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: P635520

Luminaire Tested: GWS-SA3D-830-U-T2-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:	P635520
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3D-830-U-T2-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10471.7 lumens
Efficiency:	N/A
Efficacy:	86.7 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

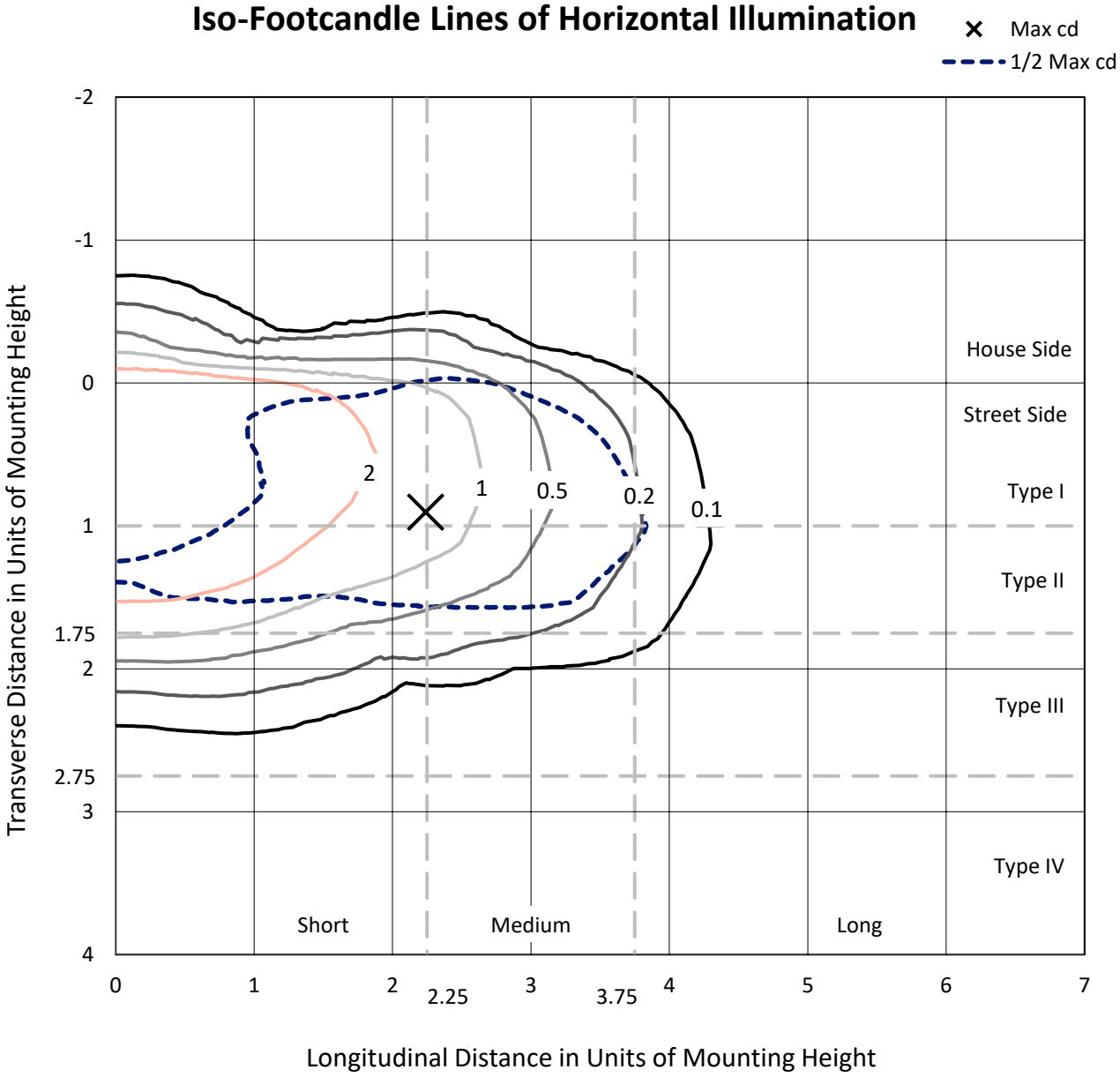
Input Watts (W):	120.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P635520
CATALOG NUMBER: GWS-SA3D-830-U-T2-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



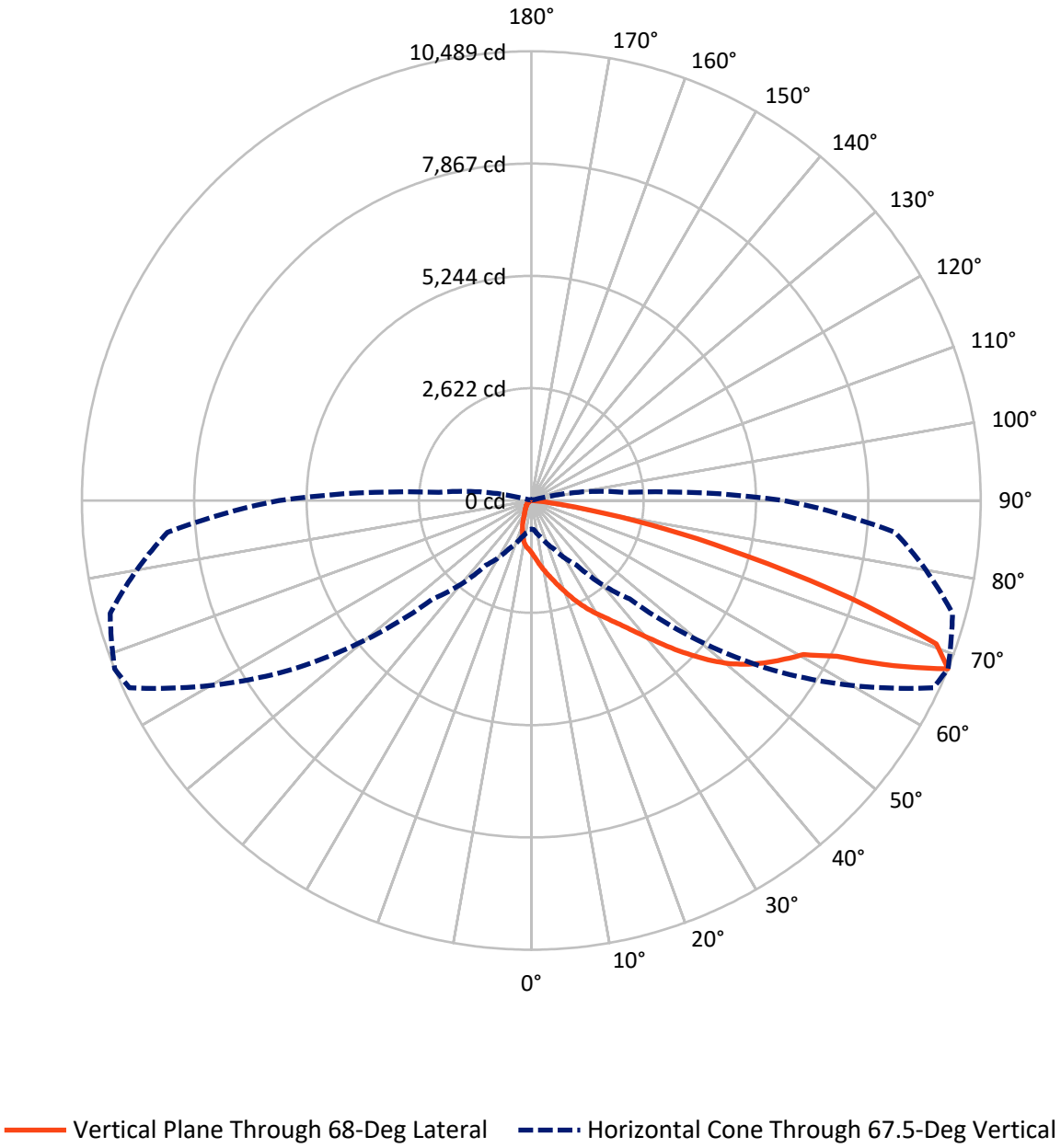
Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
Type II - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P635520
CATALOG NUMBER: GWS-SA3D-830-U-T2-W-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

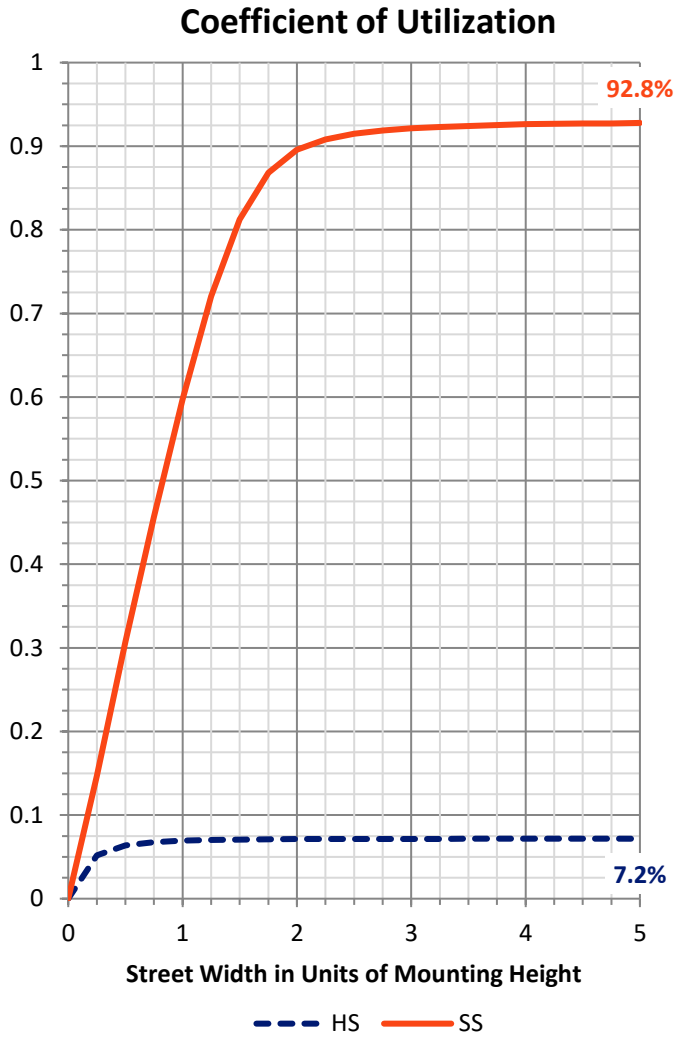
REPORT NUMBER: P635520
CATALOG NUMBER: GWS-SA3D-830-U-T2-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	756.2	0.0	756.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	9715.5	0.0	9715.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	10471.7	0.0	10471.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	1.1
10°-20°	341.3	3.3
20°-30°	586.5	5.6
30°-40°	1019.8	9.7
40°-50°	1779.4	17.0
50°-60°	2683.8	25.6
60°-70°	2691.2	25.7
70°-80°	1187.3	11.3
80°-90°	63.4	0.6
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°	10471.7	100.0
0°-180°	10471.7	100.0



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

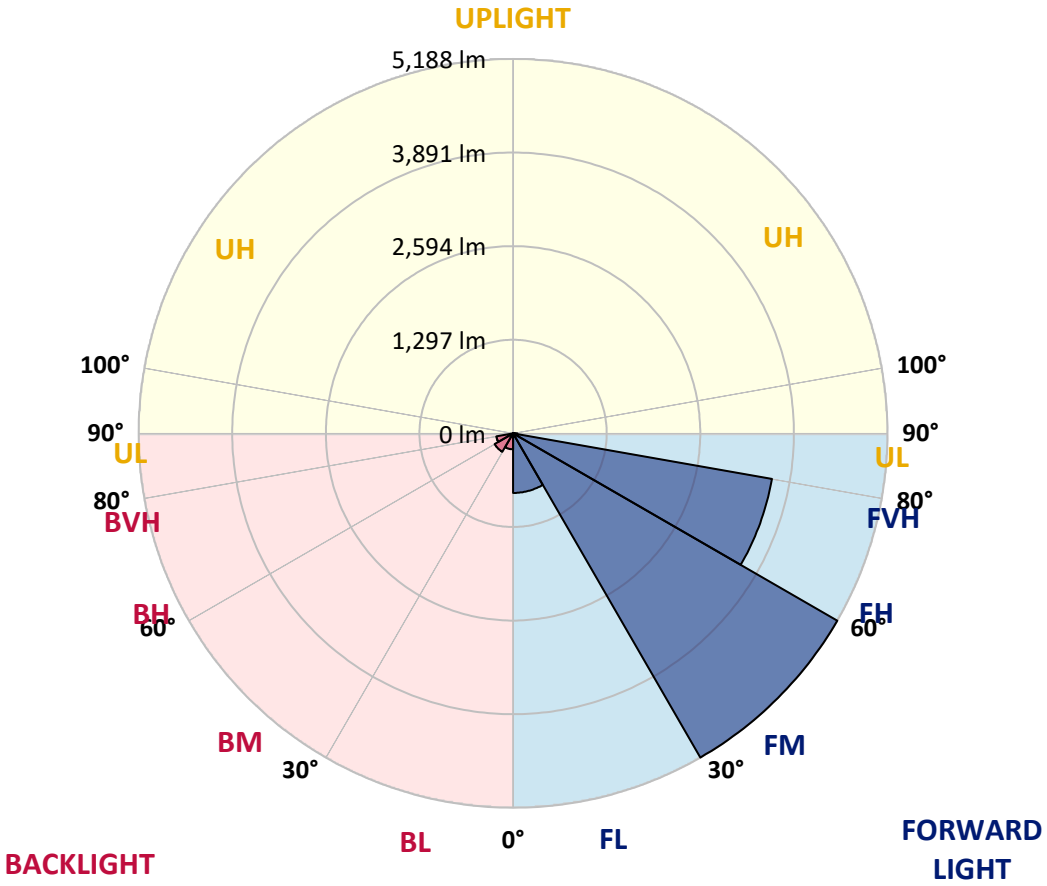
Scaled Data Report

REPORT NUMBER: P635520
CATALOG NUMBER: GWS-SA3D-830-U-T2-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	825.5	7.9			
FM	(30°-60°)	5187.7	49.5			
FH	(60°-80°)	3642.5	34.8			G2/5000
FVH	(80°-90°)	59.8	0.6			G1/100
BL	(0°-30°)	221.2	2.1	B1/500		
BM	(30°-60°)	295.4	2.8	B1/1000		
BH	(60°-80°)	236.0	2.3	B1/500		G1/500
BVH	(80°-90°)	3.6	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



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

Scaled Data Report

REPORT NUMBER: P635520
CATALOG NUMBER: GWS-SA3D-830-U-T2-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	*1218.6*	1218.6	1218.6
2.5°	1419.1	1428.1	1419.1	1421.1	1395.0	1383.0	1356.9	1320.9	*1311.8*	1288.8	1253.7
5°	1592.4	1600.5	1591.4	1589.4	1559.4	1537.3	1494.2	1432.1	*1414.1*	1369.0	1299.8
7.5°	1686.7	1691.7	1694.7	1699.7	1688.7	1670.6	1631.5	1554.4	*1535.3*	1462.2	1365.0
10°	1696.7	1700.7	1715.7	1745.8	1767.8	1778.9	1756.8	1685.7	*1655.6*	1584.4	1445.1
12.5°	1668.6	1674.6	1698.7	1748.8	1809.9	1866.0	1880.1	1817.9	*1790.9*	1699.7	1539.3
15°	1631.5	1636.5	1669.6	1737.8	1830.0	1933.2	1991.3	1964.3	*1934.2*	1839.0	1643.6
17.5°	1574.4	1581.4	1627.5	1719.7	1839.0	1986.3	2111.6	2120.6	*2099.5*	1996.3	1758.8
20°	1542.3	1547.4	1588.4	1683.6	1833.0	2025.4	2223.8	2309.0	*2286.0*	2177.7	1891.1
22.5°	1569.4	1573.4	1600.5	1674.6	1812.9	2047.4	2328.0	2497.4	*2484.4*	2372.1	2030.4
25°	1711.7	1724.7	1708.7	1721.7	1821.9	2059.5	2412.2	2685.8	*2688.8*	2575.6	2174.7
27.5°	2000.3	1983.3	1945.2	1880.1	1892.1	2091.5	2484.4	2863.2	*2889.3*	2774.0	2303.0
30°	2294.0	2283.9	2260.9	2159.7	2075.5	2162.7	2545.5	3044.6	*3085.7*	2969.4	2417.2
32.5°	2623.7	2633.7	2592.6	2471.4	2328.0	2307.0	2608.7	3217.0	*3294.1*	3190.9	2551.5
35°	3017.5	3020.5	2939.4	2805.1	2642.7	2545.5	2721.9	3407.4	*3549.7*	3473.5	2730.9
37.5°	3401.4	3419.4	3375.3	3163.9	3019.5	2842.2	2909.3	3651.9	*3852.3*	3822.3	2956.4
40°	3741.1	3769.2	3755.1	3550.7	3361.3	3212.0	3199.9	3938.5	*4218.1*	4252.2	3254.0
42.5°	4011.7	4029.7	4040.8	3895.4	3728.1	3643.9	3558.7	4271.3	*4650.1*	4789.4	3618.8
45°	4297.3	4303.3	4326.4	4228.2	4081.8	4088.9	3982.6	4675.1	*5105.1*	5384.7	4037.7
47.5°	4661.1	4681.1	4670.1	4566.9	4434.6	4513.8	4420.6	5091.0	*5554.0*	6020.0	4466.7
50°	5104.1	5125.1	5115.1	4994.8	4847.5	4880.6	4822.4	5494.9	*5987.0*	6619.3	4823.4
52.5°	5332.6	5349.6	5473.9	5528.0	5450.8	5240.4	5165.2	5938.9	*6352.8*	7112.4	5151.2
55°	5222.3	5234.3	5504.9	5733.4	6016.0	5805.6	5509.9	6281.6	*6675.5*	7497.2	5394.7
57.5°	4765.3	4830.5	5198.3	5585.1	6179.4	6363.8	6069.1	6654.4	*6986.1*	7764.8	5634.2
60°	3828.3	3825.3	4352.4	5046.9	5860.7	6517.1	6858.9	7158.5	*7297.8*	7970.3	5954.9
62.5°	2115.6	2134.6	2836.1	3751.1	4974.8	6120.3	7451.1	8029.4	*8008.3*	8329.0	6457.0
65°	1053.3	1091.4	1472.2	2148.7	3310.2	5058.0	7553.4	9358.3	*9298.1*	9173.9	7494.2
67.5°	*668.4*	*683.5*	*893.9*	*1248.7*	*1840.0*	*3251.0*	*6917.0*	*10349.4*	*10488.7*	*10176.0*	*8523.5*
70°	432.9	458.0	621.3	853.8	1110.4	1675.6	5067.0	9707.0	*10026.7*	10065.8	7882.1
72.5°	235.5	253.5	396.9	609.3	801.7	837.8	2846.2	7284.8	*7798.9*	8538.5	6166.4
75°	134.3	147.3	217.5	413.9	588.3	510.1	1261.7	4876.6	*5204.3*	6102.2	4418.6
77.5°	81.2	92.2	122.3	201.4	368.8	340.7	477.0	2968.4	*3176.9*	3640.9	2319.0
80°	37.1	44.1	77.2	111.2	201.4	161.3	182.4	1384.0	*1429.1*	1494.2	767.7
82.5°	17.0	20.0	35.1	66.1	114.2	93.2	70.2	319.7	*450.0*	425.9	195.4
85°	2.0	2.0	13.0	27.1	32.1	24.1	29.1	72.2	*91.2*	128.3	56.1
87.5°	0.0	0.0	1.0	1.0	2.0	3.0	6.0	9.0	*13.0*	21.0	14.0
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

Scaled Data Report

REPORT NUMBER: P635520
CATALOG NUMBER: GWS-SA3D-830-U-T2-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6
2.5°	1237.7	1209.6	1184.6	1147.5	1122.4	1094.4	1075.3	1052.3	1043.3	1036.2	1026.2
5°	1265.7	1220.6	1159.5	1091.4	1035.2	982.1	933.0	901.0	872.9	868.9	854.9
7.5°	1311.8	1244.7	1141.5	1030.2	935.0	846.8	777.7	721.6	693.5	684.5	668.4
10°	1373.0	1280.8	1114.4	944.0	806.7	701.5	623.4	560.2	516.1	500.1	488.1
12.5°	1441.1	1313.8	1071.3	837.8	681.5	561.2	462.0	394.9	366.8	356.8	347.8
15°	1519.3	1344.9	1003.2	731.6	559.2	412.9	342.7	313.7	301.7	298.6	295.6
17.5°	1594.5	1365.0	922.0	621.3	429.9	320.7	287.6	276.6	273.6	270.6	268.6
20°	1679.6	1379.0	826.8	517.1	333.7	271.6	255.6	247.5	241.5	235.5	234.5
22.5°	1766.8	1379.0	723.6	414.9	279.6	243.5	225.5	210.5	199.4	193.4	191.4
25°	1850.0	1359.9	621.3	331.7	246.5	216.5	193.4	176.4	161.3	154.3	152.3
27.5°	1909.1	1310.8	532.2	280.6	223.5	192.4	164.4	145.3	133.3	126.3	125.3
30°	1946.2	1237.7	450.0	250.5	203.4	167.4	139.3	123.3	114.2	109.2	107.2
32.5°	1974.3	1147.5	376.8	229.5	184.4	145.3	121.3	108.2	100.2	96.2	95.2
35°	2030.4	1062.3	322.7	210.5	164.4	127.3	106.2	96.2	90.2	85.2	84.2
37.5°	2108.6	991.1	279.6	193.4	145.3	113.2	96.2	87.2	82.2	77.2	76.2
40°	2223.8	946.0	247.5	176.4	128.3	102.2	88.2	80.2	73.2	68.1	67.1
42.5°	2401.2	925.0	226.5	159.3	113.2	92.2	81.2	71.2	64.1	59.1	58.1
45°	2612.7	936.0	208.5	142.3	103.2	85.2	72.2	62.1	55.1	50.1	49.1
47.5°	2839.1	975.1	193.4	126.3	93.2	78.2	64.1	53.1	47.1	42.1	41.1
50°	3075.7	1039.3	180.4	111.2	85.2	70.2	55.1	46.1	40.1	36.1	35.1
52.5°	3281.1	1126.4	167.4	100.2	78.2	62.1	48.1	40.1	34.1	30.1	29.1
55°	3477.5	1208.6	157.3	90.2	70.2	54.1	42.1	34.1	29.1	25.1	24.1
57.5°	3691.0	1295.8	145.3	81.2	63.1	48.1	37.1	29.1	25.1	21.0	20.0
60°	4001.7	1425.1	127.3	74.2	55.1	42.1	32.1	26.1	22.0	17.0	16.0
62.5°	4449.6	1660.6	107.2	64.1	47.1	36.1	27.1	22.0	18.0	14.0	12.0
65°	5287.5	2061.5	88.2	53.1	38.1	30.1	23.0	18.0	14.0	10.0	9.0
67.5°	*5890.8*	*2165.7*	*71.2*	*43.1*	*31.1*	*23.0*	*19.0*	*14.0*	*10.0*	*7.0*	*6.0*
70°	5150.2	1555.4	55.1	35.1	26.1	18.0	15.0	11.0	7.0	5.0	4.0
72.5°	3880.4	1016.2	41.1	27.1	20.0	15.0	11.0	9.0	6.0	4.0	3.0
75°	2734.9	587.3	30.1	20.0	14.0	11.0	9.0	7.0	5.0	3.0	3.0
77.5°	1402.0	242.5	21.0	14.0	10.0	7.0	6.0	4.0	4.0	3.0	2.0
80°	425.9	80.2	12.0	9.0	7.0	5.0	3.0	3.0	3.0	2.0	1.0
82.5°	97.2	26.1	7.0	7.0	5.0	4.0	3.0	1.0	1.0	0.0	0.0
85°	25.1	8.0	6.0	5.0	5.0	4.0	2.0	1.0	0.0	0.0	0.0
87.5°	9.0	5.0	5.0	5.0	4.0	3.0	2.0	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

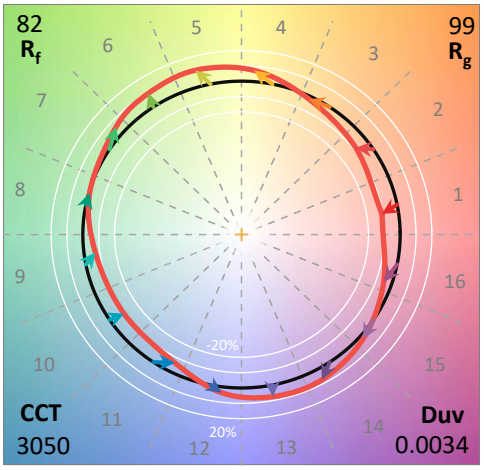
Test Information

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

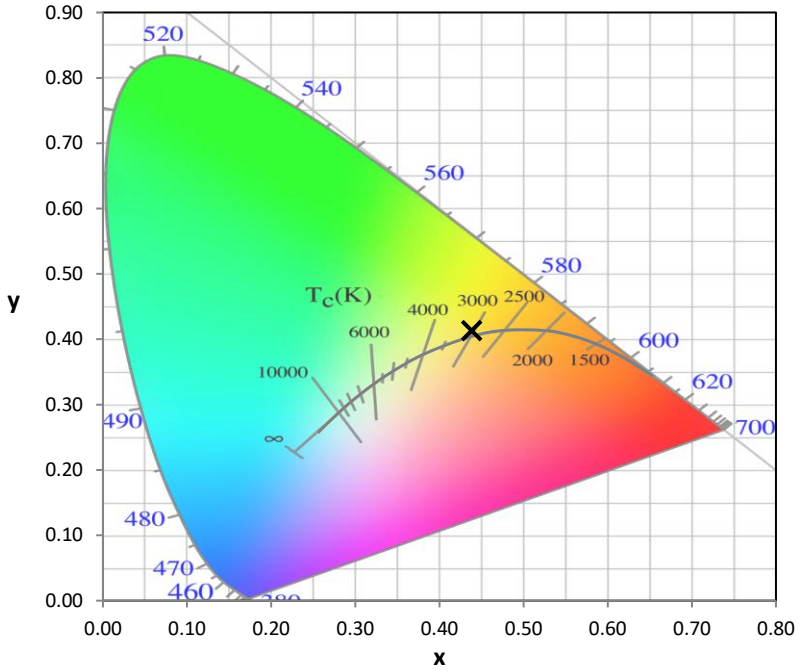
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

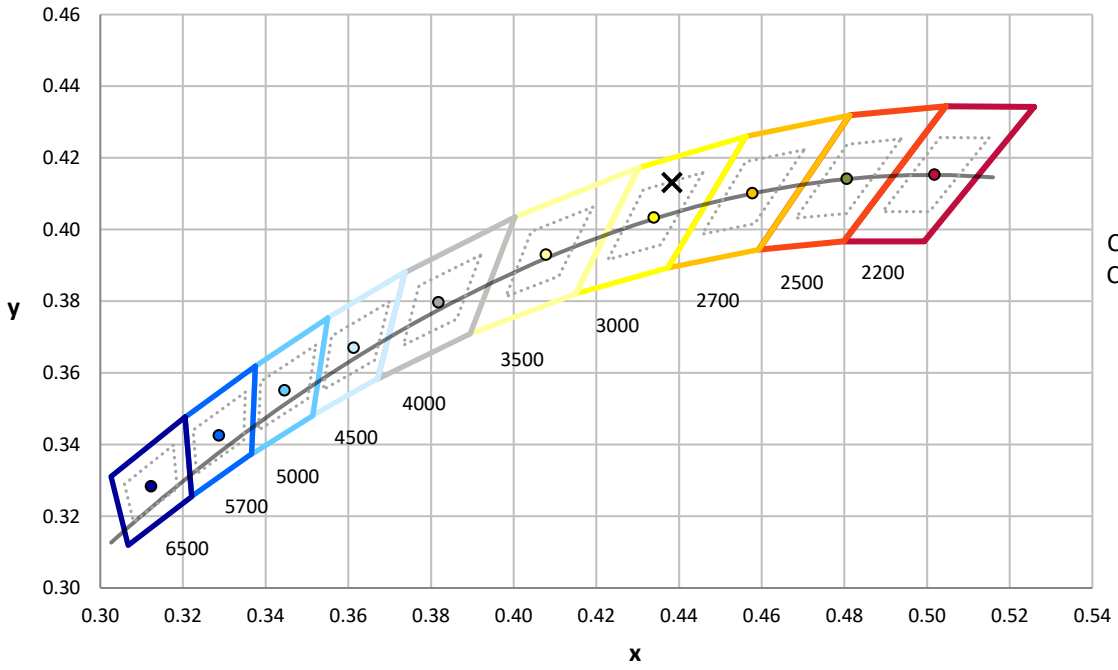
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

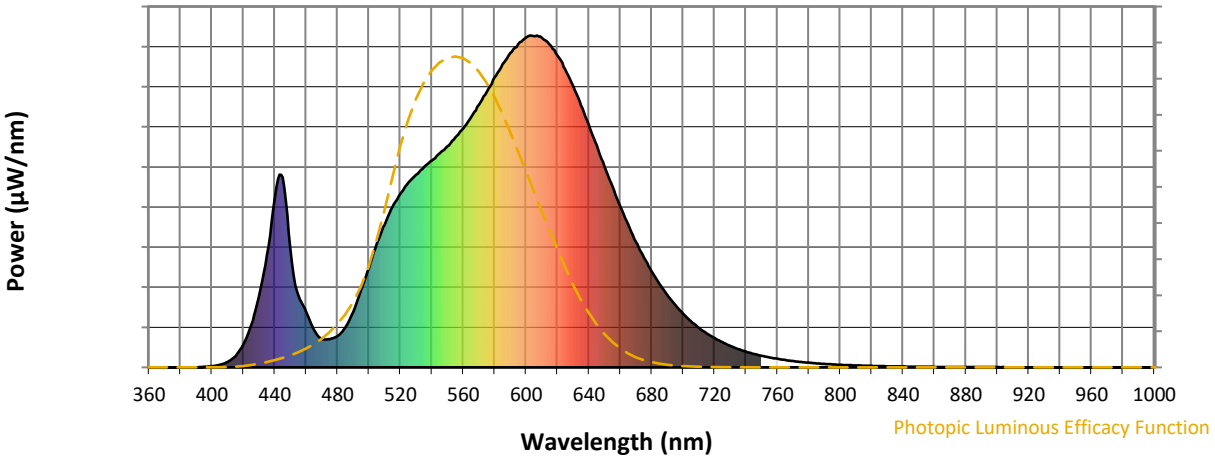


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

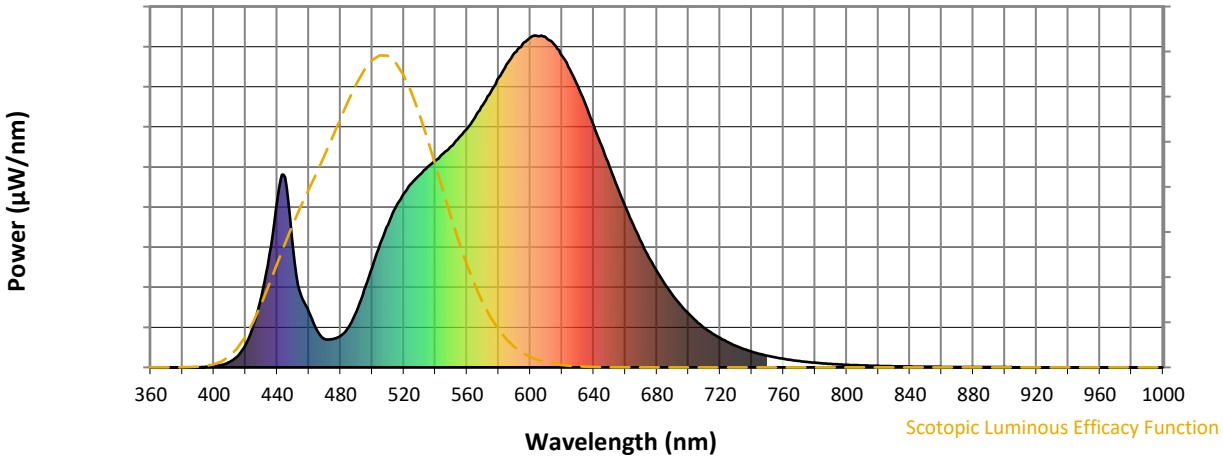


Photopic Lumens: NR

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

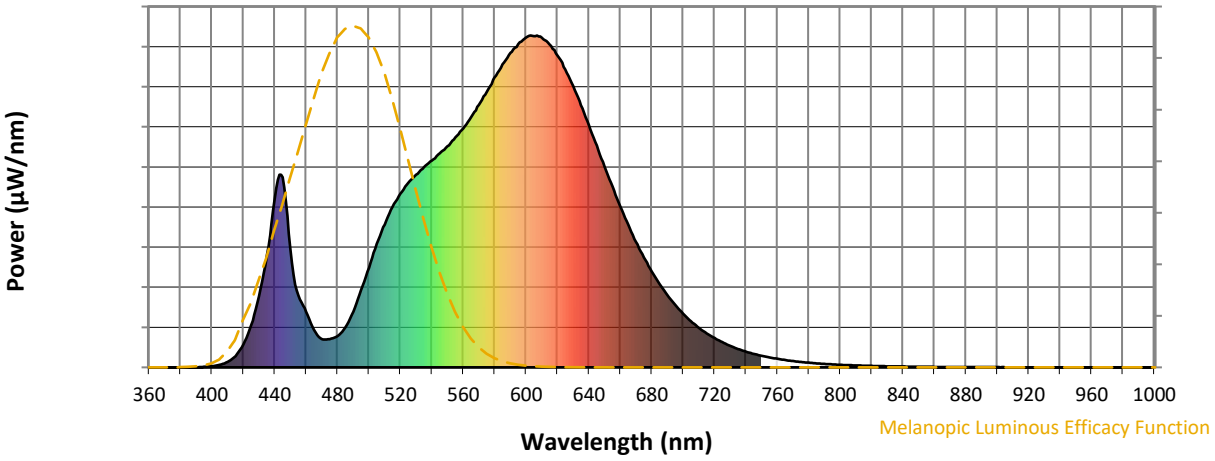


Scotopic Lumens: NR **S/P: 1.27**

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			

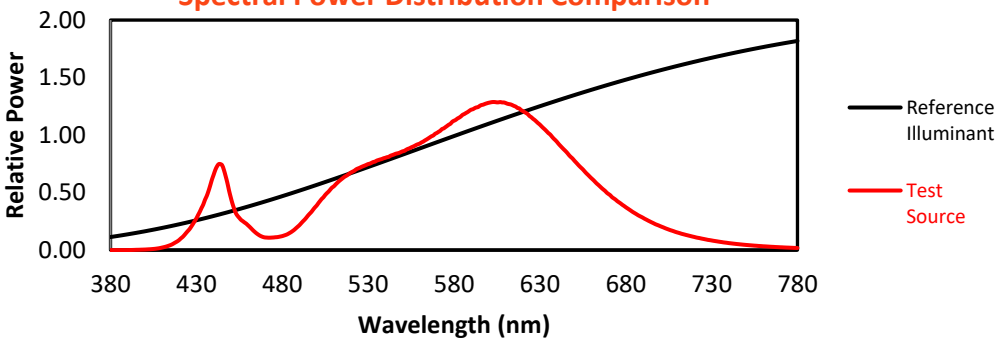
REPORT NUMBER: SP1-2408-195-9

TM-30-18

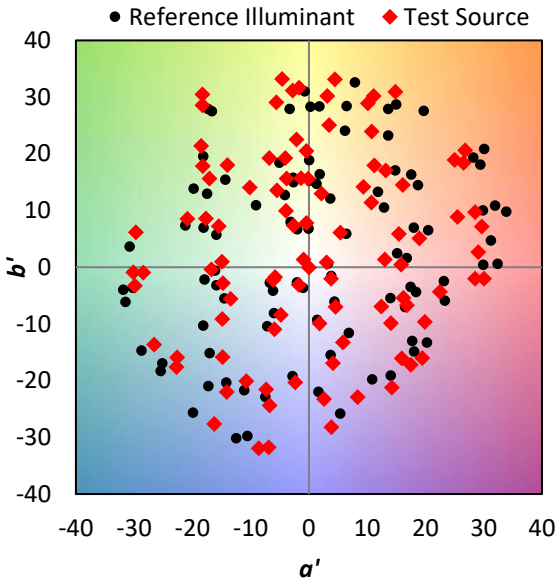
Summary

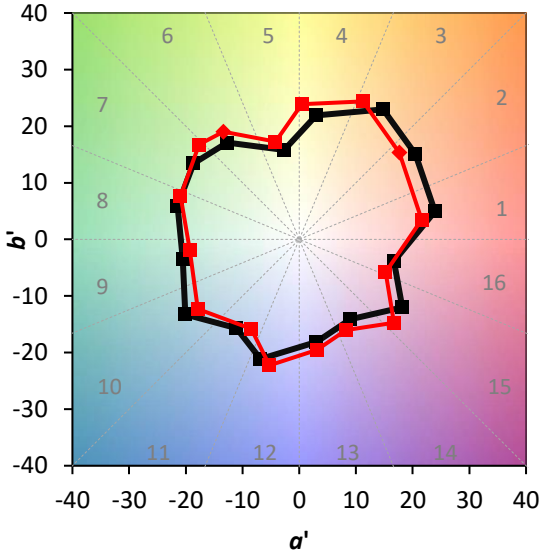
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

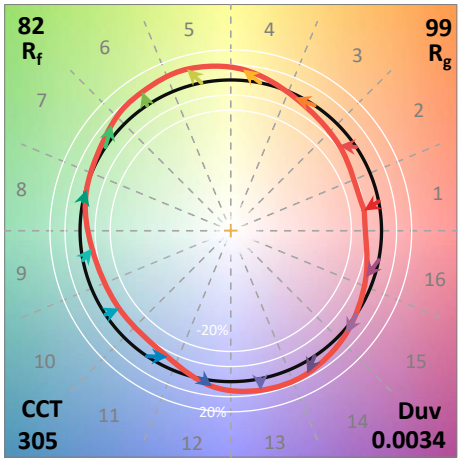
Spectral Power Distribution Comparison

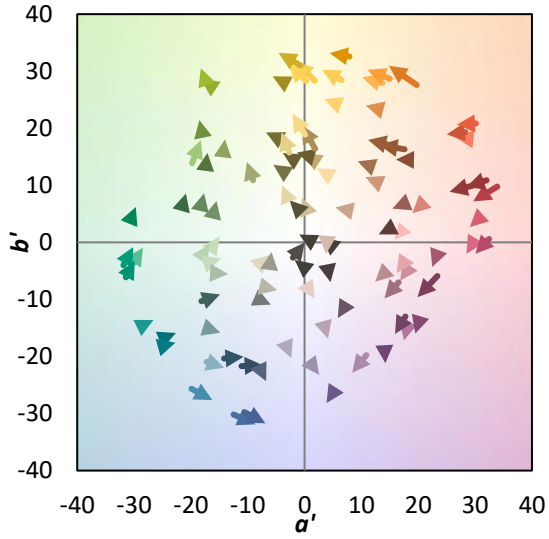


Color Vector Graphics







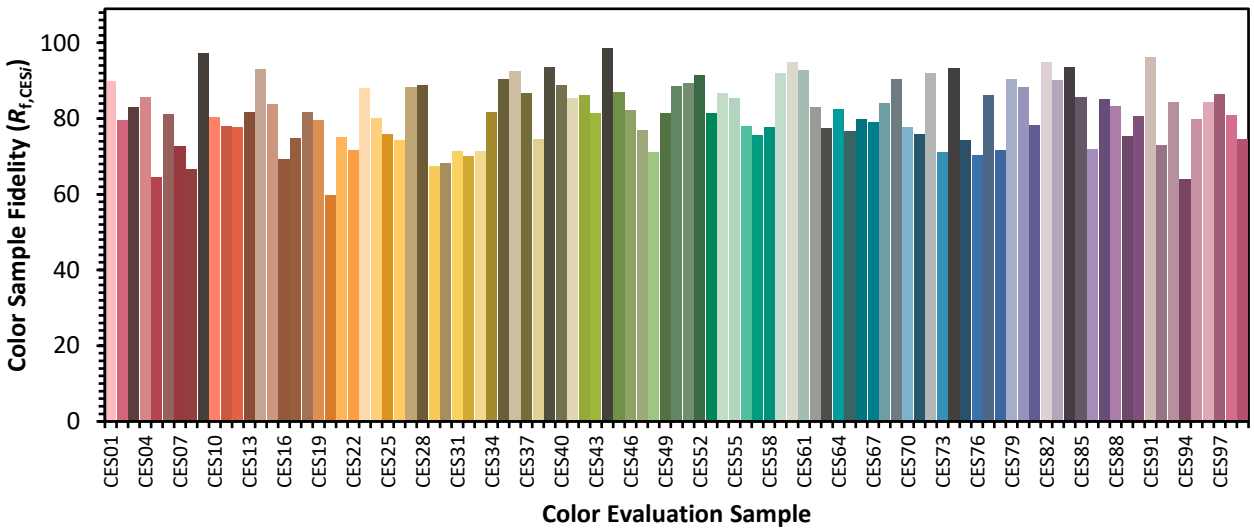


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

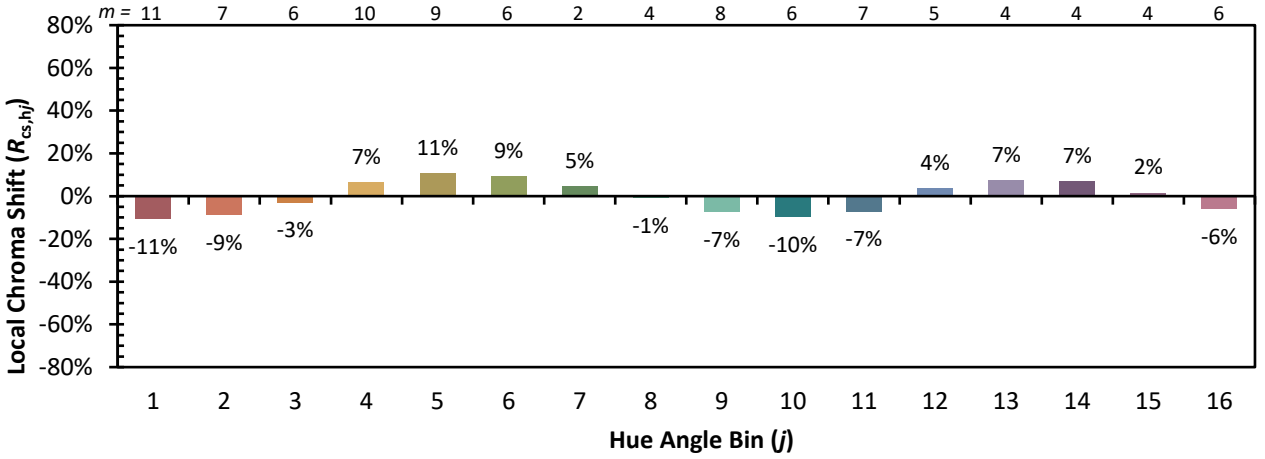
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

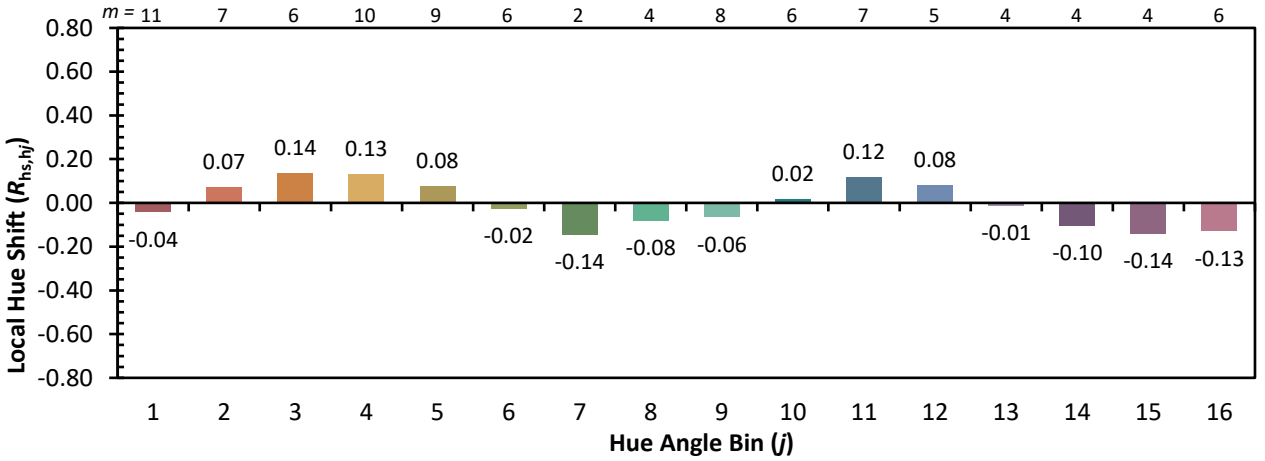


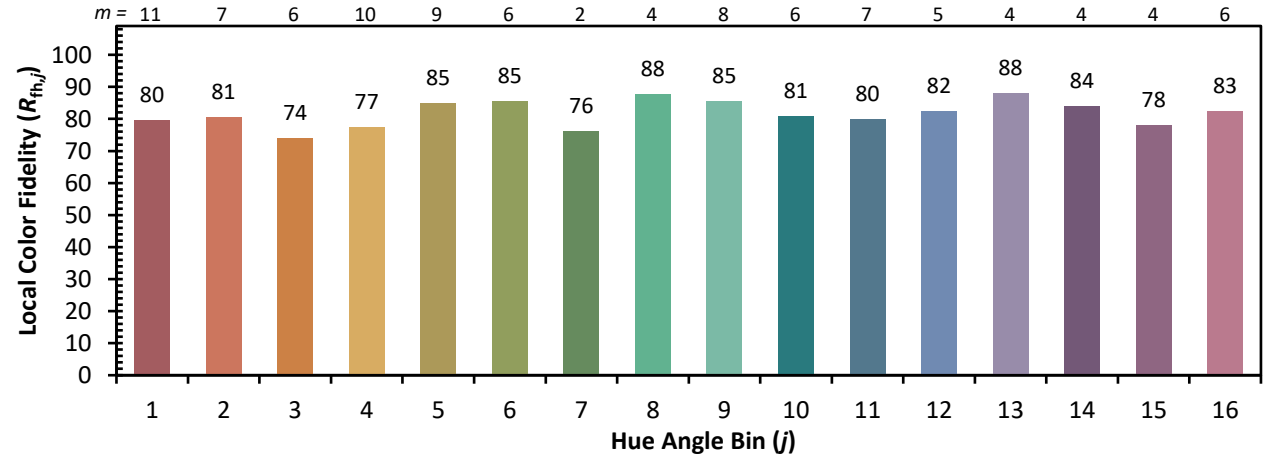
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



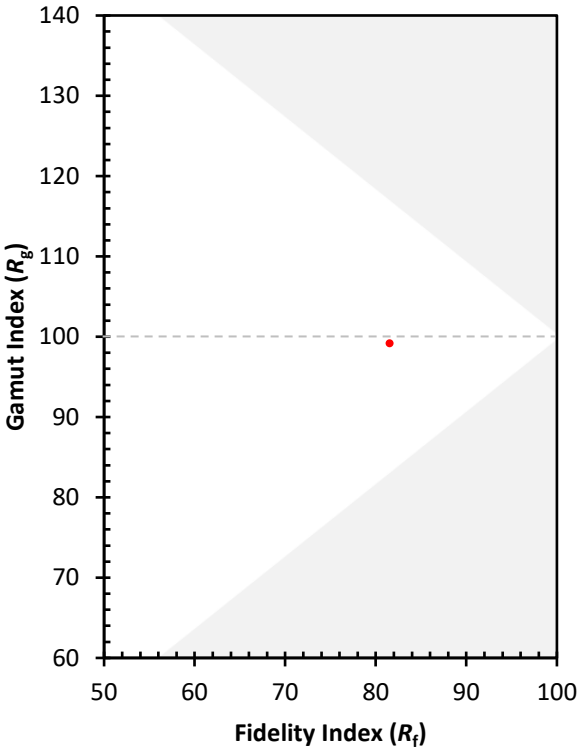


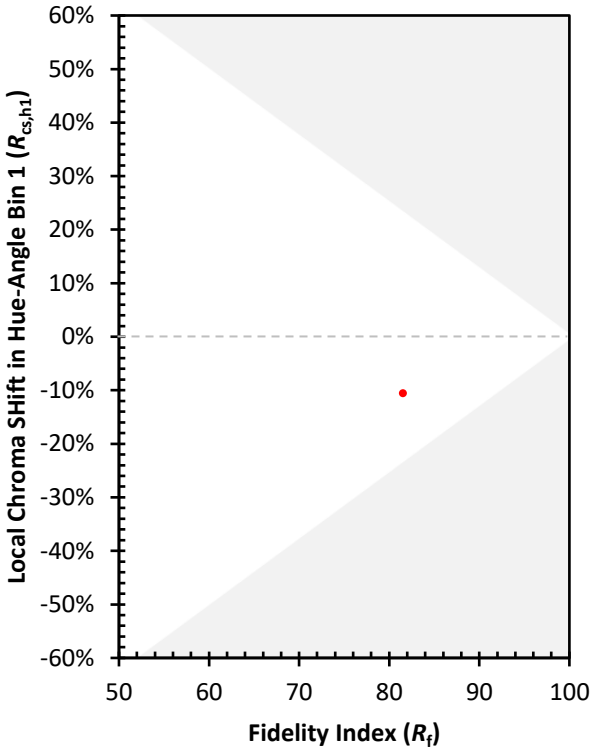


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)