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: P640953

Luminaire Tested: GWS-SA5E-830-U-SL4-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:	P640953
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5E-830-U-SL4-W
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	28640.7 lumens
Efficiency:	N/A
Efficacy:	106.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G4

Input Watts (W):	269.6
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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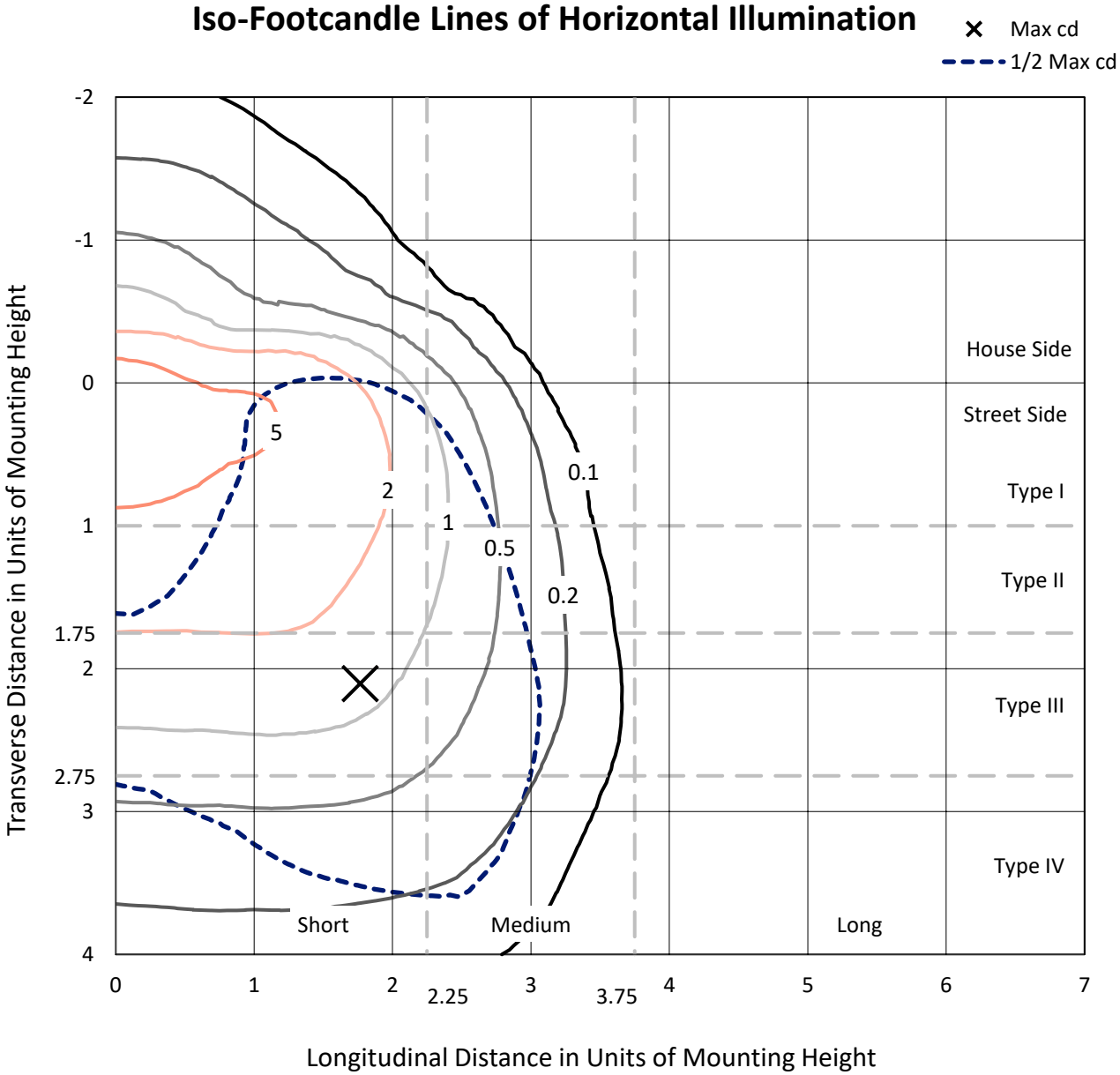
REPORT NUMBER: P640953
CATALOG NUMBER: GWS-SA5E-830-U-SL4-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
Type IV - Short - N/A

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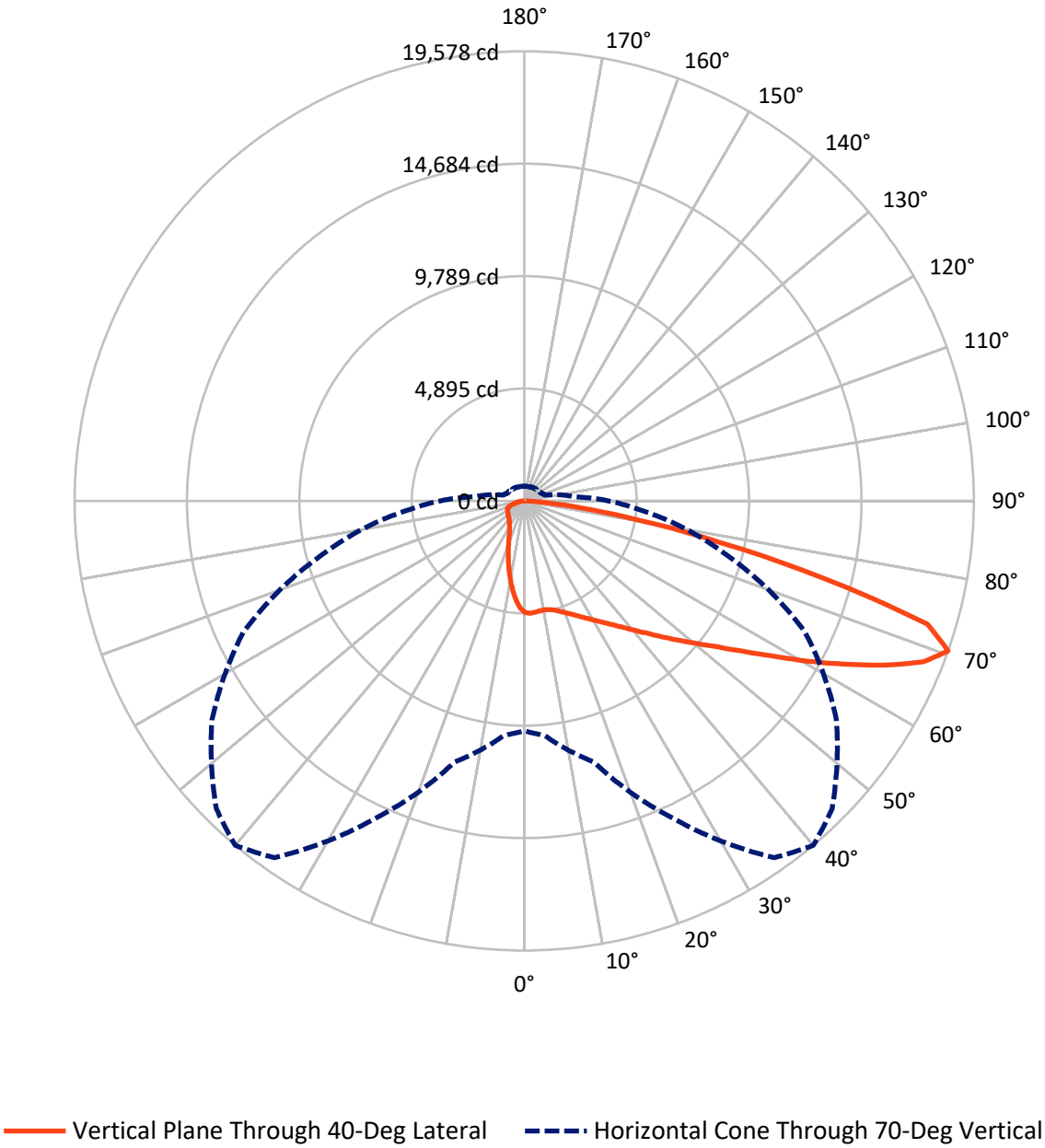
Luminous Intensity Polar Plot



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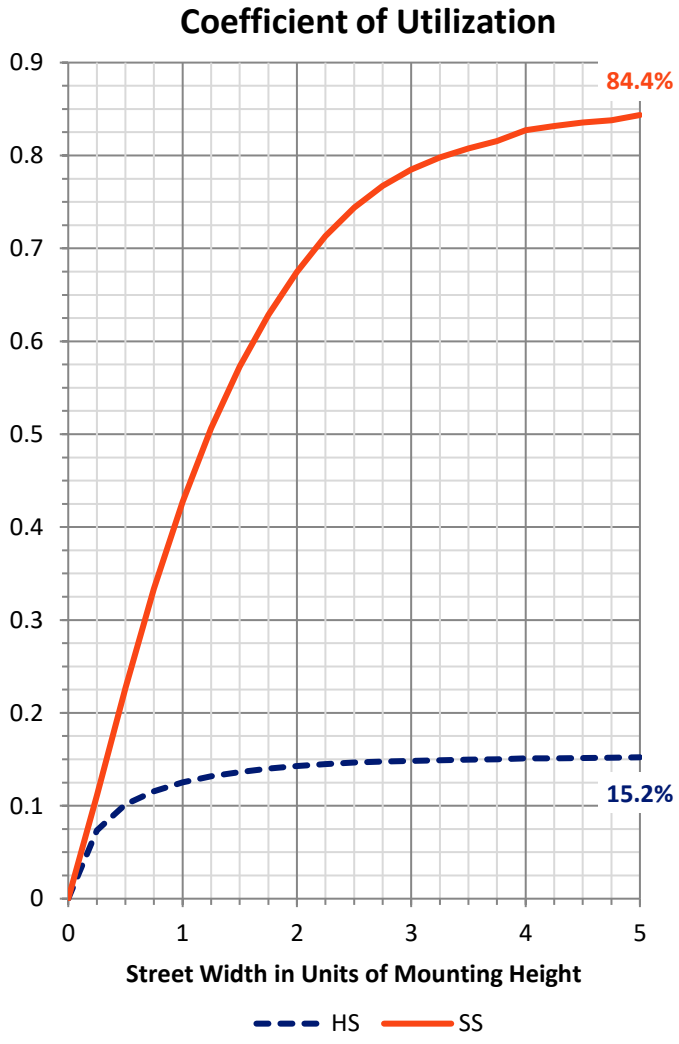
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4411.4	0.0	4411.4
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	24229.3	0.0	24229.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	28640.7	0.0	28640.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.6	1.5
10°-20°	1119.9	3.9
20°-30°	1758.5	6.1
30°-40°	2643.9	9.2
40°-50°	4081.0	14.2
50°-60°	6060.6	21.2
60°-70°	7639.2	26.7
70°-80°	4417.7	15.4
80°-90°	490.3	1.7
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°	28640.7	100.0
0°-180°	28640.7	100.0



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REPORT NUMBER: P640953
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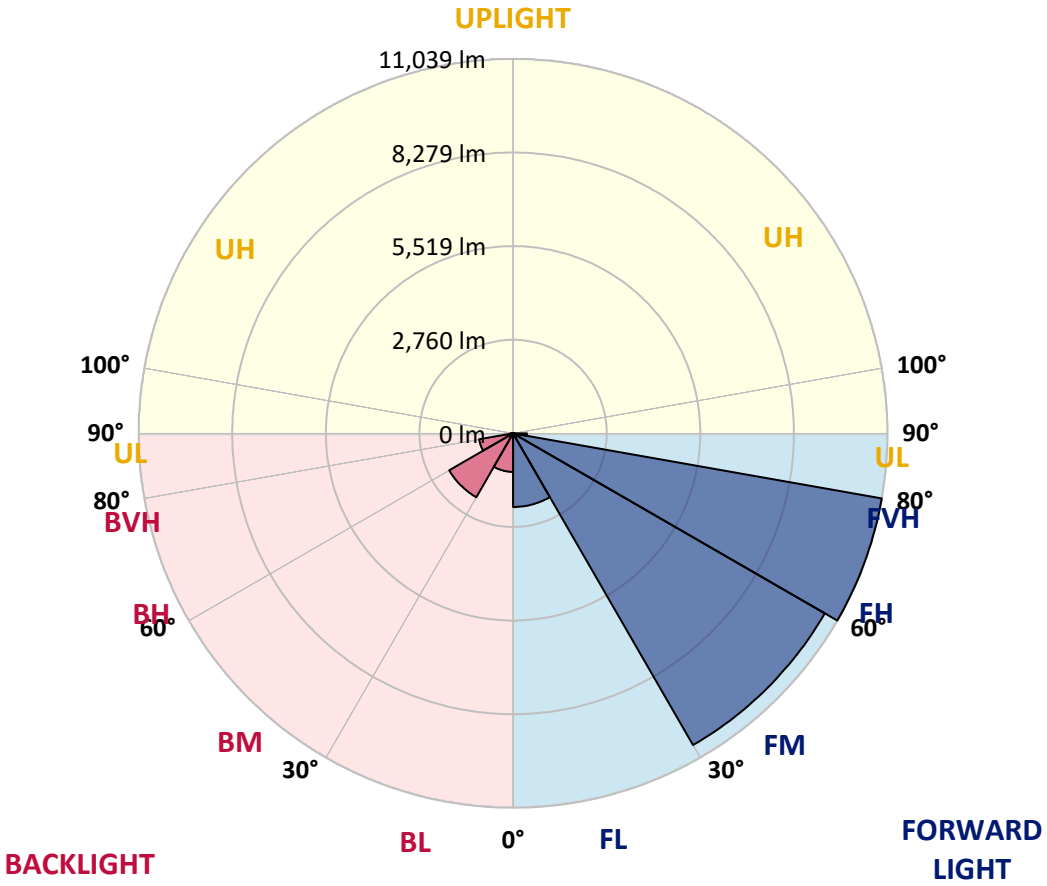
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2171.2	7.6			
FM	(30°-60°)	10611.0	37.0			
FH	(60°-80°)	11038.8	38.5			G4/12000
FVH	(80°-90°)	408.3	1.4			G3/500
BL	(0°-30°)	1136.9	4.0	B3/2500		
BM	(30°-60°)	2174.4	7.6	B2/2500		
BH	(60°-80°)	1018.2	3.6	B3/2500		G3/2500
BVH	(80°-90°)	82.0	0.3			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 IV Short



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REPORT NUMBER: P640953
CATALOG NUMBER: GWS-SA5E-830-U-SL4-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4863.5	4863.5	4863.5	4863.5	4863.5	*4863.5*	4863.5	4863.5	4863.5	4863.5	4863.5
2.5°	4893.4	4902.0	4908.4	4917.0	4912.7	*4899.9*	4910.6	4910.6	4887.0	4861.4	4837.9
5°	4899.9	4910.6	4908.4	4906.3	4889.2	*4867.8*	4867.8	4855.0	4814.3	4773.7	4735.3
7.5°	4887.0	4884.9	4882.8	4876.3	4857.1	*4833.6*	4829.3	4803.7	4750.2	4694.6	4639.0
10°	4829.3	4827.2	4833.6	4848.6	4844.3	*4822.9*	4822.9	4799.4	4737.4	4669.0	4596.3
12.5°	4782.3	4782.3	4807.9	4848.6	4863.5	*4855.0*	4857.1	4840.0	4769.5	4688.2	4602.7
15°	4788.7	4790.8	4846.4	4912.7	4940.5	*4934.1*	4936.2	4917.0	4837.9	4756.6	4641.2
17.5°	4831.5	4842.1	4938.3	5030.3	5066.6	*5058.1*	5043.1	5011.0	4921.2	4829.3	4688.2
20°	4921.2	4938.3	5062.3	5177.8	5220.5	*5201.3*	5175.6	5111.5	5013.2	4912.7	4739.5
22.5°	5098.7	5109.4	5246.2	5359.5	5393.7	*5370.2*	5318.9	5226.9	5113.6	5008.9	4801.5
25°	5348.8	5361.6	5492.0	5596.8	5588.2	*5560.4*	5489.9	5376.6	5241.9	5130.7	4891.3
27.5°	5646.0	5667.3	5795.6	5879.0	5823.4	*5782.8*	5703.7	5566.9	5415.1	5314.6	5028.1
30°	5970.9	5979.5	6088.5	6171.9	6086.3	*6030.8*	5934.6	5787.1	5650.2	5575.4	5233.4
32.5°	6285.2	6293.7	6387.8	6434.8	6345.0	*6304.4*	6221.0	6065.0	5968.8	5928.1	5539.1
35°	6616.5	6614.4	6691.3	6732.0	6640.0	*6622.9*	6537.4	6417.7	6400.6	6454.1	5985.9
37.5°	6947.9	6928.6	6969.3	7022.7	6971.4	*6988.5*	6932.9	6892.3	6958.6	7097.5	6580.2
40°	7213.0	7213.0	7255.7	7322.0	7339.1	*7413.9*	7381.9	7435.3	7649.1	7980.4	7315.6
42.5°	7448.1	7450.3	7540.1	7642.7	7766.7	*7882.1*	7907.8	8046.7	8489.2	9008.7	8239.1
45°	7694.0	7696.1	7818.0	7967.6	8230.6	*8450.8*	8502.1	8814.2	9447.0	10079.8	9241.8
47.5°	7978.3	7954.8	8123.7	8373.8	8747.9	*9064.3*	9196.9	9639.4	10438.9	11217.1	10186.7
50°	8299.0	8249.8	8437.9	8869.8	9331.5	*9765.5*	9987.9	10494.5	11503.6	12266.8	11076.0
52.5°	8660.3	8632.5	8829.2	9355.1	10060.5	*10560.8*	10862.2	11527.1	12538.3	13312.1	11781.5
55°	9109.2	9042.9	9327.3	9996.4	10915.7	*11552.7*	11909.7	12548.9	13669.2	14261.3	12320.2
57.5°	9600.9	9528.2	9908.8	10798.1	12027.3	*12726.4*	13173.2	13699.1	14733.8	14988.2	12636.6
60°	10131.1	10107.6	10558.6	11738.7	13352.8	*14165.1*	14487.9	14964.7	15659.5	15409.3	12557.5
62.5°	10616.4	10607.8	11264.1	12758.5	14757.3	*15650.9*	15907.4	16033.6	16326.5	15381.5	11929.0
65°	11127.3	11200.0	12087.2	13940.7	16367.1	*17243.6*	17350.5	17029.8	16550.9	14652.6	10642.0
67.5°	11191.4	11332.5	12604.5	15048.0	17893.5	*18720.8*	18635.3	17408.2	15888.2	12623.8	8341.7
70°	*10009.2*	*10255.1*	*11779.3*	*15216.9*	*18968.8*	*19578.1*	*18960.2*	*16593.7*	*13483.2*	*9145.6*	*5246.2*
72.5°	8363.1	8574.8	9921.6	12976.5	17581.4	*18357.4*	17521.5	14045.4	9528.2	5246.2	2672.3
75°	6509.6	6755.5	7997.5	10314.9	13162.5	*13472.5*	13053.5	9795.4	5237.6	2163.5	1214.3
77.5°	3972.1	4149.5	5115.8	6988.5	9209.7	*8745.8*	7411.8	5492.0	2298.1	1036.8	750.4
80°	1757.3	1866.3	2520.5	3754.0	5321.0	*5030.3*	3965.6	2345.2	1257.0	658.4	523.8
82.5°	942.8	1013.3	1242.1	1485.8	2336.6	*2443.5*	1981.8	1351.1	675.5	376.3	299.3
85°	414.7	455.4	564.4	538.7	767.5	*754.6*	761.1	927.8	322.8	173.2	194.5
87.5°	0.0	0.0	0.0	0.0	2.1	*2.1*	23.5	124.0	32.1	51.3	44.9
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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CATALOG NUMBER: GWS-SA5E-830-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5
2.5°	4812.2	4773.7	4763.0	4750.2	4726.7	4686.1	4656.2	4621.9	4607.0	4589.9	4592.0
5°	4692.5	4645.5	4600.6	4542.8	4470.2	4388.9	4333.3	4269.2	4235.0	4202.9	4211.5
7.5°	4589.9	4517.2	4425.3	4303.4	4173.0	4027.6	3910.1	3818.1	3756.1	3713.4	3734.8
10°	4525.7	4440.2	4279.9	4081.1	3860.9	3638.6	3469.7	3311.5	3213.1	3136.2	3131.9
12.5°	4512.9	4401.8	4168.7	3880.1	3561.6	3264.4	3016.5	2802.7	2672.3	2576.1	2612.4
15°	4525.7	4384.6	4072.5	3694.1	3292.2	2890.3	2582.5	2336.6	2180.6	2092.9	2086.5
17.5°	4540.7	4367.5	3963.5	3493.2	3010.0	2550.4	2193.4	1932.6	1772.2	1684.6	1686.7
20°	4553.5	4341.9	3835.2	3273.0	2723.6	2234.0	1864.2	1616.2	1473.0	1408.8	1419.5
22.5°	4574.9	4316.2	3698.4	3037.8	2430.7	1928.3	1603.4	1402.4	1316.9	1274.1	1276.3
25°	4615.5	4301.3	3557.3	2781.3	2142.1	1684.6	1423.8	1289.1	1235.7	1210.0	1207.9
27.5°	4698.9	4314.1	3409.8	2533.3	1881.3	1498.6	1308.3	1220.7	1184.3	1167.2	1165.1
30°	4837.9	4365.4	3281.5	2281.0	1656.8	1353.2	1229.2	1175.8	1154.4	1139.5	1137.3
32.5°	5049.5	4461.6	3142.6	2045.9	1475.1	1246.3	1167.2	1139.5	1124.5	1115.9	1115.9
35°	5370.2	4636.9	3005.8	1840.7	1334.0	1163.0	1118.1	1107.4	1094.6	1090.3	1094.6
37.5°	5831.9	4917.0	2881.8	1661.1	1233.5	1098.8	1064.6	1068.9	1058.2	1064.6	1071.0
40°	6417.7	5291.1	2777.0	1513.6	1158.7	1051.8	1017.6	1032.6	1026.1	1032.6	1043.3
42.5°	7159.5	5755.0	2697.9	1398.1	1105.2	1013.3	981.3	996.2	991.9	1000.5	1011.2
45°	7986.9	6366.4	2661.6	1316.9	1066.8	985.5	951.3	962.0	957.7	964.2	974.8
47.5°	8780.0	6922.2	2693.6	1269.9	1034.7	962.0	925.7	929.9	927.8	925.7	932.1
50°	9464.1	7364.8	2785.6	1254.9	1013.3	938.5	904.3	906.4	900.0	887.2	891.5
52.5°	10022.1	7719.6	2841.2	1254.9	1002.6	912.8	880.8	882.9	870.1	853.0	855.1
55°	10389.8	7862.9	2796.3	1252.8	998.4	891.5	857.3	859.4	846.6	825.2	827.3
57.5°	10494.5	7723.9	2608.1	1229.2	994.1	874.4	833.7	838.0	829.5	806.0	806.0
60°	10201.6	7215.1	2263.9	1175.8	983.4	863.7	816.6	823.1	818.8	795.3	795.3
62.5°	9434.2	6310.8	1853.5	1094.6	953.5	850.8	801.7	814.5	825.2	812.4	810.2
65°	7997.5	5055.9	1507.2	1004.8	915.0	829.5	780.3	812.4	835.9	853.0	853.0
67.5°	6000.8	3619.3	1229.2	910.7	857.3	786.7	752.5	782.4	799.5	810.2	816.6
70°	*3657.8*	*2129.3*	*968.4*	*801.7*	*773.9*	*722.6*	*696.9*	*667.0*	*643.5*	*639.2*	*641.3*
72.5°	1789.3	1218.6	786.7	682.0	660.6	613.6	555.8	543.0	532.3	525.9	523.8
75°	985.5	848.7	649.9	566.5	528.0	470.3	457.5	436.1	431.8	423.3	425.4
77.5°	696.9	669.1	536.6	459.6	401.9	372.0	378.4	363.4	363.4	357.0	354.9
80°	523.8	525.9	412.6	335.6	297.2	286.5	292.9	292.9	288.6	286.5	284.3
82.5°	331.4	374.1	277.9	215.9	211.6	213.8	211.6	209.5	213.8	207.4	205.2
85°	228.7	269.4	168.9	128.3	128.3	126.1	130.4	128.3	132.5	126.1	126.1
87.5°	51.3	119.7	62.0	38.5	40.6	38.5	40.6	42.8	47.0	49.2	49.2
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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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

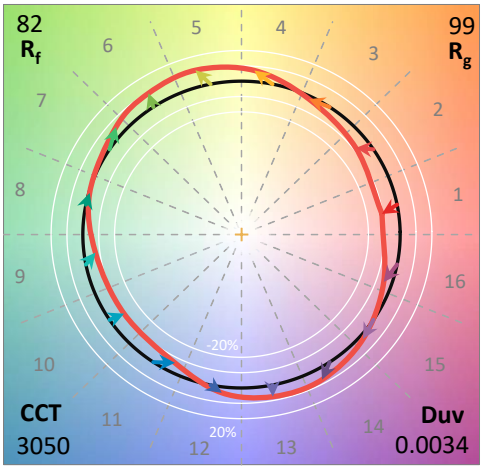
Test Information

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

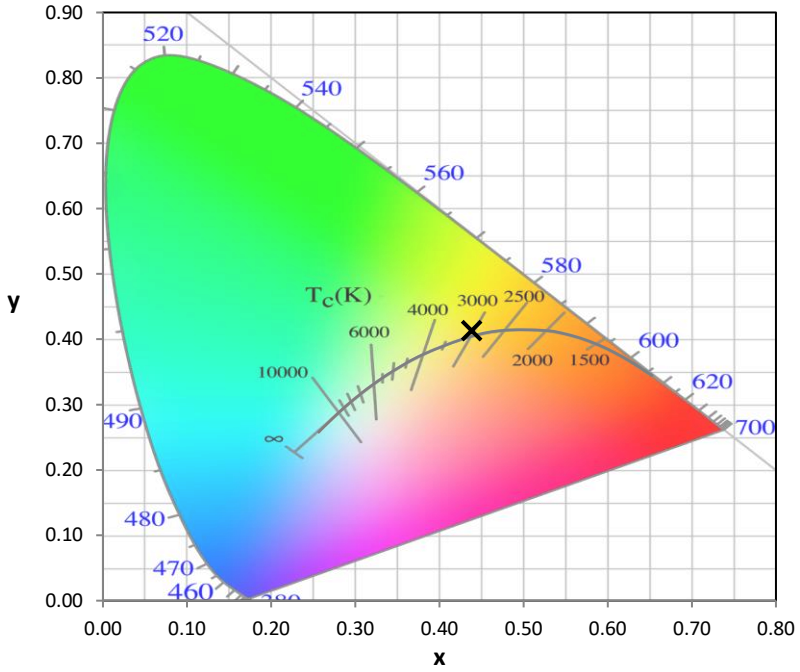
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

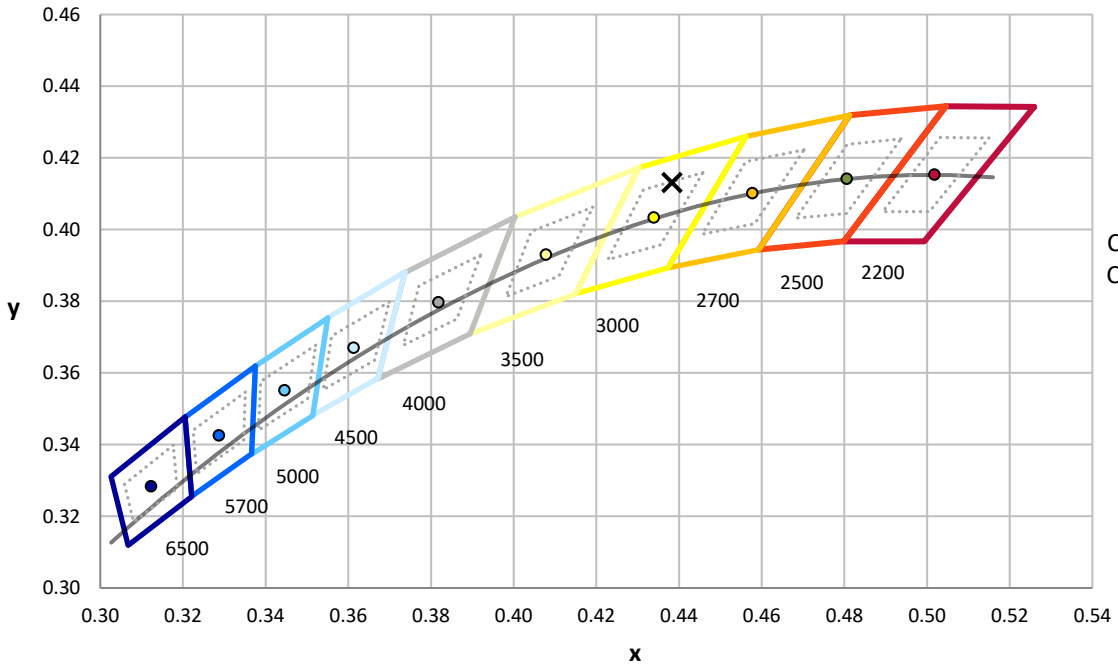
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

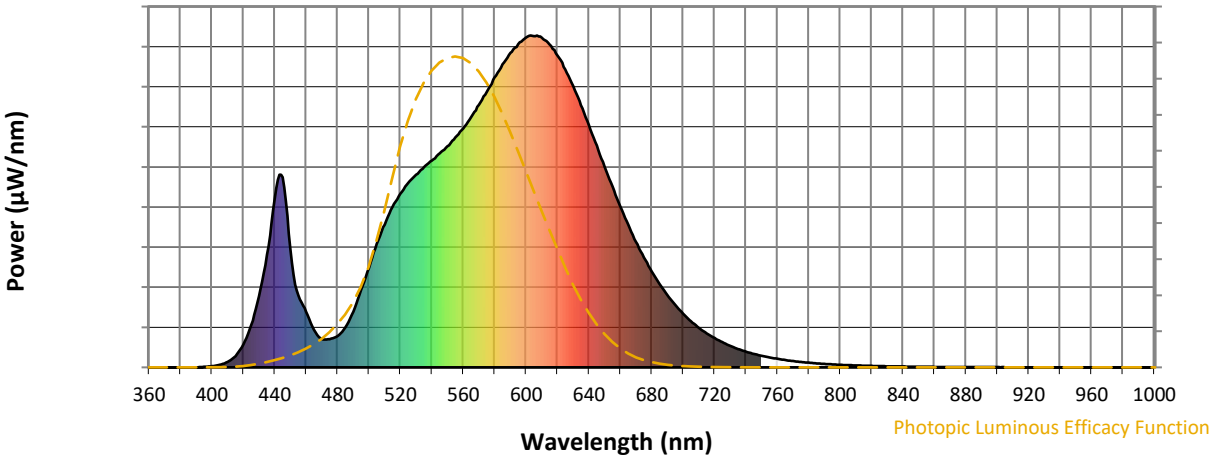


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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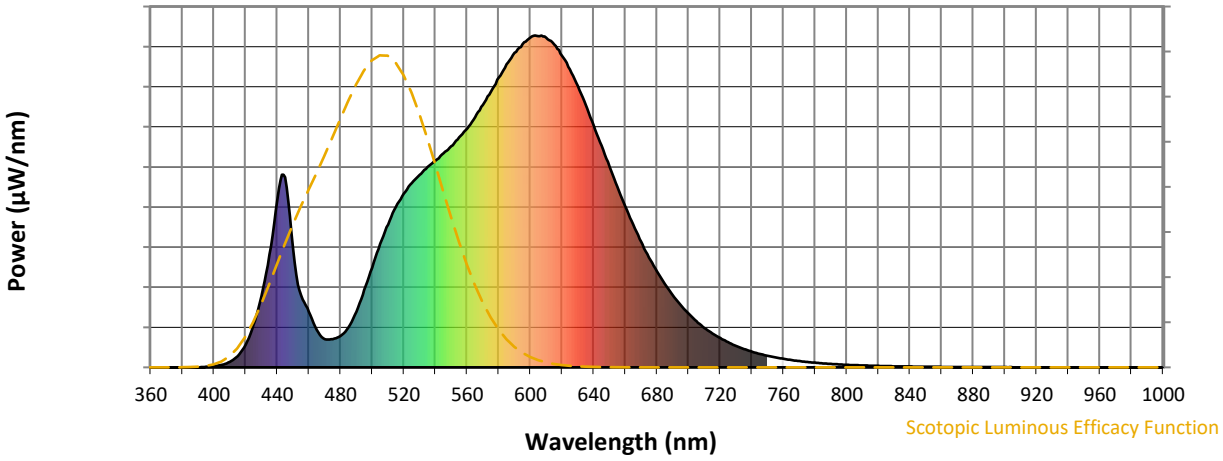
Scotopic Flux vs. Wavelength



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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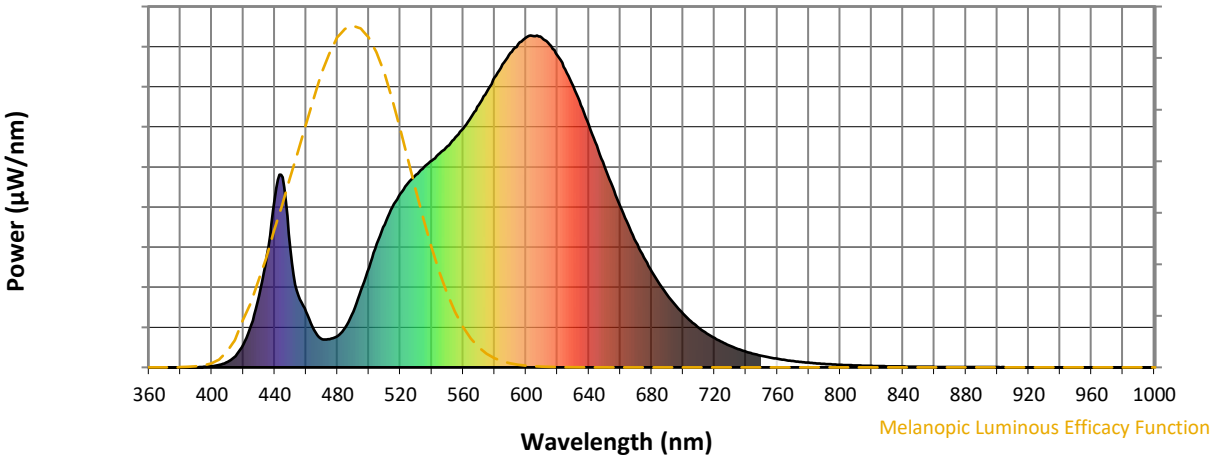
Melanopic Flux vs. Wavelength



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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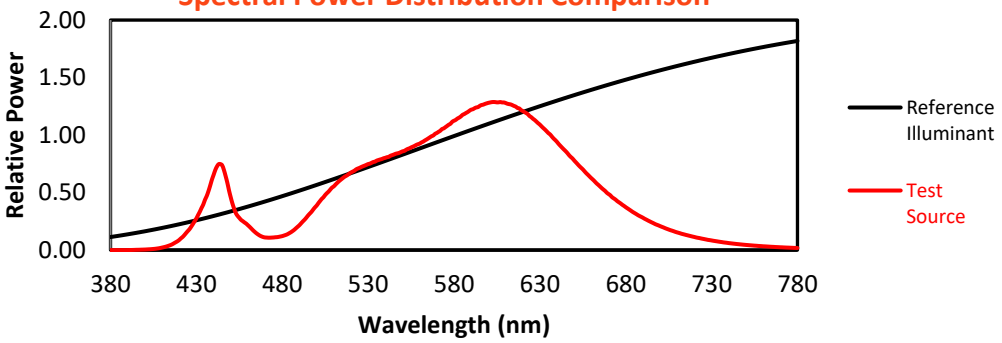
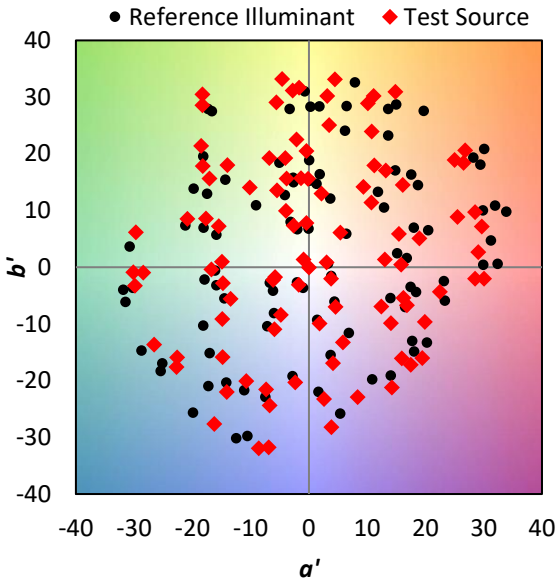
Summary

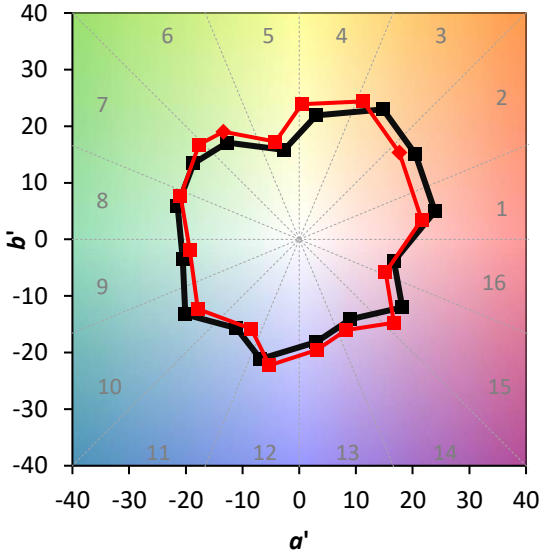
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

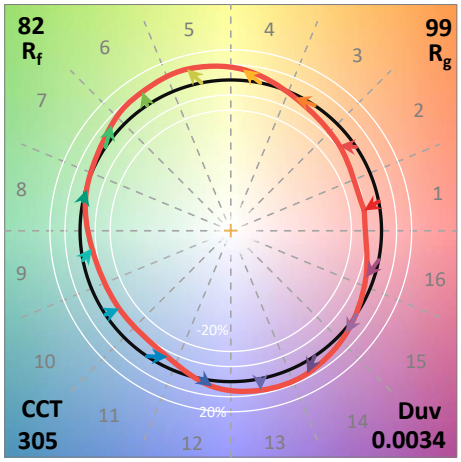
Spectral Power Distribution Comparison

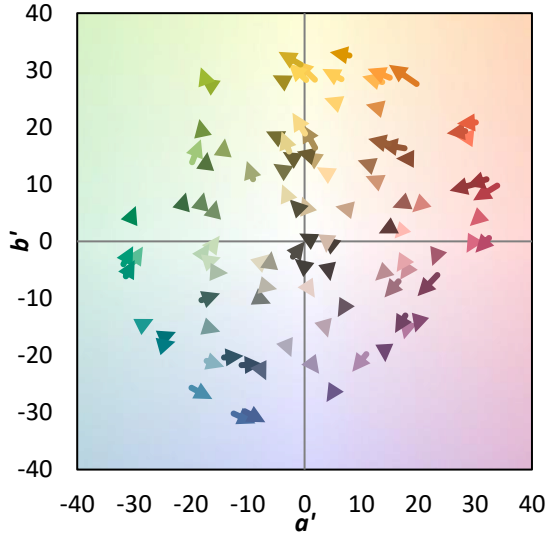


Color Vector Graphics









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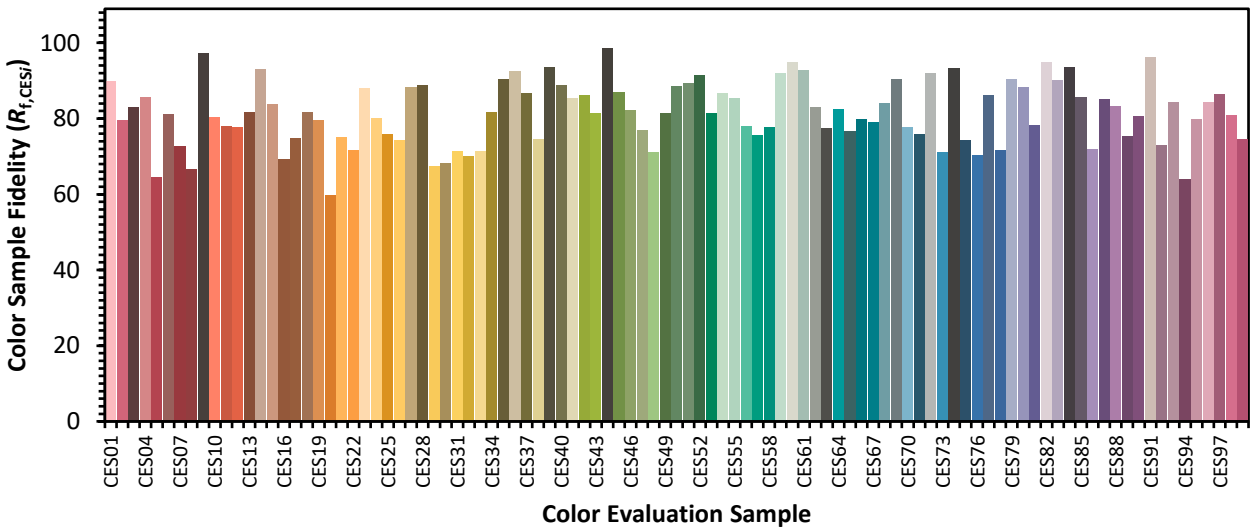
Individual Sample Fidelity Index ($R_{f,i}$)

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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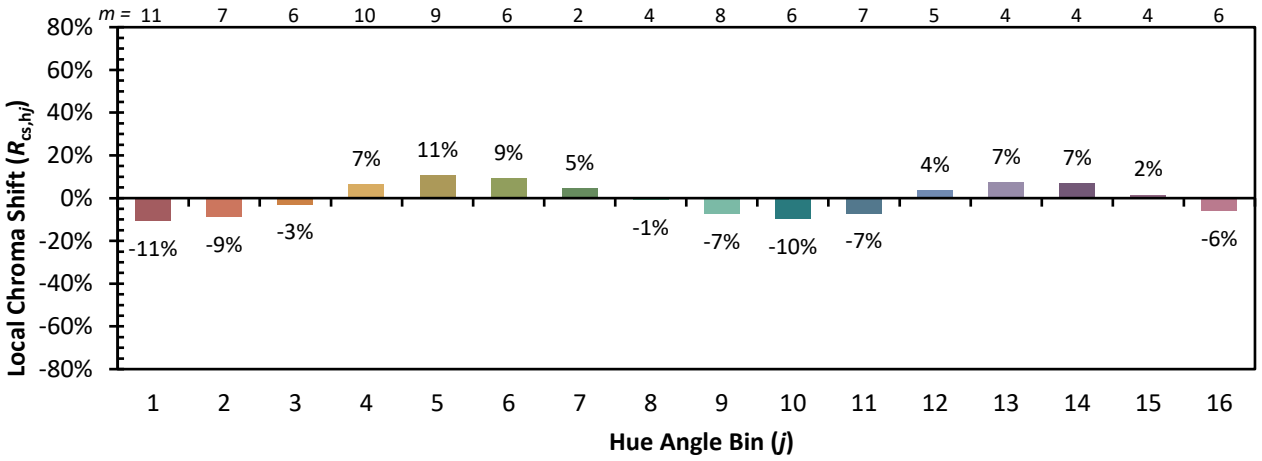
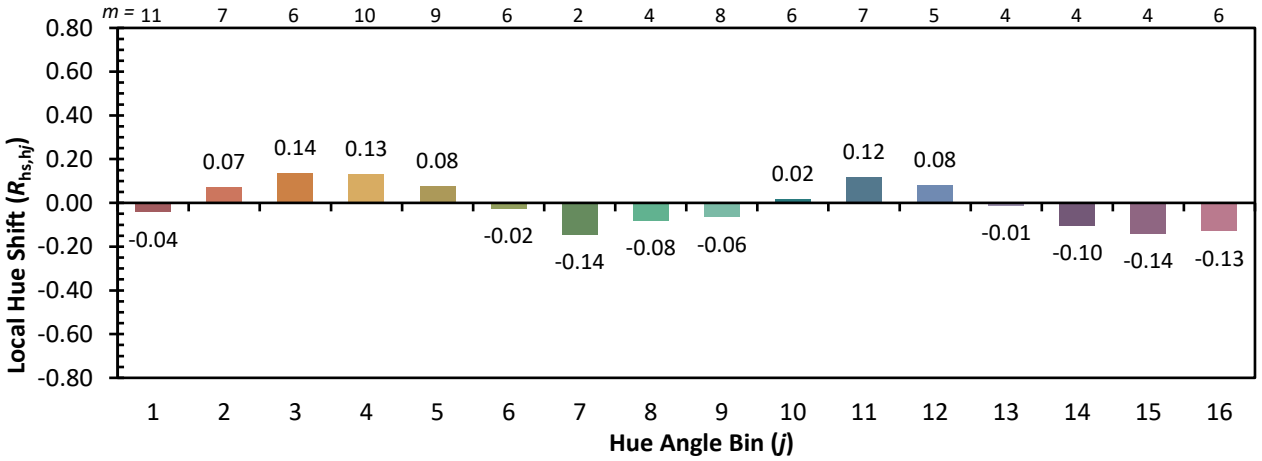
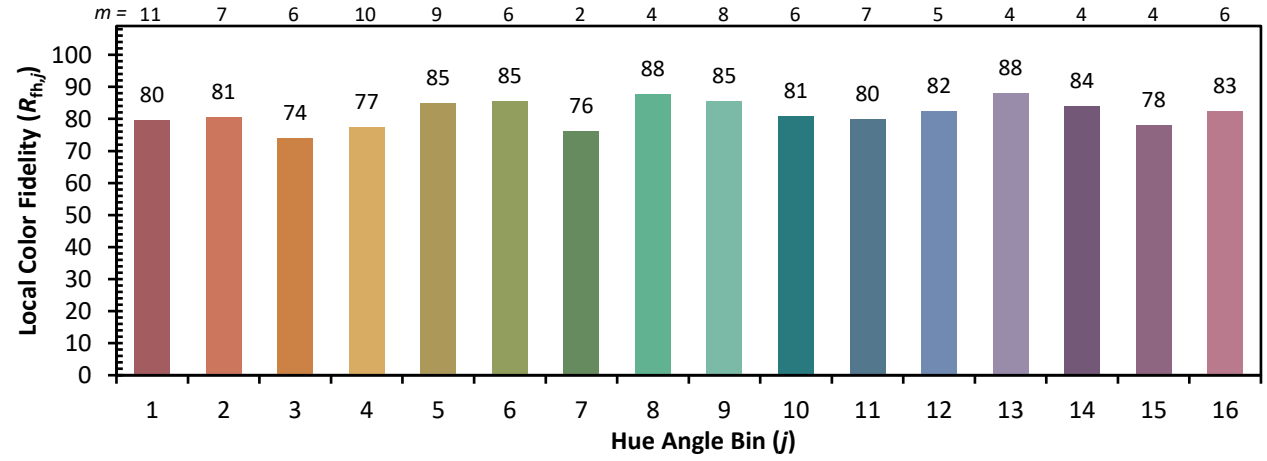
Color Rendition by Hue-Angle Bin







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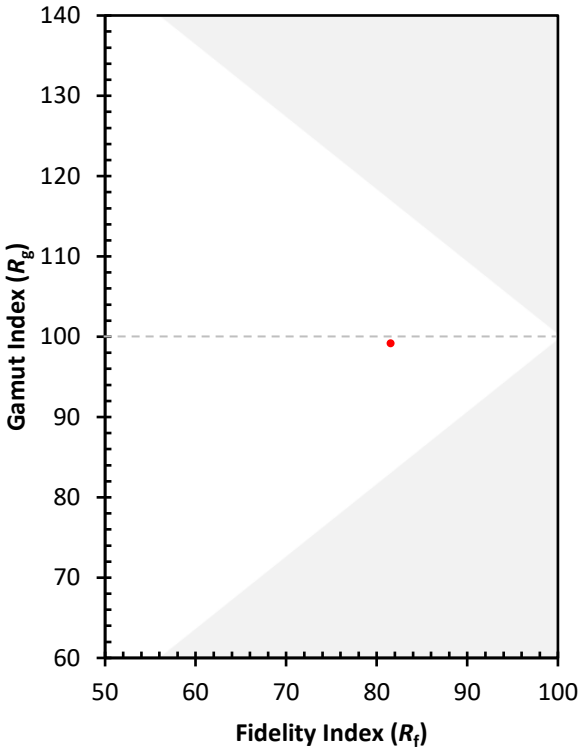
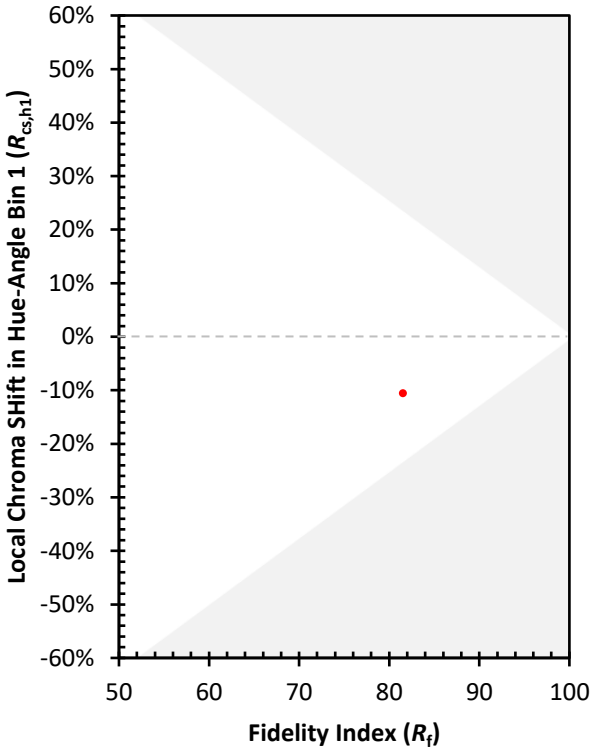
Measure Comparisons





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