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

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P319838

Luminaire Tested: **GLEON-SA4B-830-U-SL3**

Issue Date: 3/3/2020

Report Generated By E0585644

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P319838
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA4B-830-U-SL3
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	18319 lumens
Efficiency:	N/A
Efficacy:	107.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G4

Input Watts (W):	171
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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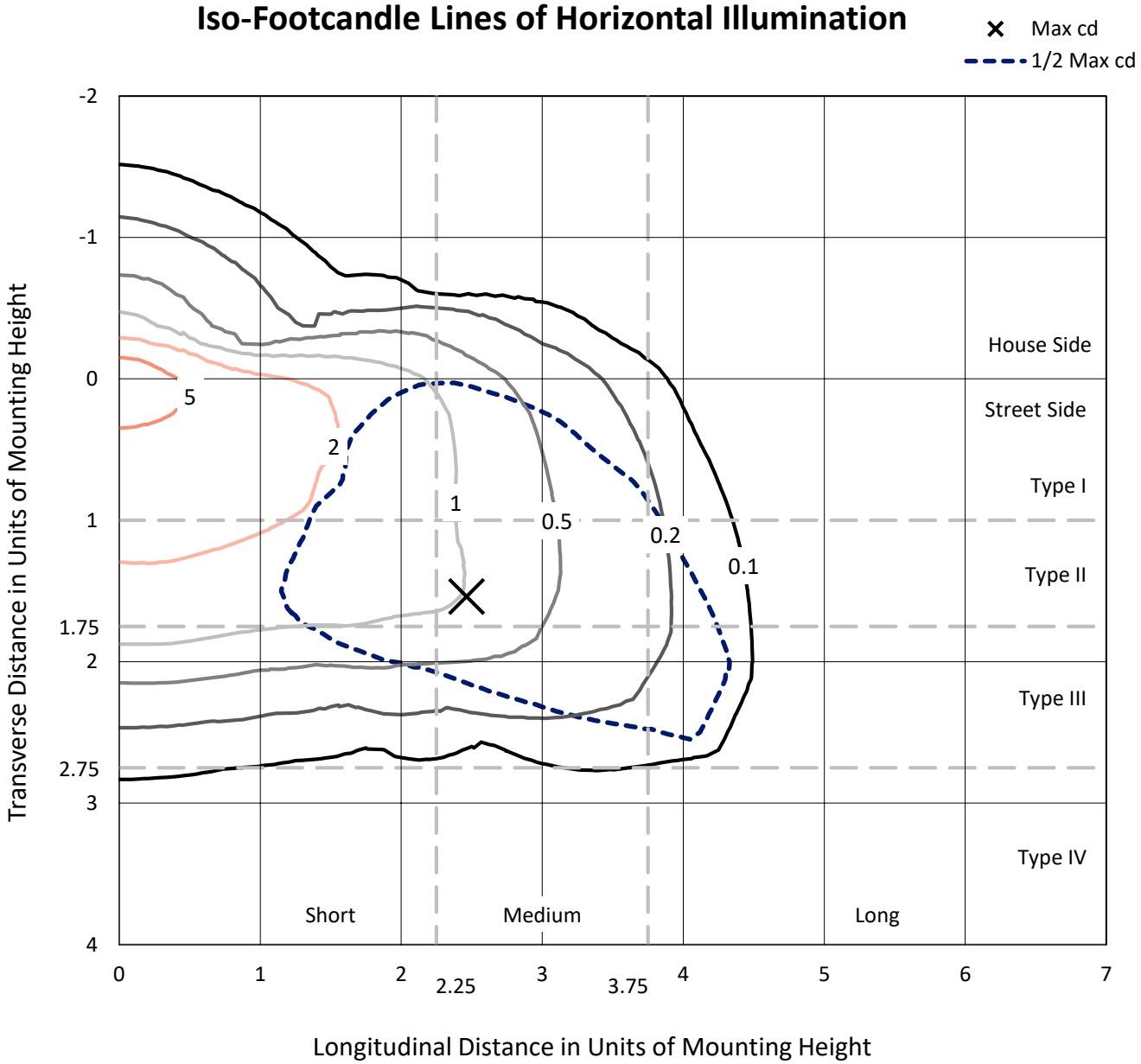
Scaled Data Report

REPORT NUMBER: P319838
CATALOG NUMBER: GLEON-SA4B-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
Type III - Medium - N/A

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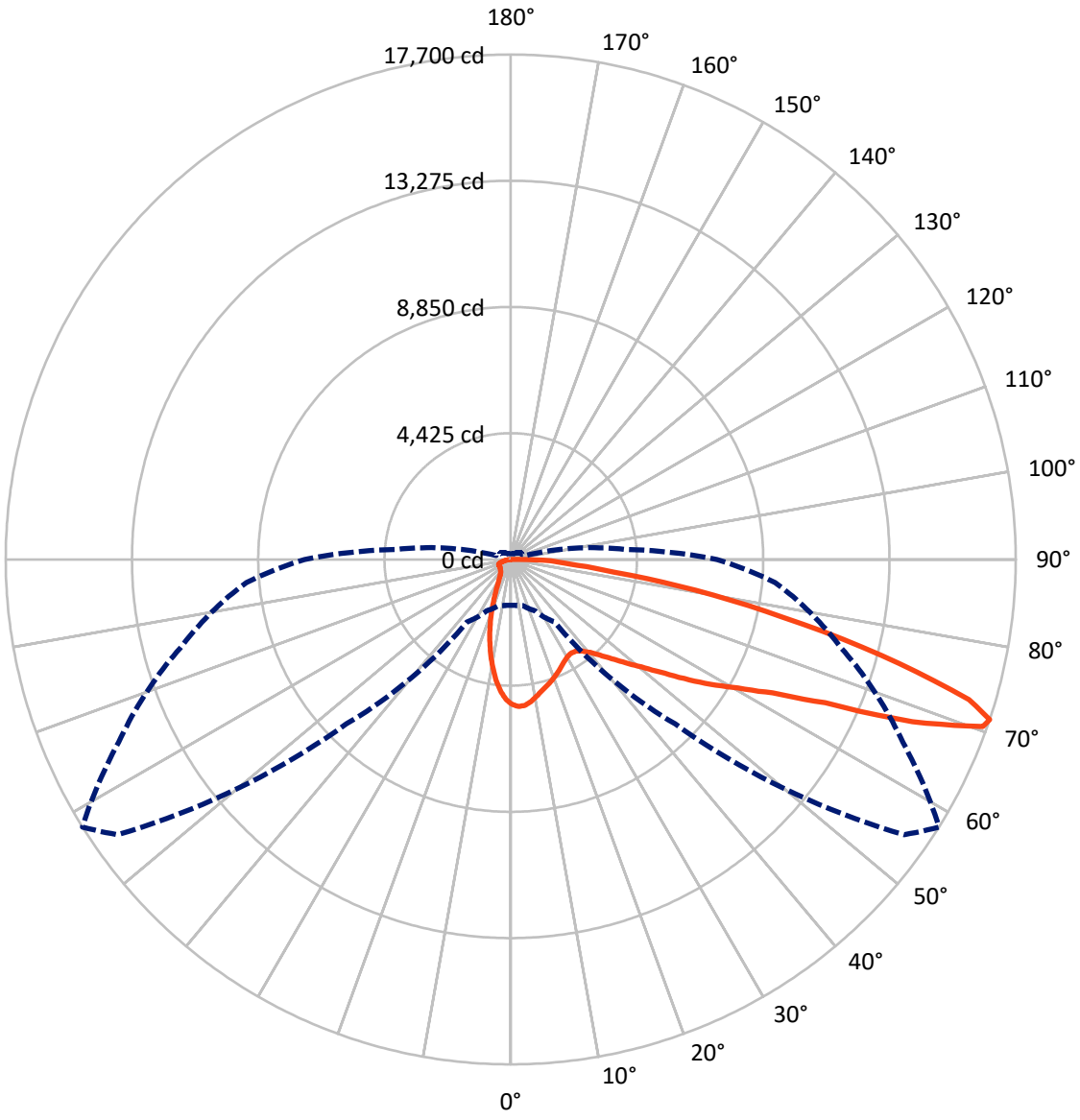
Luminous Intensity Polar Plot



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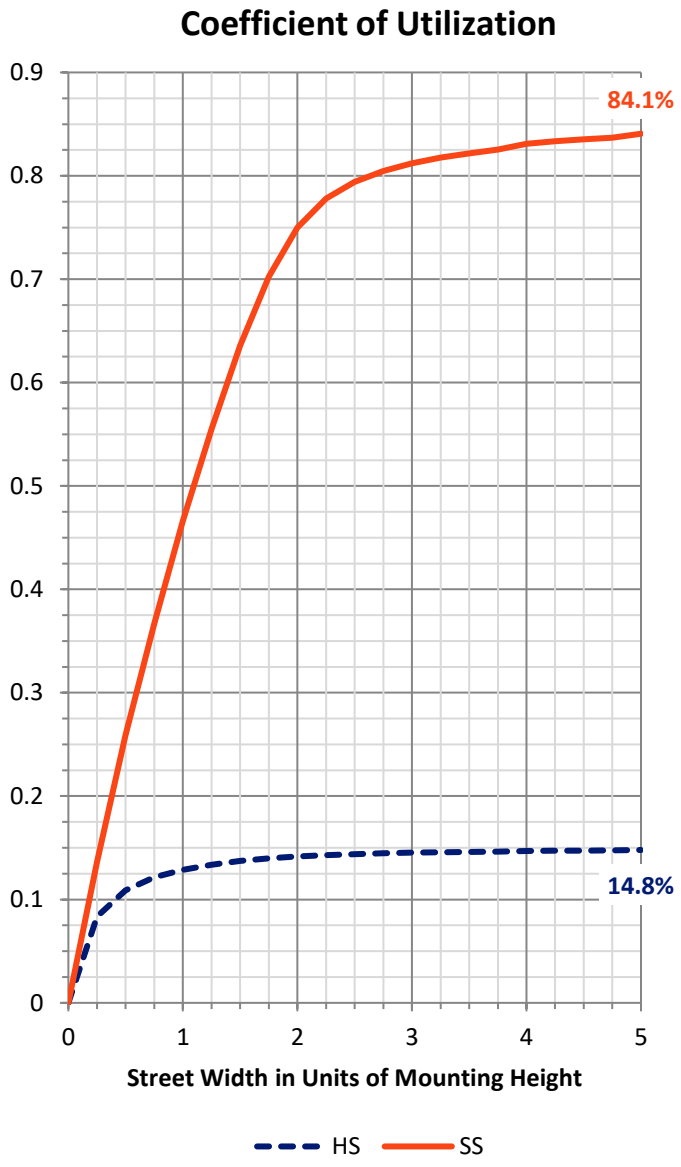
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2738.8	0.0	2738.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	15580.2	0.0	15580.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	18319.0	0.0	18319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.9	2.4
10°-20°	973.7	5.3
20°-30°	1237.4	6.8
30°-40°	1576.2	8.6
40°-50°	2235.2	12.2
50°-60°	3459.0	18.9
60°-70°	4709.0	25.7
70°-80°	3141.4	17.1
80°-90°	549.2	3.0
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°	18319.0	100.0
0°-180°	18319.0	100.0



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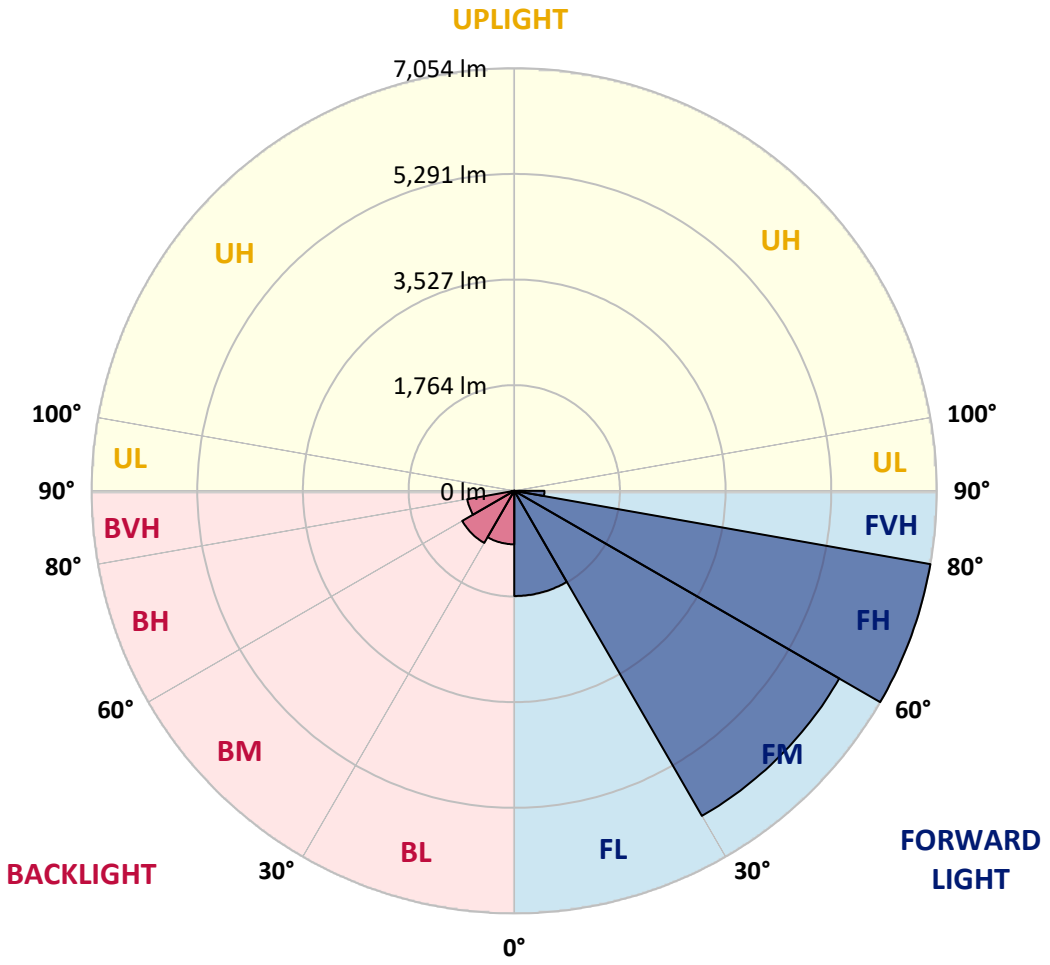
Scaled Data Report

REPORT NUMBER: P319838
CATALOG NUMBER: GLEON-SA4B-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1756.2	9.6			
FM	(30°-60°)	6266.0	34.2			
FH	(60°-80°)	7054.4	38.5			G3/7500
FVH	(80°-90°)	503.6	2.7			G4/750
BL	(0°-30°)	892.8	4.9	B2/1000		
BM	(30°-60°)	1004.4	5.5	B2/2500		
BH	(60°-80°)	796.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	45.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
Type III Medium



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REPORT NUMBER: P319838
CATALOG NUMBER: GLEON-SA4B-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	*5075.6*	5075.6	5075.6	5075.6
2.5°	5210.2	5203.2	5205.8	5200.7	5188.5	5176.4	5158.5	*5161.7*	5136.8	5099.8	5053.9
5°	5112.0	5109.4	5128.6	5139.4	5148.3	5141.3	5136.2	*5142.6*	5106.2	5055.2	4975.4
7.5°	4905.8	4877.8	4902.0	4938.4	4972.9	4999.0	5033.5	*5037.9*	5015.0	4961.4	4856.7
10°	4613.0	4586.2	4621.9	4678.7	4747.6	4810.1	4879.7	*4892.4*	4896.9	4848.4	4721.4
12.5°	4309.2	4288.8	4324.5	4404.3	4518.5	4614.9	4725.9	*4745.0*	4784.6	4752.1	4596.4
15°	4037.4	4029.7	4073.1	4151.6	4283.0	4430.5	4590.6	*4625.7*	4692.7	4681.9	4498.7
17.5°	3802.5	3800.6	3833.8	3916.1	4061.6	4247.9	4456.0	*4515.3*	4614.9	4627.6	4418.3
20°	3627.7	3623.9	3646.8	3707.5	3857.4	4068.6	4310.5	*4392.2*	4535.7	4580.4	4335.4
22.5°	3533.9	3533.3	3533.9	3562.6	3685.1	3881.7	4168.8	*4268.4*	4458.5	4542.8	4243.5
25°	3517.9	3516.0	3502.0	3498.8	3568.4	3725.3	4028.4	*4138.2*	4385.1	4516.6	4156.1
27.5°	3559.4	3562.0	3543.5	3513.5	3527.5	3622.6	3906.6	*4024.0*	4326.4	4511.5	4095.4
30°	3645.6	3644.3	3628.3	3597.1	3569.6	3584.3	3819.8	*3937.2*	4286.9	4533.8	4054.0
32.5°	3740.6	3747.7	3744.5	3727.2	3686.4	3627.7	3793.6	*3908.5*	4275.4	4587.4	4036.1
35°	3854.9	3862.5	3885.5	3898.9	3851.0	3756.6	3849.8	*3949.3*	4308.6	4688.3	4064.8
37.5°	3963.3	3983.1	4047.6	4104.4	4063.5	3958.2	3999.1	*4069.9*	4411.3	4847.1	4142.0
40°	4088.4	4105.6	4210.9	4331.5	4325.2	4216.0	4239.7	*4286.9*	4592.5	5074.9	4281.8
42.5°	4211.6	4246.0	4398.5	4569.6	4618.7	4522.3	4560.0	*4584.9*	4847.8	5376.8	4525.5
45°	4375.6	4412.6	4624.4	4830.6	4945.4	4891.2	4951.2	*4960.7*	5168.8	5787.7	4879.7
47.5°	4623.8	4665.9	4912.9	5129.2	5304.7	5310.4	5409.3	*5405.5*	5569.5	6258.0	5325.7
50°	5010.5	5071.1	5273.4	5475.7	5688.8	5807.5	5939.6	*5921.1*	6050.0	6758.9	5839.4
52.5°	5517.2	5545.2	5695.2	5844.5	6109.3	6375.4	6565.0	*6548.4*	6594.9	7273.9	6422.7
55°	6042.3	6063.4	6125.3	6207.0	6563.0	6997.0	7397.7	*7371.5*	7253.5	7808.6	6998.9
57.5°	6514.5	6557.3	6600.1	6633.9	7019.9	7646.6	8249.6	*8251.5*	7968.2	8385.5	7594.2
60°	6587.9	6625.6	6908.3	7175.0	7801.6	8513.1	9161.5	*9142.3*	8707.8	9011.5	8257.9
62.5°	5823.5	5908.3	6380.5	7090.1	8554.6	10098.2	10324.7	*10301.1*	9592.2	9783.0	9030.6
65°	4173.3	4269.6	4839.5	5905.8	8189.6	11844.7	12424.2	*12106.4*	10798.2	10731.9	9935.5
67.5°	2407.6	2430.6	2677.5	3533.9	6235.7	11936.0	15626.9	*15182.1*	12671.1	11808.4	10378.3
70°	1780.3	1779.7	1838.4	2174.7	3374.4	9741.5	17150.0	*17548.9*	14642.9	12162.5	9752.4
71°	*1610.0*	*1611.9*	*1677.6*	*1979.4*	*2672.4*	*8153.9*	*16826.5*	*17699.5*	*15162.3*	*11987.7*	*9299.3*
72.5°	1377.1	1383.4	1474.7	1775.2	2248.1	5623.1	15432.9	*16795.9*	15408.6	11556.3	8590.3
75°	1044.6	1059.3	1185.6	1496.4	2054.7	2851.7	11326.6	*13412.0*	13688.3	10197.1	6383.1
77.5°	745.3	761.9	904.9	1258.4	1953.3	2149.2	7585.3	*9783.0*	10073.3	6535.0	2879.2
80°	470.9	490.7	598.6	1001.2	1835.2	2040.7	4766.7	*6575.8*	5492.9	2091.1	732.6
82.5°	276.3	291.6	371.4	654.1	1498.9	1965.4	2804.5	*3644.9*	2137.7	631.7	333.1
85°	160.2	167.2	231.6	416.7	1088.6	1855.0	2060.5	*2037.5*	927.8	308.8	157.6
87.5°	74.7	83.0	137.2	217.6	604.3	1344.5	1628.5	*1407.0*	576.9	144.9	74.0
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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Scaled Data Report

REPORT NUMBER: P319838
CATALOG NUMBER: GLEON-SA4B-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6
2.5°	5031.6	5020.7	4975.4	4935.2	4893.1	4838.2	4777.6	4769.9	4732.9	4739.9	4727.2
5°	4932.0	4904.6	4795.5	4696.5	4579.8	4475.1	4361.5	4309.2	4233.9	4228.8	4209.7
7.5°	4789.7	4738.7	4569.6	4382.0	4194.3	4015.7	3838.9	3722.8	3604.1	3553.7	3549.2
10°	4629.5	4542.8	4293.9	4016.3	3745.8	3484.8	3232.1	3045.1	2876.6	2796.9	2793.7
12.5°	4477.7	4349.4	4008.0	3630.3	3260.1	2921.9	2575.4	2329.8	2118.6	2047.7	2017.7
15°	4348.8	4168.2	3729.8	3246.7	2797.5	2327.9	1933.5	1675.1	1479.8	1412.2	1399.4
17.5°	4223.7	3991.4	3444.6	2859.4	2316.4	1800.1	1405.1	1213.1	1109.0	1081.6	1081.0
20°	4099.3	3809.6	3146.6	2463.1	1851.2	1346.4	1080.3	994.2	959.1	955.9	950.8
22.5°	3958.2	3616.9	2833.2	2065.6	1444.7	1058.6	918.3	883.8	879.3	890.8	890.8
25°	3826.2	3425.4	2515.5	1676.3	1123.7	883.2	820.0	813.0	825.1	845.5	847.4
27.5°	3703.0	3241.0	2205.3	1330.5	900.4	777.9	751.7	760.0	781.7	805.3	805.9
30°	3601.5	3066.8	1904.1	1048.4	760.6	699.4	694.9	711.5	735.1	753.6	758.1
32.5°	3523.0	2918.1	1613.2	843.0	669.4	640.7	644.5	658.5	673.2	683.4	690.4
35°	3486.7	2790.5	1344.5	710.9	611.3	595.4	600.5	608.1	614.5	622.2	627.9
37.5°	3493.1	2691.6	1104.6	628.5	572.4	564.1	564.1	564.1	564.1	567.9	568.6
40°	3552.4	2634.8	909.3	576.2	546.2	537.3	530.3	523.9	518.8	521.3	520.1
42.5°	3704.3	2629.7	766.4	543.0	525.2	510.5	496.5	487.5	481.1	483.7	485.0
45°	3962.1	2693.5	670.0	519.4	505.4	483.1	465.2	455.6	451.1	459.4	460.7
47.5°	4295.8	2832.6	611.3	502.2	486.9	457.5	438.4	429.5	430.7	442.9	446.0
50°	4725.9	3058.5	583.2	491.4	474.1	435.8	416.1	408.4	412.2	429.5	433.3
52.5°	5198.1	3383.9	586.4	488.2	465.8	419.9	398.8	389.9	396.3	412.2	415.4
55°	5743.1	3775.1	639.4	492.6	453.7	409.7	384.8	369.5	374.6	389.3	391.8
57.5°	6348.6	4223.1	746.0	491.4	438.4	400.1	370.1	347.1	351.0	359.9	362.5
60°	6979.1	4764.2	911.2	495.2	431.4	388.6	350.3	321.6	320.3	328.0	329.3
62.5°	7735.9	5390.2	1100.1	497.7	435.8	373.9	324.2	296.1	292.3	294.2	295.4
65°	8515.7	5843.2	1029.3	487.5	449.9	361.8	301.2	271.2	264.2	262.9	263.5
67.5°	8539.9	5357.6	721.7	467.1	455.6	355.4	284.0	250.1	238.7	234.2	233.6
70°	7658.7	4352.6	562.2	445.4	432.6	345.2	268.0	232.9	215.7	208.7	208.0
71°	*7228.6*	*4006.7*	*532.8*	*434.6*	*415.4*	*335.0*	*261.0*	*225.3*	*207.4*	*199.7*	*198.5*
72.5°	6554.1	3592.0	497.1	417.3	382.2	308.8	247.6	214.4	195.9	187.0	185.1
75°	4703.6	2348.9	426.9	372.0	316.5	246.3	217.0	192.7	176.8	165.9	164.6
77.5°	1812.3	934.8	322.9	309.5	242.5	192.7	178.7	166.5	155.1	144.2	143.6
80°	560.3	418.0	235.5	232.9	175.5	143.6	139.1	135.9	131.5	120.0	117.4
82.5°	299.3	239.9	162.1	150.6	114.9	95.7	100.8	102.1	102.7	90.6	89.3
85°	142.9	127.0	91.3	85.5	67.0	53.6	61.9	67.0	67.6	55.5	51.7
87.5°	68.3	66.4	42.8	32.5	24.9	17.9	21.7	26.8	29.4	21.1	18.5
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

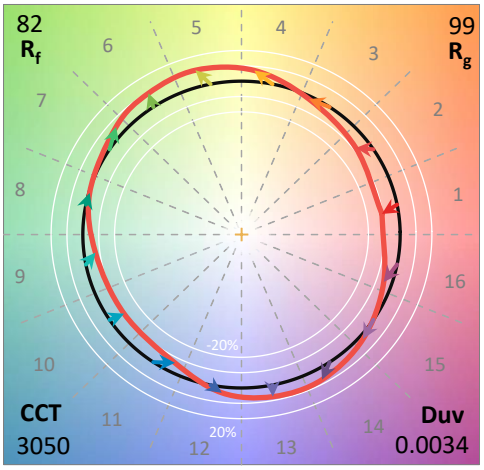
Test Information

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

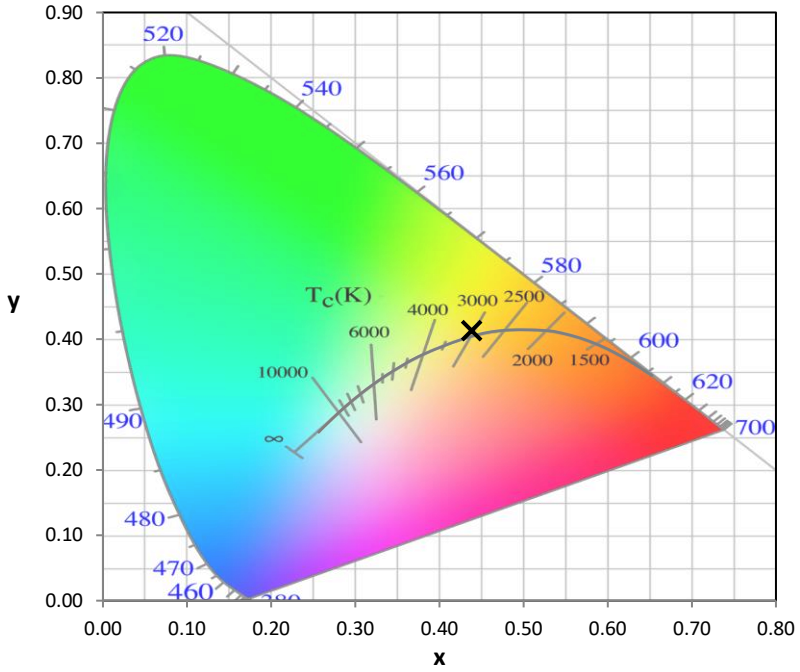
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

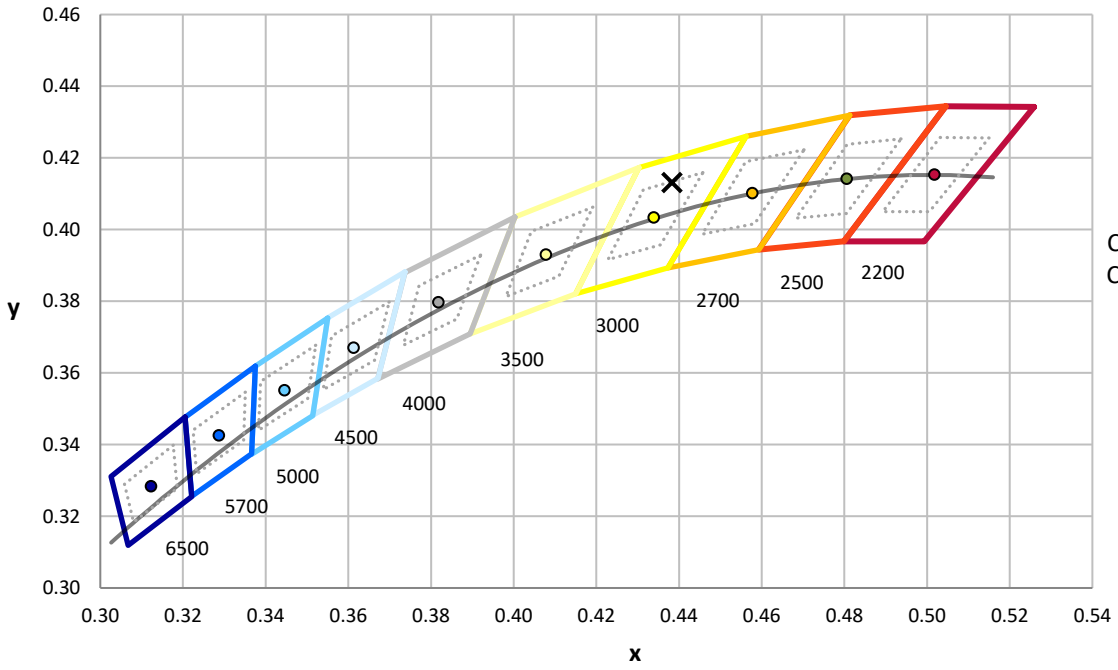
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

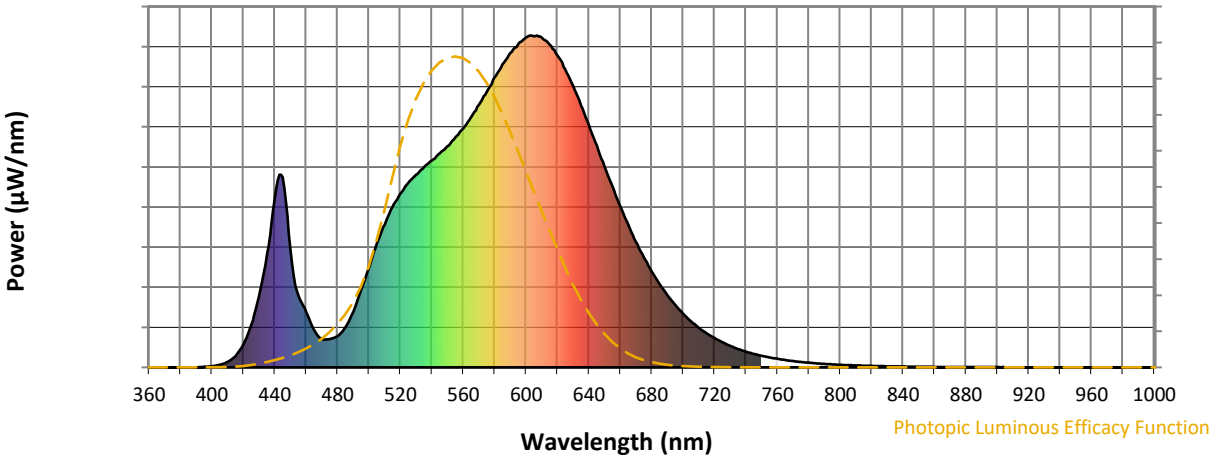


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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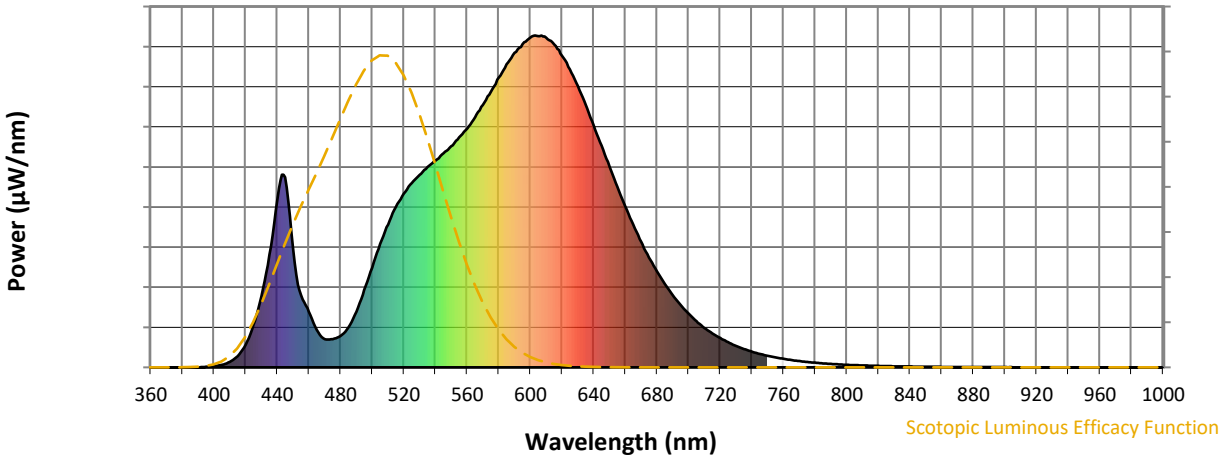
Scotopic Flux vs. Wavelength



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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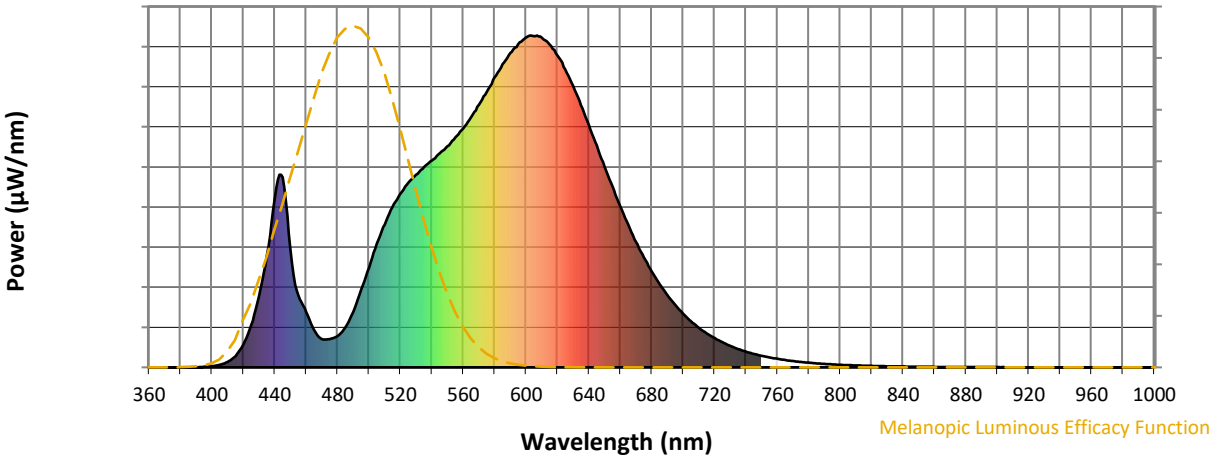
Melanopic Flux vs. Wavelength



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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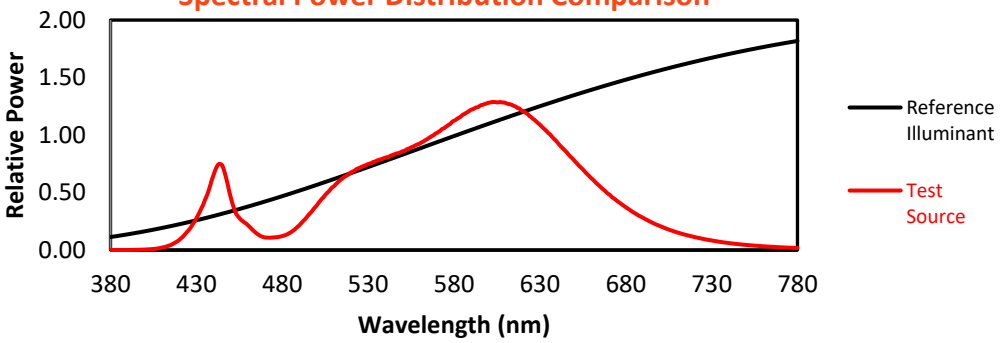
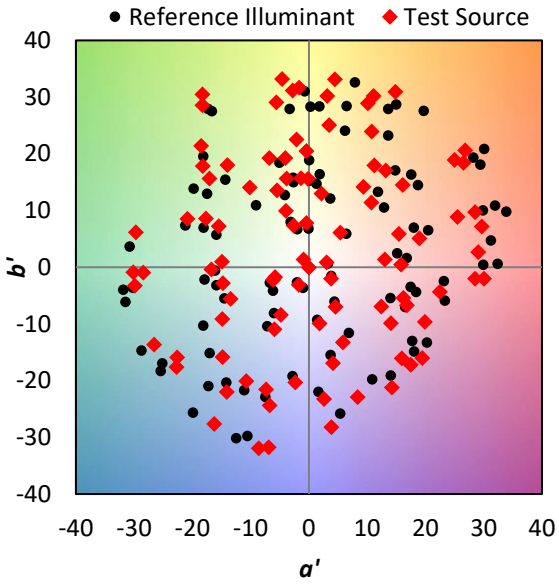
Summary

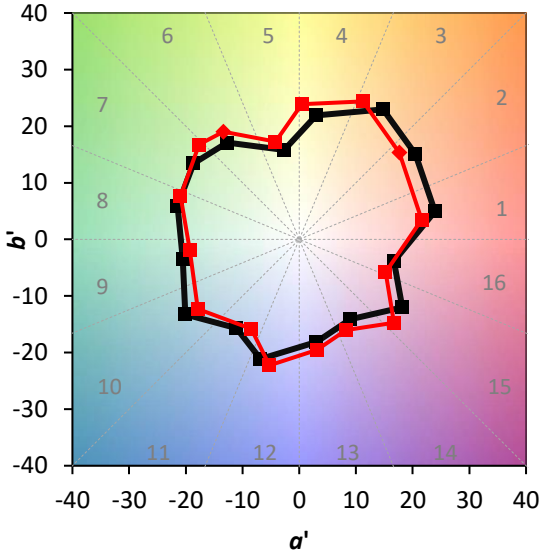
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

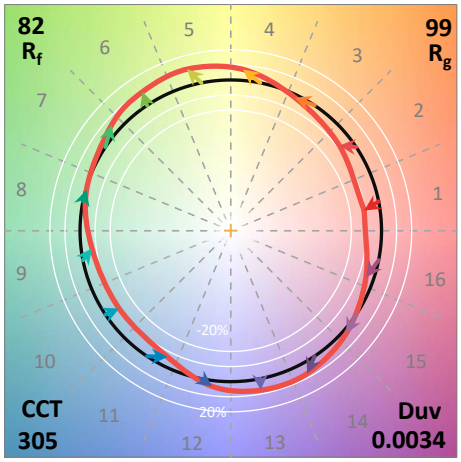
Spectral Power Distribution Comparison

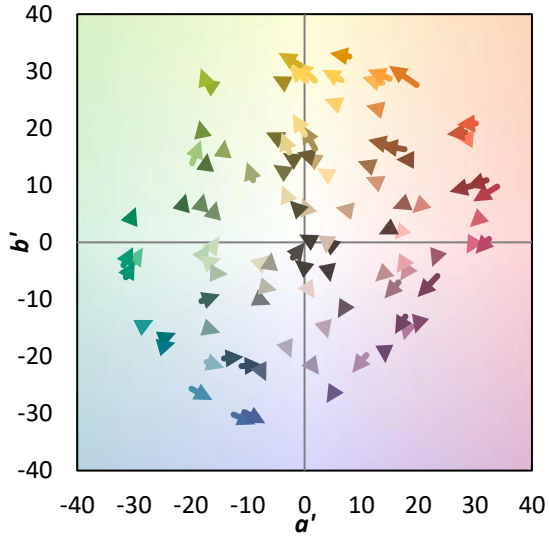


Color Vector Graphics









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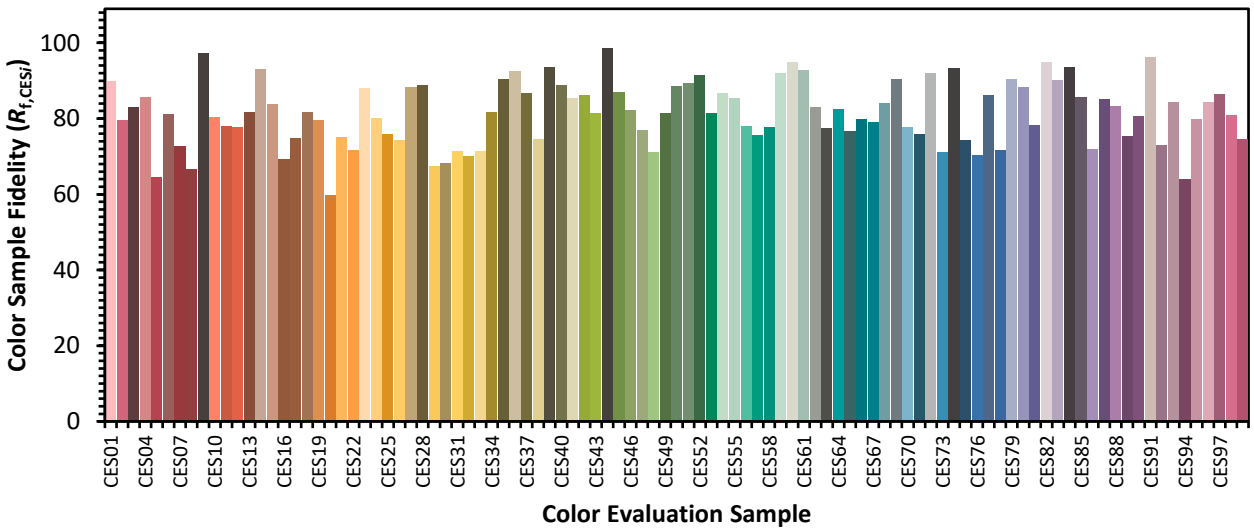
Individual Sample Fidelity Index ($R_{f,i}$)

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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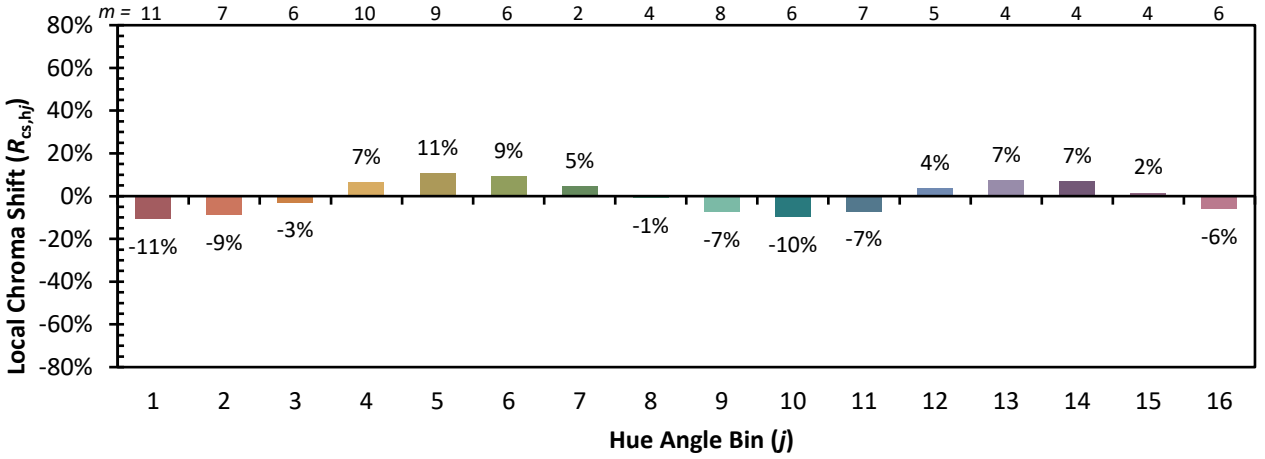
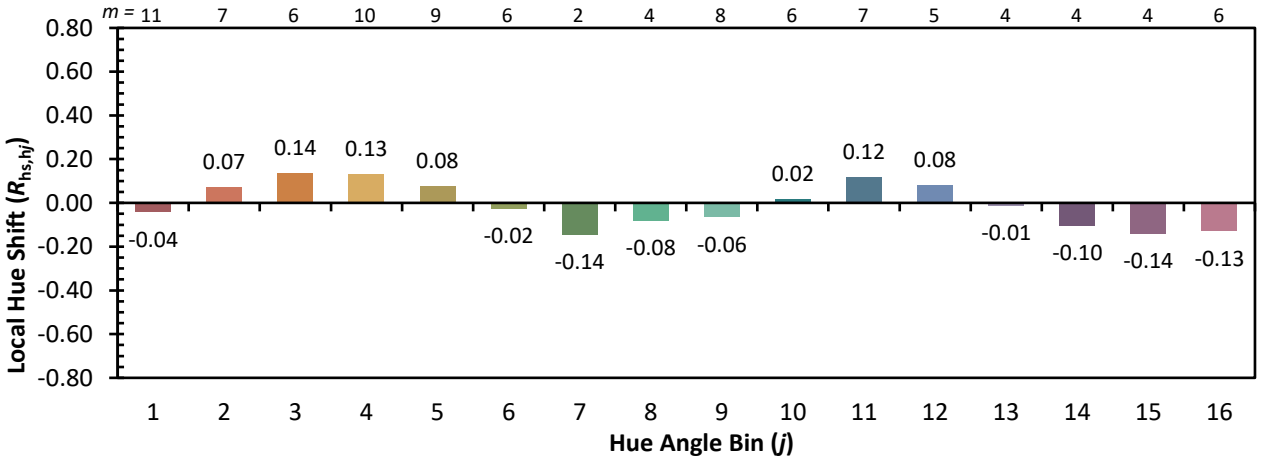
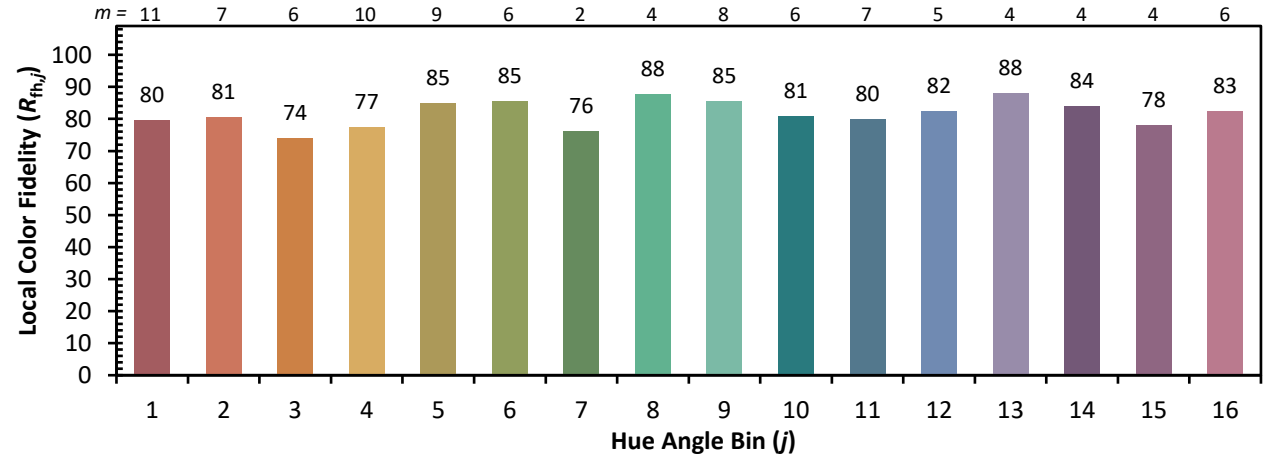
Color Rendition by Hue-Angle Bin







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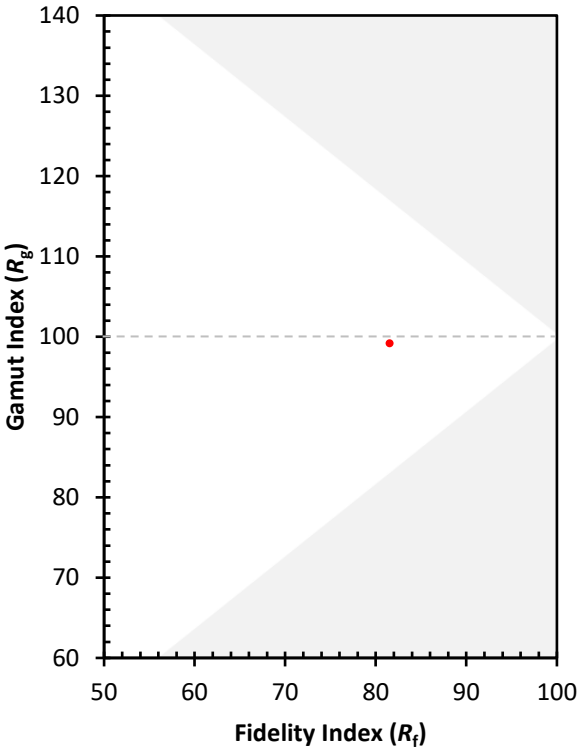
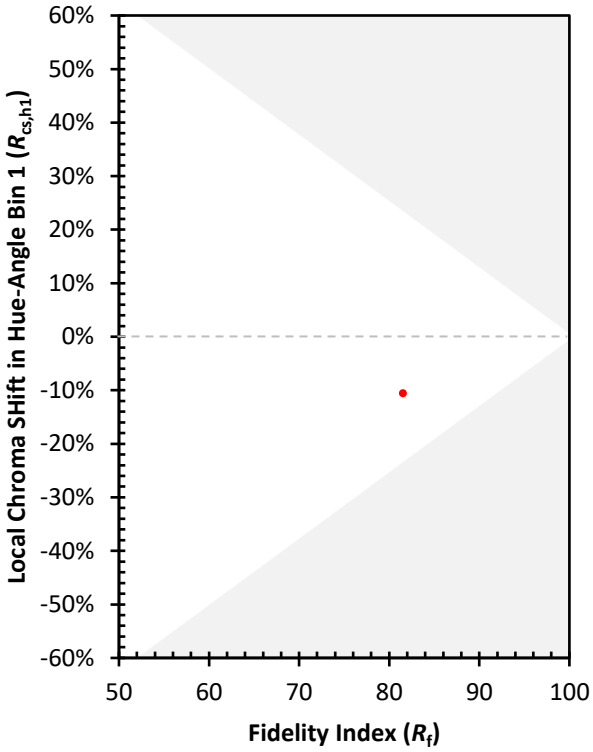
Measure Comparisons





(END OF REPORT)