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: P643425

Luminaire Tested: GWS-SA6E-830-U-SL3-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:	P643425
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6E-830-U-SL3-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	28801.2 lumens
Efficiency:	N/A
Efficacy:	88.9 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G4

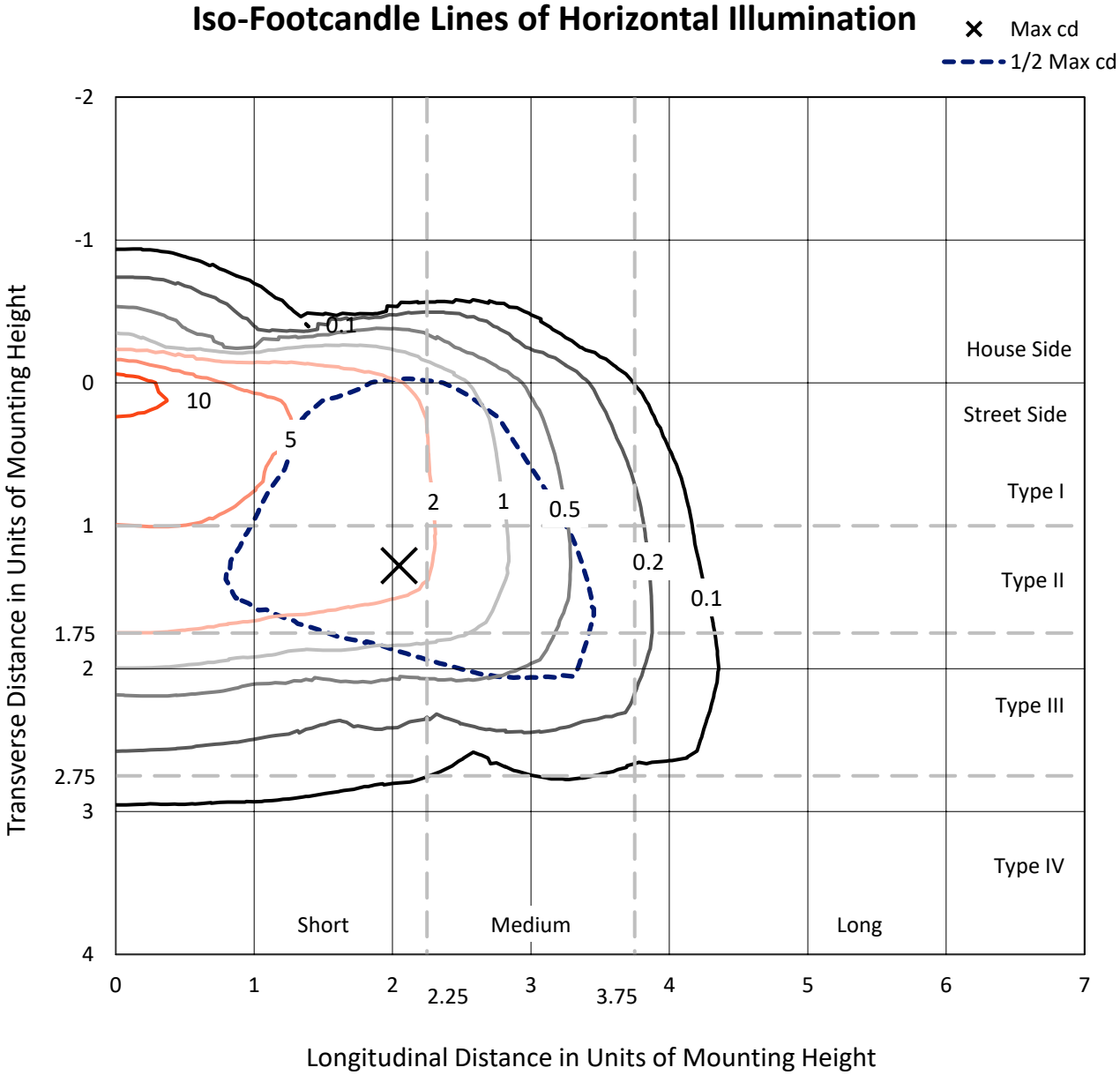
Input Watts (W):	323.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P643425
CATALOG NUMBER: GWS-SA6E-830-U-SL3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



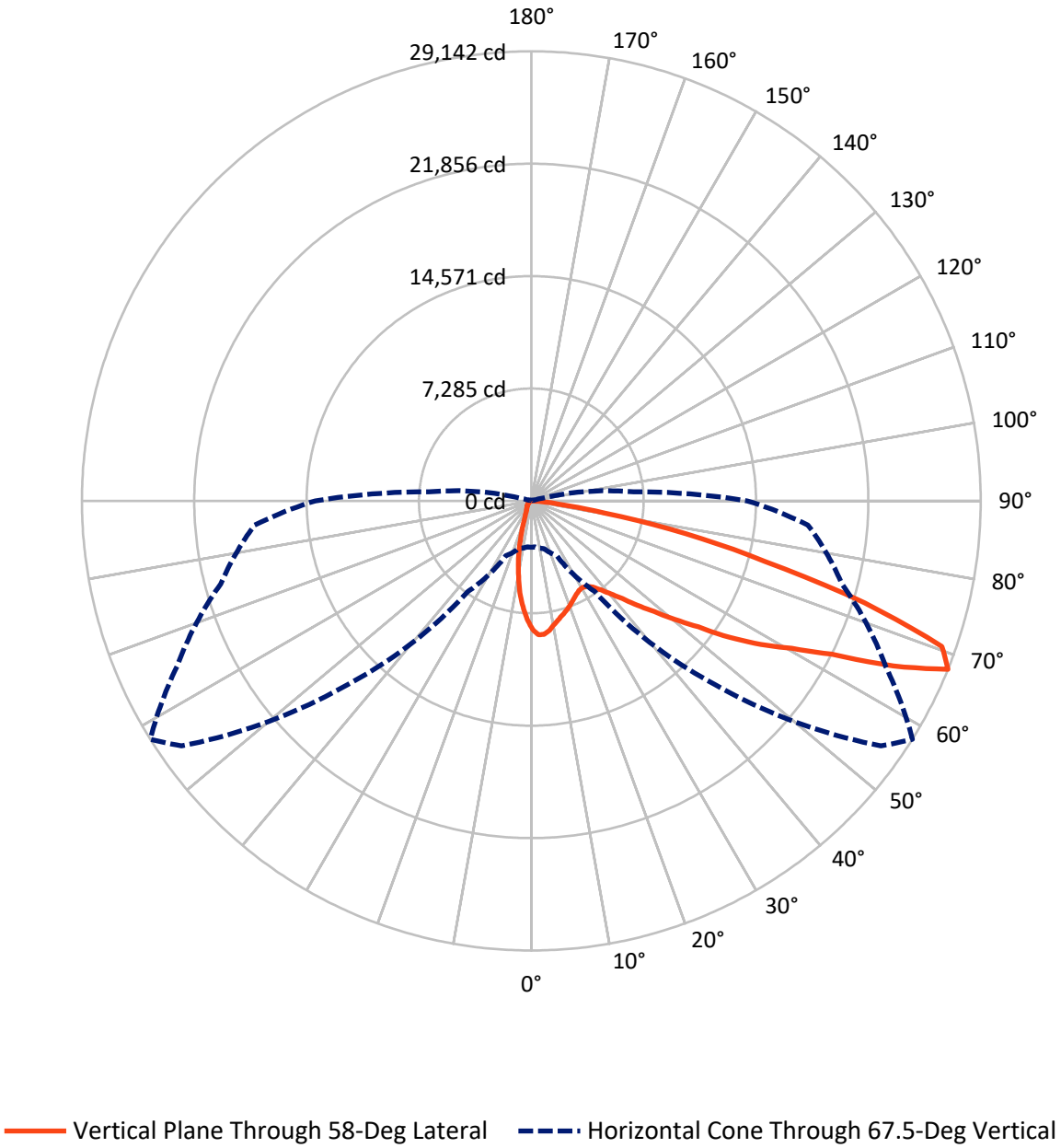
Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P643425
CATALOG NUMBER: GWS-SA6E-830-U-SL3-W-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

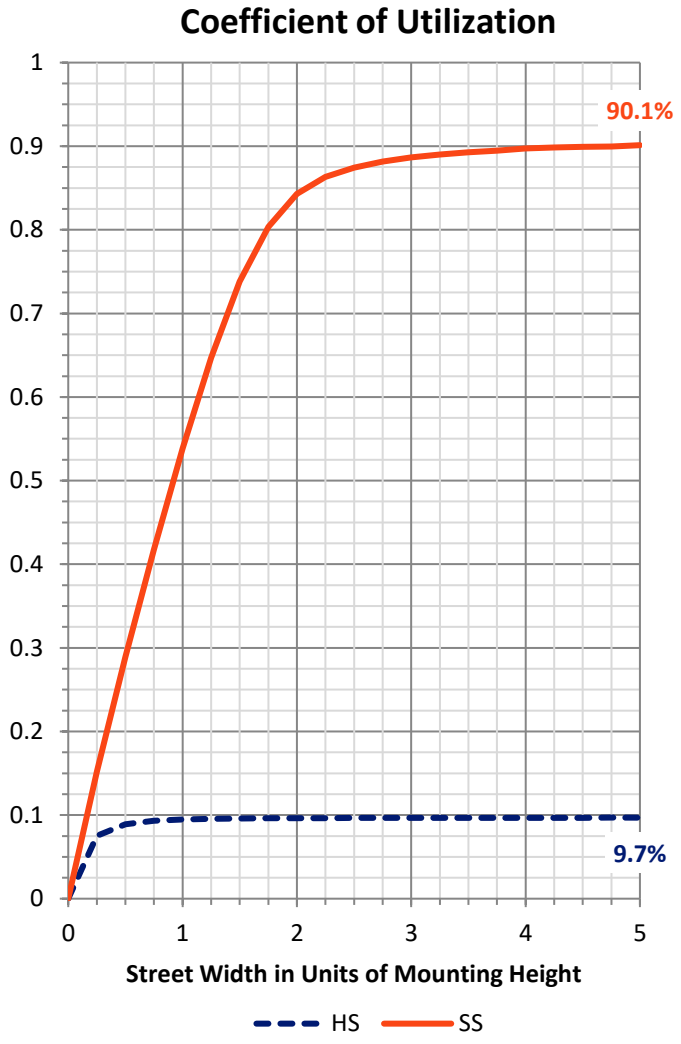
REPORT NUMBER: P643425
CATALOG NUMBER: GWS-SA6E-830-U-SL3-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2813.7	0.0	2813.7
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	25987.5	0.0	25987.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	28801.2	0.0	28801.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.1	2.3
10°-20°	1405.3	4.9
20°-30°	1895.1	6.6
30°-40°	2663.0	9.2
40°-50°	4112.7	14.3
50°-60°	6576.8	22.8
60°-70°	7787.4	27.0
70°-80°	3445.0	12.0
80°-90°	240.8	0.8
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°	28801.2	100.0
0°-180°	28801.2	100.0



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

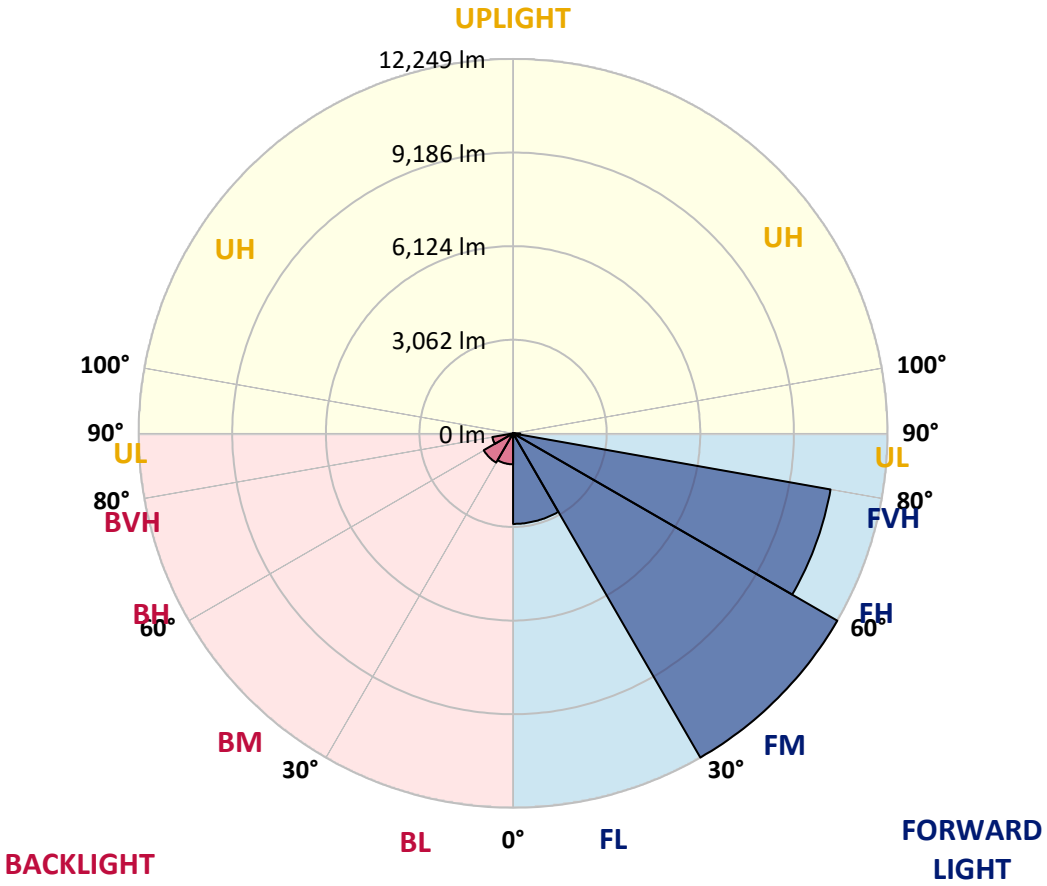
Scaled Data Report

REPORT NUMBER: P643425
CATALOG NUMBER: GWS-SA6E-830-U-SL3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2962.9	10.3			
FM	(30°-60°)	12248.6	42.5			
FH	(60°-80°)	10545.5	36.6			G4/12000
FVH	(80°-90°)	230.6	0.8			G3/500
BL	(0°-30°)	1012.5	3.5	B3/2500		
BM	(30°-60°)	1104.0	3.8	B2/2500		
BH	(60°-80°)	686.9	2.4	B2/1000		G2/1000
BVH	(80°-90°)	10.2	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
Type III Short



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

Scaled Data Report

REPORT NUMBER: P643425
CATALOG NUMBER: GWS-SA6E-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6	*8307.6*	8307.6	8307.6	8307.6
2.5°	8738.4	8753.7	8774.1	8799.6	8794.5	8771.6	8743.5	*8679.8*	8639.0	8511.5	8356.1
5°	8458.0	8455.5	8506.5	8554.9	8641.6	8687.4	8751.2	*8692.5*	8672.1	8519.2	8266.8
7.5°	7910.0	7938.0	7996.6	8073.1	8198.0	8333.1	8486.1	*8468.2*	8529.4	8427.4	8113.9
10°	7372.1	7356.8	7448.6	7563.3	7754.5	7927.8	8149.6	*8147.0*	8307.6	8297.4	7940.5
12.5°	6900.5	6897.9	6969.3	7099.3	7323.7	7565.8	7866.6	*7874.3*	8073.1	8154.7	7792.7
15°	6502.8	6507.9	6576.8	6711.9	6943.8	7239.5	7588.8	*7652.5*	7876.8	8042.5	7647.4
17.5°	6219.9	6222.4	6263.2	6380.5	6607.3	6923.4	7344.0	*7430.7*	7718.8	7958.4	7530.1
20°	6089.9	6079.7	6087.3	6146.0	6321.8	6609.9	7094.2	*7206.4*	7573.5	7899.8	7423.1
22.5°	6107.7	6092.4	6056.7	6049.1	6128.1	6347.3	6829.1	*6966.8*	7415.4	7864.1	7326.2
25°	6265.8	6232.6	6181.6	6105.2	6074.6	6184.2	6597.2	*6739.9*	7267.6	7866.6	7252.3
27.5°	6507.9	6472.2	6408.5	6306.6	6186.7	6140.9	6439.1	*6574.2*	7163.1	7925.2	7216.6
30°	6816.4	6788.3	6727.2	6604.8	6444.2	6255.6	6406.0	*6518.1*	7112.1	8045.1	7231.9
32.5°	7180.9	7160.5	7109.5	6997.4	6813.8	6525.8	6518.1	*6604.8*	7152.9	8218.4	7290.5
35°	7532.7	7540.3	7542.9	7481.7	7285.4	6936.2	6826.6	*6857.2*	7321.1	8478.4	7423.1
37.5°	7912.5	7894.7	7986.4	8029.8	7841.1	7469.0	7303.3	*7305.8*	7642.3	8863.3	7672.9
40°	8200.6	8205.7	8404.5	8582.9	8503.9	8144.5	7907.4	*7904.9*	8136.8	9391.0	8075.6
42.5°	8470.8	8503.9	8797.1	9102.9	9212.6	8893.9	8723.1	*8659.4*	8830.2	10104.8	8679.8
45°	8758.8	8807.2	9217.7	9653.6	9941.6	9753.0	9617.9	*9643.4*	9663.8	10935.8	9493.0
47.5°	9095.3	9125.9	9633.2	10247.5	10785.4	10736.9	10744.6	*10714.0*	10703.8	11983.5	10568.7
50°	9503.2	9574.5	10158.3	10892.4	11626.6	11947.8	12054.8	*12067.6*	11901.9	13125.5	11682.7
52.5°	10369.9	10456.5	10956.2	11598.5	12544.3	13219.8	13655.7	*13569.0*	13314.1	14231.8	12903.7
55°	11392.1	11458.3	11940.1	12605.5	13665.9	14614.2	15649.1	*15613.4*	14988.9	15396.8	13908.1
57.5°	11488.9	11562.9	12309.8	13329.4	15106.2	16337.4	17425.9	*17540.6*	16625.4	16222.7	14805.4
60°	10400.5	10550.9	11570.5	12941.9	15656.8	18654.5	19373.4	*19396.3*	17826.1	17061.3	15901.5
62.5°	8335.7	8407.0	9434.3	11223.8	14807.9	20005.6	22348.2	*21863.9*	19368.3	18358.8	17637.4
65°	4369.2	4659.8	5554.6	7535.2	12009.0	19534.0	25927.2	*25794.7*	22141.8	20217.2	18988.5
67.5°	*2997.8*	*2995.2*	*3206.8*	*3928.2*	*7160.5*	*16819.2*	*27683.6*	*29141.7*	*25348.6*	*20854.4*	*18009.6*
70°	2281.5	2289.1	2477.8	2946.8	3709.0	11195.8	25756.4	*28249.5*	25945.1	18934.9	14565.7
72.5°	1514.2	1529.5	1843.0	2380.9	2962.1	5488.3	20015.8	*22603.1*	21830.8	15208.1	10252.6
75°	904.9	917.7	1142.0	1730.9	2633.3	3071.7	12717.6	*15626.2*	15027.1	10482.0	5495.9
77.5°	372.2	382.4	586.3	1078.3	1927.1	2386.0	7033.1	*10224.6*	9001.0	4167.8	1501.4
80°	155.5	160.6	283.0	754.5	1389.3	1496.3	3257.8	*4805.1*	3688.6	897.3	458.8
82.5°	56.1	58.6	104.5	415.5	864.2	1126.7	1644.2	*1899.1*	1040.0	293.2	247.3
85°	2.5	2.5	25.5	140.2	328.8	318.6	940.6	*910.0*	344.1	122.4	147.8
87.5°	0.0	0.0	2.5	2.5	5.1	12.7	89.2	*158.0*	73.9	30.6	63.7
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: P643425
CATALOG NUMBER: GWS-SA6E-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6
2.5°	8254.1	8119.0	7971.1	7833.5	7614.3	7484.2	7323.7	7252.3	7150.3	7124.8	7140.1
5°	8085.8	7853.9	7499.5	7178.4	6762.8	6428.9	6092.4	5949.7	5766.1	5643.8	5592.8
7.5°	7848.8	7545.4	6992.3	6408.5	5837.5	5228.3	4764.3	4458.4	4180.6	4027.6	3997.0
10°	7609.2	7214.0	6421.3	5585.1	4700.6	3971.5	3344.5	2880.5	2503.2	2332.5	2199.9
12.5°	7361.9	6869.9	5840.1	4749.0	3721.7	2727.6	1952.6	1501.4	1231.2	1124.2	1142.0
15°	7135.0	6538.5	5264.0	3912.9	2620.5	1646.7	1078.3	910.0	846.3	825.9	823.4
17.5°	6918.3	6225.0	4690.4	3099.7	1728.3	1009.5	825.9	785.1	767.3	757.1	757.1
20°	6722.1	5924.2	4129.6	2335.0	1116.5	800.4	746.9	726.5	711.2	703.6	703.6
22.5°	6538.5	5633.6	3581.5	1651.8	823.4	718.9	685.7	665.3	647.5	637.3	637.3
25°	6372.8	5371.0	3059.0	1136.9	708.7	657.7	622.0	599.0	568.5	550.6	550.6
27.5°	6253.0	5136.5	2556.8	828.5	639.8	591.4	550.6	520.0	486.9	466.5	461.4
30°	6181.6	4937.7	2049.5	680.6	576.1	527.7	481.8	443.5	405.3	384.9	382.4
32.5°	6140.9	4754.1	1585.6	593.9	522.6	466.5	415.5	374.7	336.5	313.5	311.0
35°	6156.2	4611.4	1187.9	535.3	471.6	413.0	356.9	316.1	283.0	262.6	257.5
37.5°	6288.7	4547.6	892.2	489.4	428.3	367.1	308.4	270.2	239.6	224.3	221.8
40°	6546.2	4560.4	701.0	453.7	392.6	321.2	265.1	229.4	206.5	193.7	191.2
42.5°	6946.4	4667.5	578.7	423.2	354.3	280.4	229.4	201.4	178.4	165.7	163.1
45°	7542.9	4889.2	504.7	387.5	313.5	242.2	198.8	173.3	152.9	137.7	135.1
47.5°	8407.0	5274.2	456.3	354.3	277.9	209.0	170.8	145.3	127.5	114.7	112.2
50°	9327.3	5735.5	415.5	321.2	247.3	181.0	145.3	119.8	104.5	91.8	89.2
52.5°	10308.7	6232.6	384.9	290.6	219.2	155.5	122.4	99.4	84.1	71.4	68.8
55°	11251.9	6732.3	349.2	270.2	186.1	132.6	102.0	81.6	66.3	56.1	56.1
57.5°	12169.6	7191.1	311.0	237.1	152.9	112.2	84.1	66.3	53.5	45.9	43.3
60°	13265.7	7825.8	267.7	201.4	127.5	94.3	68.8	53.5	43.3	35.7	35.7
62.5°	14894.6	8486.1	229.4	168.2	107.1	79.0	56.1	43.3	35.7	30.6	28.0
65°	15427.3	8129.2	193.7	137.7	86.7	63.7	45.9	38.2	30.6	28.0	25.5
67.5°	*14004.9*	*6663.4*	*160.6*	*112.2*	*71.4*	*53.5*	*40.8*	*33.1*	*28.0*	*25.5*	*22.9*
70°	10928.1	4728.6	124.9	84.1	58.6	43.3	35.7	30.6	25.5	22.9	22.9
72.5°	7433.3	2796.4	99.4	63.7	48.4	38.2	30.6	28.0	25.5	22.9	20.4
75°	3660.6	994.2	76.5	48.4	38.2	33.1	28.0	25.5	22.9	20.4	20.4
77.5°	986.5	275.3	58.6	38.2	30.6	25.5	25.5	25.5	22.9	17.8	17.8
80°	333.9	114.7	43.3	28.0	25.5	20.4	17.8	22.9	20.4	17.8	15.3
82.5°	183.5	56.1	30.6	22.9	17.8	15.3	15.3	15.3	15.3	12.7	12.7
85°	117.3	30.6	20.4	17.8	17.8	12.7	10.2	10.2	7.6	7.6	7.6
87.5°	53.5	17.8	17.8	15.3	15.3	12.7	7.6	5.1	2.5	2.5	2.5
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

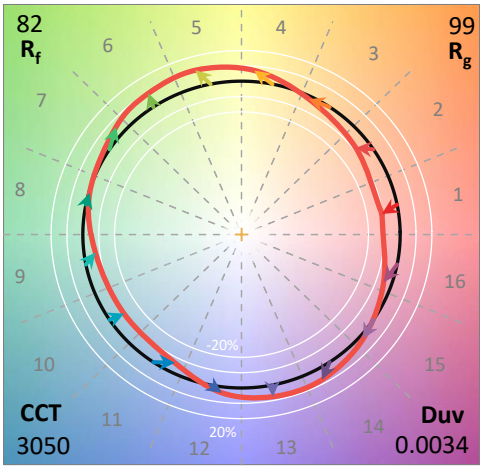
Test Information

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

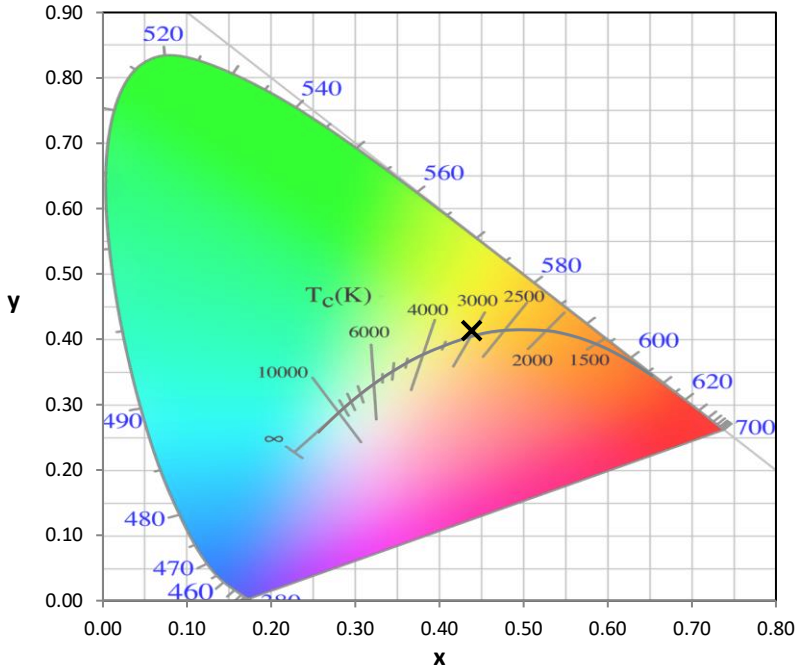
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

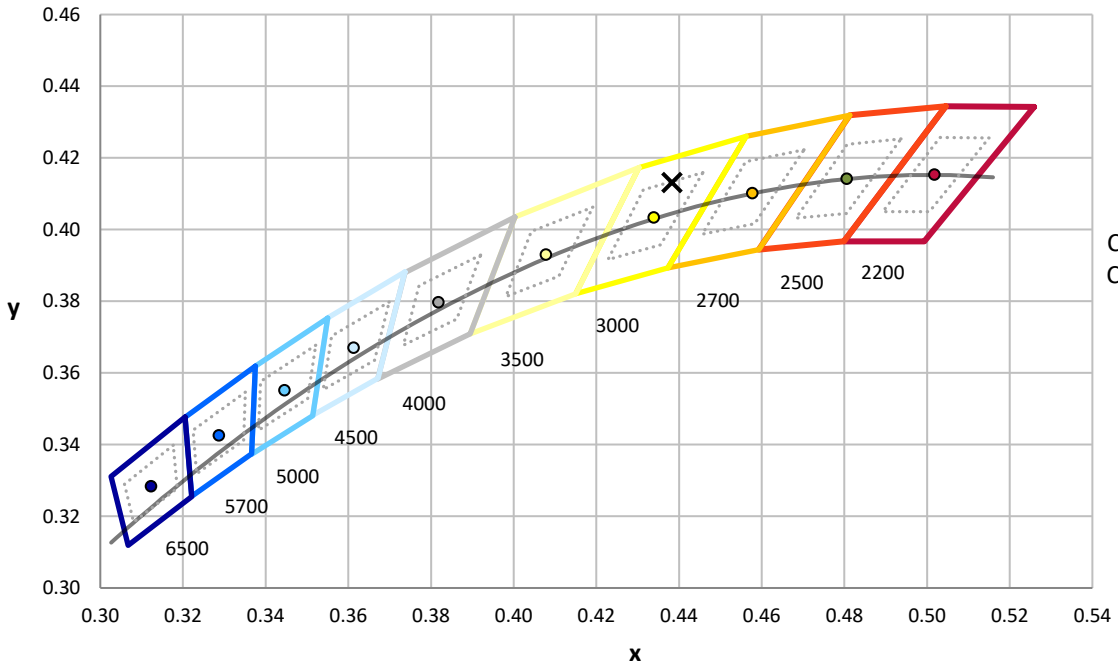
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

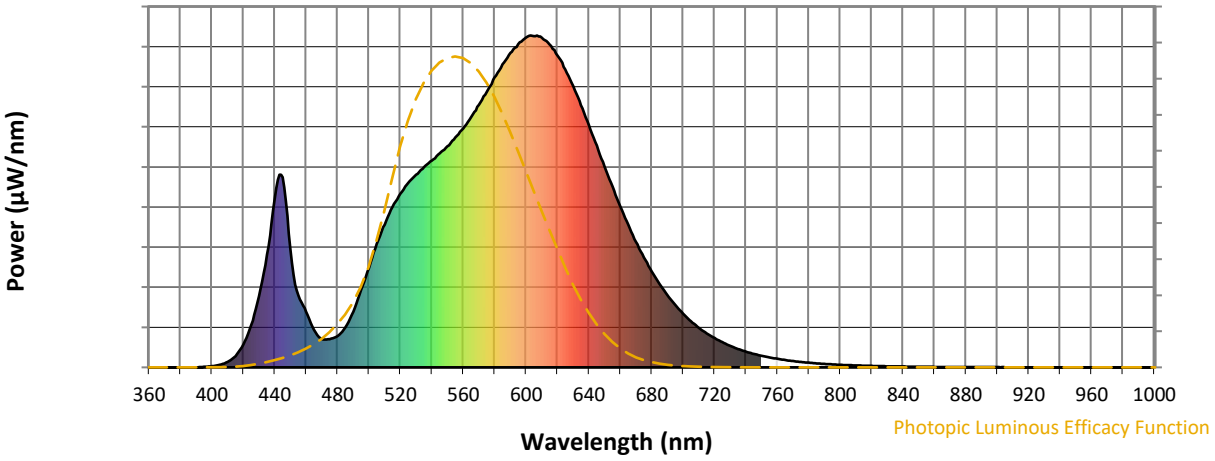


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

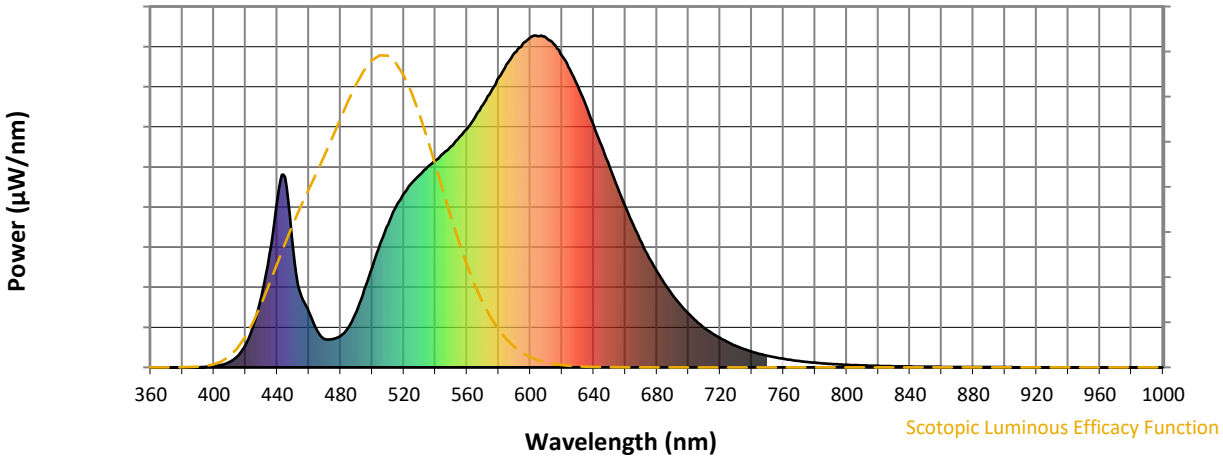


Photopic Lumens: NR

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

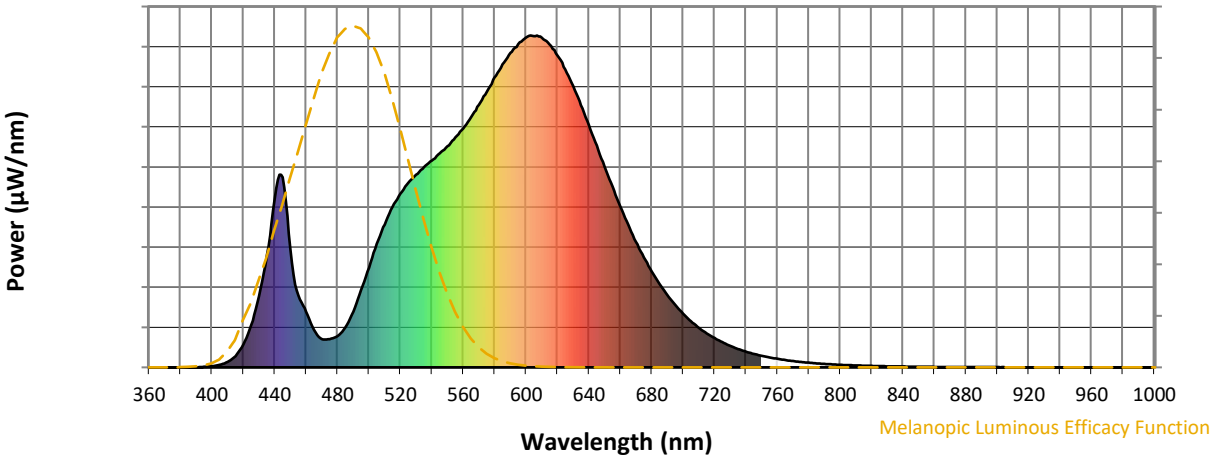


Scotopic Lumens: NR **S/P: 1.27**

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			

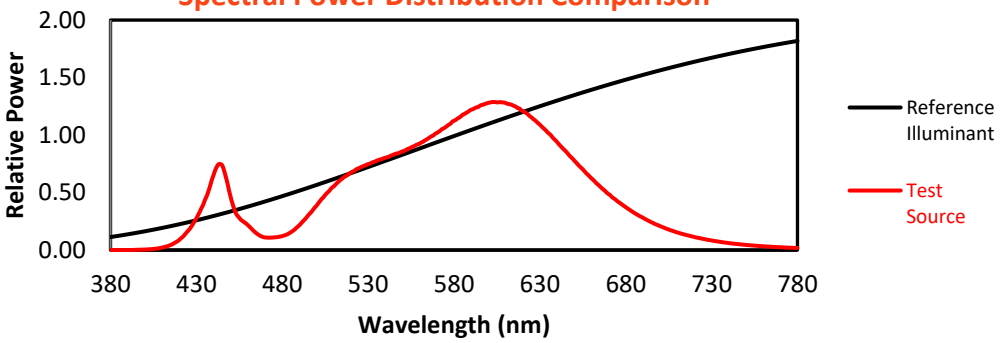
REPORT NUMBER: SP1-2408-195-9

TM-30-18

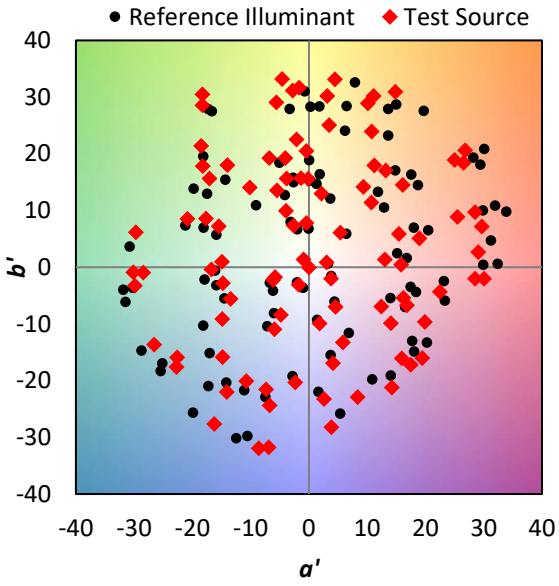
Summary

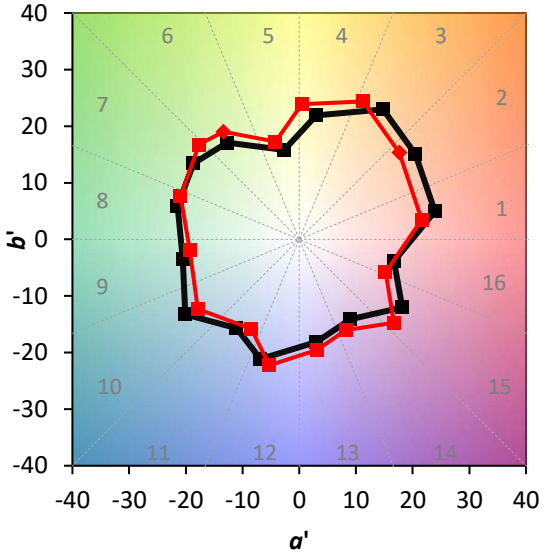
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

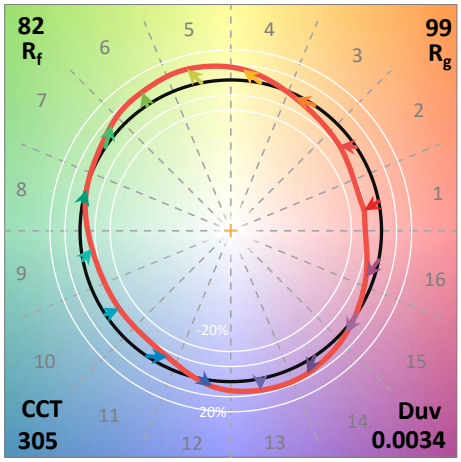
Spectral Power Distribution Comparison

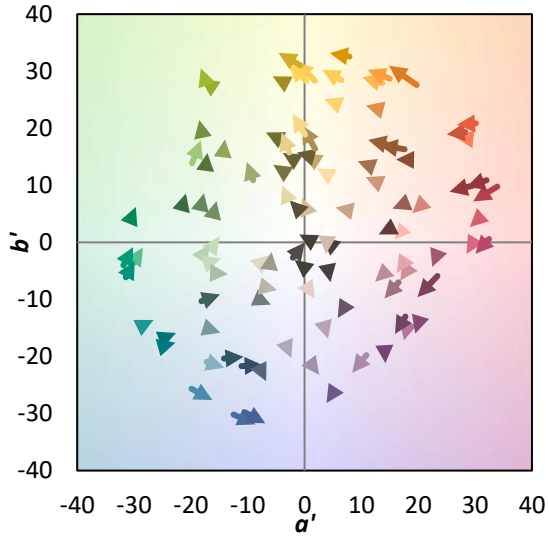


Color Vector Graphics







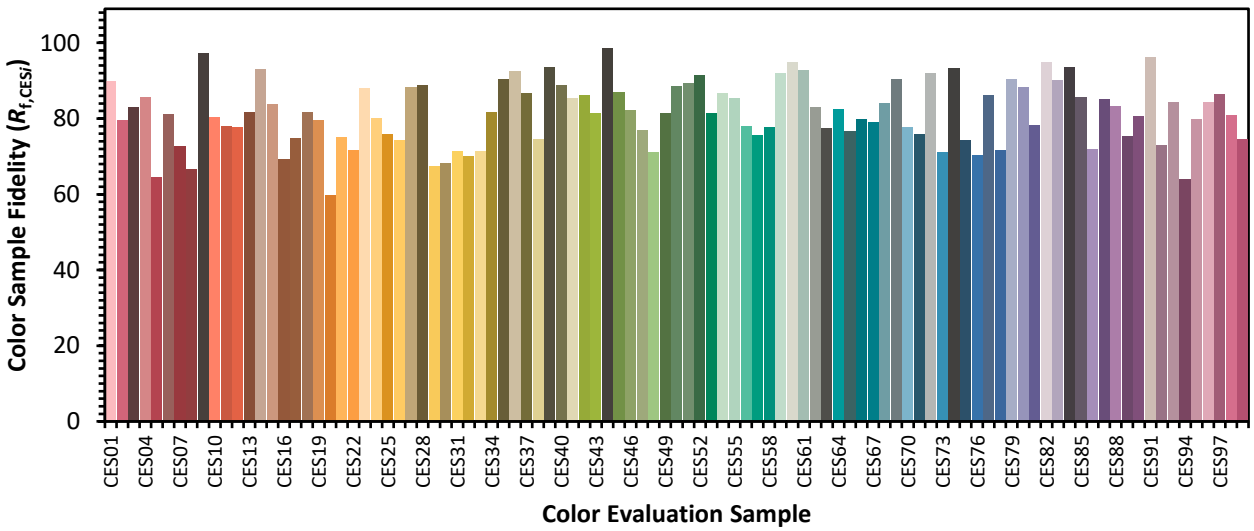


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

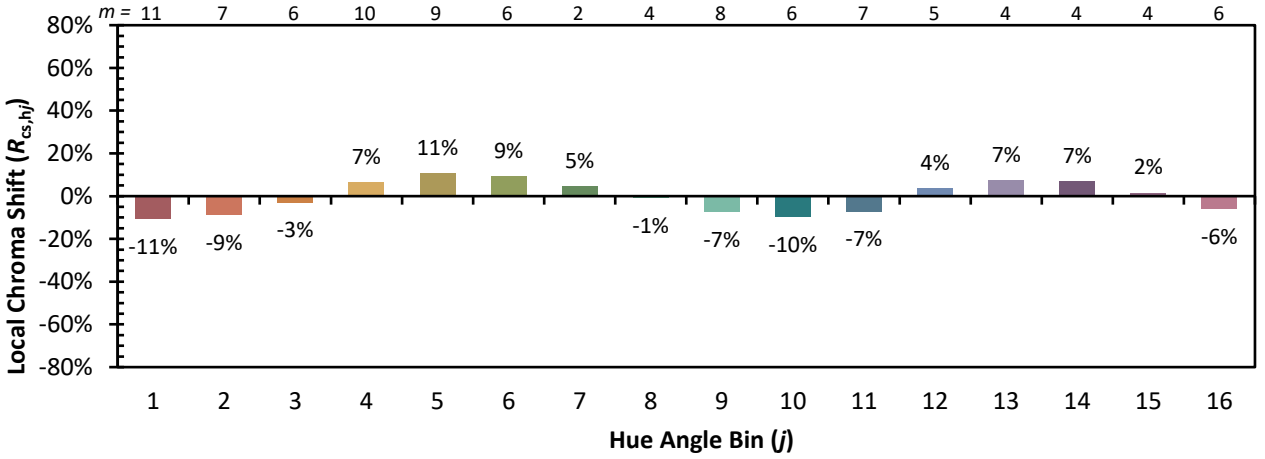
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

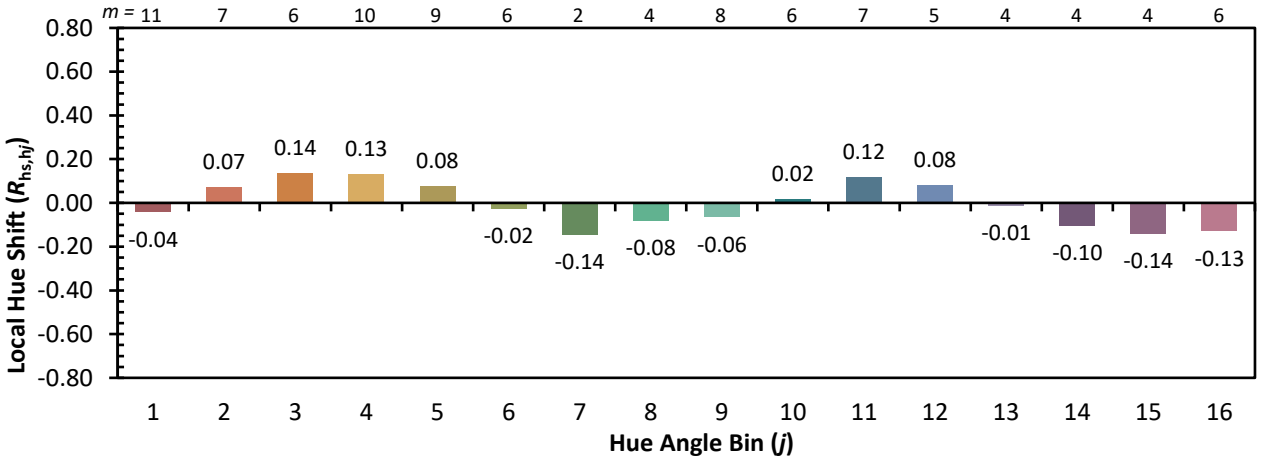


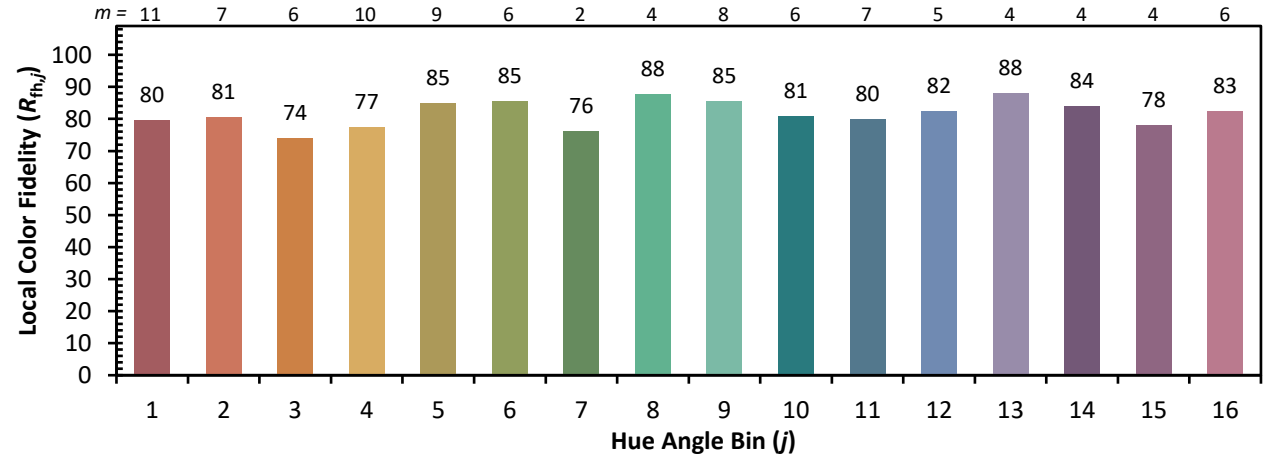
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



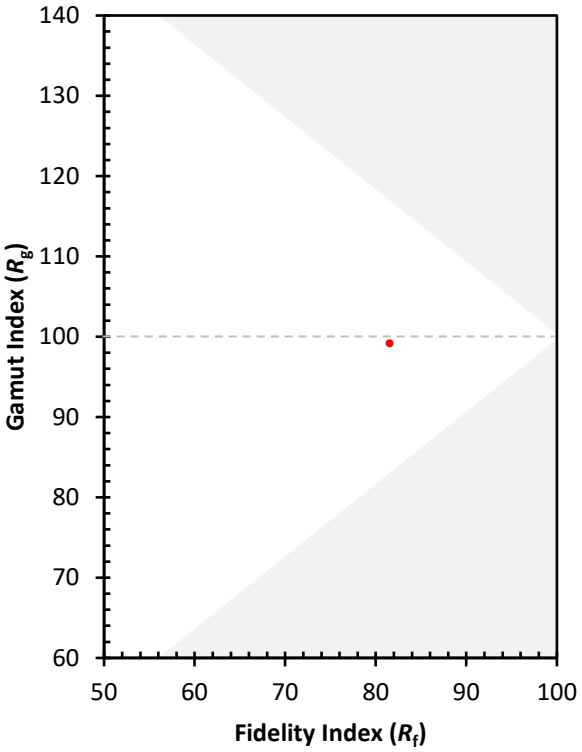


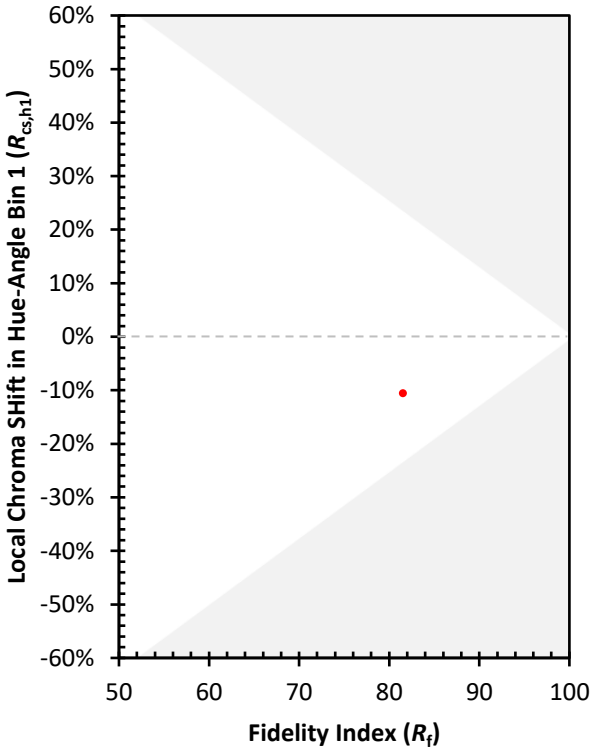


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)