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: P323359

Luminaire Tested: **GLEON-SA5B-830-U-SL2-HSS**

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:	P323359
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA5B-830-U-SL2-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	18799 lumens
Efficiency:	N/A
Efficacy:	89.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G3

Input Watts (W):	210
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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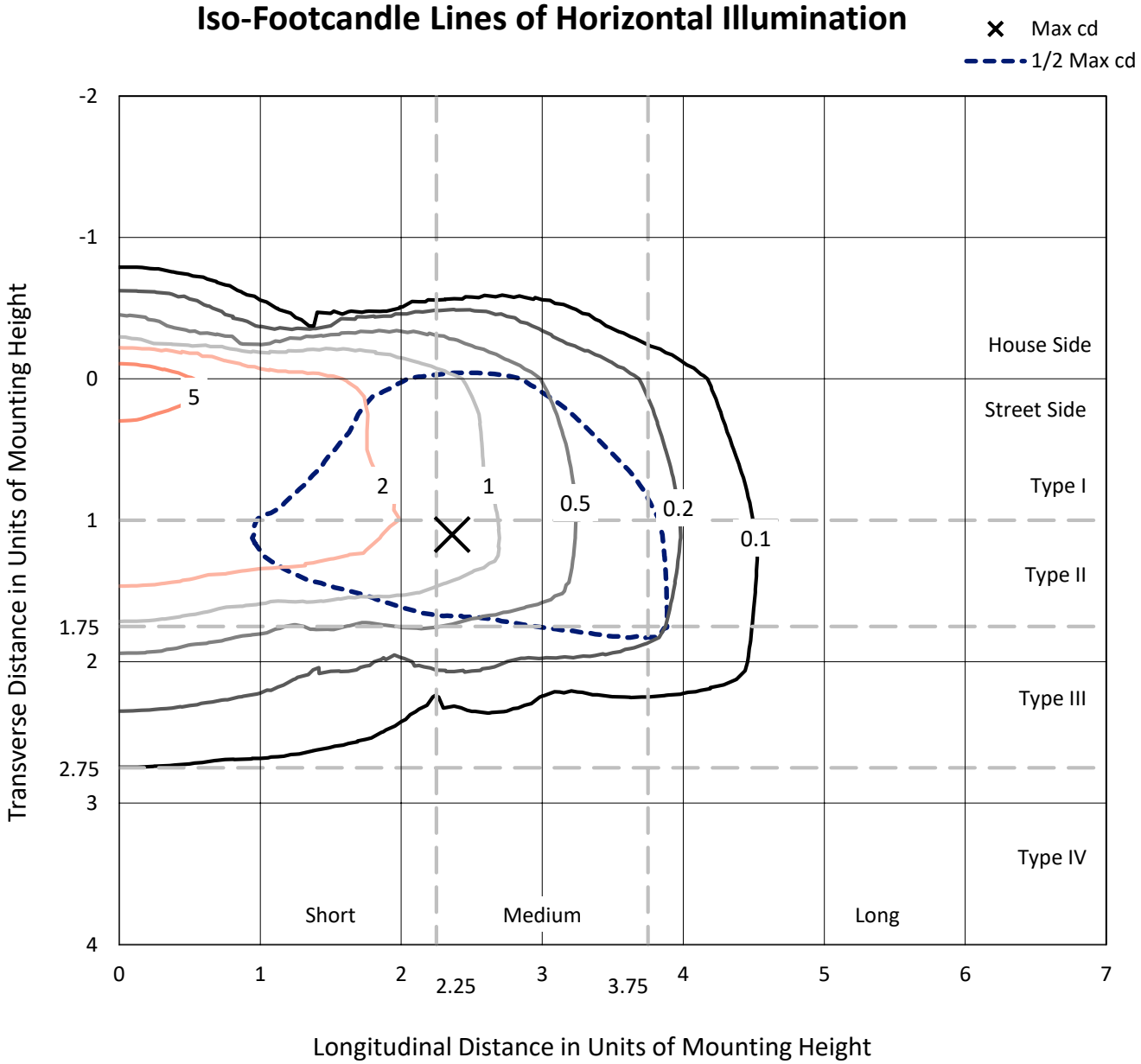
Scaled Data Report

REPORT NUMBER: P323359
CATALOG NUMBER: GLEON-SA5B-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type III - Medium - N/A

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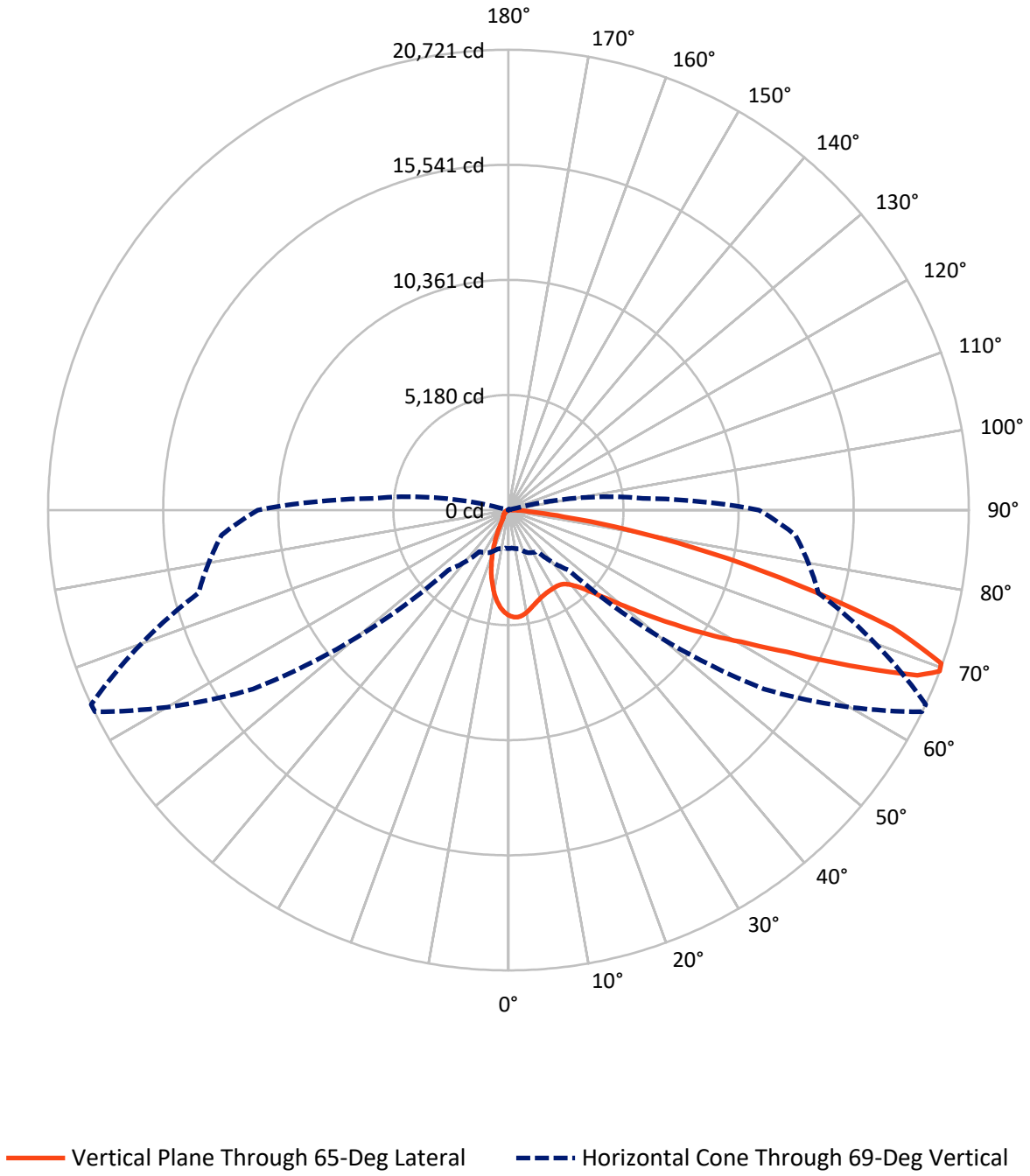
Luminous Intensity Polar Plot



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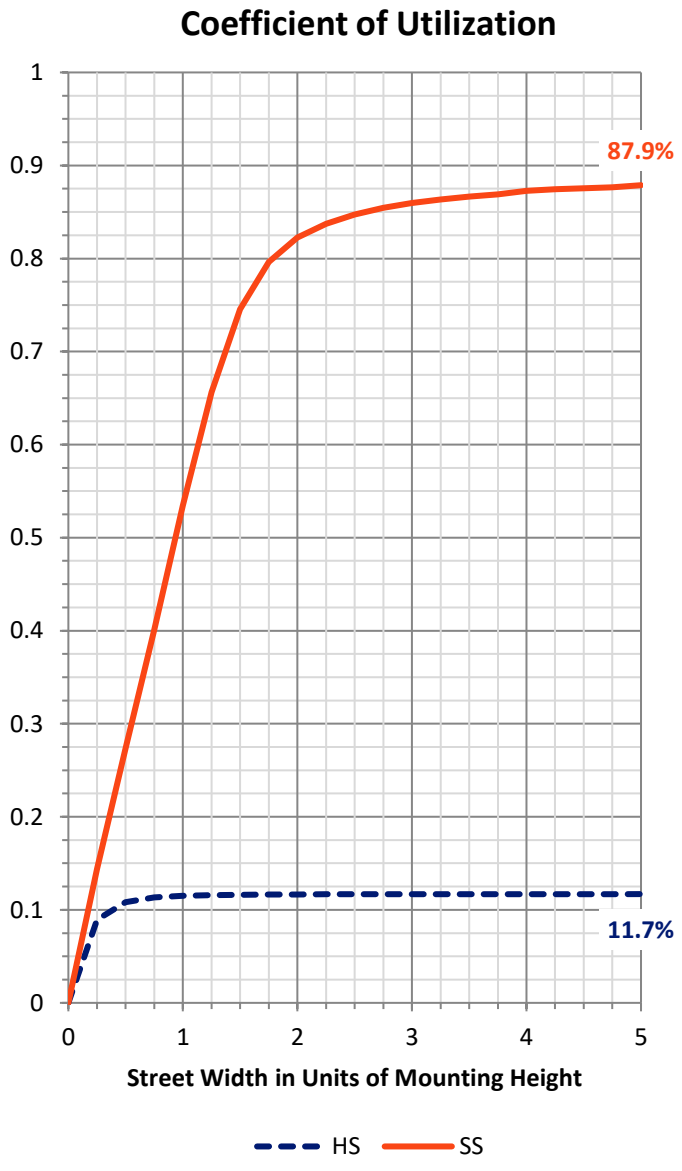
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2216.0	0.0	2216.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	16583.0	0.0	16583.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	18799.0	0.0	18799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.2	2.1
10°-20°	869.6	4.6
20°-30°	1204.4	6.4
30°-40°	1679.3	8.9
40°-50°	2610.2	13.9
50°-60°	4190.4	22.3
60°-70°	4740.1	25.2
70°-80°	2783.9	14.8
80°-90°	323.8	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°	18799.0	100.0
0°-180°	18799.0	100.0



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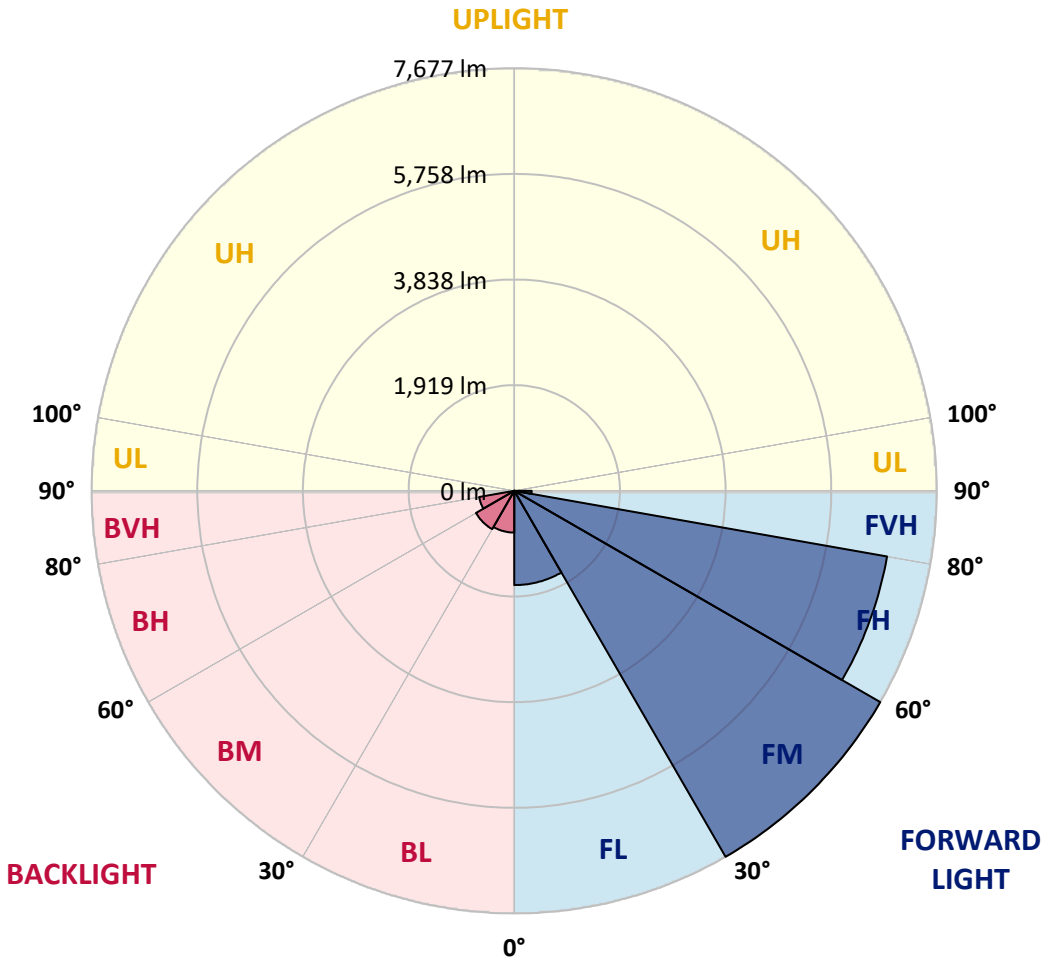
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1713.0	9.1			
FM	(30°-60°)	7677.0	40.8			
FH	(60°-80°)	6876.5	36.6			G3/7500
FVH	(80°-90°)	316.6	1.7			G3/500
BL	(0°-30°)	758.2	4.0	B2/1000		
BM	(30°-60°)	803.0	4.3	B1/1000		
BH	(60°-80°)	647.5	3.4	B2/1000		G2/1000
BVH	(80°-90°)	7.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type III Medium



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REPORT NUMBER: P323359
CATALOG NUMBER: GLEON-SA5B-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5
2.5°	4792.7	4780.8	4790.3	4811.0	4821.3	4821.3	4829.3	4819.7	4822.9	4799.9	4766.4
5°	4492.8	4474.5	4500.8	4558.8	4630.4	4691.7	4782.4	4830.1	4834.9	4835.7	4796.7
7.5°	4169.8	4153.1	4192.1	4260.5	4352.8	4466.6	4624.9	4763.3	4771.2	4846.0	4817.4
10°	3907.3	3895.4	3940.8	4013.9	4122.1	4249.4	4443.5	4636.0	4659.1	4824.5	4814.2
12.5°	3698.9	3689.4	3732.3	3816.7	3927.2	4068.0	4270.9	4494.4	4525.4	4776.0	4798.3
15°	3547.0	3545.4	3581.2	3662.3	3784.8	3916.1	4123.7	4363.1	4398.9	4723.5	4795.9
17.5°	3467.4	3469.8	3496.1	3565.3	3670.3	3800.8	3999.6	4252.6	4291.6	4676.6	4807.8
20°	3459.5	3461.9	3476.2	3515.2	3600.3	3715.6	3898.6	4159.5	4200.1	4641.6	4826.9
22.5°	3529.5	3527.9	3531.9	3527.9	3575.6	3663.1	3831.8	4087.9	4134.8	4618.5	4842.0
25°	3663.9	3661.5	3660.0	3630.5	3598.7	3645.6	3803.9	4047.3	4091.9	4601.8	4850.8
27.5°	3850.9	3849.3	3846.9	3798.4	3702.9	3673.5	3807.1	4032.2	4069.6	4588.3	4849.2
30°	4096.7	4107.8	4104.6	4037.0	3888.3	3758.6	3840.5	4024.3	4056.9	4562.0	4832.5
32.5°	4385.4	4407.7	4425.2	4352.8	4166.7	3927.2	3917.7	4033.0	4056.9	4542.1	4802.2
35°	4685.3	4713.9	4778.4	4752.9	4507.9	4181.0	4050.5	4085.5	4105.4	4553.3	4787.9
37.5°	4980.4	5014.6	5154.6	5228.6	4955.0	4516.7	4257.3	4215.2	4225.5	4620.9	4803.8
40°	5323.3	5375.0	5587.4	5706.7	5488.7	4966.1	4566.8	4437.9	4441.9	4769.6	4877.8
42.5°	5773.5	5826.8	6056.7	6243.6	6090.1	5534.1	4986.8	4778.4	4774.4	5048.0	5052.0
45°	6322.4	6378.1	6615.9	6823.5	6754.3	6207.0	5524.5	5275.5	5270.8	5487.1	5382.1
47.5°	6944.4	6999.3	7211.7	7425.7	7500.5	6993.0	6209.4	5954.1	5942.9	6097.3	5892.0
50°	7478.2	7514.0	7709.7	7997.6	8334.9	7958.7	7061.4	6815.6	6803.6	6907.9	6640.6
52.5°	7672.3	7693.0	7891.8	8295.1	9136.8	9266.4	8180.6	7864.0	7855.3	7900.6	7637.3
55°	7279.3	7316.7	7560.9	8159.1	9571.1	10744.4	9593.4	9162.2	9096.2	8998.3	8679.4
57.5°	6208.6	6268.3	6530.8	7326.3	9368.2	11916.9	11669.5	10630.6	10533.6	9935.4	9526.5
60°	4651.9	4725.1	4943.0	5801.4	8285.6	12334.5	13938.2	12266.9	12048.2	10681.6	10305.3
62.5°	3192.2	3228.8	3376.8	3936.0	6102.0	11650.4	15836.2	14458.4	14059.1	11492.9	11147.7
65°	2438.1	2450.8	2511.3	2703.8	3633.7	9463.7	16591.1	17350.0	16867.1	12463.4	12021.9
67.5°	1964.8	1954.5	2038.0	2313.2	2433.3	5773.5	15710.5	20085.6	19859.7	13760.8	12901.7
69°	1732.5	1718.2	1803.3	2123.1	2285.4	3816.7	14044.8	20706.9	20721.2	14445.7	12962.2
70°	1559.1	1568.7	1653.0	2010.1	2235.3	2995.7	12453.9	20548.6	20661.5	14701.9	12599.4
72.5°	1041.3	1066.7	1236.2	1668.9	2149.4	2267.1	7519.6	17633.2	18067.5	14125.1	10809.6
75°	587.1	606.1	807.4	1258.4	2025.3	2158.9	3971.8	12990.8	13410.8	11811.9	8335.7
77.5°	288.0	298.3	456.6	812.2	1693.6	2057.1	2252.8	8824.1	9303.8	7709.7	4714.7
80°	121.7	127.3	228.3	501.1	1210.7	1963.2	1672.9	5430.7	5490.3	3020.4	1256.0
82.5°	46.9	48.5	96.3	312.6	769.2	1530.5	1399.2	2574.9	2512.9	568.8	286.4
85°	5.6	6.4	35.0	187.7	428.0	787.5	1136.7	1109.7	1027.0	113.0	147.2
87.5°	0.0	0.0	2.4	57.3	127.3	369.1	591.0	460.6	415.2	36.6	76.4
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: P323359
CATALOG NUMBER: GLEON-SA5B-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5
2.5°	4738.6	4730.7	4687.7	4625.7	4566.8	4493.6	4423.6	4381.4	4348.0	4325.8	4352.0
5°	4751.3	4716.3	4585.9	4418.8	4255.0	4070.4	3898.6	3753.0	3695.7	3632.1	3660.7
7.5°	4747.4	4681.3	4446.7	4149.2	3848.5	3537.5	3243.1	3016.4	2898.7	2783.3	2812.8
10°	4727.5	4616.1	4260.5	3819.8	3369.6	2922.6	2504.9	2187.5	2010.1	1849.5	1872.5
12.5°	4683.7	4528.6	4041.0	3442.8	2840.6	2251.2	1762.0	1355.5	1137.5	1041.3	1053.2
15°	4657.5	4443.5	3808.7	3061.0	2275.8	1567.9	1077.1	801.0	701.6	669.8	673.8
17.5°	4644.7	4361.6	3568.5	2624.3	1698.3	998.3	696.0	614.1	592.6	587.1	588.6
20°	4632.0	4278.8	3321.1	2192.3	1170.1	671.4	571.9	548.1	540.1	533.0	534.6
22.5°	4610.5	4199.3	3055.4	1754.8	789.1	544.9	515.5	492.4	475.7	466.9	468.5
25°	4584.3	4115.8	2784.1	1307.0	575.9	486.0	458.2	425.6	405.7	389.8	390.6
27.5°	4542.1	4013.1	2504.1	951.4	483.6	435.1	397.7	361.9	328.5	310.2	310.2
30°	4483.3	3897.0	2193.1	680.9	433.5	385.0	339.7	295.1	259.3	242.6	241.0
32.5°	4418.0	3776.1	1878.9	516.3	393.8	338.1	286.4	239.4	207.6	194.1	193.3
35°	4362.4	3645.6	1565.5	432.7	354.0	292.7	236.3	196.5	171.0	159.9	159.1
37.5°	4326.6	3515.2	1260.0	386.6	318.2	250.6	198.1	162.3	144.0	135.2	134.4
40°	4321.0	3418.1	980.8	351.6	284.8	213.2	165.5	137.6	120.9	111.4	110.6
42.5°	4393.4	3362.4	752.5	322.2	250.6	180.6	140.8	117.7	100.2	90.7	89.9
45°	4583.5	3379.9	579.1	295.9	216.4	152.7	119.3	97.8	81.9	74.8	73.2
47.5°	4930.3	3500.9	460.6	269.7	183.8	129.7	101.8	81.1	67.6	60.5	59.7
50°	5547.6	3784.8	385.0	241.0	153.5	110.6	84.3	66.0	54.9	48.5	47.7
52.5°	6366.9	4290.8	343.6	213.2	127.3	93.9	69.2	52.5	43.0	38.2	37.4
55°	7270.6	4903.3	316.6	183.0	104.2	78.0	54.9	41.4	33.4	29.4	27.8
57.5°	8152.8	5433.8	291.1	153.5	86.7	63.6	43.8	32.6	26.3	22.3	21.5
60°	8963.3	5921.5	261.7	123.3	70.8	50.1	34.2	25.5	20.7	16.7	16.7
62.5°	9831.2	6298.5	221.1	96.3	58.1	38.2	27.8	23.1	16.7	14.3	13.5
65°	10750.8	6578.5	173.4	74.8	45.3	28.6	23.1	23.9	13.5	10.3	9.5
67.5°	11430.1	6522.8	128.1	58.9	35.0	22.3	22.3	25.5	11.9	8.0	7.2
69°	*11280.5*	*6070.2*	*107.4*	*50.9*	*30.2*	*19.1*	*20.7*	*25.5*	*11.1*	*7.2*	*6.4*
70°	10847.0	5569.1	94.7	45.3	27.0	17.5	19.9	24.7	10.3	7.2	6.4
72.5°	9033.3	4194.5	74.0	34.2	21.5	14.3	16.7	21.5	10.3	7.2	5.6
75°	6794.9	2684.7	56.5	24.7	15.9	11.1	12.7	15.9	10.3	6.4	5.6
77.5°	3697.3	968.1	40.6	16.7	11.1	8.8	8.8	11.9	9.5	4.8	3.2
80°	950.6	243.4	25.5	11.1	8.8	6.4	5.6	8.0	5.6	0.8	0.0
82.5°	234.7	54.9	13.5	8.0	6.4	2.4	2.4	4.0	2.4	0.0	0.0
85°	128.9	27.0	8.8	5.6	3.2	0.0	0.0	0.8	0.0	0.0	0.0
87.5°	66.0	8.0	2.4	1.6	0.8	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

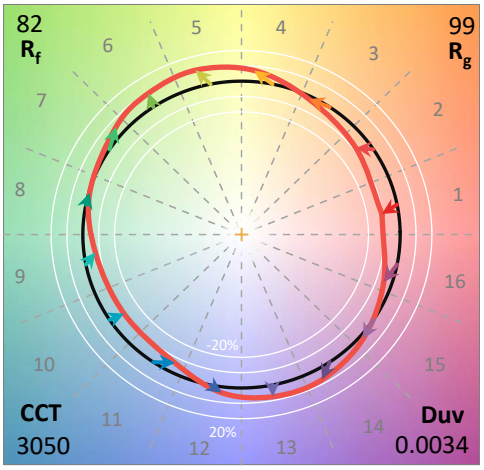
Test Information

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

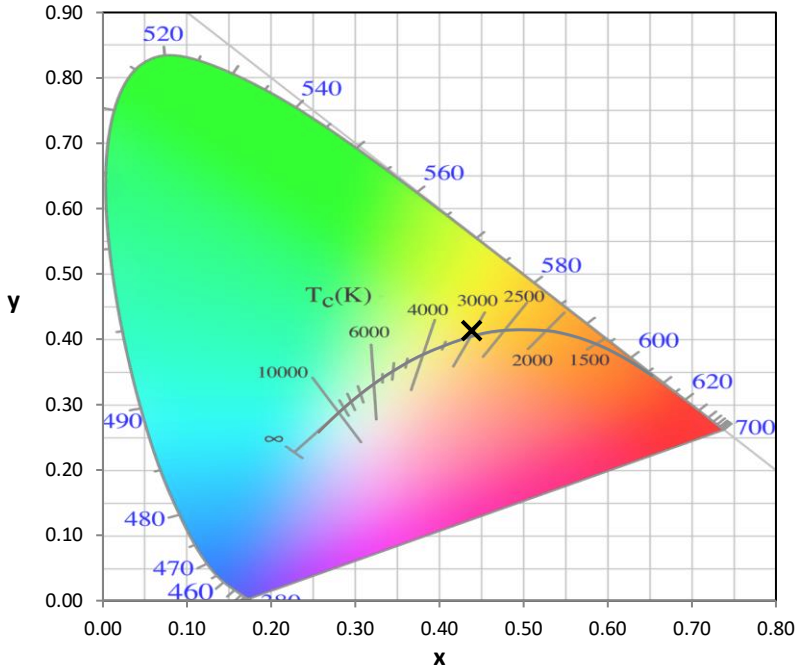
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

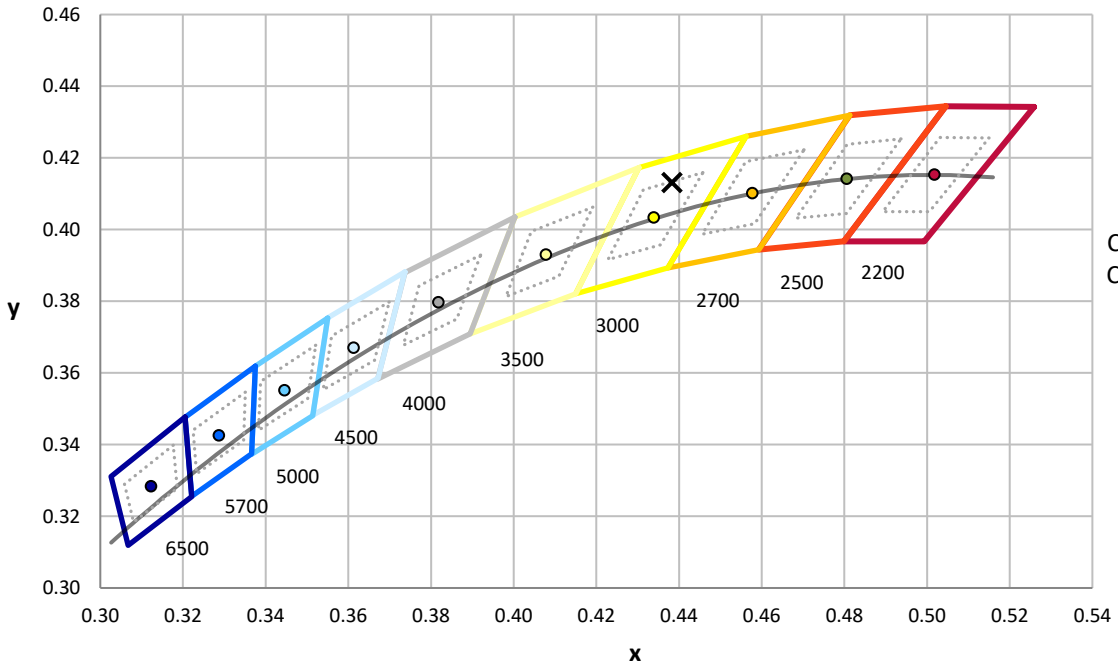
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

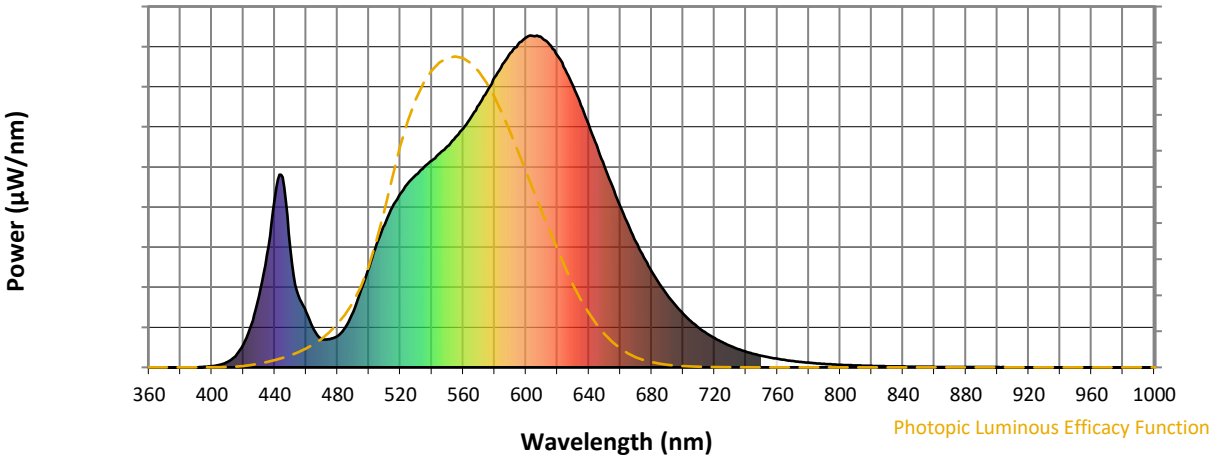


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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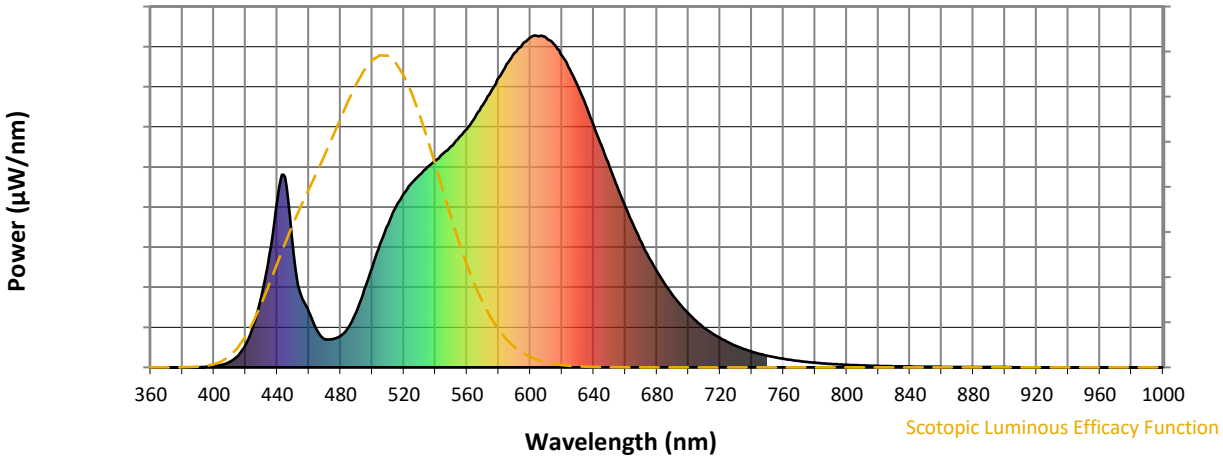
Scotopic Flux vs. Wavelength



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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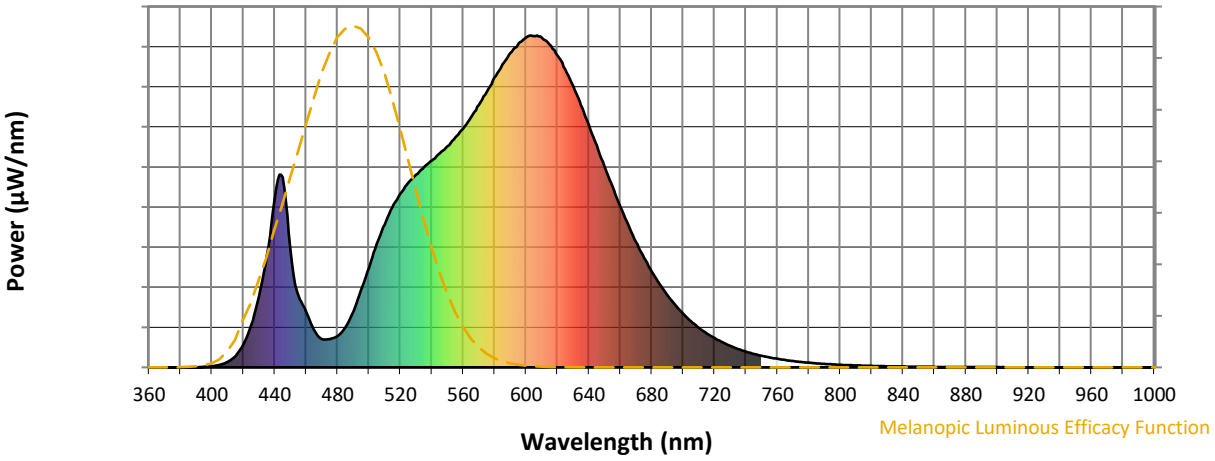
Melanopic Flux vs. Wavelength



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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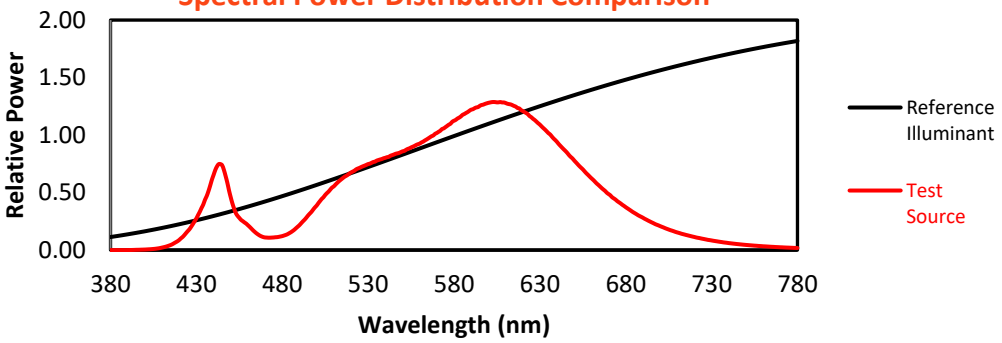
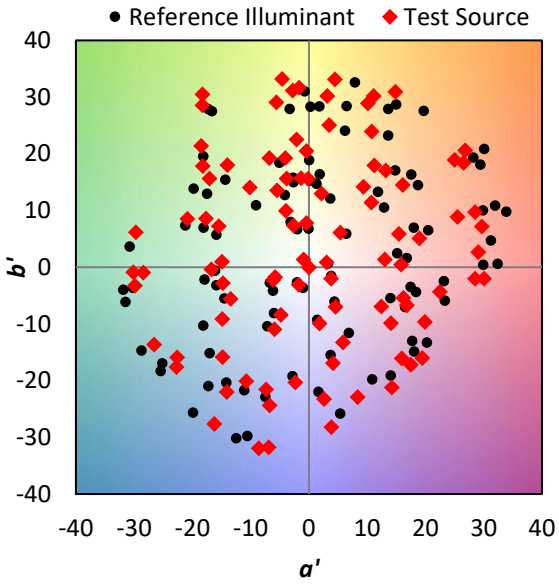
Summary

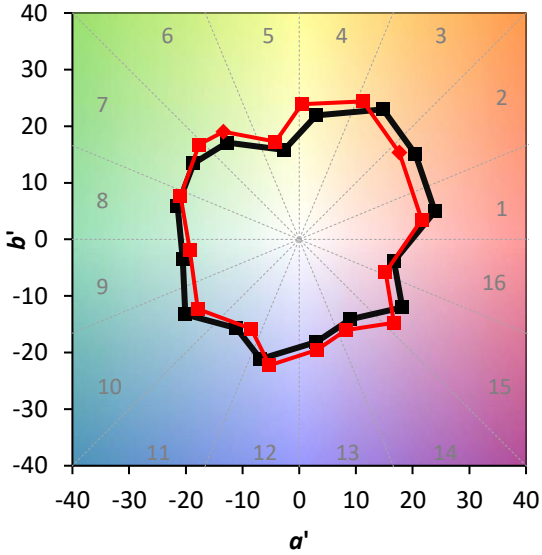
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

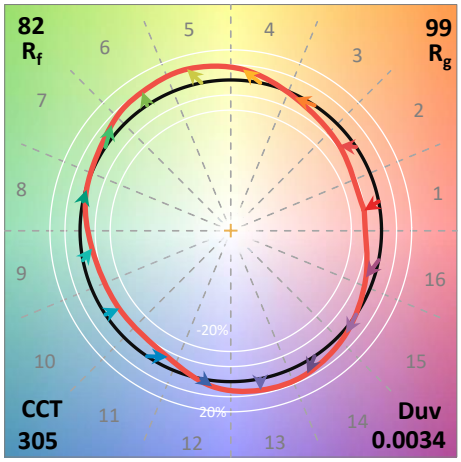
Spectral Power Distribution Comparison

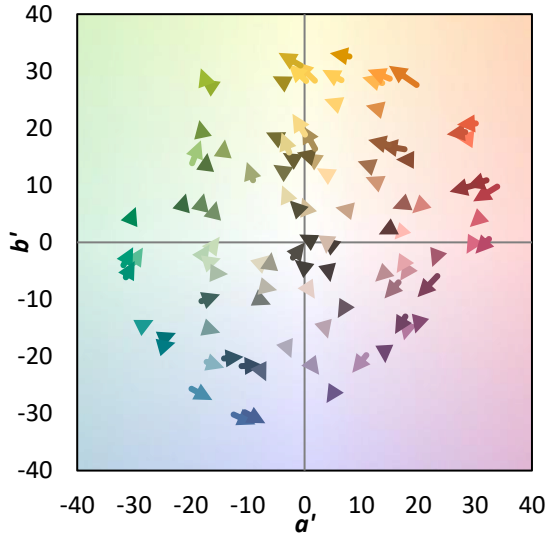


Color Vector Graphics









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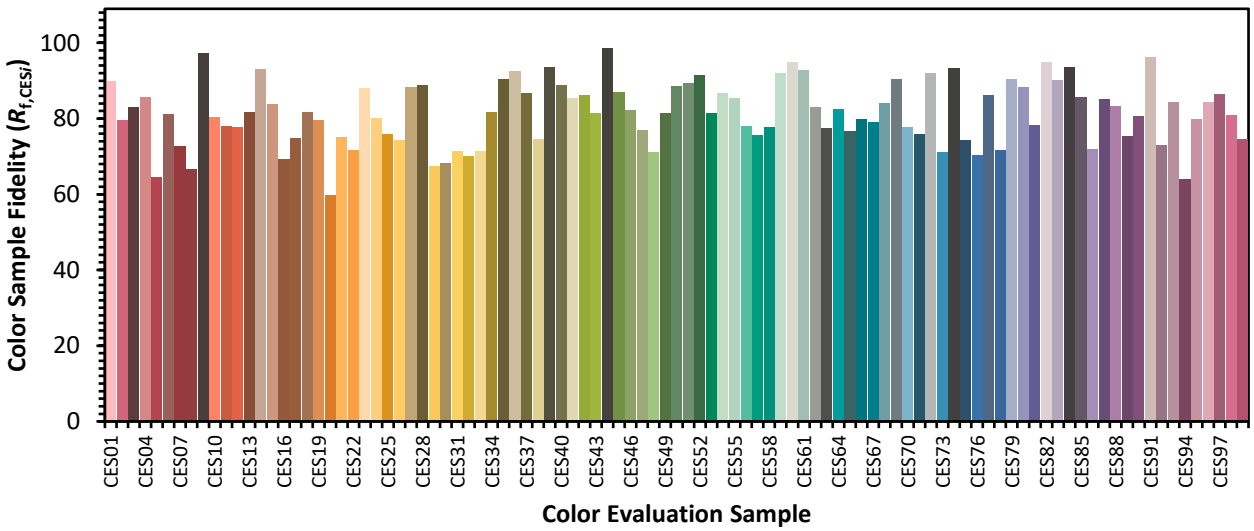
Individual Sample Fidelity Index ($R_{f,i}$)

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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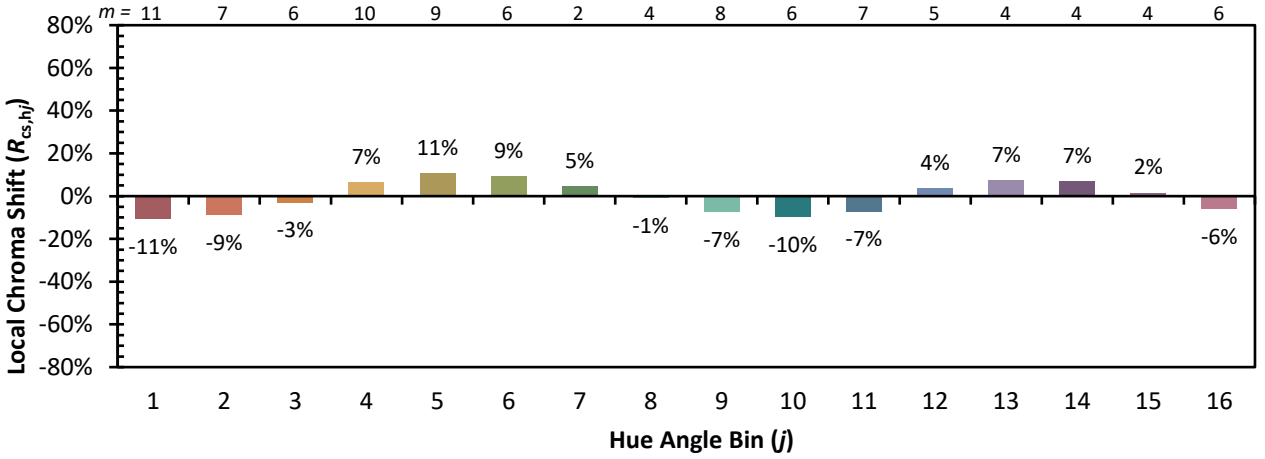
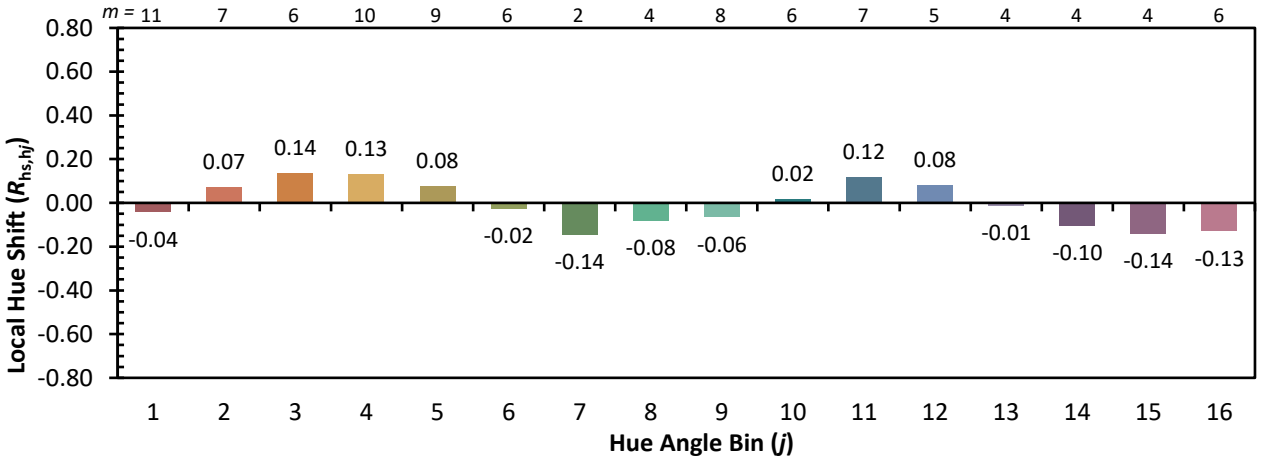
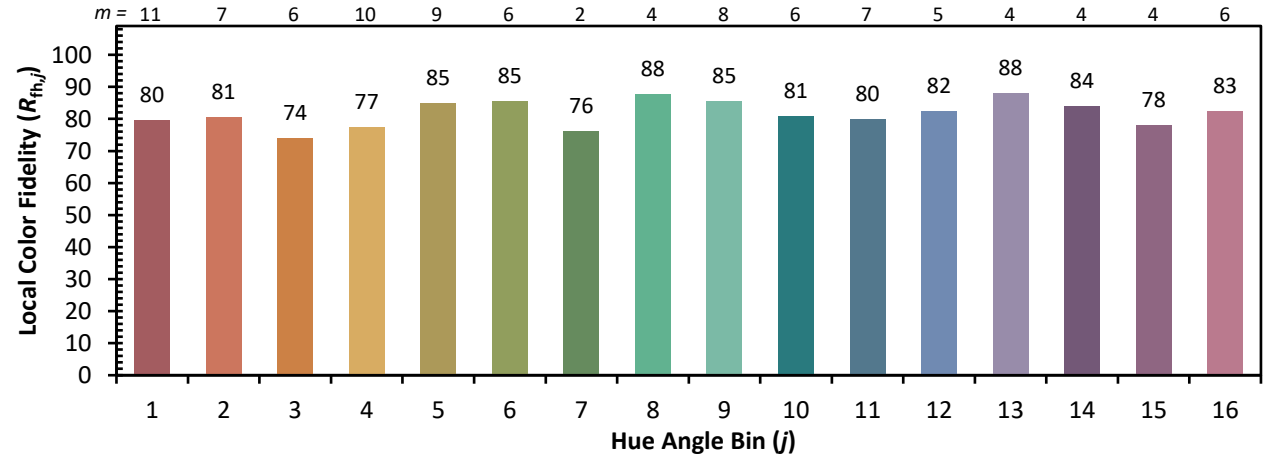
Color Rendition by Hue-Angle Bin







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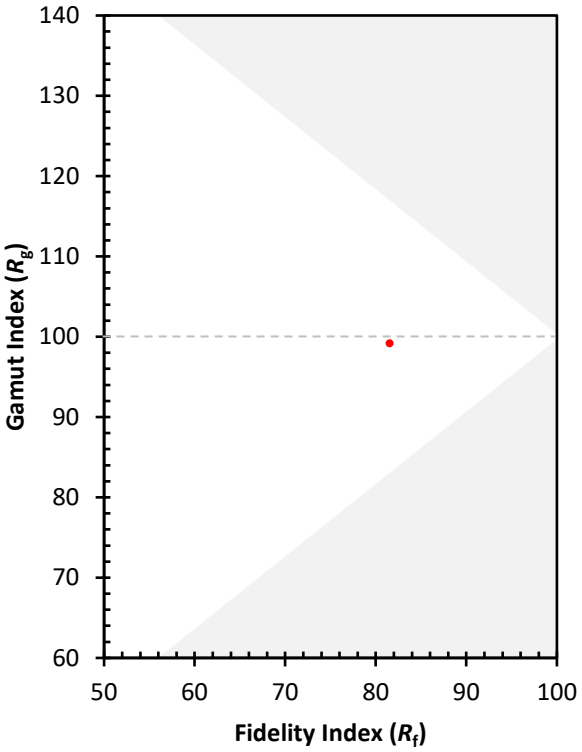
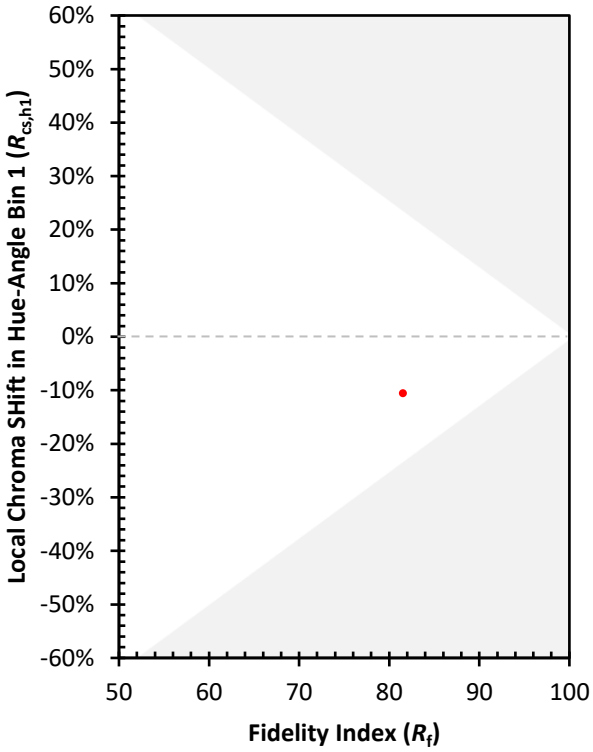
Measure Comparisons





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