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: P640453

Luminaire Tested: GWS-SA5D-830-U-SL3-W-GRSBK

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:	P640453
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5D-830-U-SL3-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13958 lumens
Efficiency:	N/A
Efficacy:	68.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G1

Input Watts (W):	204.6
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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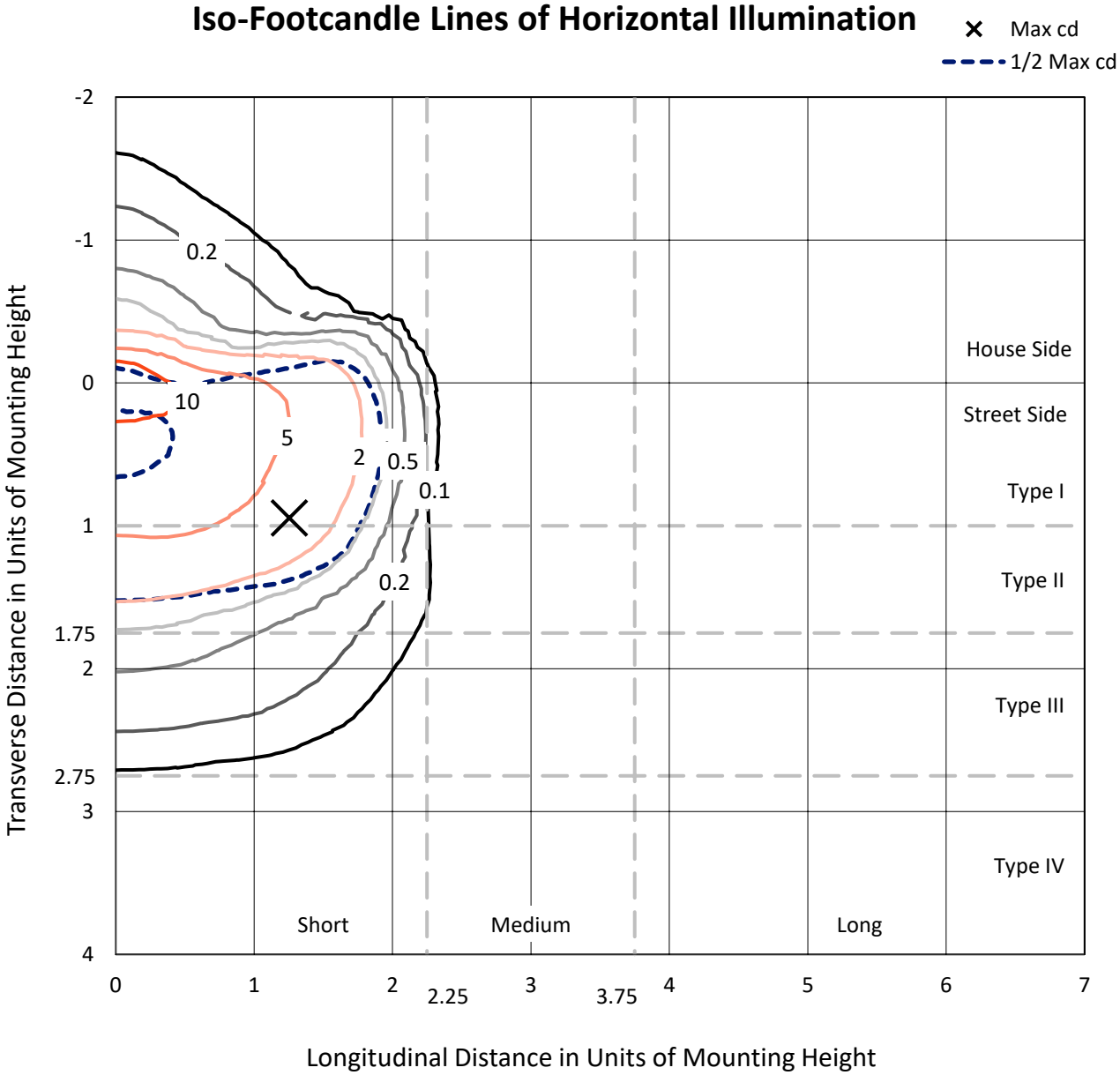
Scaled Data Report

REPORT NUMBER: P640453
CATALOG NUMBER: GWS-SA5D-830-U-SL3-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 15.3 fc
Type II - Short - N/A

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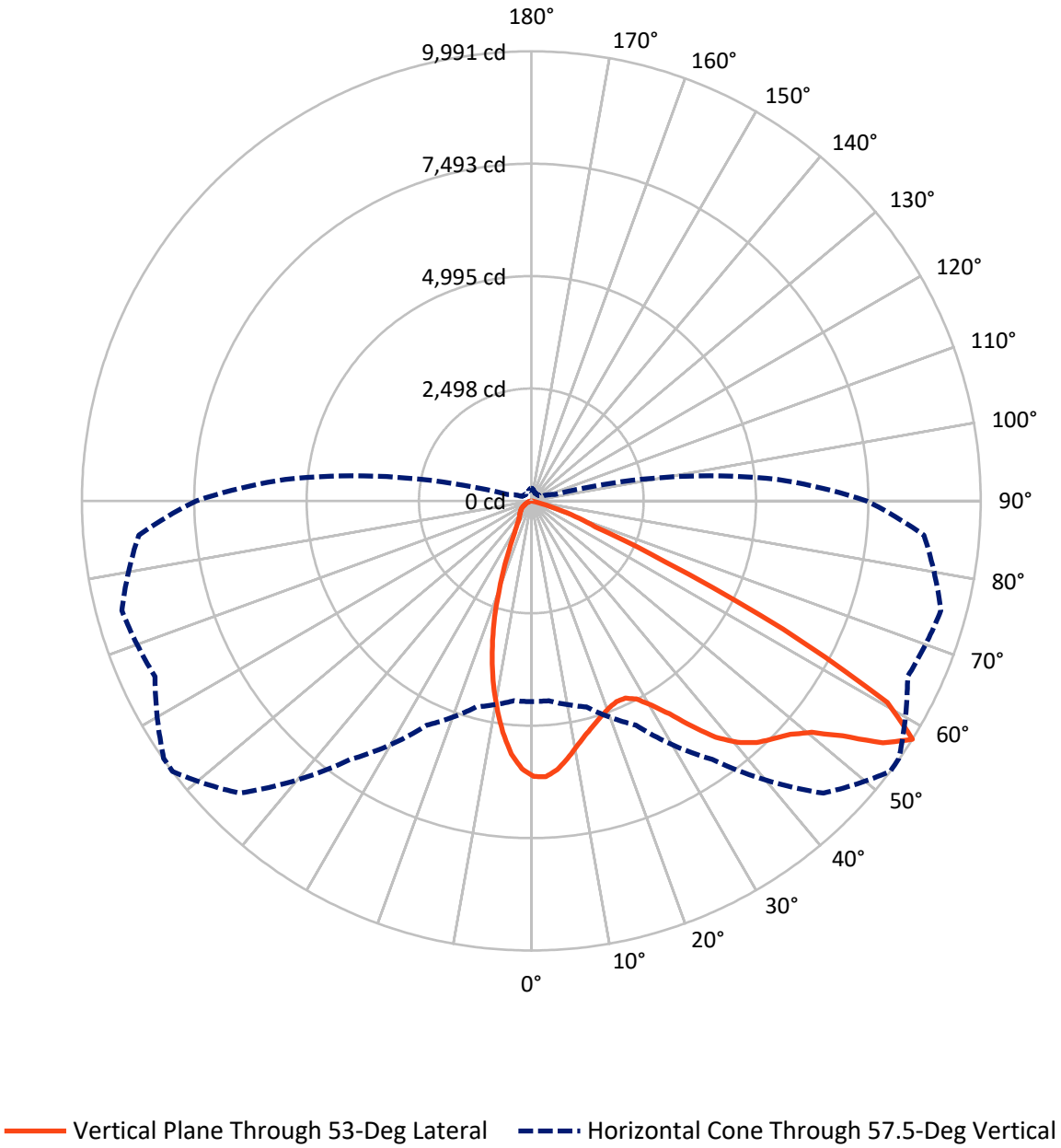
Luminous Intensity Polar Plot



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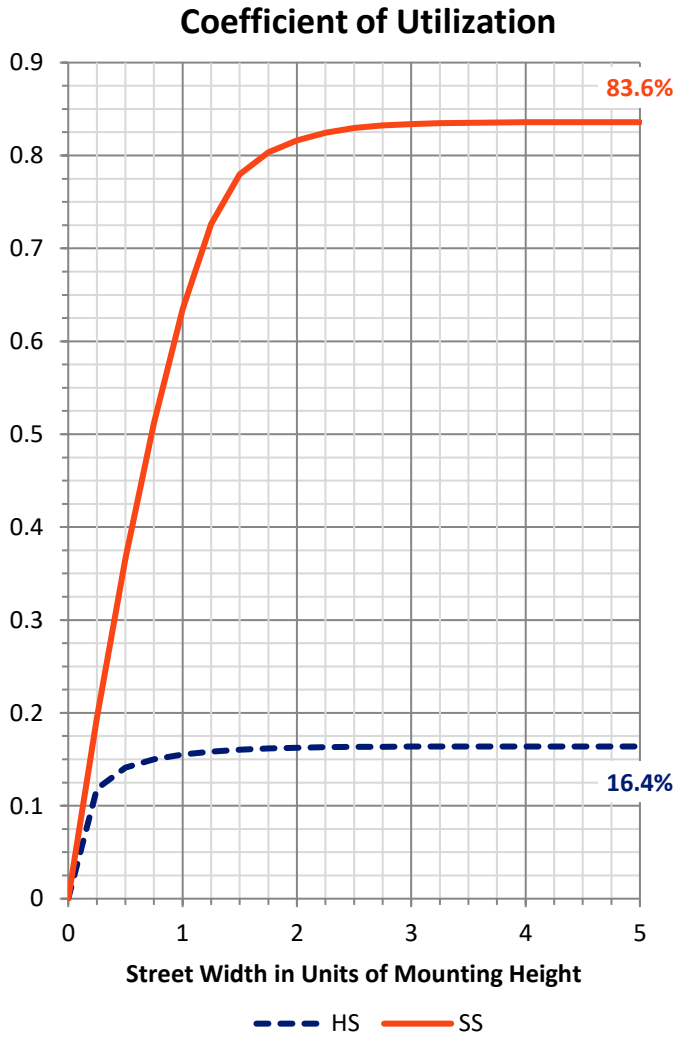
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2305.7	0.0	2305.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	11652.3	0.0	11652.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	13958.0	0.0	13958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.9	3.8
10°-20°	1150.0	8.2
20°-30°	1498.2	10.7
30°-40°	2173.2	15.6
40°-50°	3135.7	22.5
50°-60°	3792.4	27.2
60°-70°	1545.6	11.1
70°-80°	138.9	1.0
80°-90°	0.0	0.0
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°	13958.0	100.0
0°-180°	13958.0	100.0



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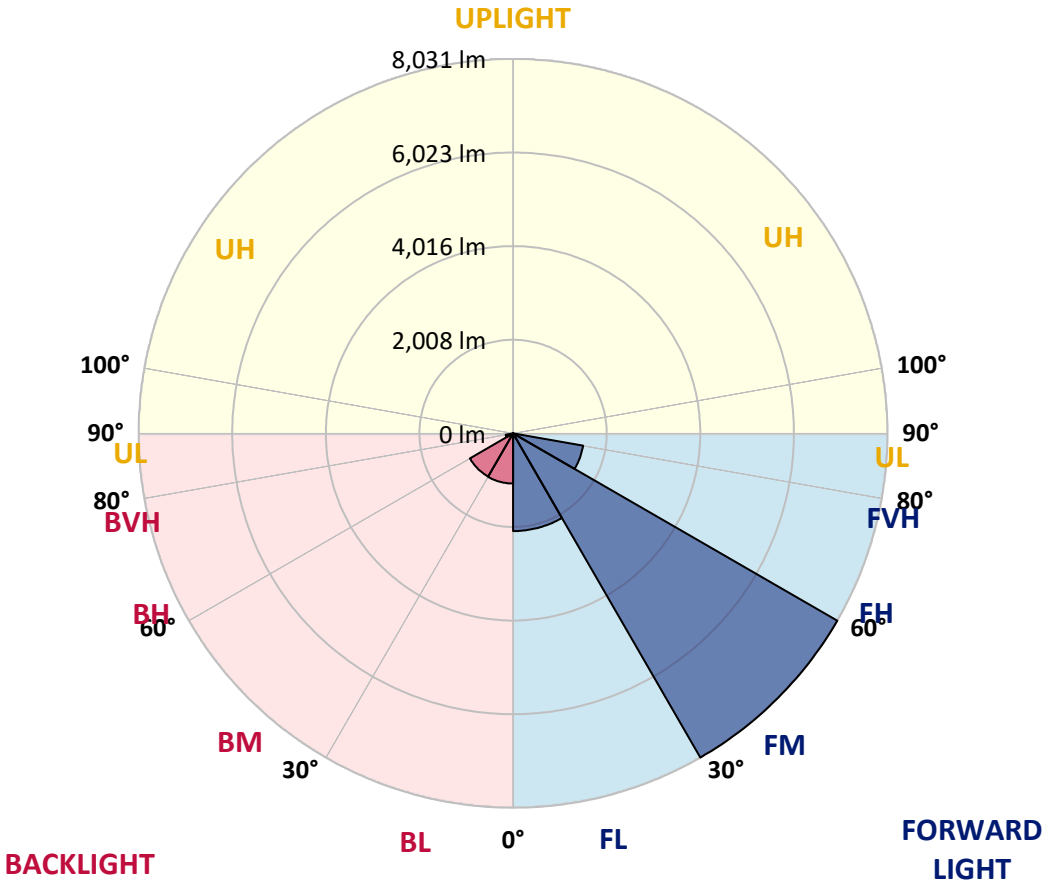
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2096.0	15.0			
FM	(30°-60°)	8031.2	57.5			
FH	(60°-80°)	1525.1	10.9			G1/1800
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	1076.1	7.7	B3/2500		
BM	(30°-60°)	1070.2	7.7	B2/2500		
BH	(60°-80°)	159.4	1.1	B1/500		G1/500
BVH	(80°-90°)	0.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
Type II Short



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REPORT NUMBER: P640453
CATALOG NUMBER: GWS-SA5D-830-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6122.8	6122.8	6122.8	6122.8	6122.8	6122.8	6122.8	6122.8	6122.8	6122.8	6122.8
2.5°	6037.2	6050.9	6074.9	6105.7	6126.2	6136.5	6136.5	6165.5	6146.7	6131.3	6114.2
5°	5778.9	5792.6	5825.1	5874.7	5924.3	5960.3	6001.3	6032.1	6044.1	6044.1	6015.0
7.5°	5414.5	5433.3	5453.9	5522.3	5630.1	5710.5	5780.6	5825.1	5890.1	5910.6	5869.6
10°	5022.8	5041.6	5087.8	5181.9	5305.0	5424.8	5544.5	5601.0	5712.2	5770.4	5724.2
12.5°	4690.9	4699.4	4761.0	4873.9	5031.3	5195.5	5341.0	5399.1	5556.5	5643.8	5589.0
15°	4417.2	4422.3	4483.9	4608.8	4790.1	4992.0	5175.0	5234.9	5428.2	5559.9	5477.8
17.5°	4210.2	4211.9	4264.9	4400.0	4589.9	4814.1	5031.3	5104.9	5354.6	5513.7	5390.6
20°	4105.8	4100.7	4138.3	4256.3	4436.0	4660.1	4916.7	5007.4	5313.6	5506.9	5323.9
22.5°	4107.5	4095.5	4110.9	4194.8	4347.0	4557.4	4844.8	4947.5	5317.0	5536.0	5267.4
25°	4205.0	4187.9	4191.3	4235.8	4343.6	4535.2	4855.1	4964.6	5385.4	5633.5	5246.9
27.5°	4369.3	4350.4	4350.4	4372.7	4430.8	4605.3	4983.4	5108.3	5568.5	5823.4	5289.6
30°	4581.4	4562.6	4555.7	4578.0	4625.9	4786.7	5269.1	5399.1	5881.6	6134.7	5426.5
32.5°	4824.3	4802.1	4814.1	4844.8	4891.0	5113.4	5636.9	5809.7	6273.3	6553.9	5672.8
35°	5080.9	5062.1	5116.9	5183.6	5255.4	5566.8	6145.0	6295.6	6754.0	7075.7	6049.2
37.5°	5325.6	5317.0	5431.6	5571.9	5720.7	6110.8	6661.7	6778.0	7166.3	7643.6	6509.4
40°	5570.2	5568.5	5765.2	6011.6	6249.4	6653.1	7053.4	7149.2	7417.8	8085.0	6950.8
42.5°	5843.9	5843.9	6115.9	6444.4	6760.9	7111.6	7340.8	7383.6	7530.7	8339.9	7282.7
45°	6105.7	6121.1	6435.8	6817.3	7192.0	7469.1	7539.3	7542.7	7576.9	8490.5	7558.1
47.5°	6312.7	6326.4	6702.7	7142.4	7546.1	7741.1	7751.4	7736.0	7698.4	8634.2	7770.2
50°	6480.3	6500.9	6894.3	7359.6	7789.0	8002.9	8081.6	8066.2	7970.4	8788.1	7919.1
52.5°	6562.4	6591.5	6961.0	7467.4	8059.3	8451.1	8670.1	8706.0	8377.5	8873.7	8061.1
55°	5905.5	5948.3	6288.7	6981.6	8209.9	9144.0	9487.8	9481.0	8818.9	9128.6	8406.6
57.5°	4459.9	4456.5	4738.8	5496.6	7012.4	9183.3	9990.8	9977.1	9231.2	9424.5	8760.8
60°	3036.6	3016.1	3091.3	3457.4	4903.0	7481.1	9092.6	9277.4	8938.7	8706.0	7438.3
62.5°	2499.4	2480.6	2456.6	2355.7	2815.9	4660.1	6281.9	6562.4	6518.0	6050.9	4665.2
65°	2046.1	2061.5	2128.2	2085.4	1958.8	2389.9	3260.7	3426.6	3132.4	2636.3	1630.3
67.5°	1508.9	1515.7	1603.0	1828.8	1760.4	1591.0	1534.5	1561.9	915.3	420.8	272.0
70°	891.3	896.4	976.8	1279.6	1428.5	1221.5	1036.7	1021.3	362.7	112.9	123.2
72.5°	504.7	494.4	509.8	609.0	778.4	648.4	533.8	485.9	109.5	63.3	63.3
75°	239.5	232.7	200.2	188.2	171.1	109.5	68.4	58.2	27.4	25.7	25.7
77.5°	1.7	5.1	3.4	5.1	5.1	3.4	1.7	1.7	5.1	5.1	6.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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REPORT NUMBER: P640453
CATALOG NUMBER: GWS-SA5D-830-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6122.8	6122.8	6122.8	6122.8	6122.8	6122.8	6122.8	6122.8	6122.8	6122.8	6122.8
2.5°	6083.4	6032.1	6020.1	6016.7	5968.8	5917.5	5864.5	5843.9	5813.1	5794.3	5809.7
5°	5968.8	5895.2	5830.2	5770.4	5664.3	5548.0	5447.0	5382.0	5320.4	5279.4	5289.6
7.5°	5806.3	5710.5	5561.6	5409.4	5214.4	5039.9	4844.8	4725.1	4613.9	4552.3	4581.4
10°	5633.5	5506.9	5269.1	5010.8	4704.6	4430.8	4152.0	3924.5	3792.7	3667.8	3681.5
12.5°	5464.1	5296.5	4940.6	4548.9	4162.3	3758.5	3337.7	3022.9	2807.3	2651.7	2627.7
15°	5306.7	5091.2	4620.7	4104.1	3577.2	3040.0	2502.8	2052.9	1803.1	1649.2	1638.9
17.5°	5166.5	4899.6	4288.9	3638.8	2978.4	2290.7	1673.1	1336.1	1192.4	1125.7	1118.8
20°	5031.3	4706.3	3950.1	3166.6	2324.9	1608.1	1154.8	999.1	952.9	925.5	928.9
22.5°	4901.3	4495.9	3594.3	2643.1	1743.3	1129.1	894.7	834.8	829.7	833.1	834.8
25°	4791.8	4302.5	3228.2	2138.4	1243.7	860.5	747.6	730.5	745.9	768.1	771.5
27.5°	4735.4	4145.1	2870.6	1630.3	899.9	699.7	648.4	655.2	682.6	706.5	710.0
30°	4750.8	4027.1	2501.1	1182.1	692.9	590.2	573.1	586.8	614.2	636.4	639.8
32.5°	4860.2	3967.2	2123.0	860.5	569.7	514.9	508.1	518.4	542.3	559.4	561.1
35°	5077.5	3980.9	1763.8	658.6	489.3	458.5	456.8	463.6	475.6	487.6	489.3
37.5°	5397.4	4092.1	1409.7	547.4	443.1	420.8	414.0	414.0	422.6	427.7	431.1
40°	5741.3	4259.8	1129.1	484.1	410.6	386.6	372.9	367.8	374.7	381.5	383.2
42.5°	6025.3	4427.4	917.0	439.7	384.9	352.4	335.3	331.9	340.4	352.4	355.8
45°	6242.5	4557.4	764.7	403.7	355.8	319.9	301.1	301.1	316.5	337.0	340.4
47.5°	6441.0	4661.8	651.8	371.2	328.5	290.8	272.0	275.4	301.1	328.5	333.6
50°	6576.1	4745.6	568.0	342.2	306.2	266.9	249.8	256.6	287.4	319.9	325.0
52.5°	6721.5	4848.3	513.2	316.5	285.7	248.1	232.7	237.8	272.0	307.9	314.8
55°	7123.6	5192.1	511.5	282.3	249.8	222.4	215.6	217.3	251.5	292.5	301.1
57.5°	*7452.0*	*5494.9*	*545.7*	*237.8*	*208.7*	*195.0*	*191.6*	*193.3*	*224.1*	*270.3*	*280.6*
60°	6165.5	4270.0	451.6	196.7	174.5	171.1	165.9	169.4	198.4	239.5	248.1
62.5°	3649.0	2441.2	215.6	150.5	148.8	145.4	140.3	147.1	174.5	210.4	215.6
65°	1247.1	723.6	136.9	123.2	126.6	121.5	116.3	123.2	147.1	167.7	169.4
67.5°	239.5	191.6	109.5	102.6	104.4	94.1	92.4	99.2	112.9	116.3	114.6
70°	124.9	111.2	83.8	83.8	80.4	66.7	66.7	73.6	73.6	68.4	66.7
72.5°	65.0	61.6	54.7	61.6	51.3	41.1	41.1	44.5	41.1	34.2	34.2
75°	25.7	25.7	24.0	30.8	22.2	18.8	17.1	20.5	15.4	12.0	12.0
77.5°	6.8	6.8	6.8	8.6	5.1	5.1	3.4	3.4	1.7	0.0	0.0
80°	0.0	1.7	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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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

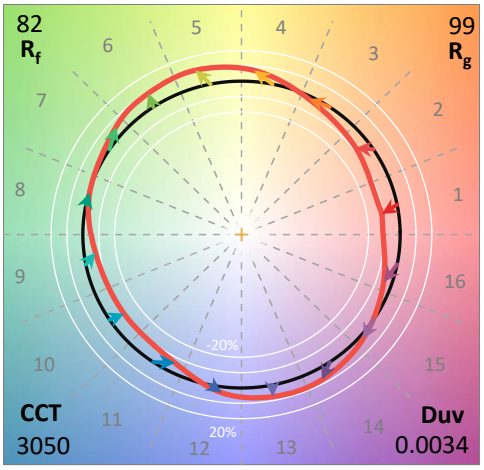
Test Information

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

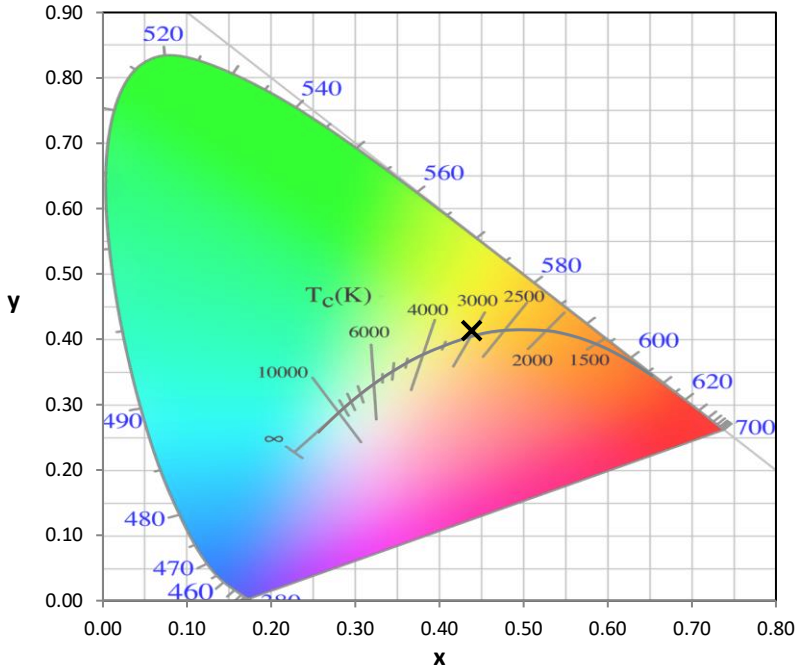
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

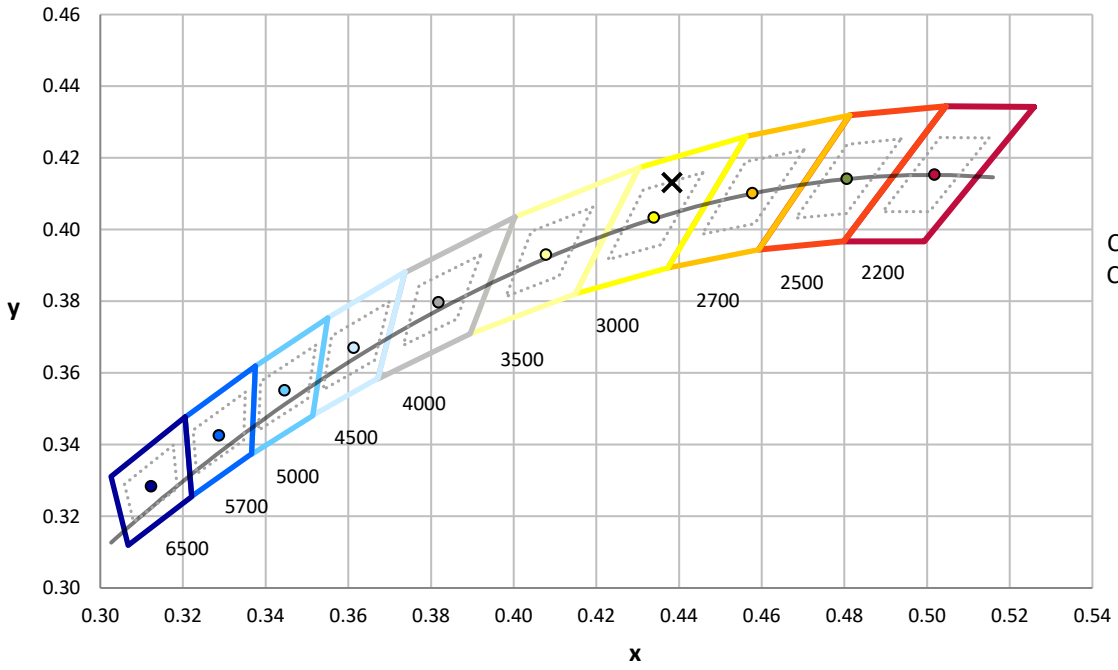
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

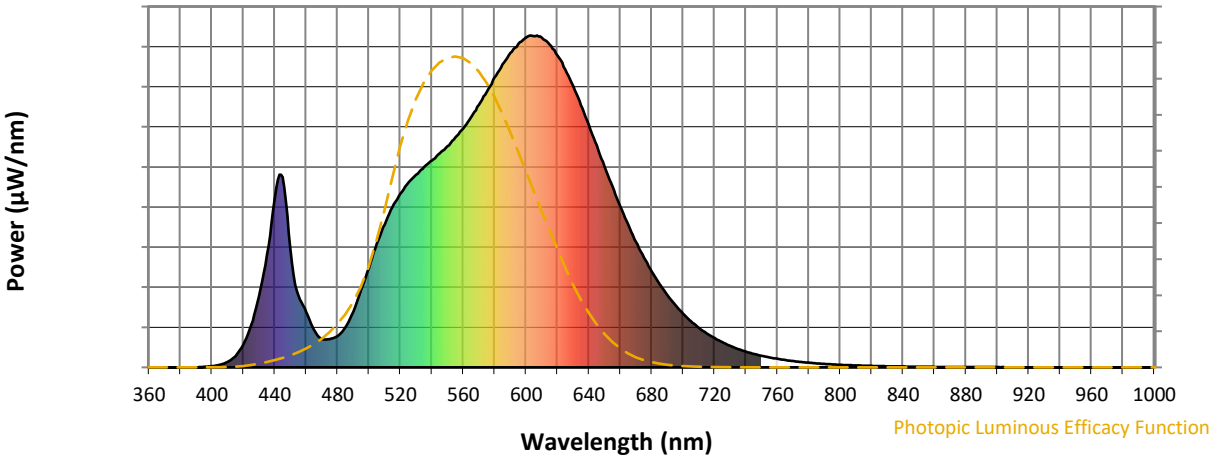


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

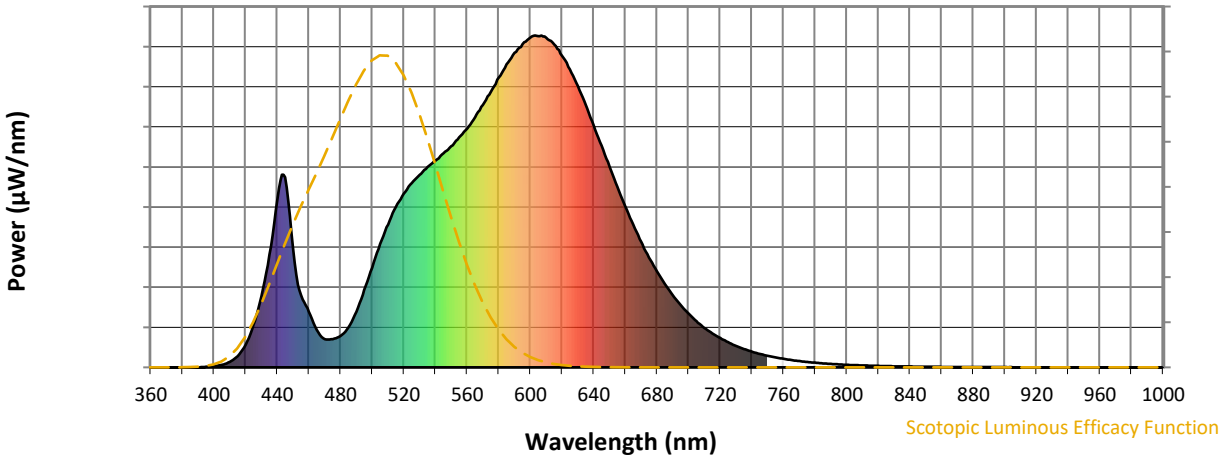


Photopic Lumens: NR

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

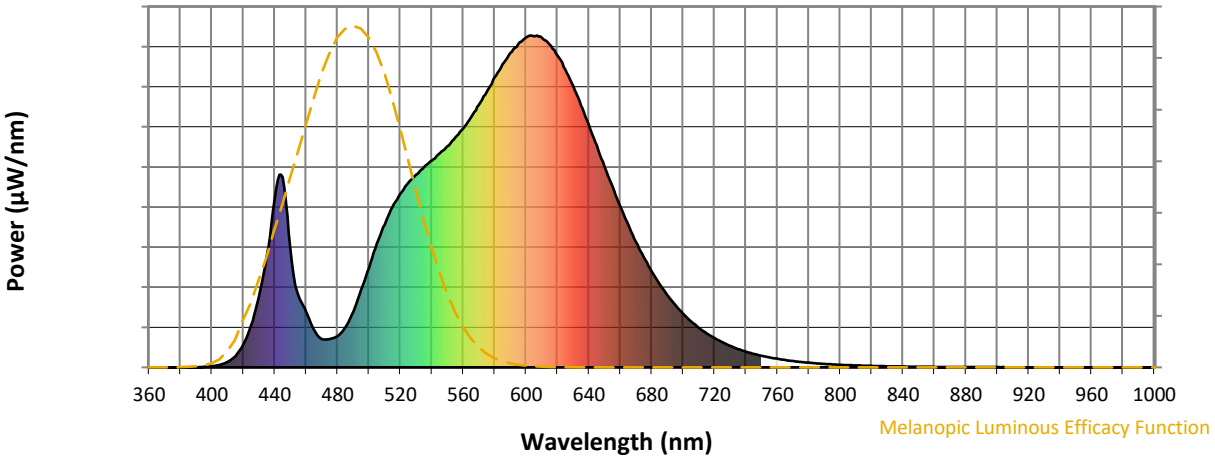


Scotopic Lumens: NR **S/P: 1.27**

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			

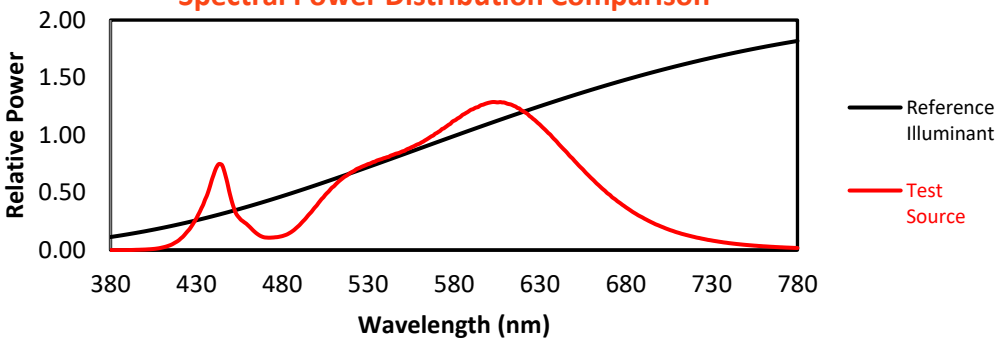
REPORT NUMBER: SP1-2408-195-9

TM-30-18

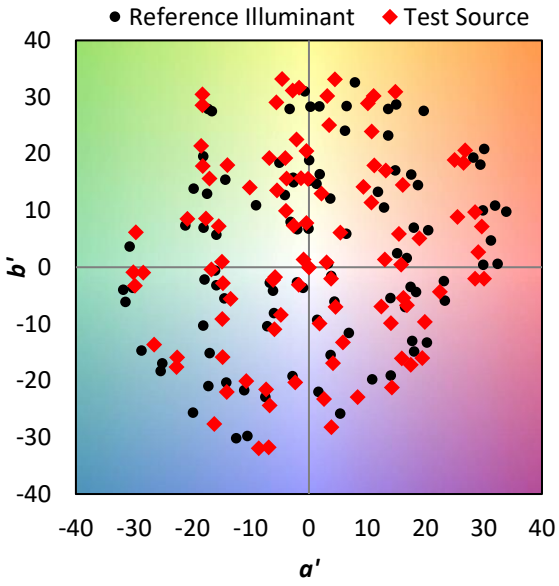
Summary

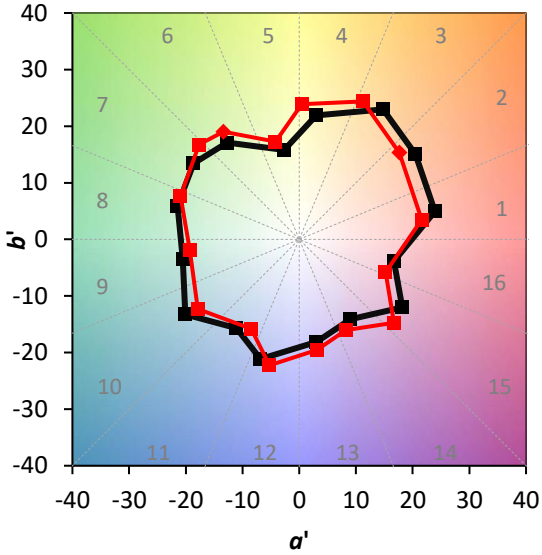
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

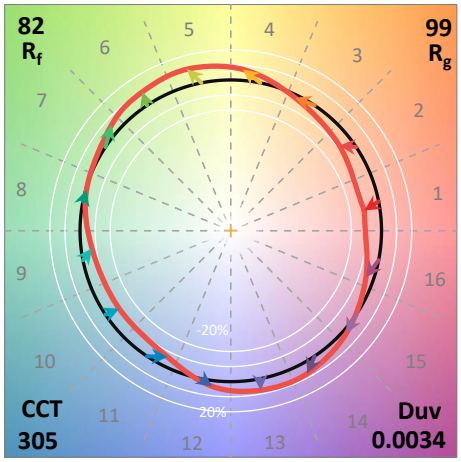
Spectral Power Distribution Comparison

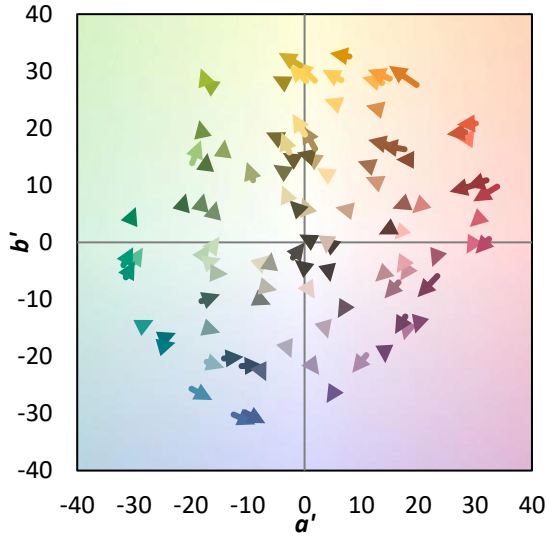


Color Vector Graphics







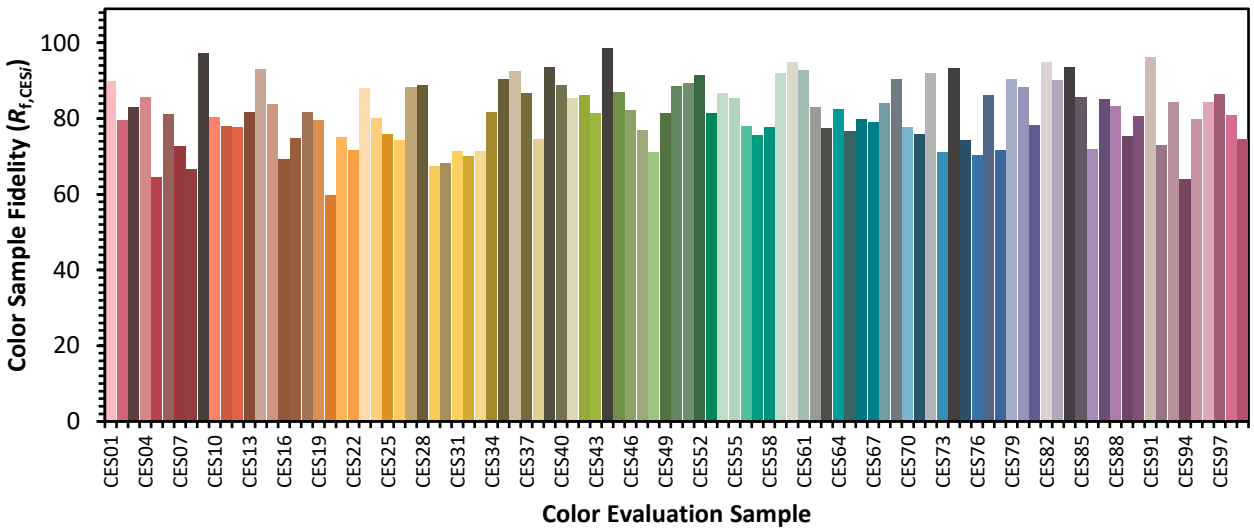


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

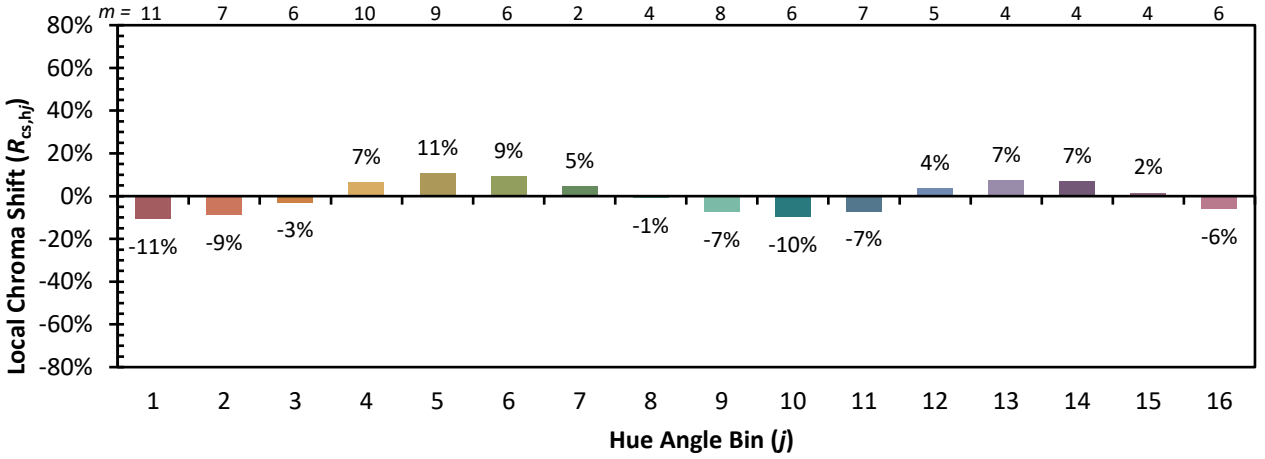
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

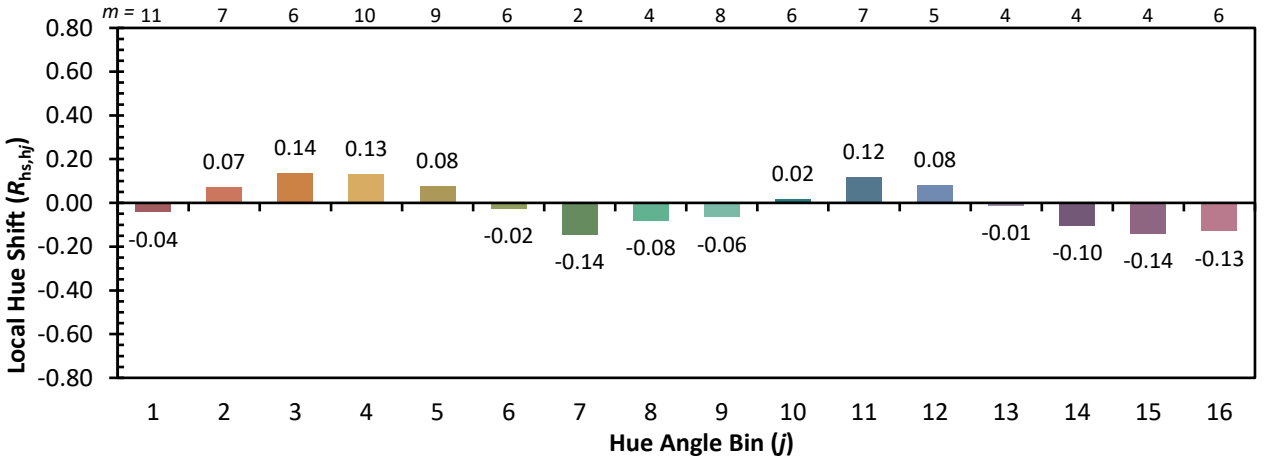


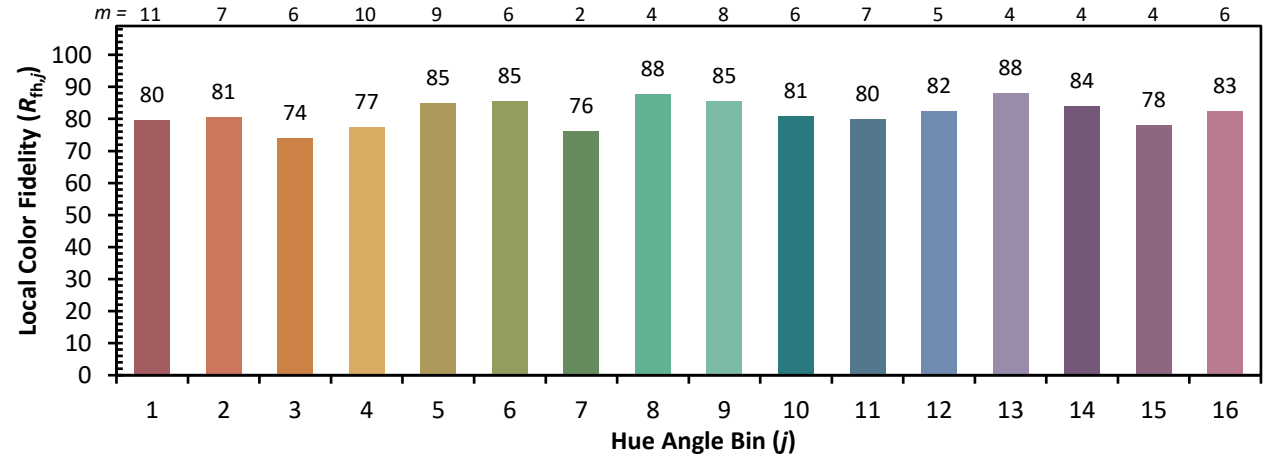
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



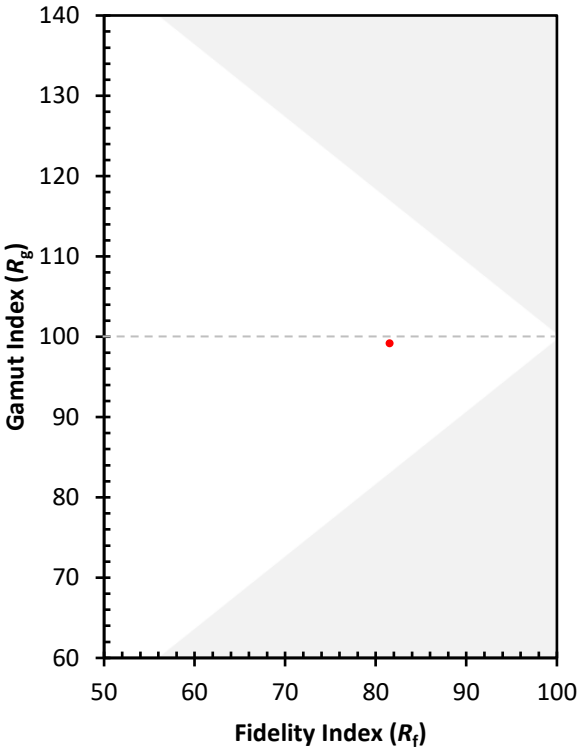


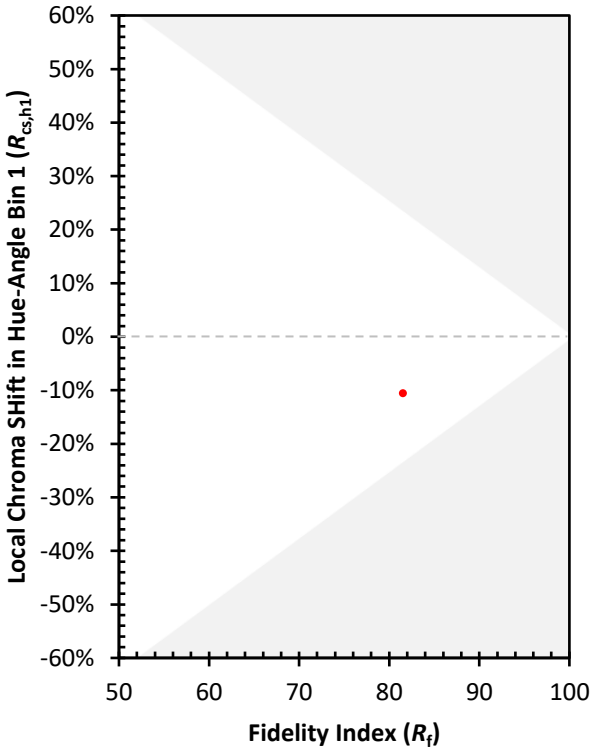


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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