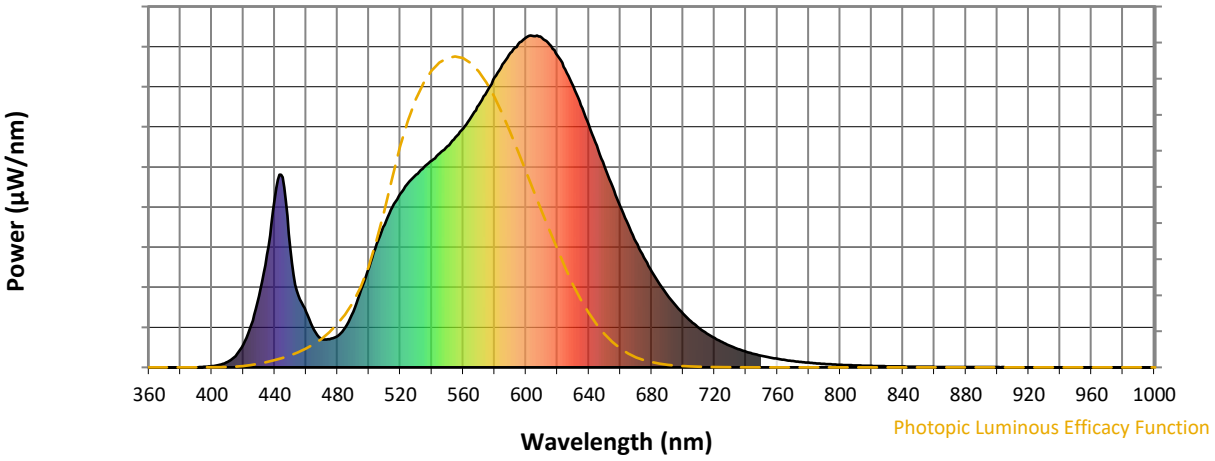


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

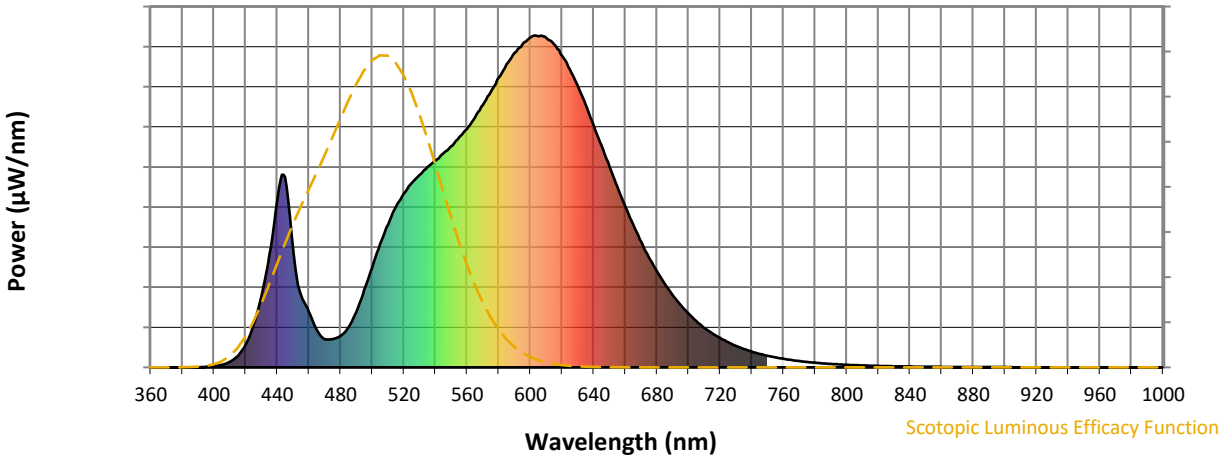


Photopic Lumens: NR

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

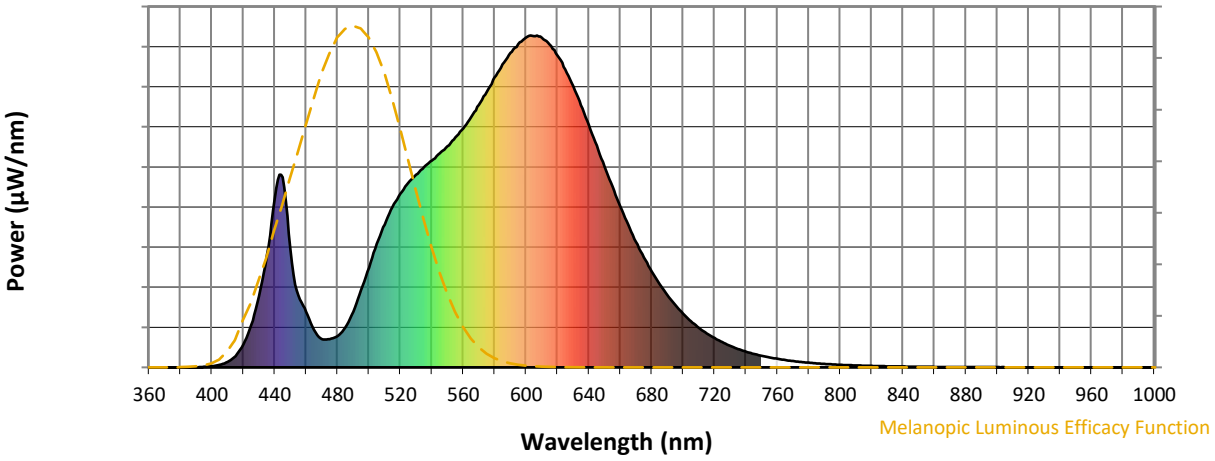


Scotopic Lumens: NR **S/P: 1.27**

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			

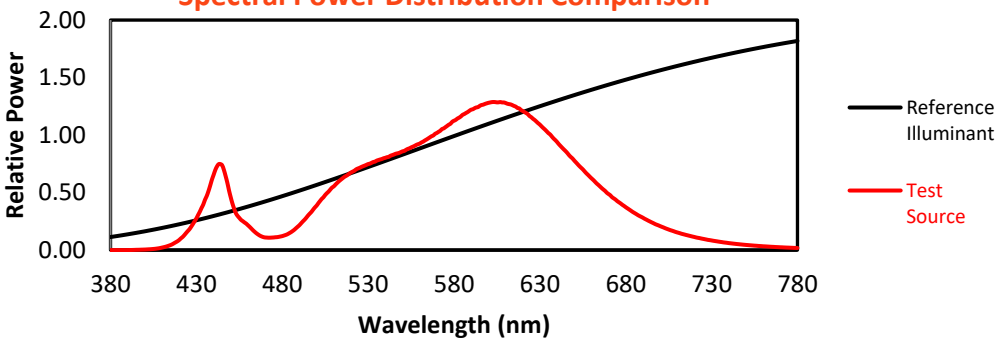
REPORT NUMBER: SP1-2408-195-9

TM-30-18

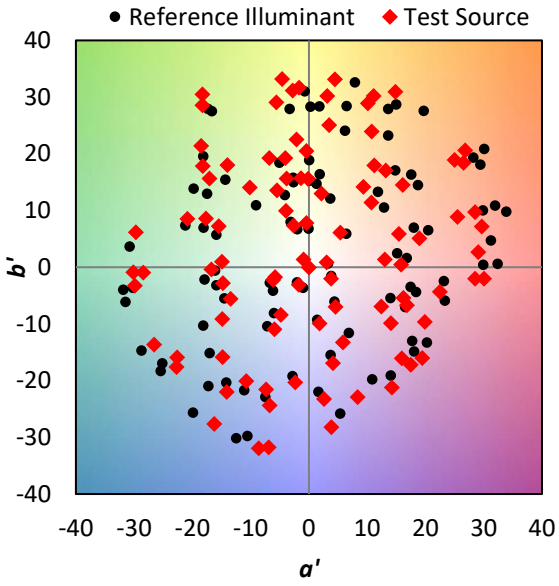
Summary

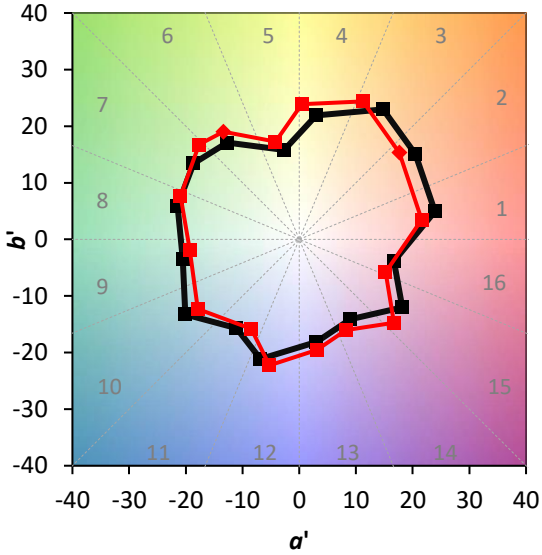
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

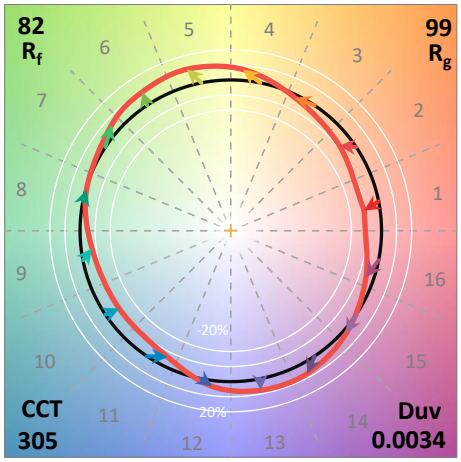
Spectral Power Distribution Comparison

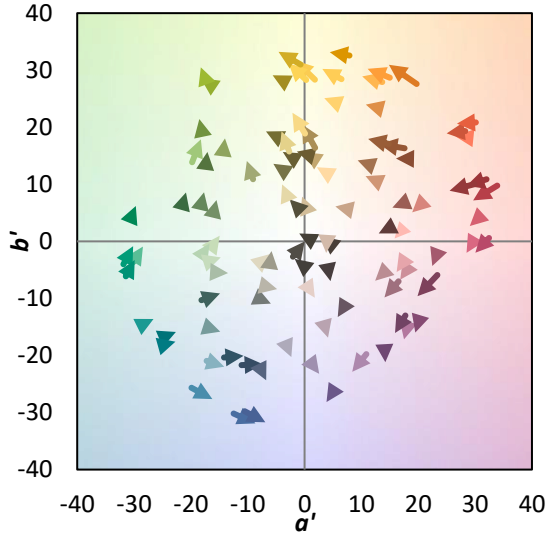


Color Vector Graphics







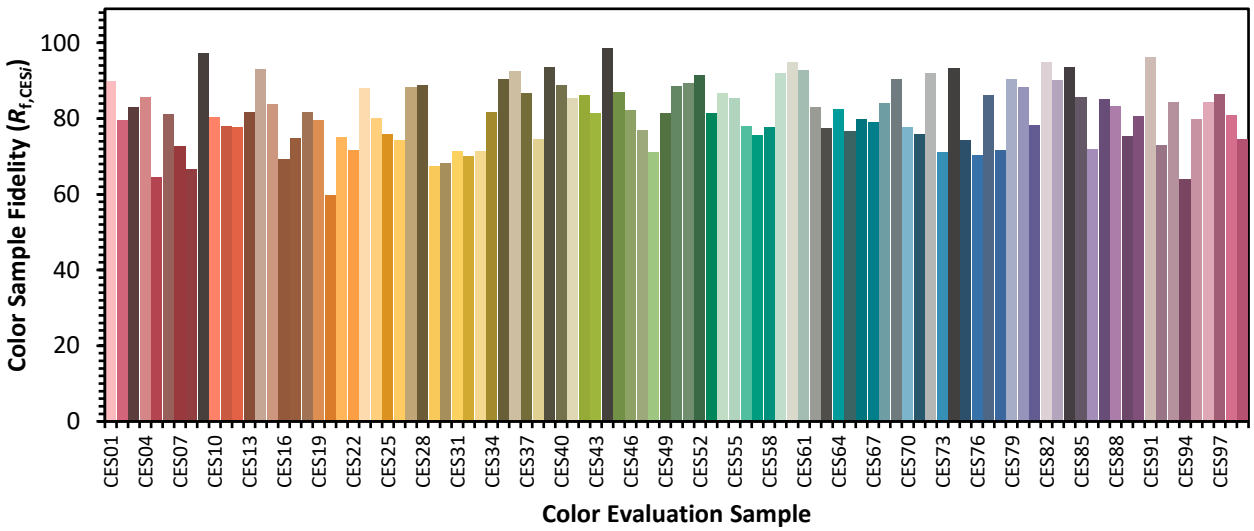


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

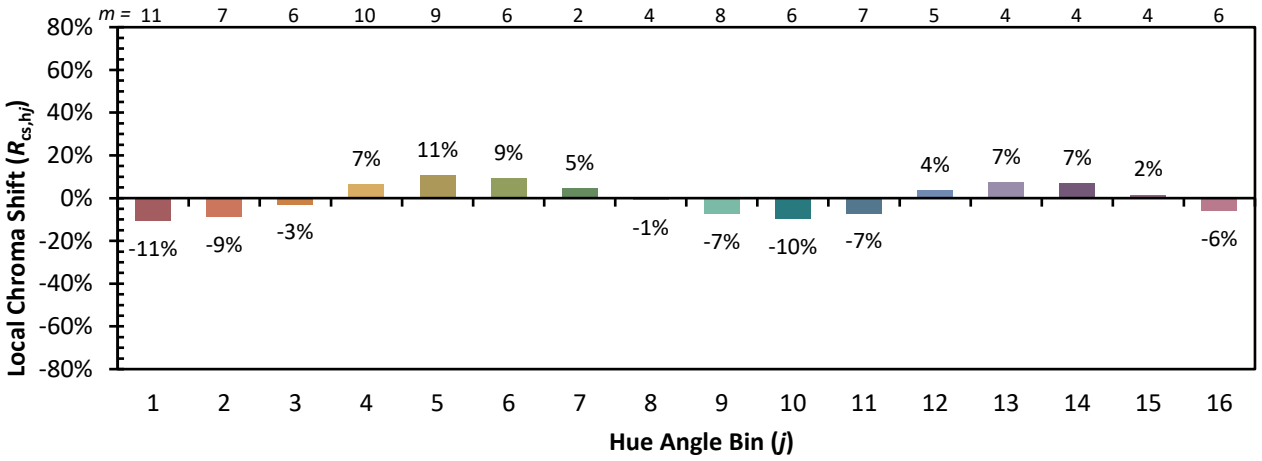
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

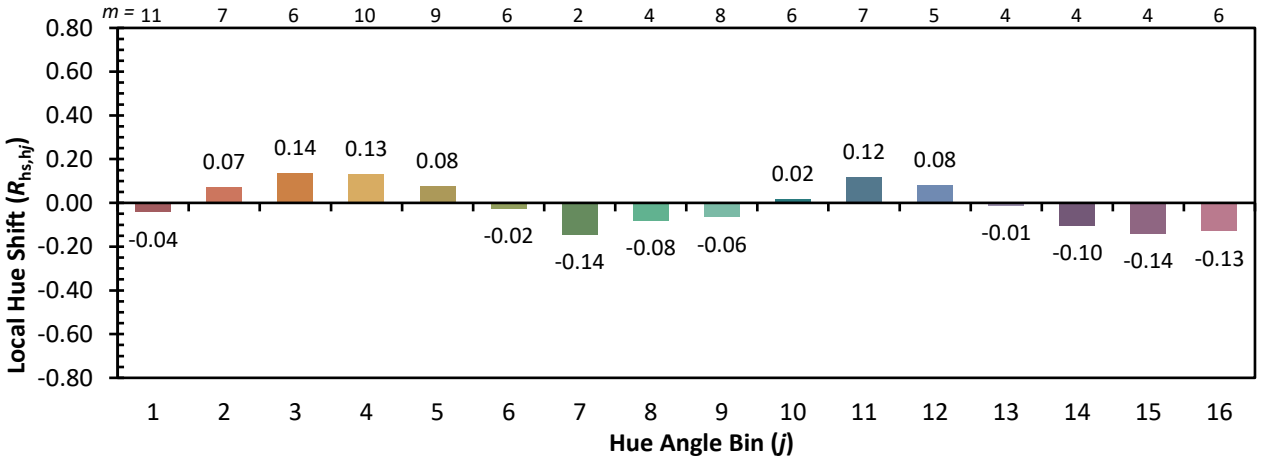


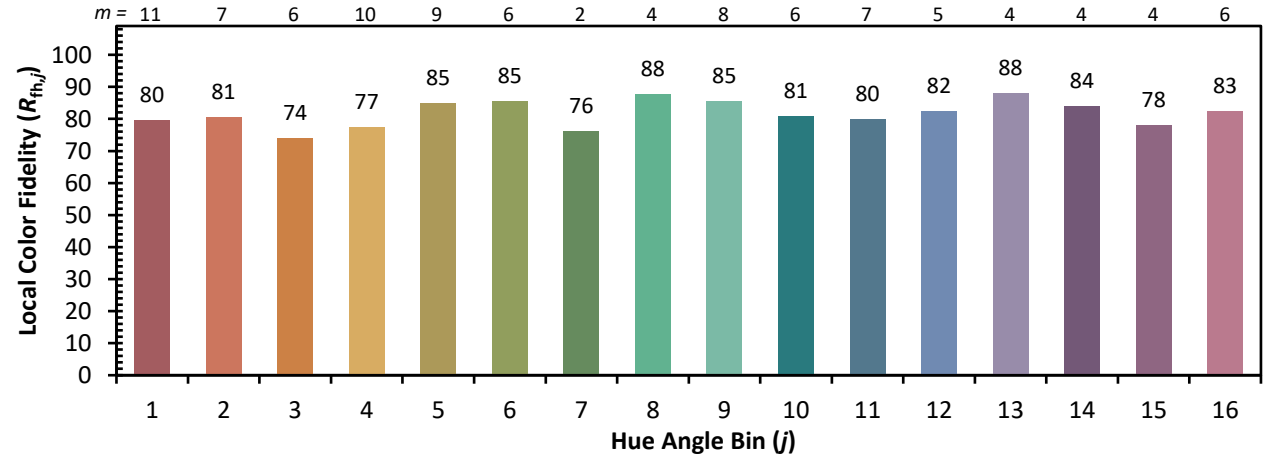
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



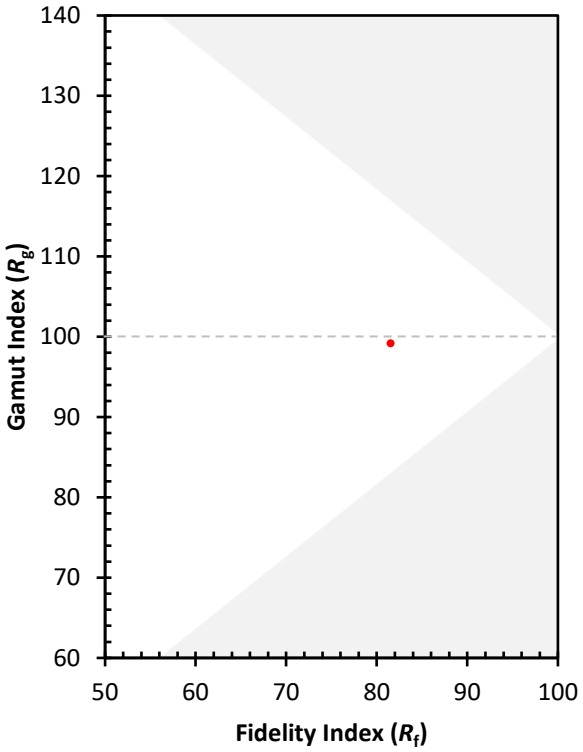


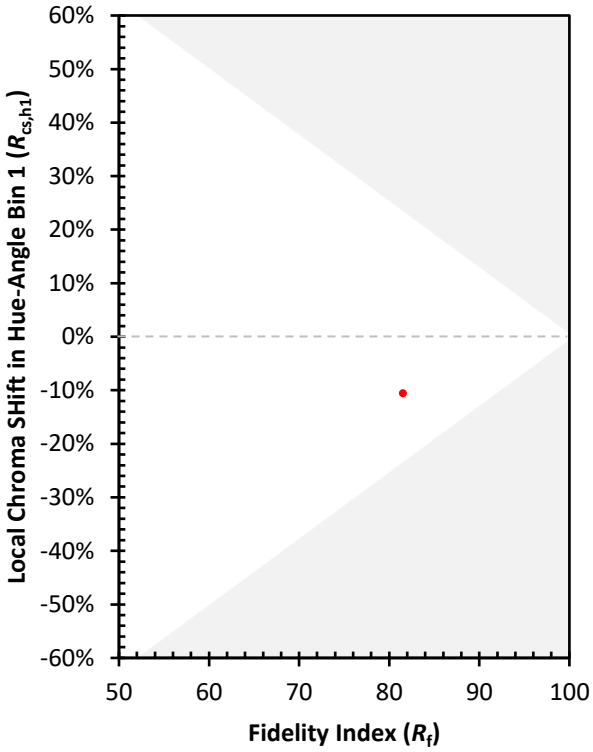


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)