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: P643946

Luminaire Tested: GWS-SA6F-830-U-T3R-W-GRSWH

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:	P643946
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6F-830-U-T3R-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	34663.2 lumens
Efficiency:	N/A
Efficacy:	93.0 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B4 - U0 - G3

Input Watts (W):	372.6
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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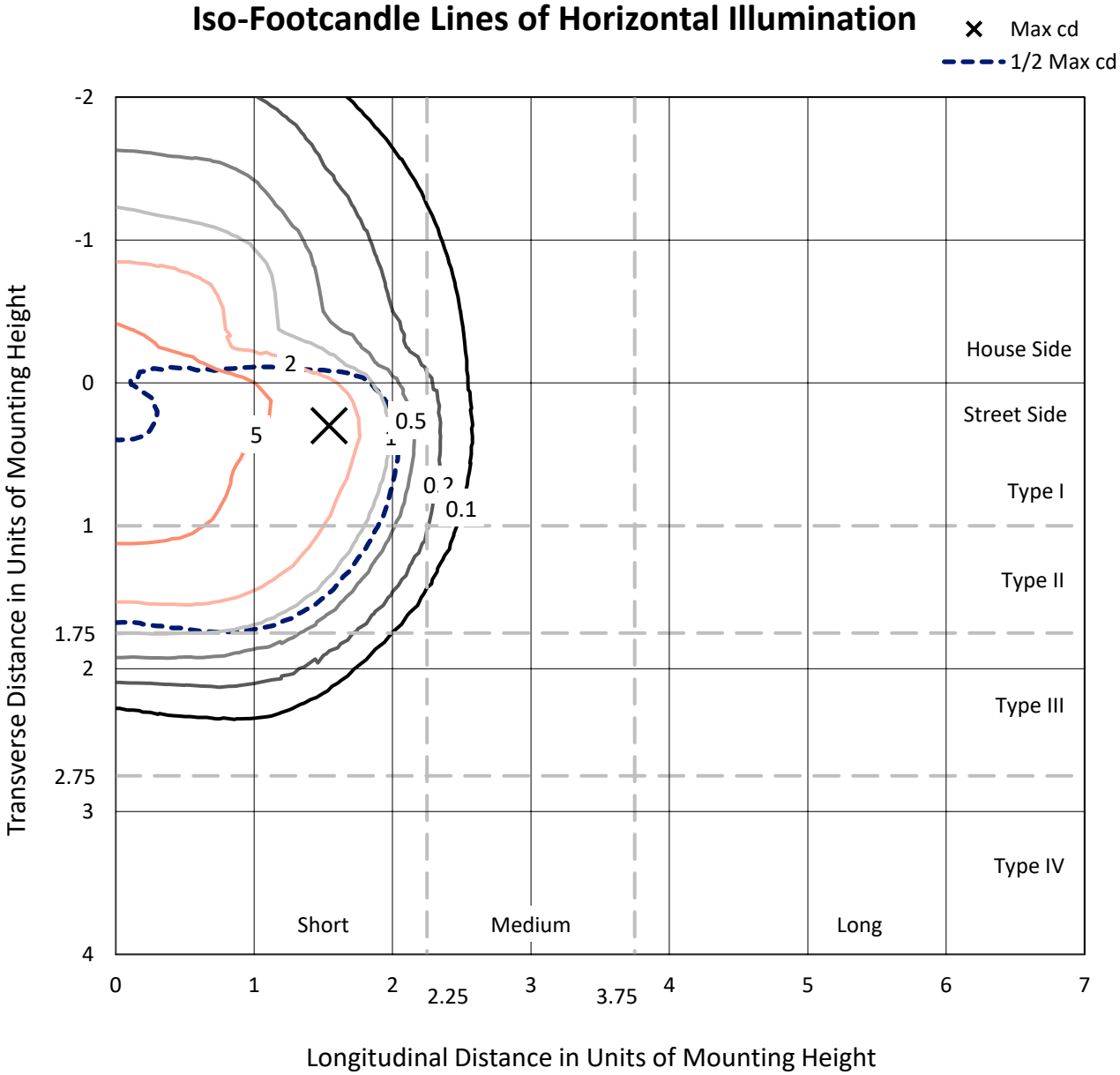
REPORT NUMBER: P643946
CATALOG NUMBER: GWS-SA6F-830-U-T3R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
Type II - Short - N/A

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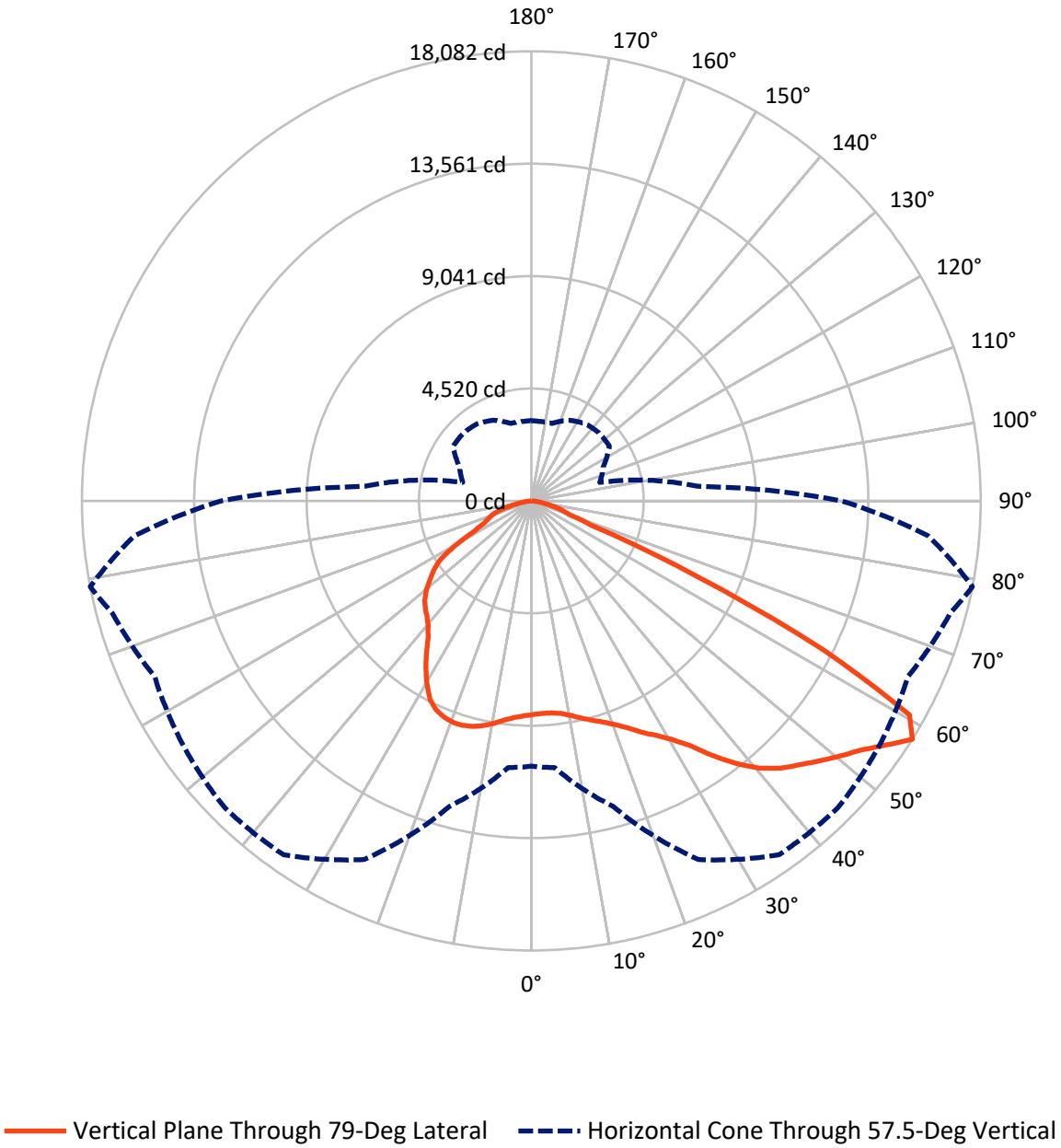
Luminous Intensity Polar Plot



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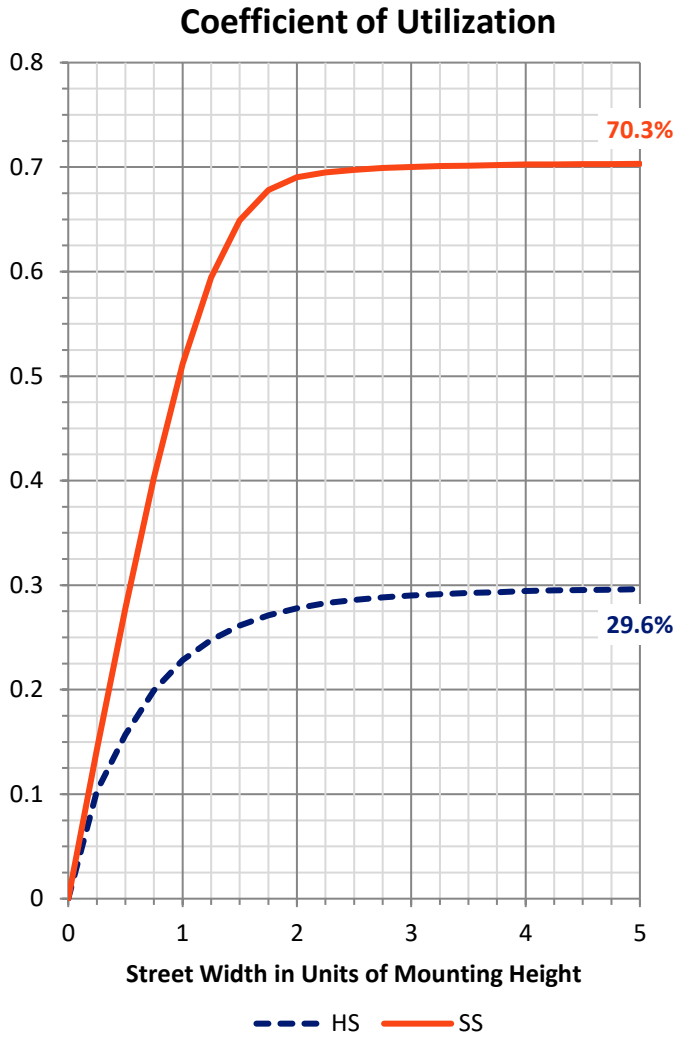
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10303.8	0.0	10303.8
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	24359.4	0.0	24359.4
	% Fixture	70.3	0.0	70.3
Total	Lumens	34663.2	0.0	34663.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.5	2.3
10°-20°	2210.8	6.4
20°-30°	3747.4	10.8
30°-40°	5735.9	16.5
40°-50°	7648.3	22.1
50°-60°	8833.2	25.5
60°-70°	4590.0	13.2
70°-80°	975.7	2.8
80°-90°	126.4	0.4
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°	34663.2	100.0
0°-180°	34663.2	100.0



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REPORT NUMBER: P643946
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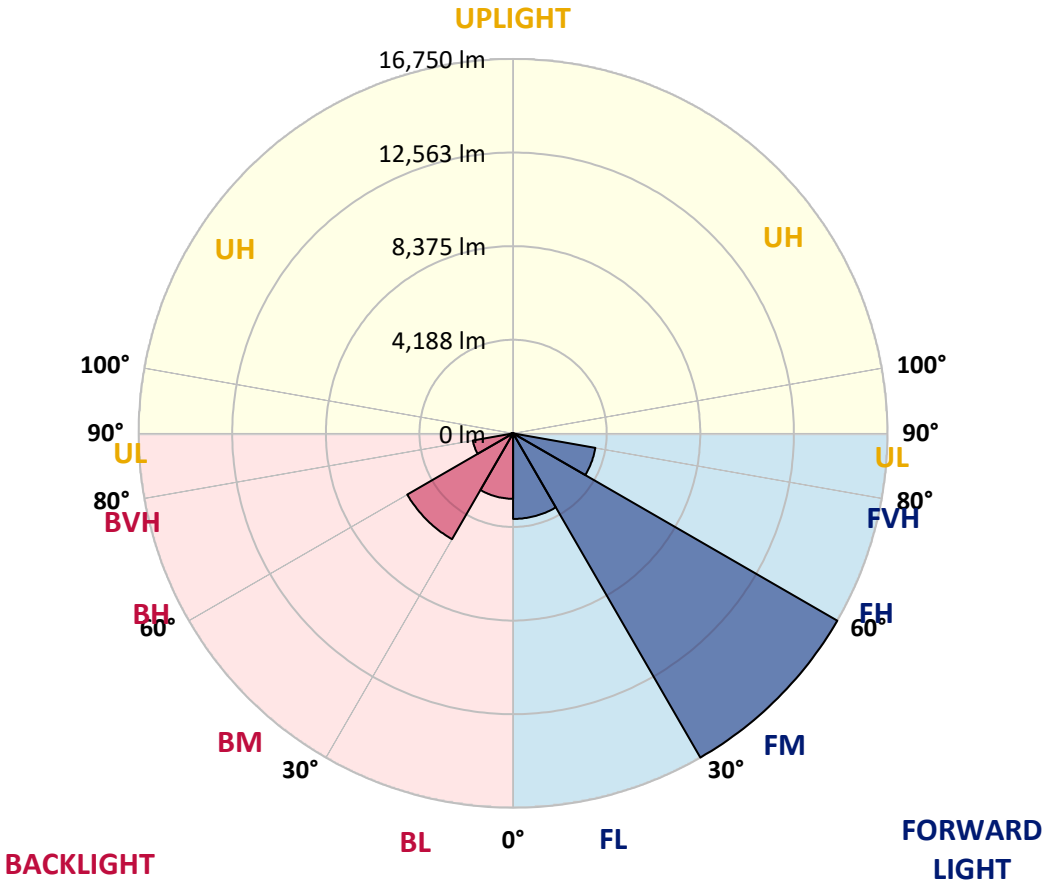
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3827.6	11.0			
FM	(30°-60°)	16750.2	48.3			
FH	(60°-80°)	3737.5	10.8			G2/5000
FVH	(80°-90°)	44.1	0.1			G1/100
BL	(0°-30°)	2926.2	8.4	B4/5000		
BM	(30°-60°)	5467.1	15.8	B4/8500		
BH	(60°-80°)	1828.2	5.3	B3/2500		G3/2500
BVH	(80°-90°)	82.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
Type II Short



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REPORT NUMBER: P643946
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	*8590.3*	8590.3
2.5°	8199.2	8182.2	8187.9	8210.6	8295.6	8357.9	8423.1	8482.6	8539.3	*8556.3*	8570.5
5°	7907.3	7876.1	7884.6	7921.5	8020.7	8125.5	8241.7	8383.4	8519.5	*8564.8*	8624.4
7.5°	7700.4	7694.7	7708.9	7765.6	7870.5	7969.7	8119.9	8321.1	8556.3	*8632.9*	8737.7
10°	7425.5	7414.2	7470.8	7587.0	7759.9	7918.6	8097.2	8335.3	8664.0	*8777.4*	8938.9
12.5°	7207.3	7201.6	7261.1	7422.7	7643.7	7896.0	8142.5	8409.0	8808.6	*8964.5*	9162.8
15°	7334.8	7309.3	7312.1	7425.5	7623.9	7921.5	8255.9	8542.2	8953.1	*9151.5*	9406.6
17.5°	7706.1	7660.7	7626.7	7646.6	7759.9	8068.9	8428.8	8720.7	9120.3	*9352.7*	9664.5
20°	8219.1	8193.6	8100.0	8037.7	8063.2	8335.3	8700.9	8973.0	9338.6	*9599.3*	9933.7
22.5°	8907.8	8845.4	8717.9	8618.7	8542.2	8754.7	9092.0	9327.2	9641.8	*9913.9*	10262.5
25°	9760.9	9670.2	9468.9	9313.1	9148.7	9366.9	9667.3	9845.9	10058.4	*10310.7*	10642.3
27.5°	10630.9	10554.4	10330.5	10120.8	9916.7	10052.8	10409.9	10511.9	10489.2	*10673.5*	10956.9
30°	11557.7	11461.3	11248.8	11022.1	10758.5	10846.3	11166.6	11217.6	10976.7	*11129.8*	11322.5
32.5°	12535.5	12442.0	12257.7	11994.2	11696.6	11730.6	11818.5	11866.6	11637.1	*11724.9*	11872.3
35°	13530.3	13442.4	13255.4	12994.6	12776.4	12569.5	12348.4	12541.2	12408.0	*12578.0*	12566.7
37.5°	14440.1	14352.2	14236.0	14034.8	13660.7	13252.5	12742.4	12980.5	13187.4	*13402.7*	13365.9
40°	15055.1	14995.5	15023.9	14992.7	14510.9	13703.2	12935.1	13195.9	13759.9	*14128.3*	14108.5
42.5°	15585.1	15525.5	15689.9	15809.0	15242.1	14119.8	13028.6	13278.0	14125.5	*14700.8*	14672.5
45°	15820.3	15803.3	16075.4	16452.3	15911.0	14561.9	13269.5	13448.1	14403.2	*15140.1*	15032.4
47.5°	15539.7	15599.2	16134.9	16772.6	16466.5	15086.2	13762.7	13808.0	14766.0	*15616.2*	15313.0
50°	14981.4	15111.7	15834.5	16781.1	16871.8	15678.6	14445.7	14332.4	15253.5	*16123.5*	15460.3
52.5°	14168.0	14304.0	15483.0	16715.9	17104.2	16364.4	15355.5	15193.9	15868.5	*16630.9*	15485.9
55°	12300.3	12484.5	14678.1	16568.5	17330.9	16988.0	16381.5	16052.7	16662.0	*17328.1*	15738.1
57.5°	*10670.6*	*10767.0*	*12716.9*	*15913.8*	*17376.2*	*17447.1*	*17112.7*	*16721.6*	*17449.9*	*18081.9*	*16021.5*
60°	7830.8	7853.5	9607.8	13167.5	15984.7	17180.7	17053.1	16472.1	17075.8	*17478.3*	14723.5
62.5°	4424.1	4427.0	5827.0	8788.7	11940.3	14003.6	14082.9	13570.0	13062.6	*13181.7*	10248.3
65°	1660.8	1816.7	2661.3	4319.3	6884.2	8267.2	8596.0	8715.0	7870.5	*7346.1*	5495.4
67.5°	1111.0	1147.8	1553.1	2222.0	3063.7	3537.0	3956.5	3967.8	2902.2	*2587.6*	2165.3
70°	847.4	884.3	1221.5	1590.0	1553.1	1434.1	1550.3	1507.8	1558.8	*1601.3*	1646.6
72.5°	632.0	668.9	946.6	1122.3	932.4	918.3	1040.1	1156.3	1264.0	*1309.4*	1380.2
75°	419.5	447.8	637.7	600.8	515.8	609.3	759.6	875.8	938.1	*992.0*	1045.8
77.5°	266.4	286.3	340.1	274.9	286.3	357.1	442.1	547.0	606.5	*660.4*	688.7
80°	121.9	119.0	116.2	130.4	161.5	209.7	266.4	328.8	374.1	*396.8*	413.8
82.5°	48.2	53.8	59.5	70.9	87.9	113.4	150.2	192.7	229.6	*235.2*	249.4
85°	19.8	22.7	25.5	31.2	39.7	51.0	62.4	87.9	110.5	*119.0*	127.5
87.5°	0.0	0.0	0.0	0.0	2.8	5.7	8.5	14.2	25.5	*28.3*	31.2
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: P643946
CATALOG NUMBER: GWS-SA6F-830-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3	8590.3
2.5°	8647.0	8610.2	8672.5	8715.0	8754.7	8712.2	8698.0	8661.2	8655.5	8655.5	8675.4
5°	8726.4	8700.9	8766.1	8791.6	8788.7	8695.2	8638.5	8564.8	8528.0	8528.0	8533.7
7.5°	8868.1	8853.9	8890.8	8851.1	8760.4	8570.5	8383.4	8227.6	8122.7	8068.9	8085.9
10°	9103.3	9086.3	9055.1	8907.8	8647.0	8253.1	7870.5	7587.0	7417.0	7320.6	7326.3
12.5°	9332.9	9304.6	9194.0	8868.1	8332.4	7706.1	7204.4	6887.0	6700.0	6586.6	6561.1
15°	9585.1	9511.4	9273.4	8664.0	7819.5	7037.2	6512.9	6170.0	5968.7	5900.7	5897.9
17.5°	9826.0	9695.7	9264.9	8301.3	7204.4	6337.2	5810.0	5597.5	5563.5	5594.6	5603.1
20°	10069.8	9860.0	9171.3	7799.6	6473.2	5640.0	5367.9	5455.8	5583.3	5668.3	5688.2
22.5°	10322.0	9996.1	8958.8	7153.4	5702.3	5169.5	5282.9	5475.6	5634.3	5747.7	5759.0
25°	10605.4	10123.6	8641.4	6362.7	5084.5	5039.1	5263.0	5467.1	5637.1	5767.5	5790.2
27.5°	10767.0	10126.5	8196.4	5549.3	4801.1	4988.1	5214.9	5407.6	5577.6	5719.3	5744.8
30°	10925.7	10049.9	7490.7	4888.9	4718.9	4928.6	5132.7	5311.2	5472.8	5611.6	5642.8
32.5°	11149.6	9979.1	6677.3	4509.2	4670.7	4871.9	5039.1	5197.9	5322.6	5384.9	5401.9
35°	11427.3	9888.4	5812.9	4344.8	4639.5	4826.6	4974.0	5059.0	4897.4	4863.4	4900.3
37.5°	11815.6	9803.4	4951.3	4273.9	4619.7	4809.6	4939.9	4721.7	4523.3	4444.0	4472.3
40°	12235.1	9755.2	4367.4	4217.2	4628.2	4826.6	4798.2	4475.1	4188.9	4021.7	4016.0
42.5°	12592.2	9681.5	3993.3	4180.4	4650.9	4891.8	4605.5	4256.9	3831.8	3732.6	3735.4
45°	12833.1	9494.4	3794.9	4140.7	4670.7	4905.9	4514.8	3956.5	3653.2	3590.9	3588.0
47.5°	12932.3	9154.3	3667.4	4078.4	4667.9	4789.7	4330.6	3831.8	3528.5	3511.5	3522.9
50°	12867.1	8596.0	3537.0	3956.5	4599.8	4667.9	4118.0	3721.3	3443.5	3537.0	3605.1
52.5°	12626.2	7873.3	3381.2	3789.3	4478.0	4529.0	4010.3	3653.2	3381.2	3505.9	3559.7
55°	12563.8	7286.6	3182.8	3571.0	4296.6	4282.4	3897.0	3619.2	3338.6	3290.5	3299.0
57.5°	*12481.6*	*6714.1*	*2854.0*	*3179.9*	*3837.5*	*3860.1*	*3789.3*	*3579.5*	*3228.1*	*3213.9*	*3228.1*
60°	10843.5	5146.8	2545.1	2743.5	3151.6	3273.5	3667.4	3505.9	3049.6	2990.0	2987.2
62.5°	7082.6	3117.6	2264.5	2392.0	2567.7	2709.5	3344.3	3293.3	2854.0	2817.2	2842.7
65°	3809.1	2222.0	2060.4	2137.0	2233.3	2341.0	2771.8	2933.4	2579.1	2448.7	2451.5
67.5°	1947.1	1890.4	1907.4	1961.2	2034.9	2088.8	2236.2	2377.9	2199.3	2088.8	2085.9
70°	1666.5	1711.8	1737.3	1768.5	1816.7	1808.2	1822.4	1847.9	1833.7	1779.9	1777.0
72.5°	1419.9	1490.8	1496.4	1502.1	1519.1	1479.4	1453.9	1411.4	1414.2	1422.7	1425.6
75°	1079.8	1147.8	1164.8	1156.3	1173.3	1122.3	1088.3	1045.8	994.8	986.3	992.0
77.5°	702.9	756.7	782.2	776.6	785.1	745.4	728.4	683.0	623.5	600.8	600.8
80°	425.1	456.3	476.1	481.8	490.3	462.0	433.6	393.9	368.4	342.9	342.9
82.5°	257.9	277.7	291.9	291.9	300.4	269.2	246.6	218.2	206.9	184.2	184.2
85°	130.4	144.5	150.2	147.4	141.7	116.2	107.7	93.5	87.9	76.5	76.5
87.5°	31.2	39.7	39.7	28.3	28.3	14.2	8.5	2.8	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

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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

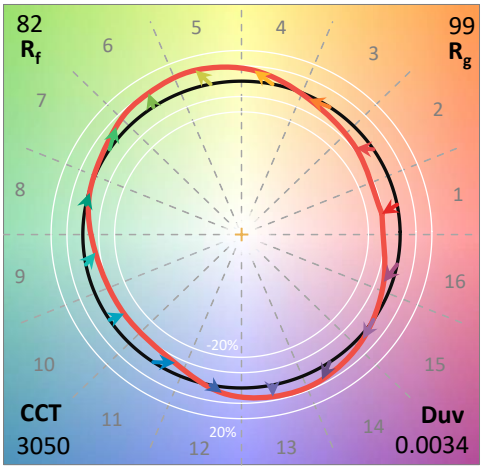
Test Information

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

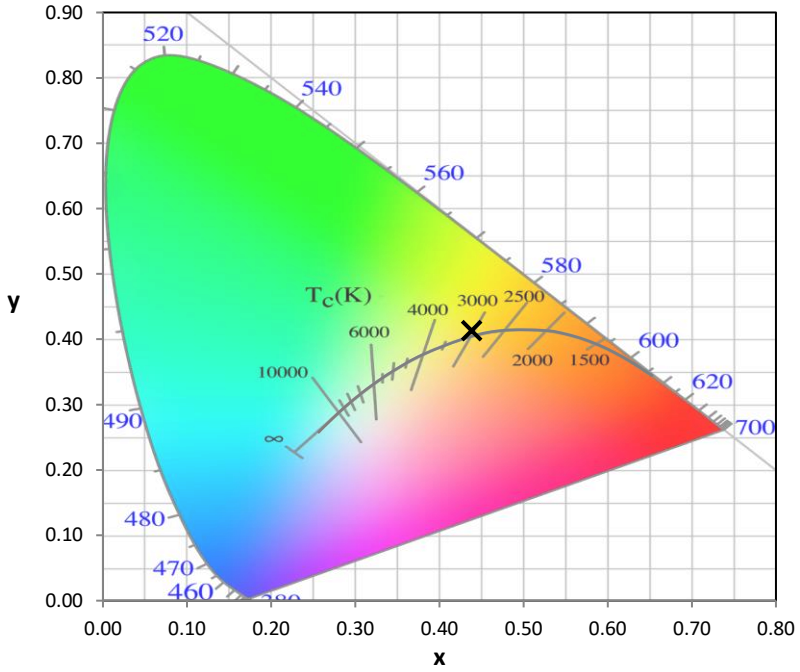
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

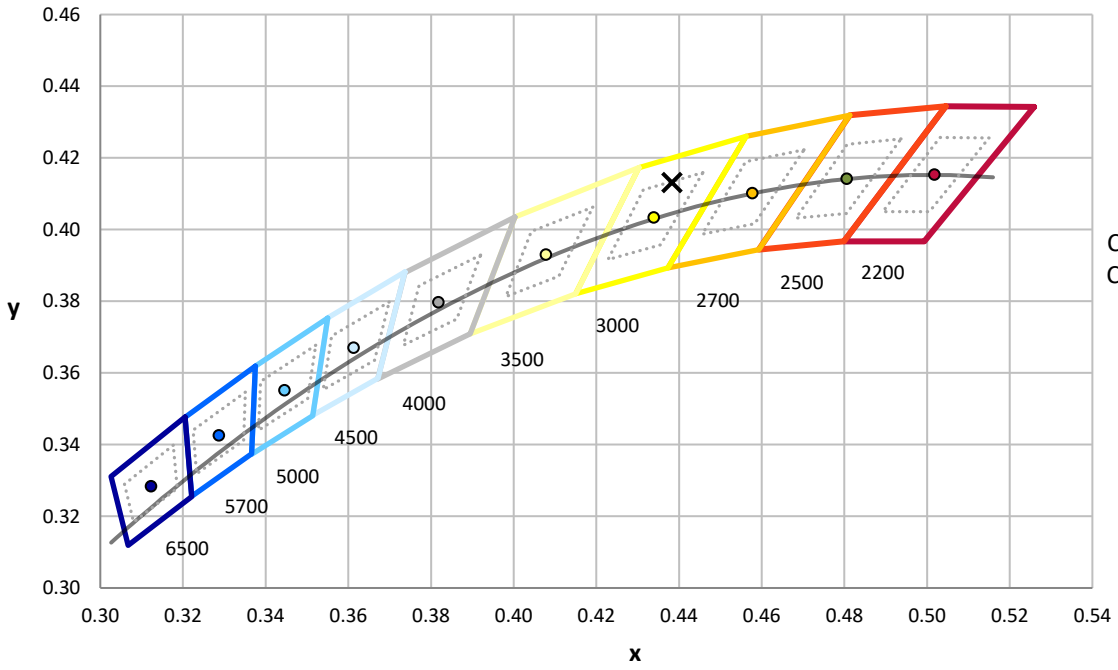
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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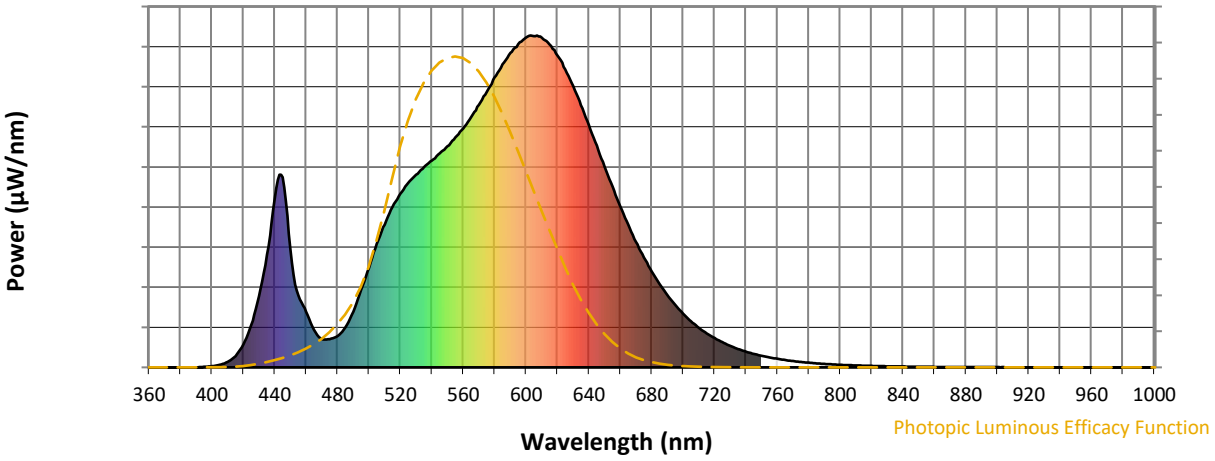
Photopic Flux vs. Wavelength



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			

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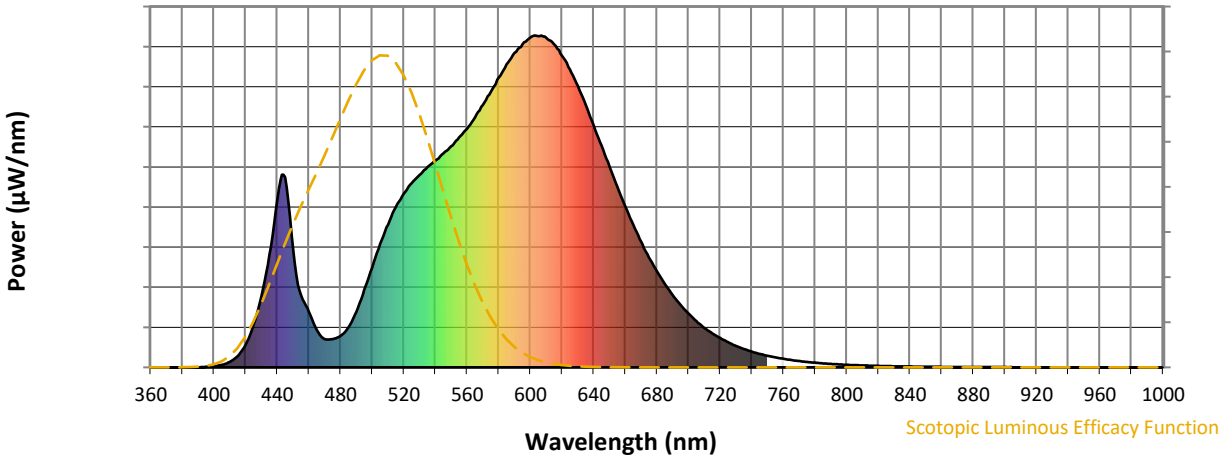
Scotopic Flux vs. Wavelength



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			

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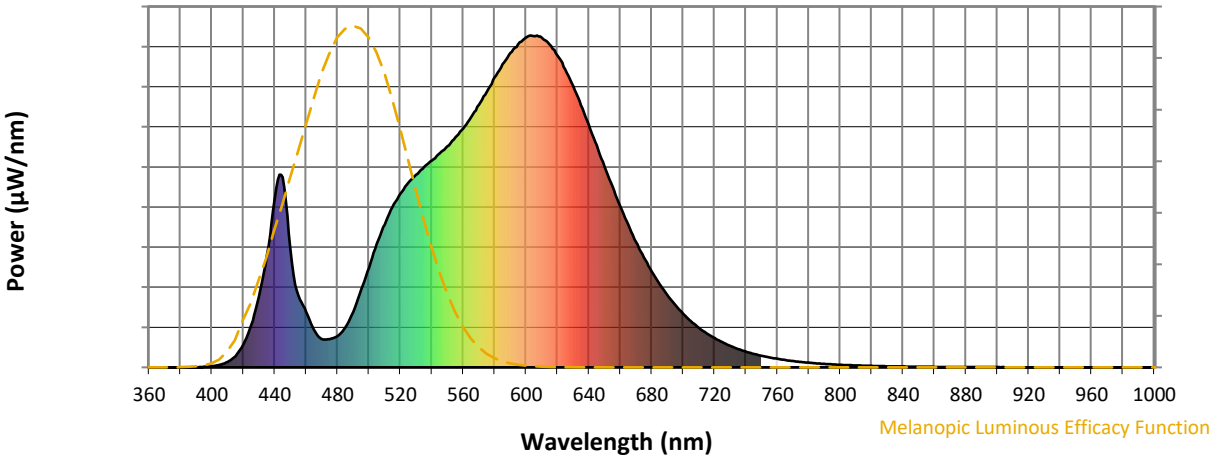
Melanopic Flux vs. Wavelength



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			

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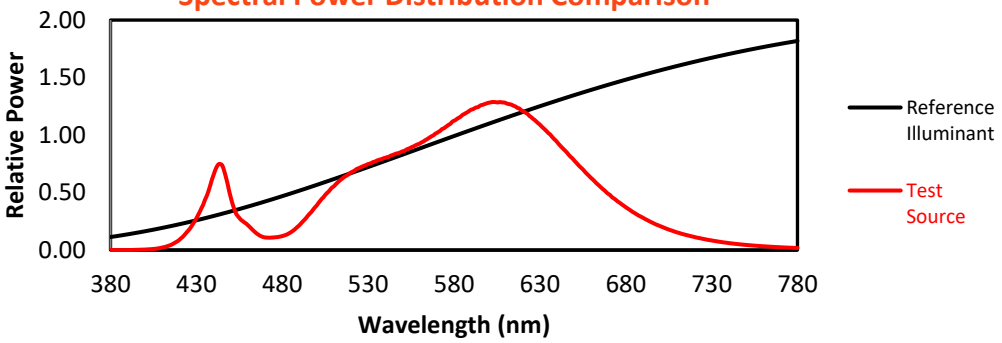
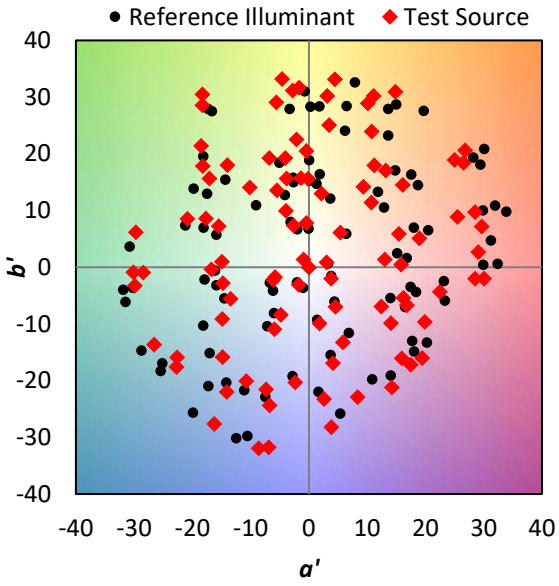
Summary

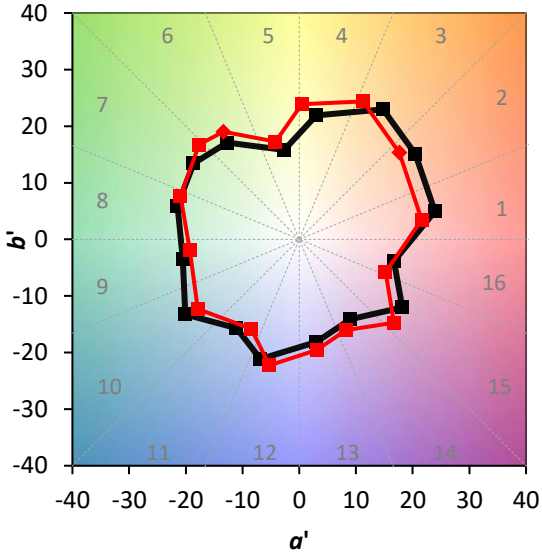
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

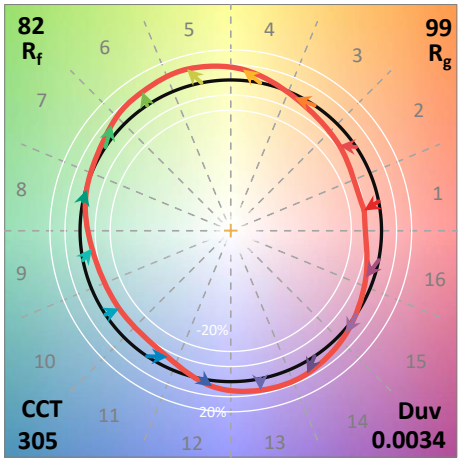
Spectral Power Distribution Comparison

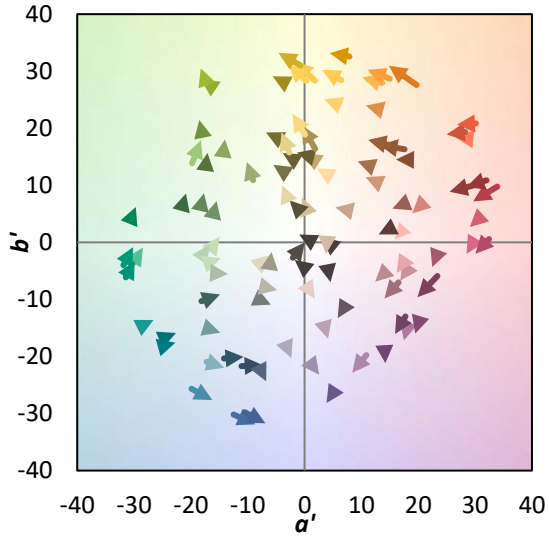


Color Vector Graphics









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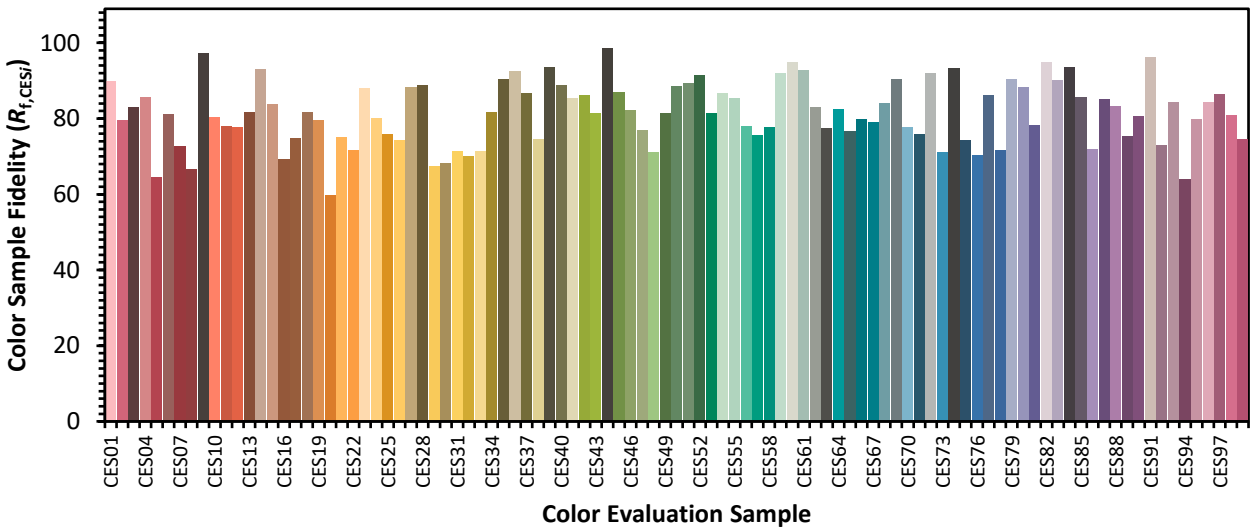
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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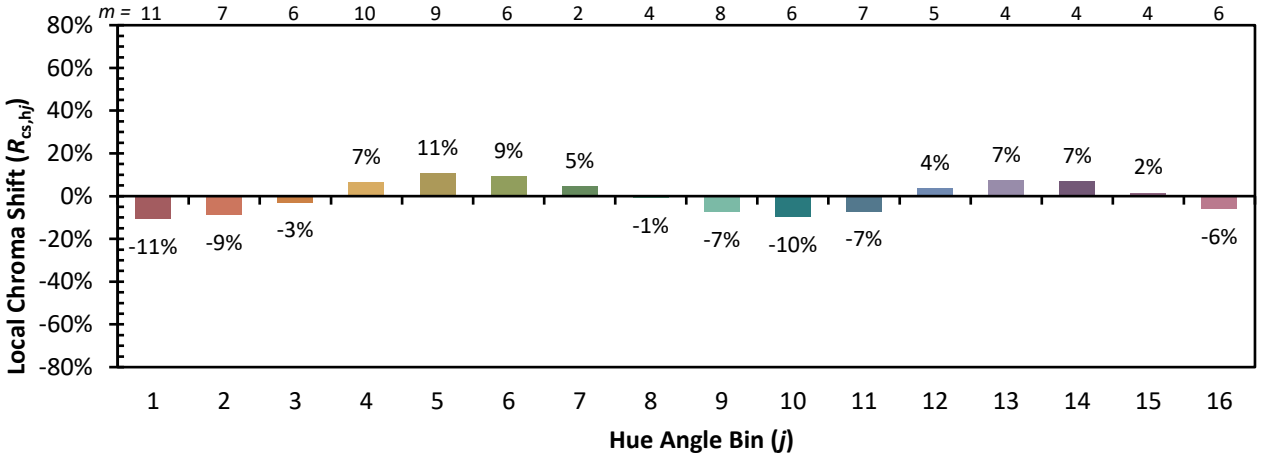
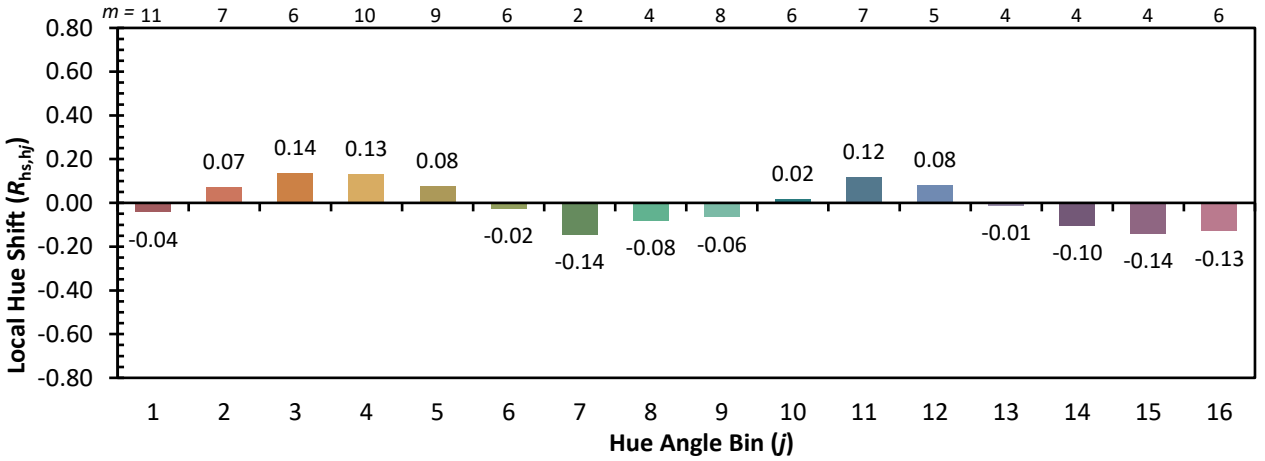
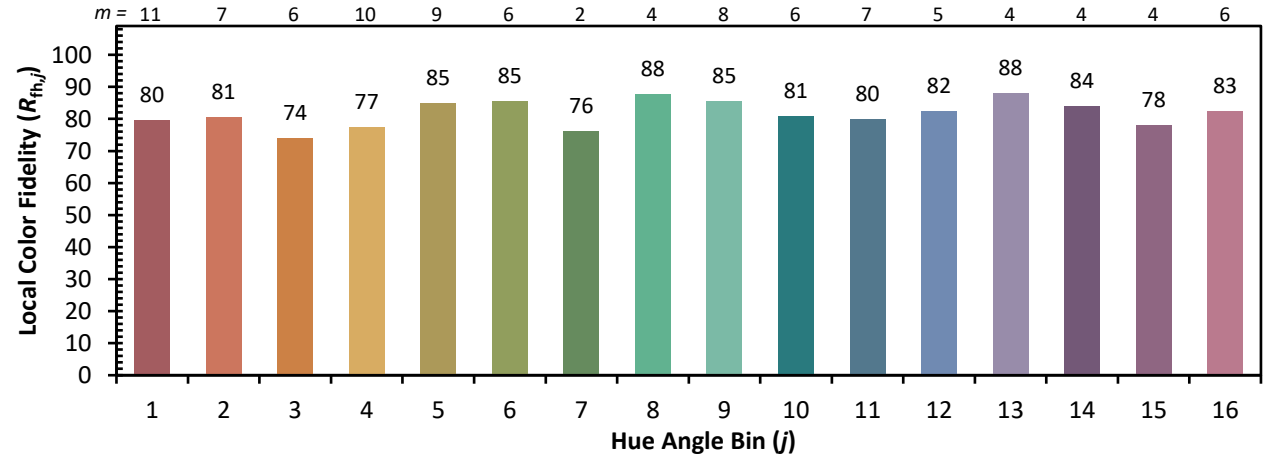
Color Rendition by Hue-Angle Bin







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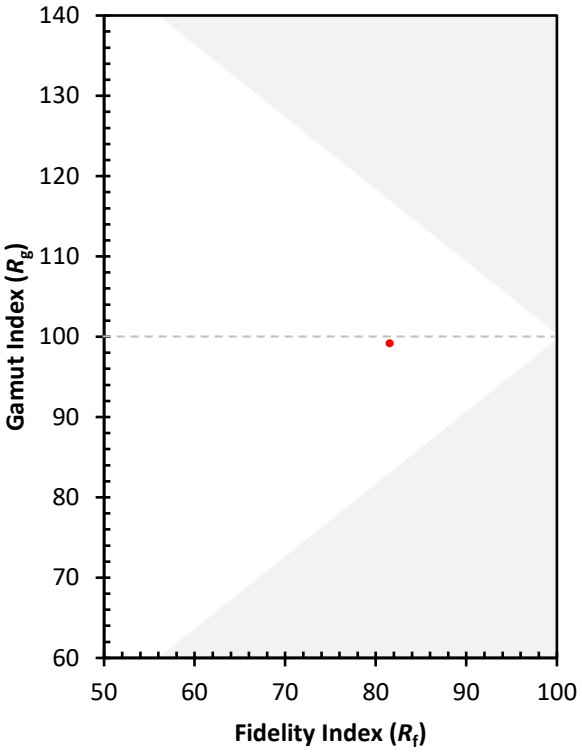
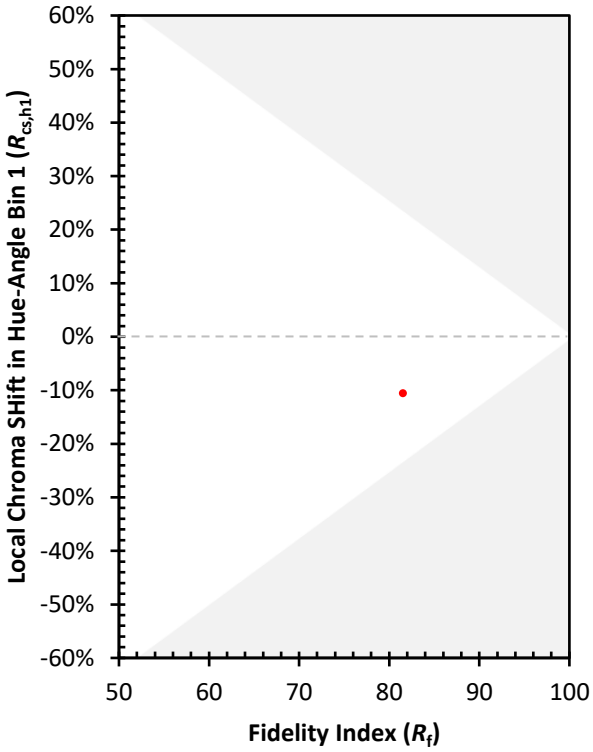
Measure Comparisons





(END OF REPORT)