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: P643457

Luminaire Tested: GWS-SA6E-830-U-T4W-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:	P643457
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6E-830-U-T4W-W
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	35255.8 lumens
Efficiency:	N/A
Efficacy:	108.9 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G5

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

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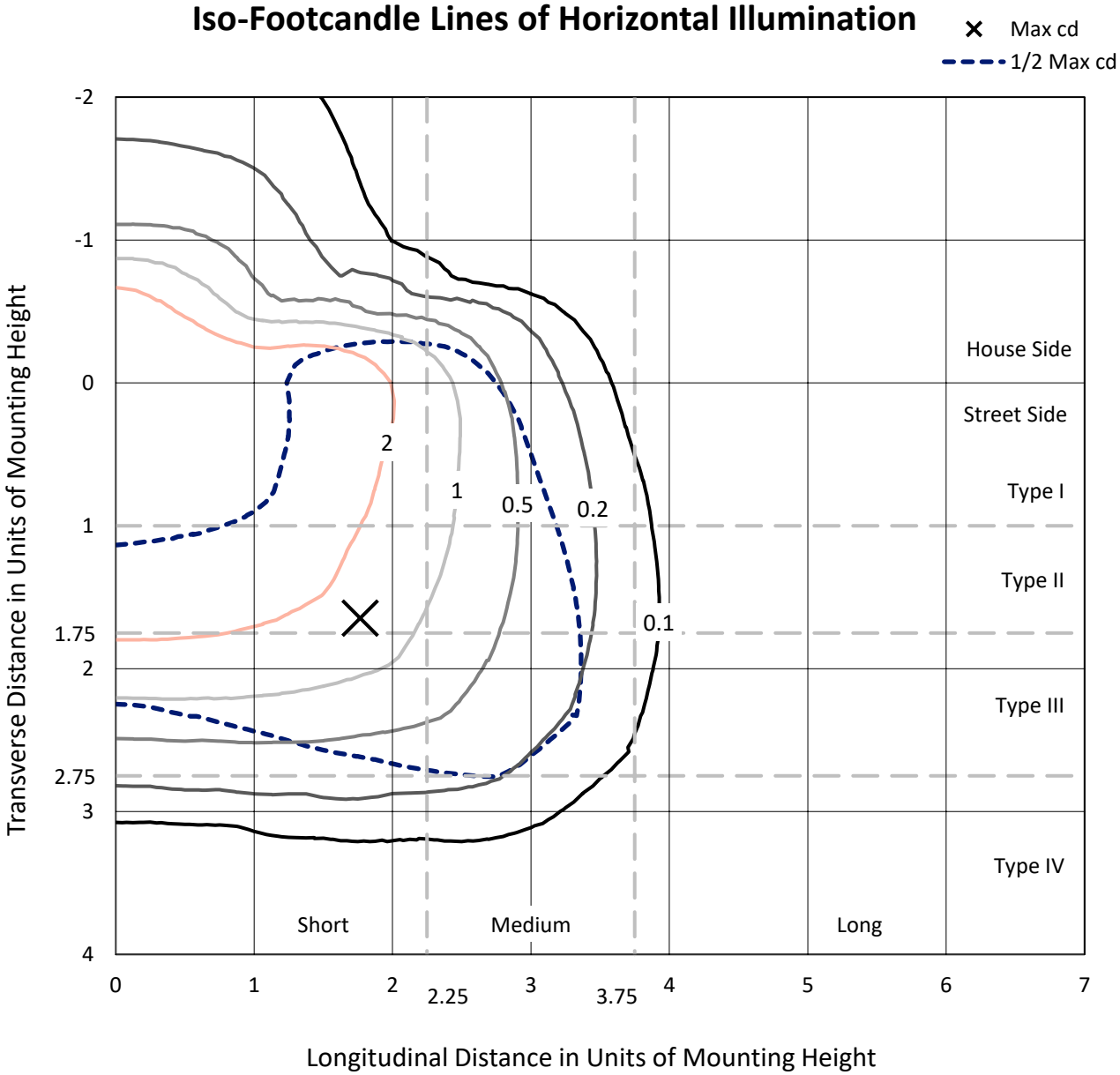
REPORT NUMBER: P643457
CATALOG NUMBER: GWS-SA6E-830-U-T4W-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
Type III - Short - N/A

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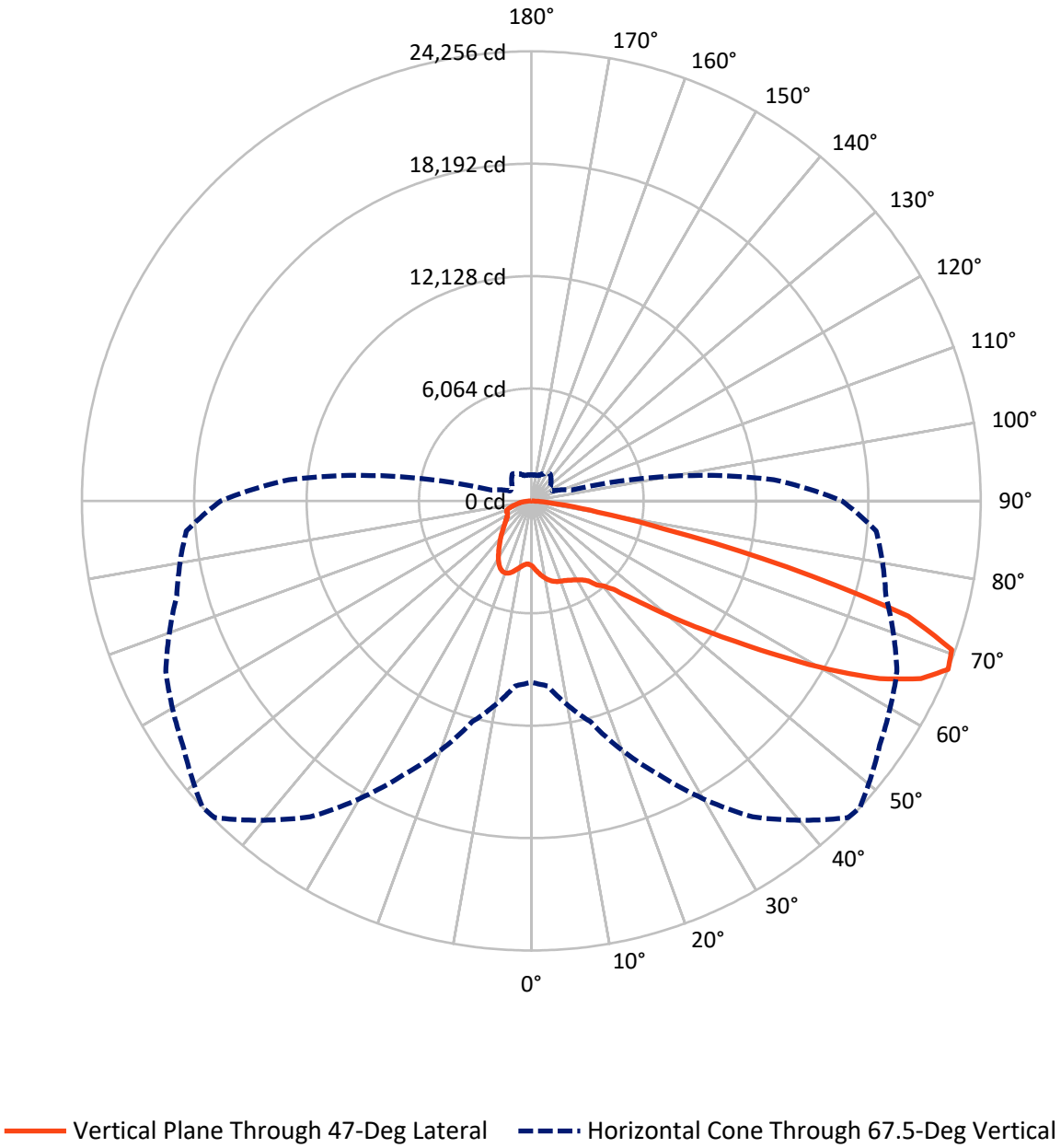
Luminous Intensity Polar Plot



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REPORT NUMBER: P643457
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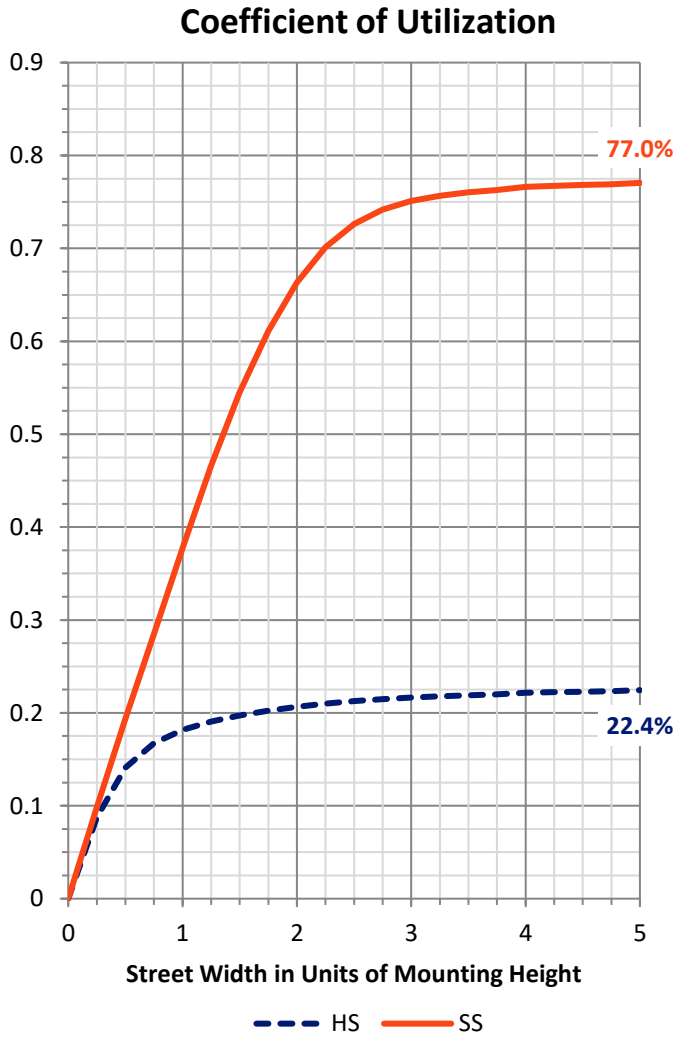
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8035.1	0.0	8035.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	27220.7	0.0	27220.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	35255.8	0.0	35255.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.2	1.0
10°-20°	1190.0	3.4
20°-30°	2022.7	5.7
30°-40°	2963.1	8.4
40°-50°	4514.6	12.8
50°-60°	8077.6	22.9
60°-70°	10778.7	30.6
70°-80°	4874.4	13.8
80°-90°	477.6	1.4
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°	35255.8	100.0
0°-180°	35255.8	100.0



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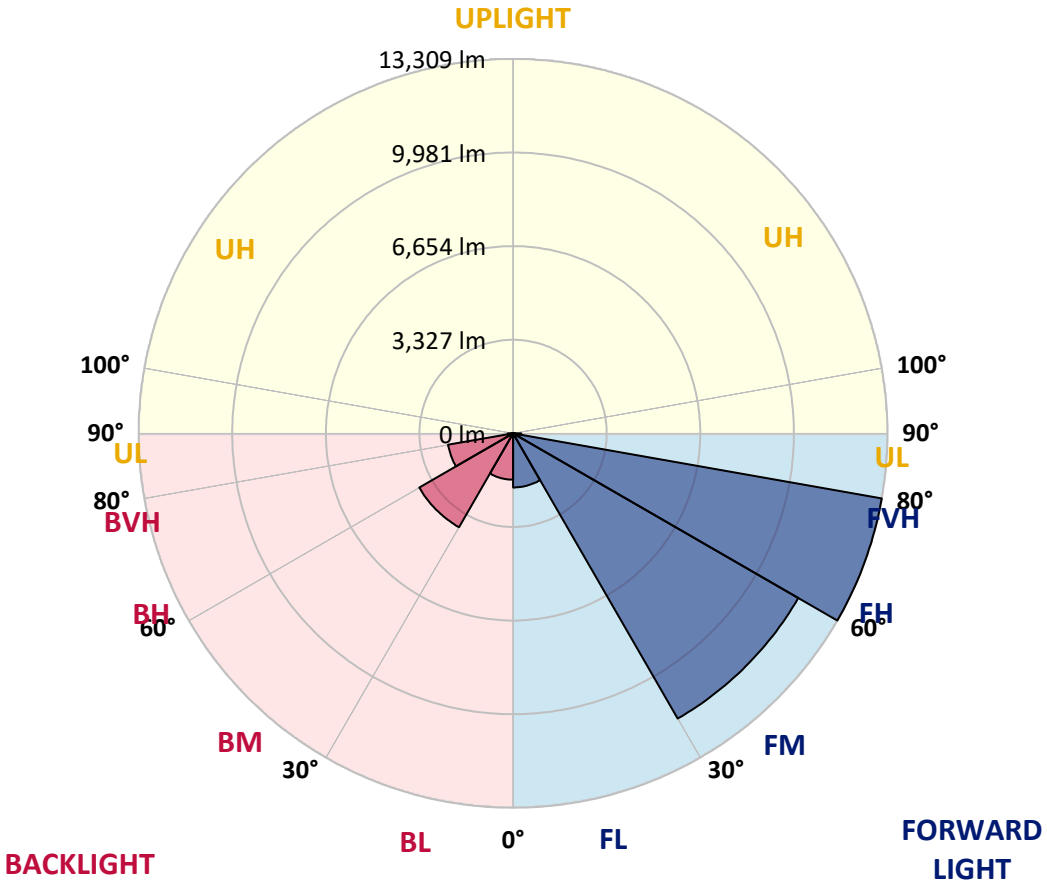
REPORT NUMBER: P643457
CATALOG NUMBER: GWS-SA6E-830-U-T4W-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1922.7	5.5			
FM	(30°-60°)	11705.3	33.2			
FH	(60°-80°)	13308.7	37.7			G5
FVH	(80°-90°)	284.1	0.8			G3/500
BL	(0°-30°)	1647.2	4.7	B3/2500		
BM	(30°-60°)	3850.0	10.9	B3/5000		
BH	(60°-80°)	2344.4	6.6	B3/2500		G3/2500
BVH	(80°-90°)	193.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type III Short



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REPORT NUMBER: P643457
CATALOG NUMBER: GWS-SA6E-830-U-T4W-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0	*3495.0*	3495.0	3495.0	3495.0	3495.0
2.5°	3726.9	3739.7	3737.1	3716.7	3704.0	3681.1	*3683.6*	3647.9	3594.4	3558.7	3517.9
5°	4055.8	4076.2	4050.7	4017.6	3966.6	3892.6	*3885.0*	3803.4	3701.5	3630.1	3556.1
7.5°	4341.3	4354.0	4323.5	4267.4	4193.4	4094.0	*4076.2*	3979.3	3851.9	3739.7	3632.6
10°	4563.1	4578.4	4537.6	4463.7	4366.8	4267.4	*4254.6*	4155.2	4020.1	3887.5	3752.4
12.5°	4751.7	4756.8	4713.5	4614.1	4509.6	4407.6	*4394.8*	4303.1	4178.2	4043.0	3895.2
15°	4861.3	4863.9	4810.4	4700.7	4601.3	4512.1	*4504.5*	4425.4	4310.7	4183.3	4025.2
17.5°	4853.7	4858.8	4820.6	4723.7	4637.0	4583.5	*4575.8*	4524.8	4435.6	4320.9	4162.9
20°	4759.4	4764.5	4739.0	4675.2	4629.4	4614.1	*4616.6*	4601.3	4547.8	4453.5	4292.9
22.5°	4685.4	4693.1	4670.2	4624.3	4619.2	4654.9	*4662.5*	4670.2	4644.7	4560.5	4405.0
25°	4721.1	4733.9	4698.2	4634.5	4644.7	4723.7	*4739.0*	4764.5	4744.1	4672.7	4537.6
27.5°	4968.4	4976.1	4884.3	4754.3	4723.7	4807.8	*4830.8*	4871.5	4856.2	4790.0	4685.4
30°	5542.0	5536.9	5340.6	5021.9	4894.5	4927.6	*4945.5*	5004.1	5009.2	4965.9	4866.4
32.5°	6350.1	6324.6	6021.2	5513.9	5144.3	5062.7	*5083.1*	5162.1	5220.8	5174.9	5039.8
35°	7204.1	7181.1	6847.2	6253.2	5605.7	5322.7	*5299.8*	5361.0	5450.2	5322.7	5129.0
37.5°	8017.3	7981.6	7640.0	6905.8	6174.2	5779.1	*5745.9*	5684.7	5631.2	5386.5	5238.6
40°	8919.7	8878.9	8580.6	7749.6	6801.3	6128.3	*6044.2*	5802.0	5753.6	5598.1	5524.1
42.5°	9883.3	9883.3	9636.0	8817.7	7558.4	6627.9	*6518.3*	6153.8	6204.8	6102.8	6016.1
45°	10846.9	10874.9	10678.6	9893.5	8570.4	7571.2	*7395.3*	6877.8	7000.1	6954.2	6910.9
47.5°	11667.7	11721.3	11683.0	10992.2	9809.4	8718.3	*8450.6*	7912.7	8175.3	8284.9	8407.3
50°	12552.3	12610.9	12572.7	12299.9	11259.9	10107.6	*9868.0*	9312.3	9763.5	10092.3	10492.5
52.5°	13865.1	13949.3	13630.6	13526.1	13021.4	11685.6	*11471.4*	10839.2	11657.5	12203.1	13095.3
55°	14974.1	14971.5	14859.3	15099.0	14912.9	13615.3	*13378.2*	12804.7	13849.9	14428.5	15733.7
57.5°	15489.0	15550.2	15935.1	16613.2	16985.4	15973.3	*15746.5*	15160.1	16202.8	16503.6	17913.3
60°	15754.1	15830.6	16575.0	17915.8	18917.7	18548.0	*18458.8*	17711.9	18298.2	18262.5	19751.3
62.5°	15381.9	15534.9	16730.5	18512.4	20296.8	21135.5	*21107.5*	19978.2	20080.1	19730.9	20890.8
65°	13674.0	13839.7	15715.9	18214.1	21084.5	23103.5	*23111.1*	22030.3	21449.0	20444.7	20699.6
67.5°	*9778.8*	*10015.8*	*12335.6*	*16297.1*	*20806.6*	*24166.5*	*24255.7*	*22960.7*	*21770.2*	*19812.5*	*18690.8*
70°	5330.4	5503.7	7321.3	11846.2	18303.3	23911.6	*24077.3*	22512.1	20352.9	17138.3	14387.7
72.5°	2421.7	2477.8	3405.7	6500.5	12503.9	20582.3	*21275.7*	20090.3	16715.2	12659.4	9149.1
75°	1108.9	1134.4	1483.6	3110.0	6533.6	13773.4	*14260.3*	14963.9	11632.0	7994.3	4769.6
77.5°	695.9	703.6	843.8	1422.5	3257.9	6875.2	*7387.6*	8909.5	6811.5	3956.4	1993.5
80°	410.4	418.1	525.1	769.9	1529.5	3145.7	*3632.6*	3523.0	3201.8	1708.0	907.5
82.5°	206.5	214.1	303.4	438.5	833.6	1251.7	*1473.4*	1481.1	1193.0	925.4	512.4
85°	73.9	76.5	99.4	173.3	354.3	413.0	*461.4*	563.4	583.8	537.9	247.3
87.5°	0.0	0.0	2.5	5.1	10.2	40.8	*43.3*	81.6	170.8	191.2	99.4
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: P643457
CATALOG NUMBER: GWS-SA6E-830-U-T4W-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0	3495.0
2.5°	3505.2	3466.9	3454.2	3441.4	3421.0	3413.4	3398.1	3382.8	3382.8	3367.5	3359.9
5°	3523.0	3472.0	3438.9	3423.6	3410.8	3418.5	3418.5	3423.6	3441.4	3431.2	3436.3
7.5°	3586.7	3528.1	3482.2	3469.5	3469.5	3500.1	3520.5	3545.9	3579.1	3584.2	3584.2
10°	3698.9	3630.1	3581.6	3574.0	3586.7	3630.1	3660.7	3691.3	3732.0	3734.6	3739.7
12.5°	3821.3	3752.4	3704.0	3714.2	3726.9	3783.0	3816.2	3841.7	3882.4	3882.4	3879.9
15°	3948.7	3872.2	3831.5	3851.9	3890.1	3953.8	3958.9	3961.5	3981.9	3976.8	3974.2
17.5°	4081.3	3999.7	3969.1	3999.7	4040.5	4071.1	4045.6	4009.9	4002.3	3992.1	3987.0
20°	4211.3	4127.2	4114.4	4137.4	4150.1	4124.6	4045.6	3979.3	3948.7	3933.4	3928.3
22.5°	4323.5	4252.1	4244.4	4244.4	4180.7	4091.5	3974.2	3885.0	3844.2	3823.8	3818.7
25°	4456.0	4389.7	4377.0	4308.2	4145.0	3981.9	3823.8	3742.2	3709.1	3698.9	3701.5
27.5°	4611.5	4565.6	4524.8	4328.6	4043.0	3788.1	3609.7	3574.0	3561.2	3574.0	3581.6
30°	4802.7	4756.8	4665.1	4303.1	3879.9	3535.8	3365.0	3362.4	3400.6	3433.8	3438.9
32.5°	4958.2	4937.8	4787.4	4221.5	3650.5	3257.9	3112.6	3122.8	3191.6	3237.5	3245.1
35°	5080.6	5113.7	4889.4	4086.4	3377.7	2995.3	2880.6	2885.7	2923.9	2987.7	2990.2
37.5°	5253.9	5366.1	4981.2	3879.9	3064.1	2768.4	2663.9	2625.7	2620.6	2638.4	2643.5
40°	5603.2	5771.4	5047.4	3579.1	2760.8	2564.5	2447.2	2373.3	2309.6	2261.1	2245.9
42.5°	6130.8	6324.6	5085.7	3214.6	2490.6	2363.1	2230.6	2136.2	2024.1	1922.1	1886.4
45°	7099.5	7163.3	5085.7	2827.1	2251.0	2174.5	2041.9	1929.8	1787.0	1667.2	1641.7
47.5°	8649.5	8445.5	5090.8	2452.3	2039.4	2008.8	1894.1	1766.6	1608.6	1509.1	1493.8
50°	10984.5	10268.2	5195.3	2141.3	1863.5	1868.6	1784.4	1644.2	1501.5	1427.6	1414.8
52.5°	13630.6	12514.1	5475.7	1911.9	1715.6	1753.9	1708.0	1572.9	1445.4	1381.7	1368.9
55°	16118.6	14578.9	5715.3	1748.8	1590.7	1657.0	1654.4	1529.5	1414.8	1351.1	1343.4
57.5°	18234.5	15993.7	5679.6	1616.2	1483.6	1567.8	1606.0	1501.5	1394.4	1340.9	1333.2
60°	19549.9	16743.2	5172.3	1493.8	1402.1	1504.0	1578.0	1493.8	1404.6	1391.9	1394.4
62.5°	20120.9	16605.5	4198.5	1402.1	1348.5	1473.4	1608.6	1547.4	1498.9	1529.5	1547.4
65°	19233.8	15422.7	3089.6	1333.2	1297.5	1481.1	1679.9	1631.5	1498.9	1519.3	1527.0
67.5°	*16771.2*	*13128.4*	*2233.1*	*1264.4*	*1233.8*	*1504.0*	*1781.9*	*1618.7*	*1412.3*	*1412.3*	*1397.0*
70°	12085.8	9442.3	1621.3	1195.6	1170.1	1470.9	1787.0	1532.1	1312.8	1305.2	1267.0
72.5°	7272.9	5570.0	1264.4	1119.1	1073.2	1305.2	1674.8	1430.1	1216.0	1152.2	1106.4
75°	3777.9	2791.4	1060.5	1035.0	920.3	1106.4	1532.1	1272.1	1040.1	984.0	958.5
77.5°	1618.7	1305.2	910.1	922.8	764.8	930.5	1236.4	1101.3	922.8	851.4	828.5
80°	797.9	741.8	718.9	739.3	611.8	718.9	1065.6	963.6	782.6	701.0	667.9
82.5°	456.3	433.4	517.5	525.1	435.9	601.6	899.9	815.7	647.5	558.3	504.7
85°	211.6	226.9	313.6	316.1	270.2	413.0	588.9	458.9	344.1	285.5	272.8
87.5°	84.1	99.4	137.7	135.1	79.0	76.5	51.0	28.0	22.9	20.4	17.8
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

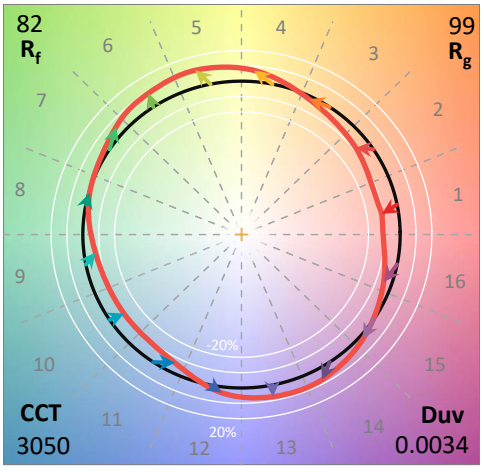
Test Information

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

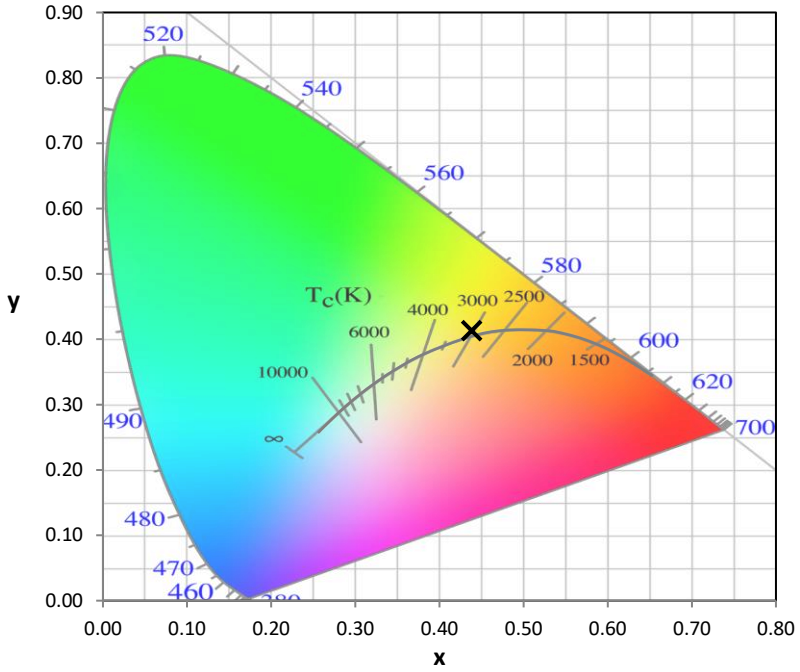
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

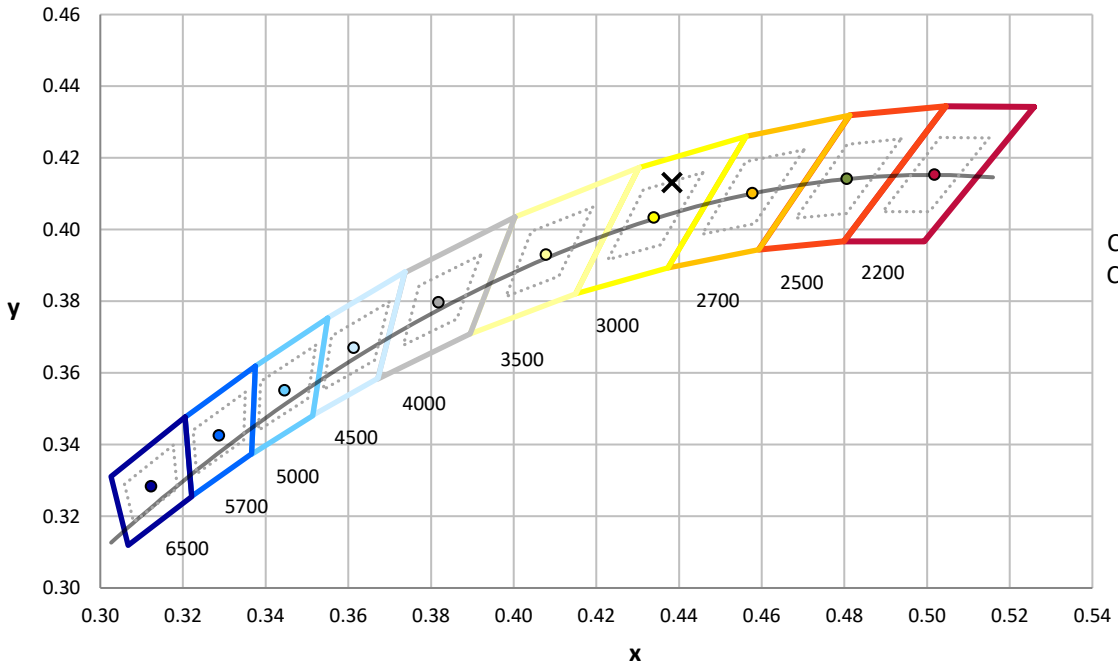
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

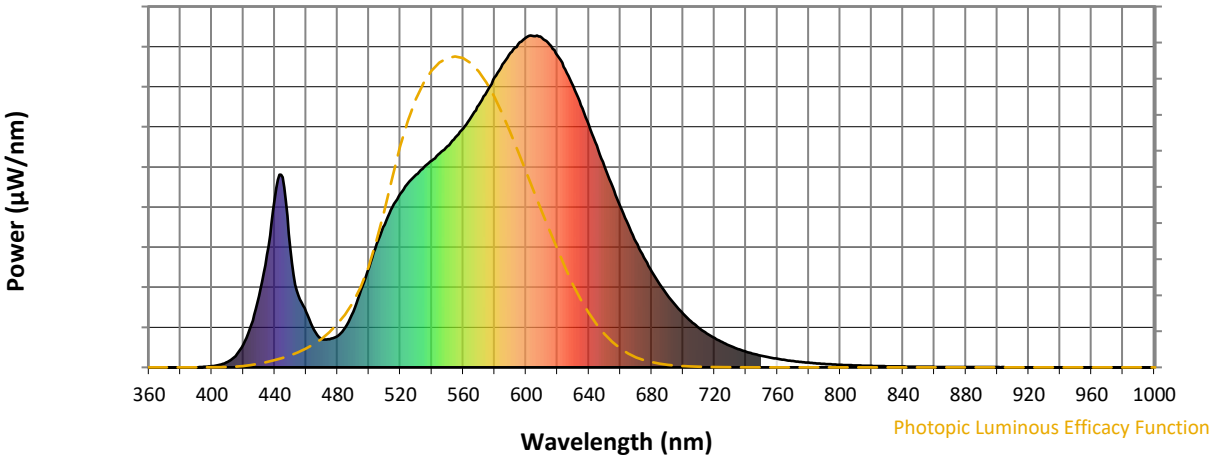


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

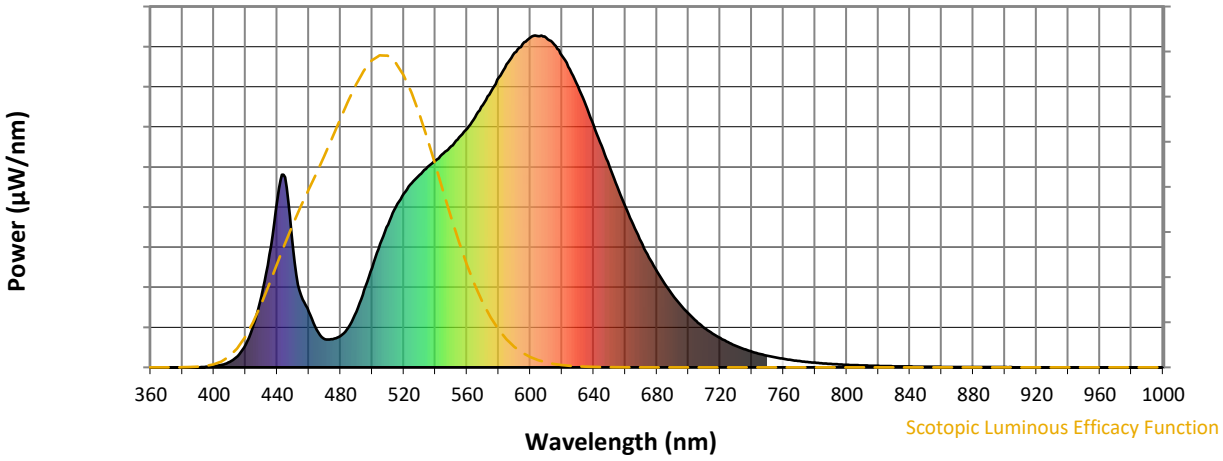


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

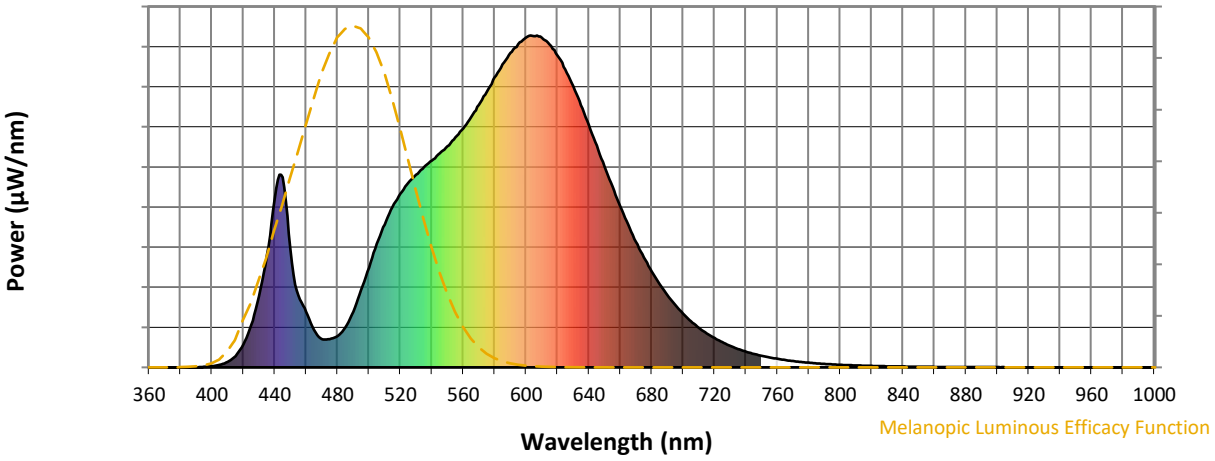


Scotopic Lumens: NR **S/P: 1.27**

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			

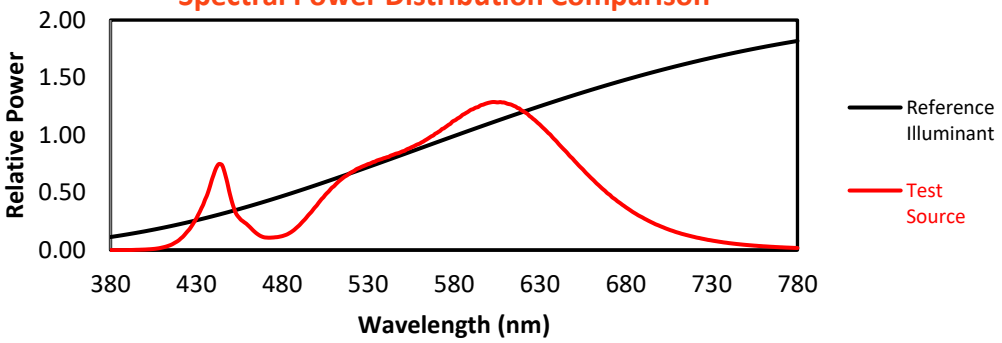
REPORT NUMBER: SP1-2408-195-9

TM-30-18

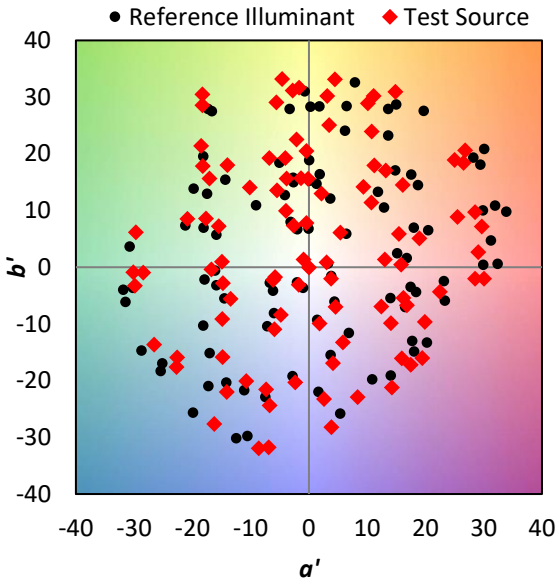
Summary

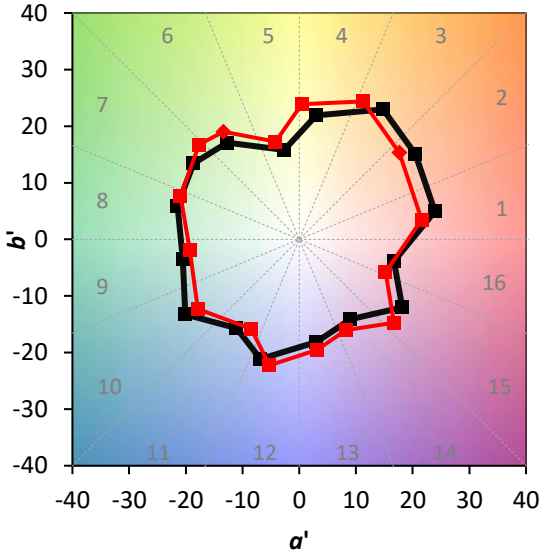
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

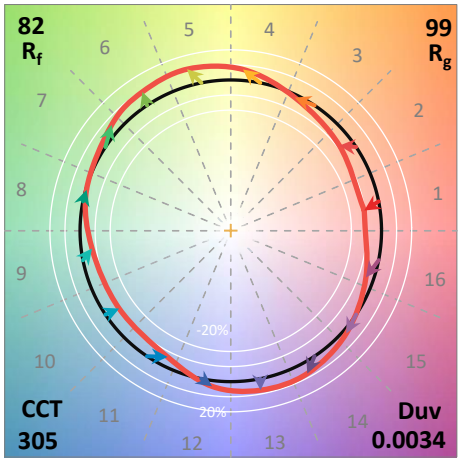
Spectral Power Distribution Comparison

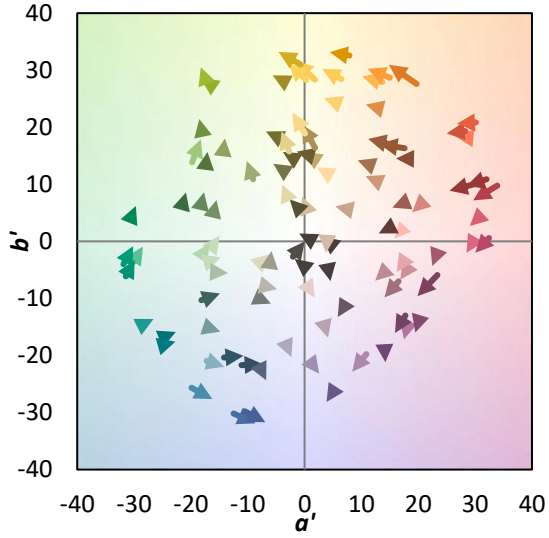


Color Vector Graphics







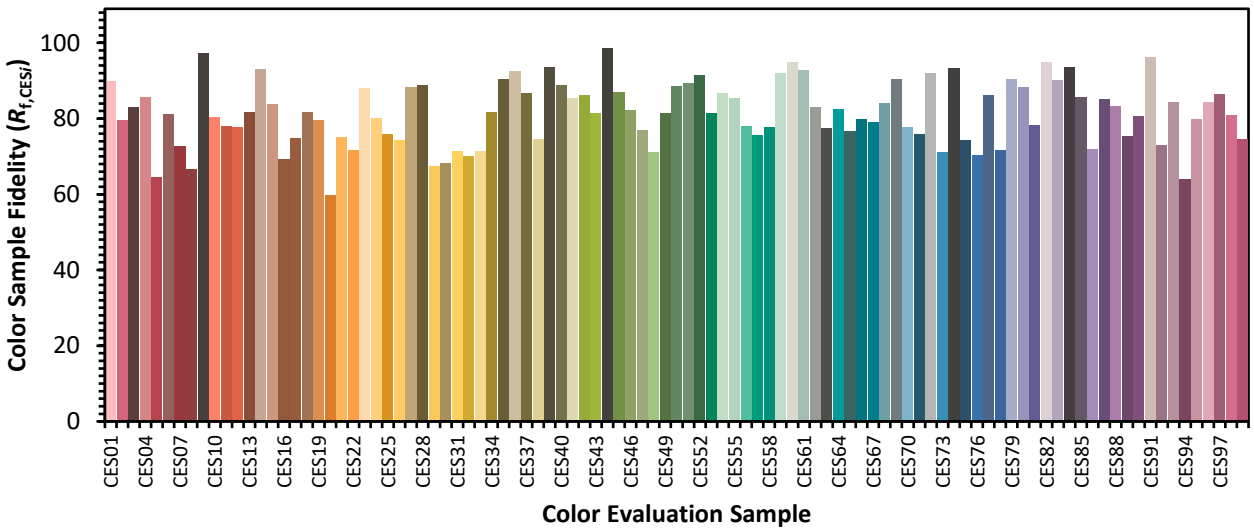


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

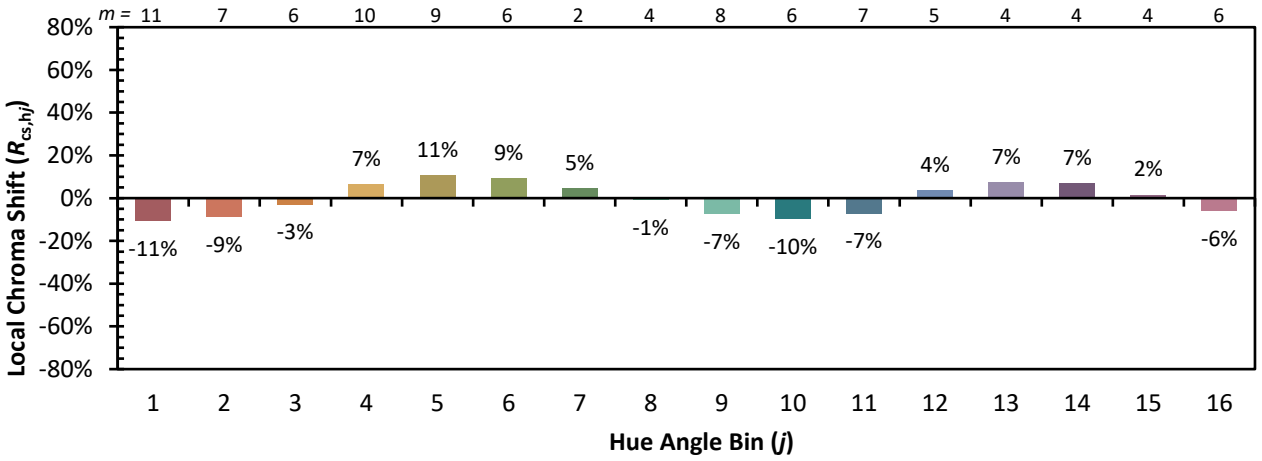
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

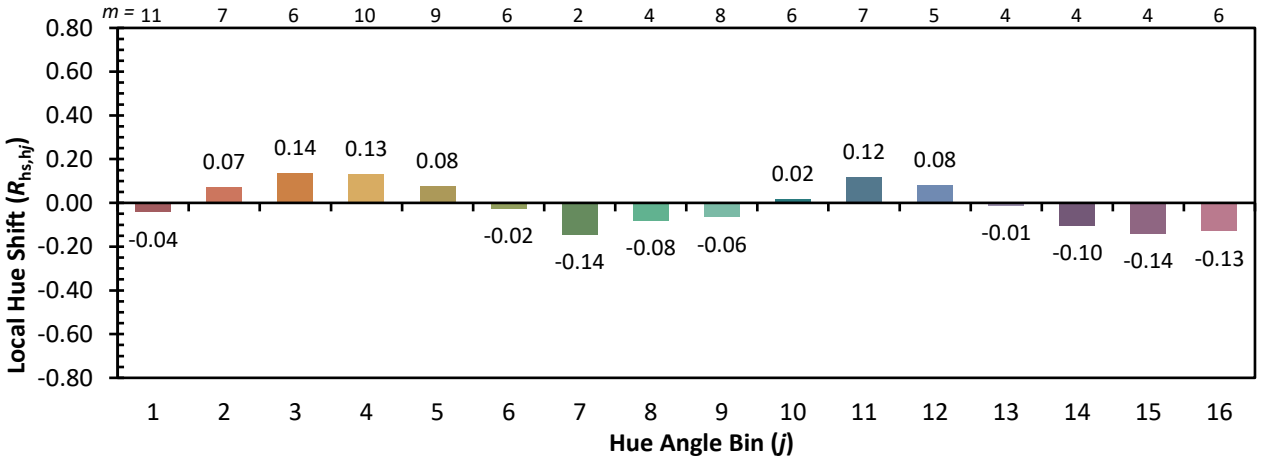


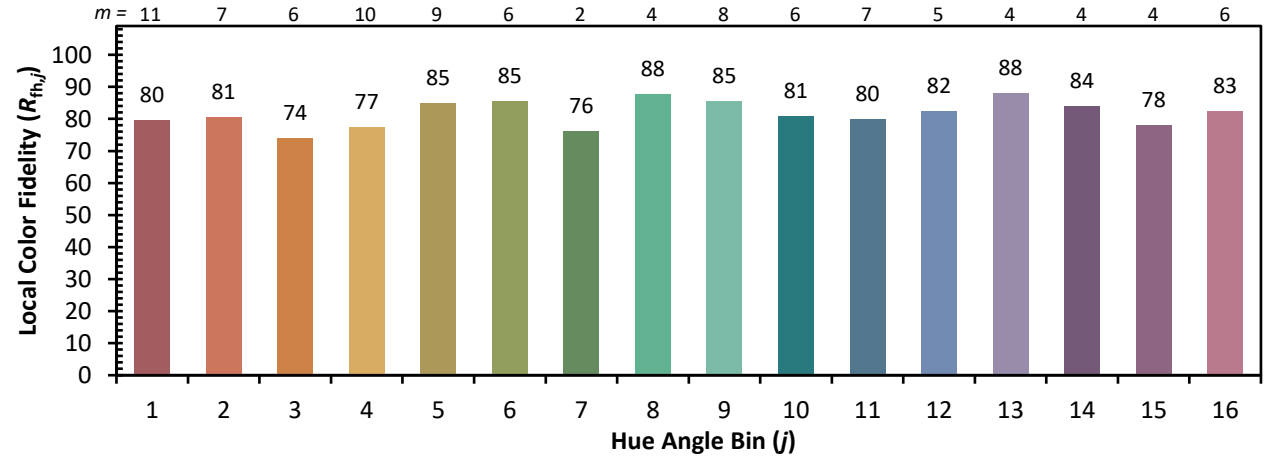
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



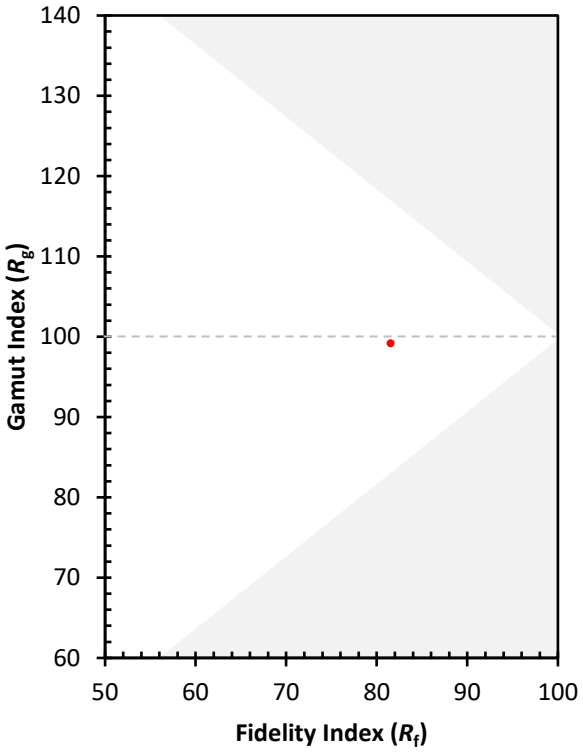


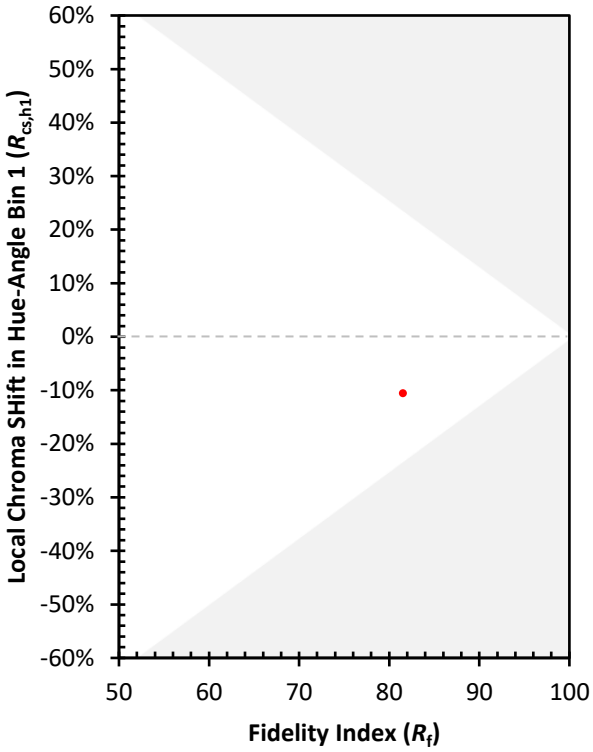


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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