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: P323351

Luminaire Tested: **GLEON-SA7A-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:	P323351
	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-SA7A-830-U-SL2-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(7) 80 CRI, 3000K, 615mA 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:	21696 lumens
Efficiency:	N/A
Efficacy:	96.0 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G4

Input Watts (W):	226
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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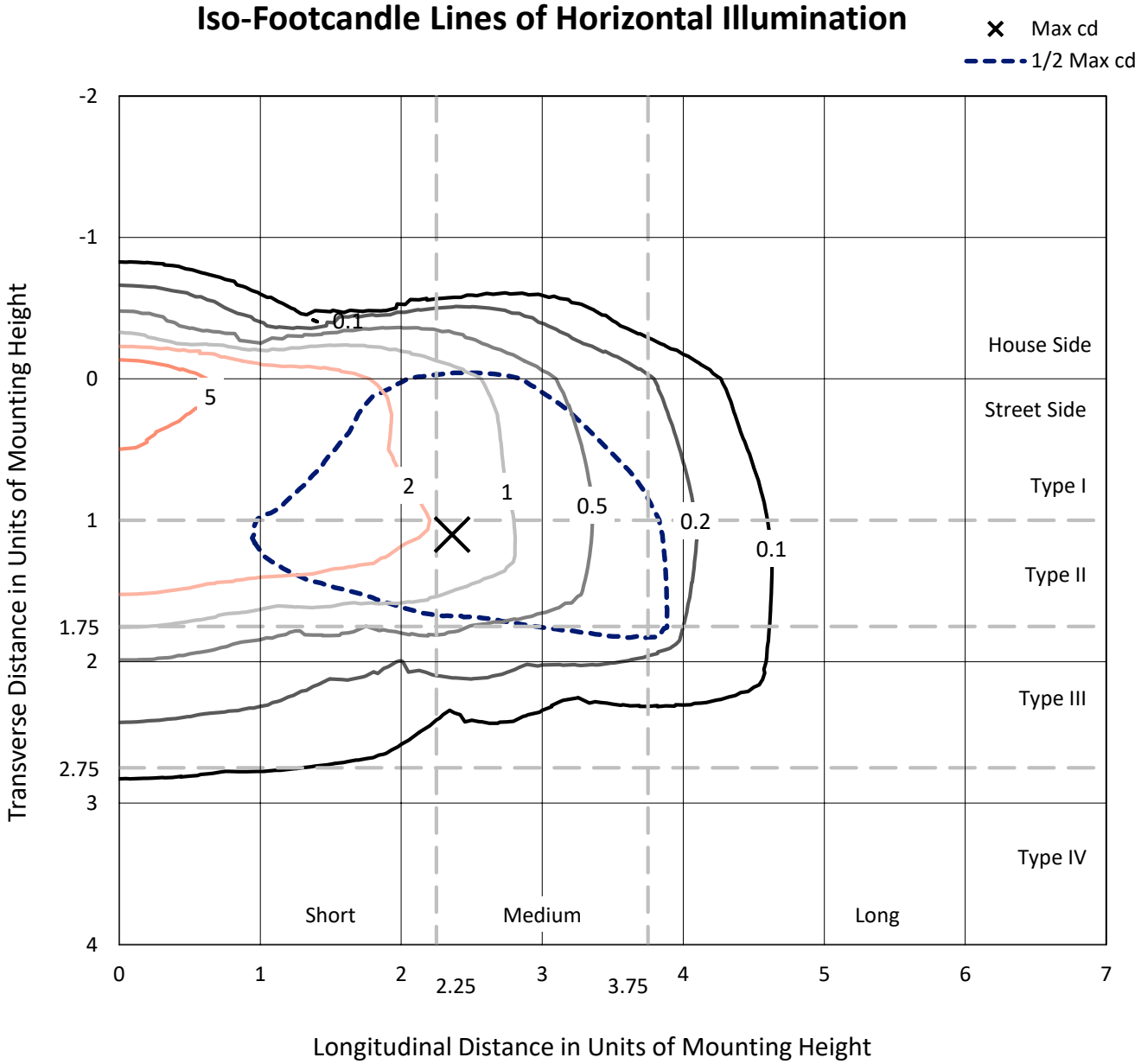
Scaled Data Report

REPORT NUMBER: P323351
CATALOG NUMBER: GLEON-SA7A-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
Type III - Medium - N/A

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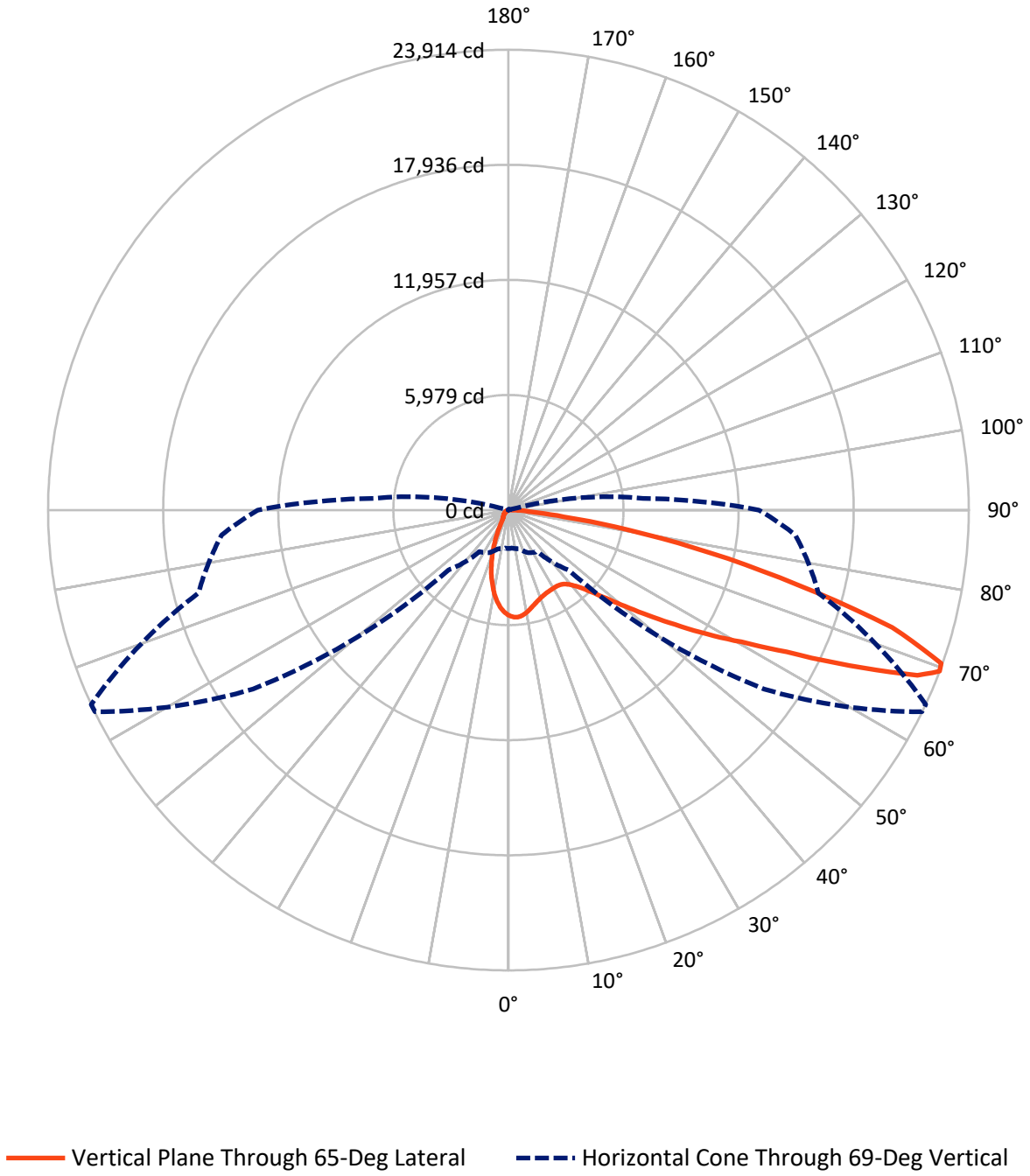
Luminous Intensity Polar Plot



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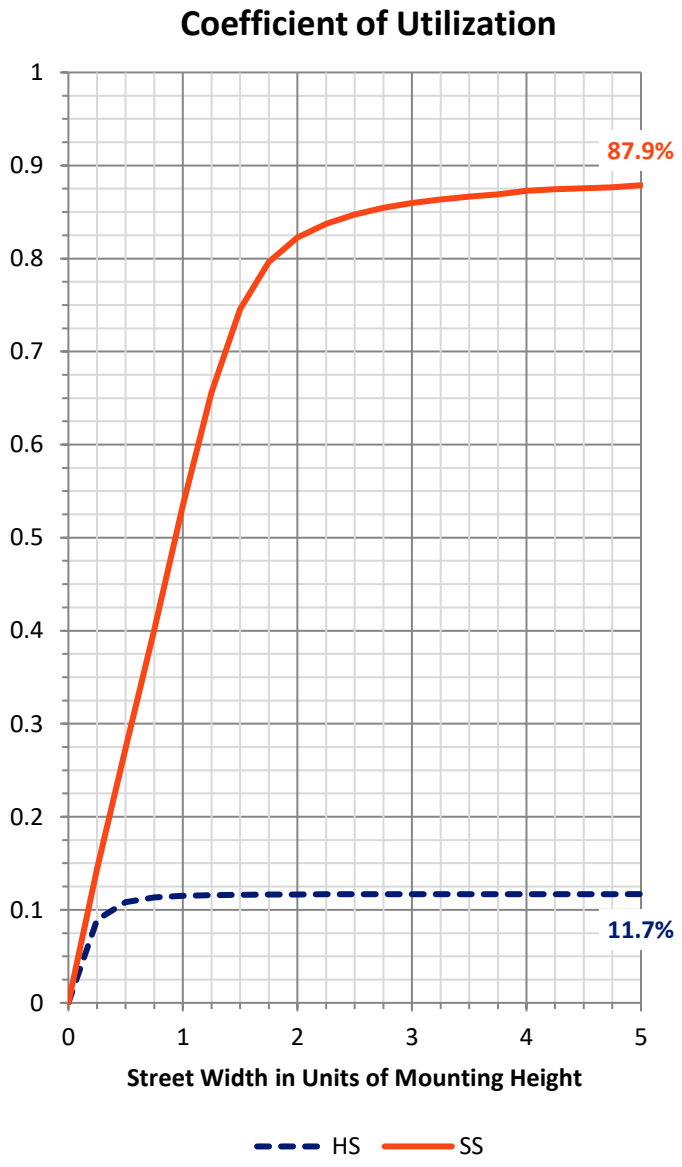
CATALOG NUMBER: GLEON-SA7A-830-U-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2557.4	0.0	2557.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	19138.6	0.0	19138.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	21696.0	0.0	21696.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.5	2.1
10°-20°	1003.6	4.6
20°-30°	1390.0	6.4
30°-40°	1938.1	8.9
40°-50°	3012.5	13.9
50°-60°	4836.2	22.3
60°-70°	5470.5	25.2
70°-80°	3212.9	14.8
80°-90°	373.7	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°	21696.0	100.0
0°-180°	21696.0	100.0



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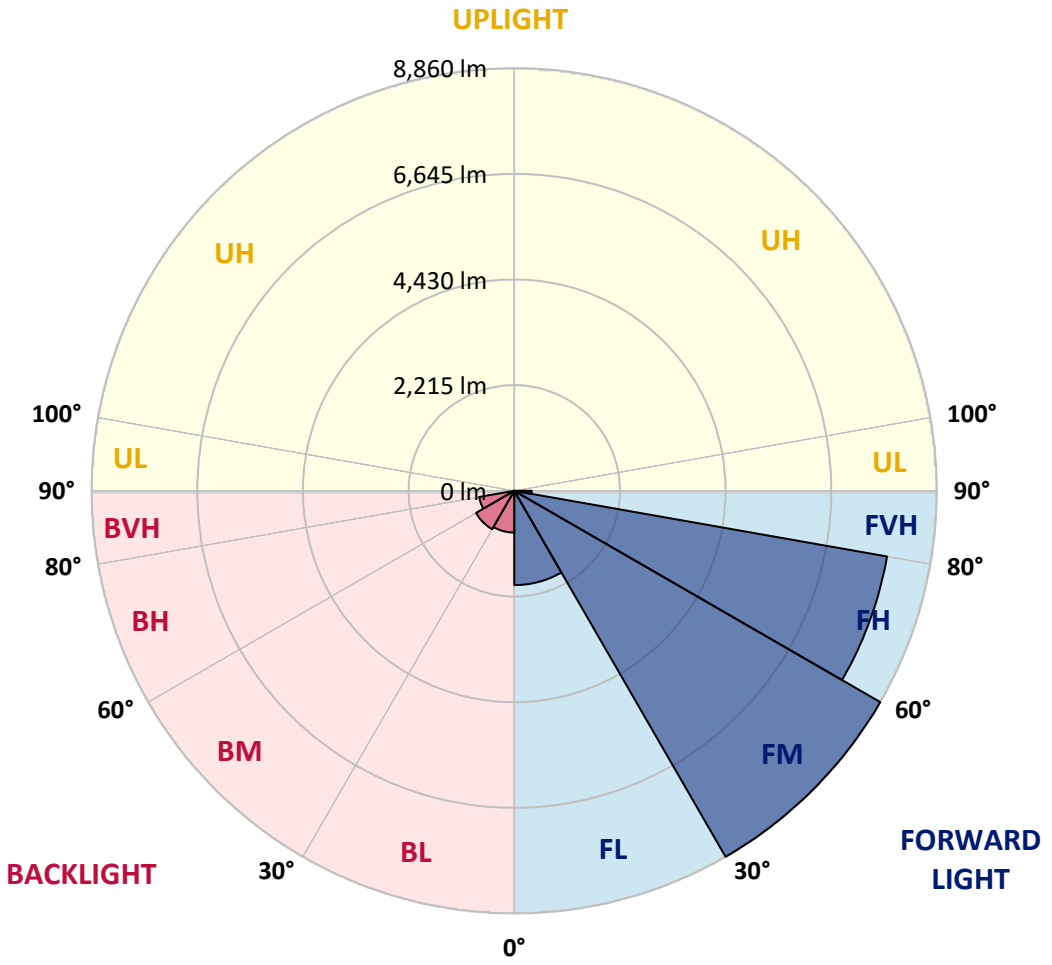
REPORT NUMBER: P323351
CATALOG NUMBER: GLEON-SA7A-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1977.0	9.1			
FM	(30°-60°)	8860.0	40.8			
FH	(60°-80°)	7936.2	36.6			G4/12000
FVH	(80°-90°)	365.3	1.7			G3/500
BL	(0°-30°)	875.0	4.0	B2/1000		
BM	(30°-60°)	926.8	4.3	B1/1000		
BH	(60°-80°)	747.2	3.4	B2/1000		G2/1000
BVH	(80°-90°)	8.4	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-G4
Type III Medium



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Scaled Data Report

REPORT NUMBER: P323351
CATALOG NUMBER: GLEON-SA7A-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6	*5482.6*	5482.6	5482.6
2.5°	5531.3	5517.5	5528.5	5552.4	5564.3	5564.3	5573.5	5562.5	*5566.2*	5539.5	5501.0
5°	5185.2	5164.1	5194.3	5261.4	5344.0	5414.7	5519.3	5574.4	*5579.9*	5580.8	5535.9
7.5°	4812.4	4793.2	4838.1	4917.1	5023.6	5154.9	5337.6	5497.3	*5506.5*	5592.8	5559.7
10°	4509.5	4495.7	4548.0	4632.5	4757.4	4904.2	5128.2	5350.4	*5377.0*	5568.0	5556.1
12.5°	4269.0	4257.9	4307.5	4404.8	4532.4	4694.9	4929.0	5187.0	*5222.8*	5512.0	5537.7
15°	4093.6	4091.8	4133.1	4226.7	4368.1	4519.6	4759.2	5035.5	*5076.8*	5451.4	5534.9
17.5°	4001.8	4004.6	4034.8	4114.7	4235.9	4386.5	4616.0	4907.9	*4952.9*	5397.2	5548.7
20°	3992.6	3995.4	4011.9	4056.9	4155.1	4288.2	4499.4	4800.5	*4847.3*	5356.8	5570.8
22.5°	4073.4	4071.6	4076.2	4071.6	4126.7	4227.6	4422.3	4717.9	*4772.0*	5330.2	5588.2
25°	4228.6	4225.8	4224.0	4190.0	4153.3	4207.4	4390.1	4671.1	*4722.5*	5310.9	5598.3
27.5°	4444.3	4442.5	4439.7	4383.7	4273.5	4239.6	4393.8	4653.6	*4696.8*	5295.3	5596.5
30°	4728.0	4740.8	4737.2	4659.1	4487.4	4337.8	4432.4	4644.4	*4682.1*	5265.0	5577.2
32.5°	5061.2	5086.9	5107.1	5023.6	4808.8	4532.4	4521.4	4654.5	*4682.1*	5242.1	5542.3
35°	5407.3	5440.4	5514.7	5485.4	5202.6	4825.3	4674.7	4715.1	*4738.1*	5254.9	5525.8
37.5°	5747.9	5787.4	5949.0	6034.4	5718.6	5212.7	4913.4	4864.8	*4876.7*	5333.0	5544.1
40°	6143.6	6203.3	6448.4	6586.1	6334.6	5731.4	5270.5	5121.8	*5126.4*	5504.7	5629.5
42.5°	6663.2	6724.7	6990.1	7205.8	7028.6	6386.9	5755.3	5514.7	*5510.2*	5826.0	5830.6
45°	7296.7	7361.0	7635.5	7875.1	7795.2	7163.6	6375.9	6088.5	*6083.0*	6332.7	6211.6
47.5°	8014.6	8078.0	8323.1	8570.0	8656.3	8070.6	7166.3	6871.6	*6858.8*	7036.9	6800.0
50°	8630.6	8671.9	8897.8	9230.1	9619.4	9185.1	8149.6	7865.9	*7852.1*	7972.4	7663.9
52.5°	8854.6	8878.5	9108.0	9573.5	10544.8	10694.4	9441.3	9075.9	*9065.8*	9118.1	8814.2
55°	8401.1	8444.3	8726.1	9416.5	11046.0	12400.2	11071.7	10574.1	*10497.9*	10385.0	10016.9
57.5°	7165.4	7234.3	7537.2	8455.3	10811.9	13753.4	13467.8	12268.9	*12156.9*	11466.5	10994.6
60°	5368.8	5453.2	5704.8	6695.4	9562.4	14235.3	16086.1	14157.3	*13904.8*	12327.6	11893.4
62.5°	3684.1	3726.4	3897.1	4542.5	7042.4	13445.8	18276.6	16686.5	*16225.7*	13264.0	12865.6
65°	2813.8	2828.5	2898.3	3120.5	4193.7	10922.1	19147.8	20023.7	*19466.4*	14384.1	13874.5
67.5°	2267.6	2255.7	2352.1	2669.7	2808.3	6663.2	18131.6	23180.9	*22920.1*	15881.4	14889.9
69°	*1999.5*	*1983.0*	*2081.2*	*2450.3*	*2637.6*	*4404.8*	*16209.2*	*23897.9*	*23914.4*	*16671.9*	*14959.7*
70°	1799.4	1810.4	1907.7	2319.9	2579.7	3457.4	14373.1	23715.2	*23845.5*	16967.5	14541.1
72.5°	1201.7	1231.1	1426.7	1926.1	2480.6	2616.5	8678.4	20350.5	*20851.8*	16301.9	12475.4
75°	677.5	699.6	931.8	1452.4	2337.4	2491.6	4583.8	14992.7	*15477.5*	13632.2	9620.3
77.5°	332.3	344.3	527.0	937.3	1954.5	2374.1	2599.9	10184.0	*10737.6*	8897.8	5441.3
80°	140.5	146.9	263.5	578.4	1397.3	2265.8	1930.7	6267.6	*6336.4*	3485.9	1449.6
82.5°	54.2	56.0	111.1	360.8	887.8	1766.3	1614.9	2971.7	*2900.1*	656.4	330.5
85°	6.4	7.3	40.4	216.7	493.9	908.9	1311.9	1280.7	*1185.2*	130.4	169.8
87.5°	0.0	0.0	2.8	66.1	146.9	426.0	682.1	531.6	*479.2*	42.2	88.1
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: P323351
CATALOG NUMBER: GLEON-SA7A-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6	5482.6
2.5°	5468.8	5459.7	5410.1	5338.5	5270.5	5186.1	5105.3	5056.6	5018.1	4992.4	5022.7
5°	5483.5	5443.1	5292.6	5099.8	4910.7	4697.7	4499.4	4331.4	4265.3	4191.8	4224.9
7.5°	5478.9	5402.7	5131.9	4788.6	4441.5	4082.6	3742.9	3481.3	3345.4	3212.3	3246.2
10°	5456.0	5327.5	4917.1	4408.5	3888.9	3372.9	2891.0	2524.6	2319.9	2134.5	2161.1
12.5°	5405.5	5226.5	4663.7	3973.3	3278.4	2598.1	2033.5	1564.4	1312.8	1201.7	1215.5
15°	5375.2	5128.2	4395.6	3532.7	2626.6	1809.5	1243.0	924.5	809.7	773.0	777.6
17.5°	5360.5	5033.7	4118.4	3028.7	1960.0	1152.2	803.3	708.7	684.0	677.5	679.4
20°	5345.8	4938.2	3832.9	2530.2	1350.5	774.8	660.1	632.5	623.4	615.1	616.9
22.5°	5321.0	4846.4	3526.2	2025.2	910.7	628.9	594.9	568.3	549.0	538.9	540.7
25°	5290.7	4750.0	3213.2	1508.4	664.7	560.9	528.8	491.2	468.2	449.8	450.8
27.5°	5242.1	4631.6	2890.0	1098.0	558.2	502.2	459.0	417.7	379.2	358.0	358.0
30°	5174.2	4497.5	2531.1	785.9	500.3	444.3	392.0	340.6	299.3	280.0	278.2
32.5°	5098.9	4358.0	2168.4	595.8	454.4	390.2	330.5	276.3	239.6	224.0	223.1
35°	5034.6	4207.4	1806.7	499.4	408.5	337.8	272.7	226.8	197.4	184.5	183.6
37.5°	4993.3	4056.9	1454.2	446.2	367.2	289.2	228.6	187.3	166.2	156.1	155.2
40°	4986.9	3944.9	1132.0	405.8	328.7	246.0	191.0	158.8	139.5	128.5	127.6
42.5°	5070.4	3880.6	868.5	371.8	289.2	208.4	162.5	135.9	115.7	104.7	103.7
45°	5289.8	3900.8	668.3	341.5	249.7	176.3	137.7	112.9	94.6	86.3	84.5
47.5°	5690.1	4040.4	531.6	311.2	212.1	149.6	117.5	93.6	78.0	69.8	68.9
50°	6402.5	4368.1	444.3	278.2	177.2	127.6	97.3	76.2	63.3	56.0	55.1
52.5°	7348.1	4952.0	396.6	246.0	146.9	108.3	79.9	60.6	49.6	44.1	43.1
55°	8391.0	5658.9	365.4	211.2	120.3	90.0	63.3	47.7	38.6	34.0	32.1
57.5°	9409.1	6271.2	336.0	177.2	100.1	73.4	50.5	37.6	30.3	25.7	24.8
60°	10344.6	6834.0	302.0	142.3	81.7	57.8	39.5	29.4	23.9	19.3	19.3
62.5°	11346.2	7269.1	255.2	111.1	67.0	44.1	32.1	26.6	19.3	16.5	15.6
65°	12407.5	7592.3	200.1	86.3	52.3	33.0	26.6	27.5	15.6	11.9	11.0
67.5°	13191.5	7528.0	147.8	67.9	40.4	25.7	25.7	29.4	13.8	9.2	8.3
69°	*13018.9*	*7005.7*	*123.9*	*58.8*	*34.9*	*22.0*	*23.9*	*29.4*	*12.9*	*8.3*	*7.3*
70°	12518.6	6427.3	109.2	52.3	31.2	20.2	23.0	28.5	11.9	8.3	7.3
72.5°	10425.4	4840.9	85.4	39.5	24.8	16.5	19.3	24.8	11.9	8.3	6.4
75°	7842.0	3098.4	65.2	28.5	18.4	12.9	14.7	18.4	11.9	7.3	6.4
77.5°	4267.1	1117.3	46.8	19.3	12.9	10.1	10.1	13.8	11.0	5.5	3.7
80°	1097.1	280.9	29.4	12.9	10.1	7.3	6.4	9.2	6.4	0.9	0.0
82.5°	270.8	63.3	15.6	9.2	7.3	2.8	2.8	4.6	2.8	0.0	0.0
85°	148.7	31.2	10.1	6.4	3.7	0.0	0.0	0.9	0.0	0.0	0.0
87.5°	76.2	9.2	2.8	1.8	0.9	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

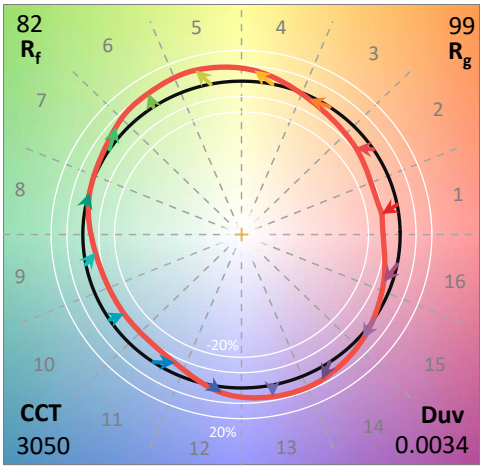
Test Information

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

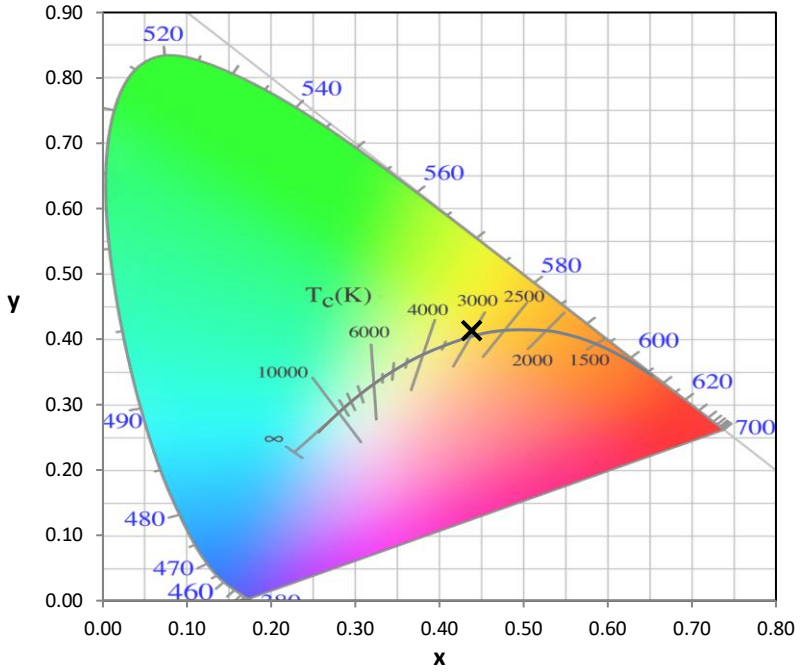
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

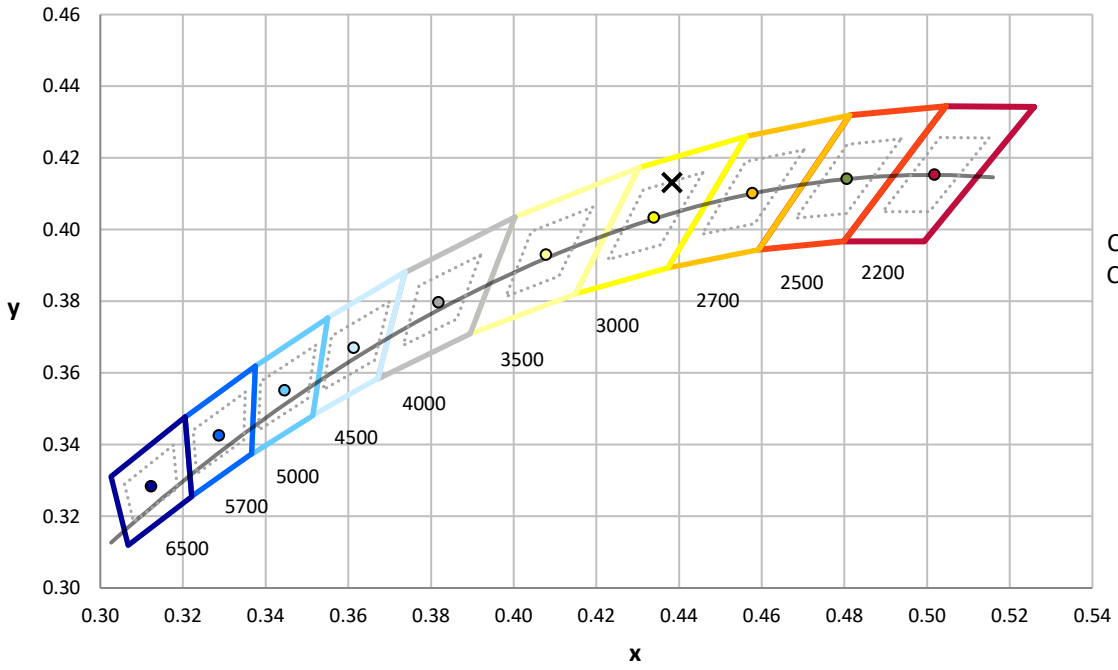
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

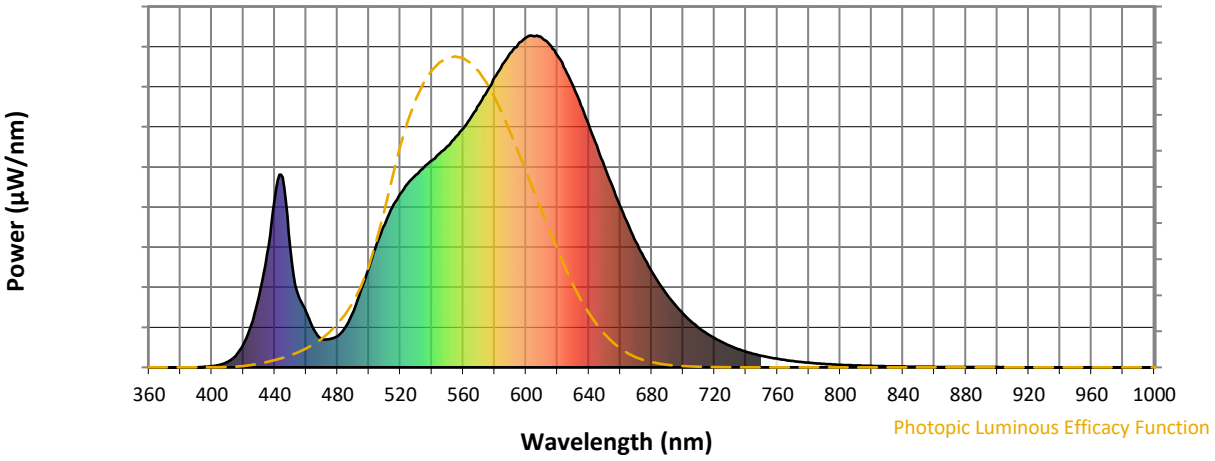


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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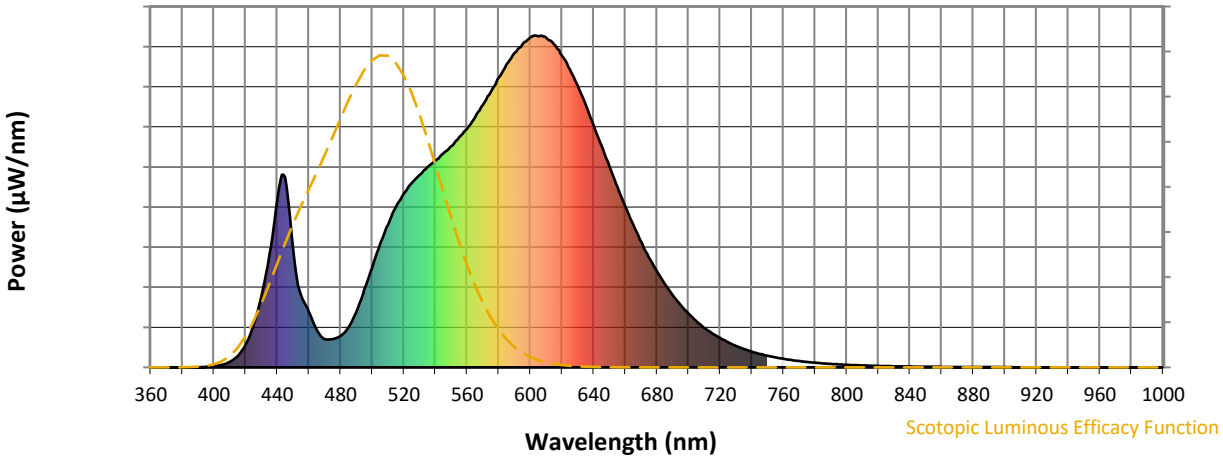
Scotopic Flux vs. Wavelength



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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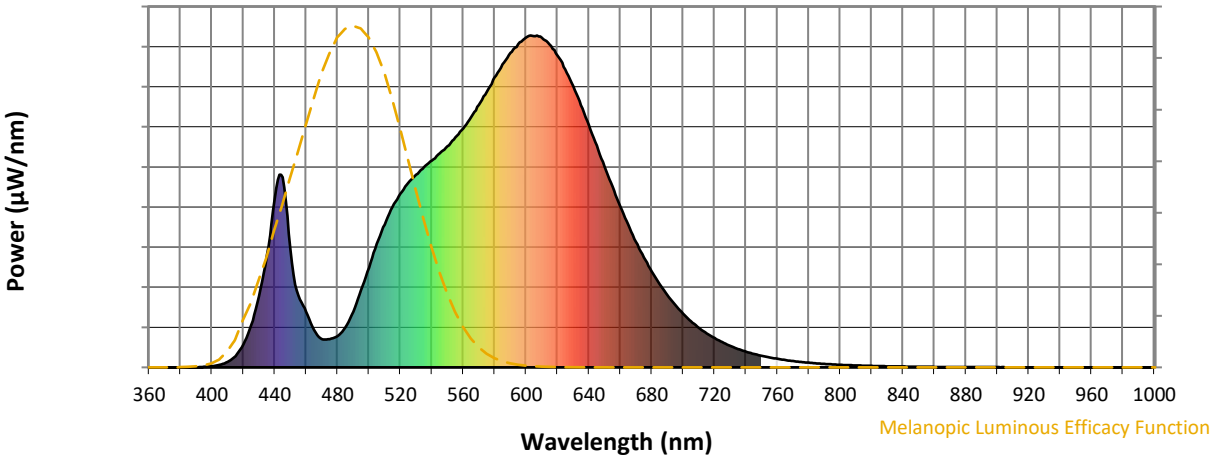
Melanopic Flux vs. Wavelength



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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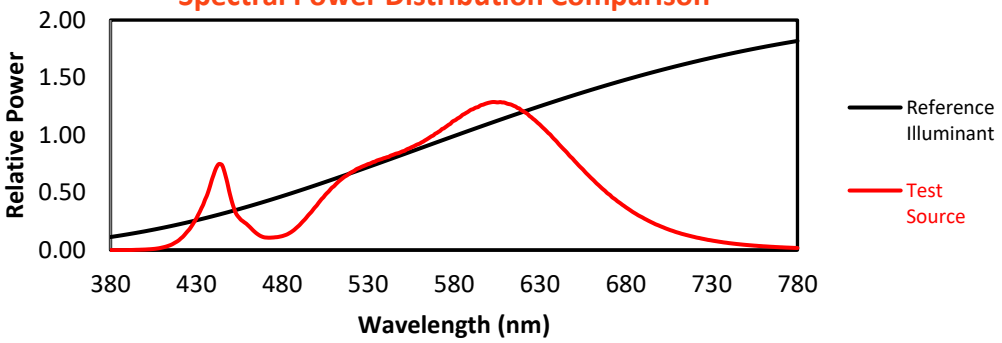
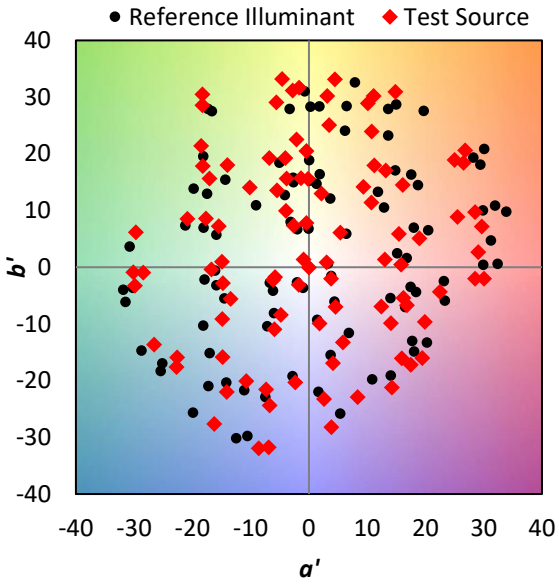
Summary

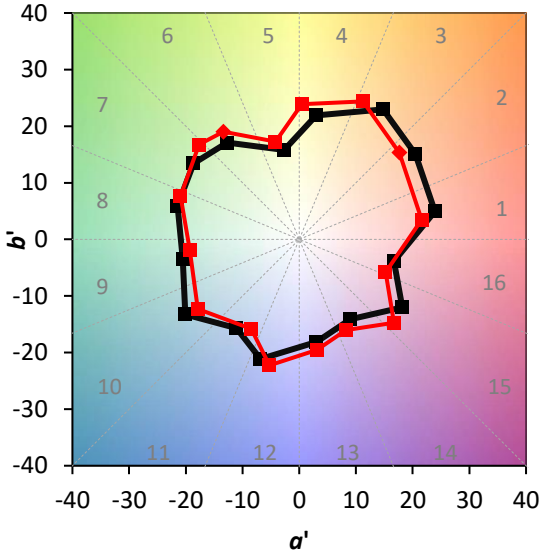
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

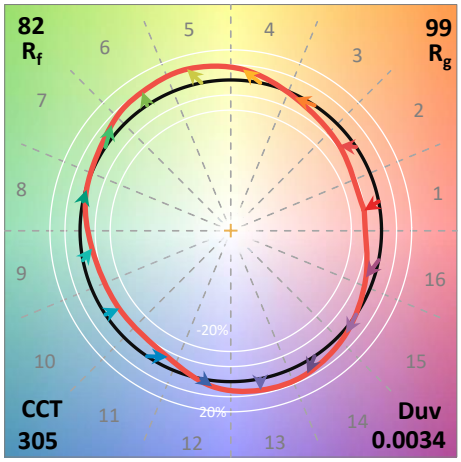
Spectral Power Distribution Comparison

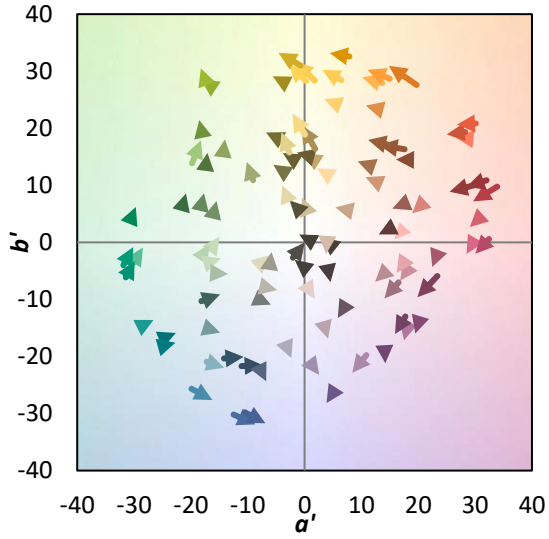


Color Vector Graphics









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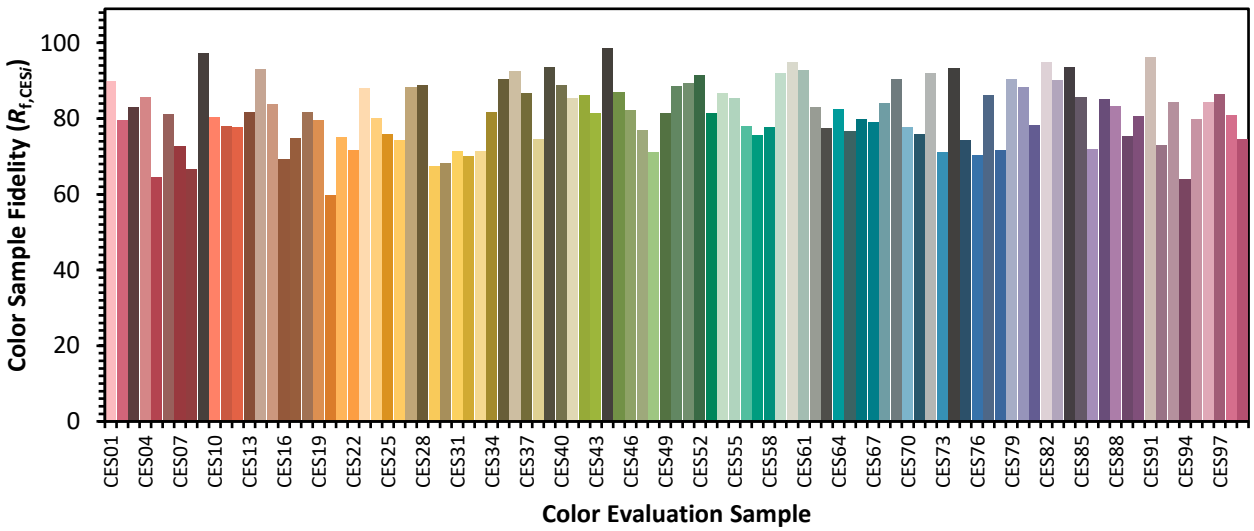
Individual Sample Fidelity Index ($R_{f,i}$)

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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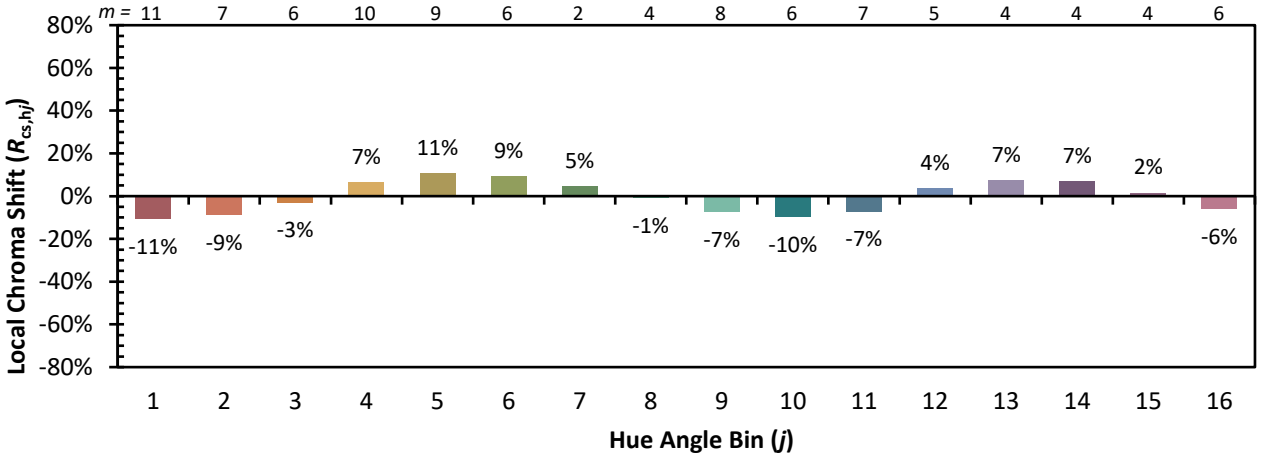
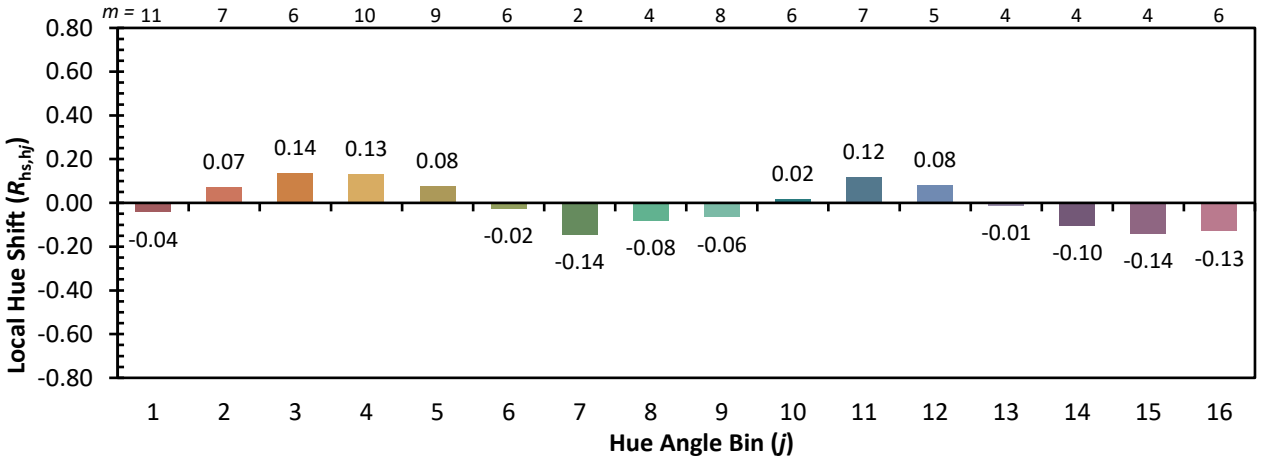
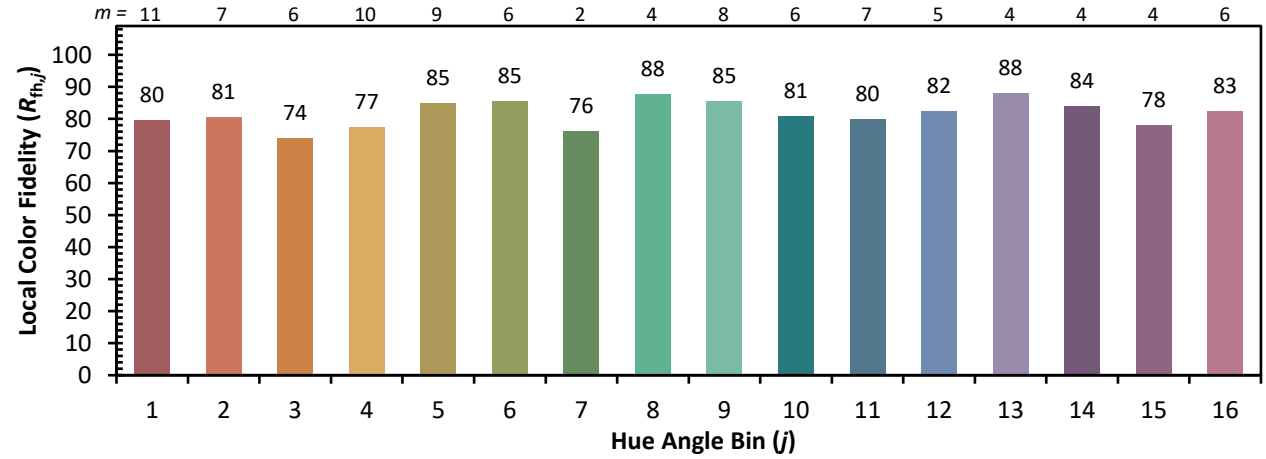
Color Rendition by Hue-Angle Bin







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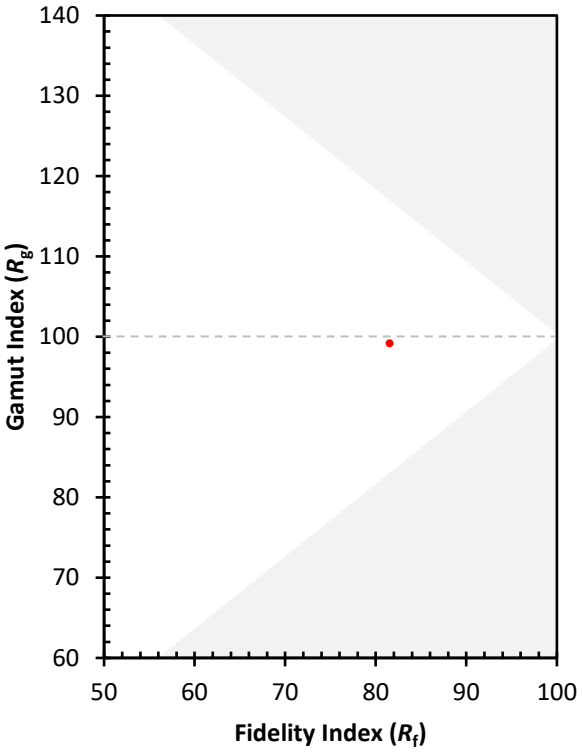
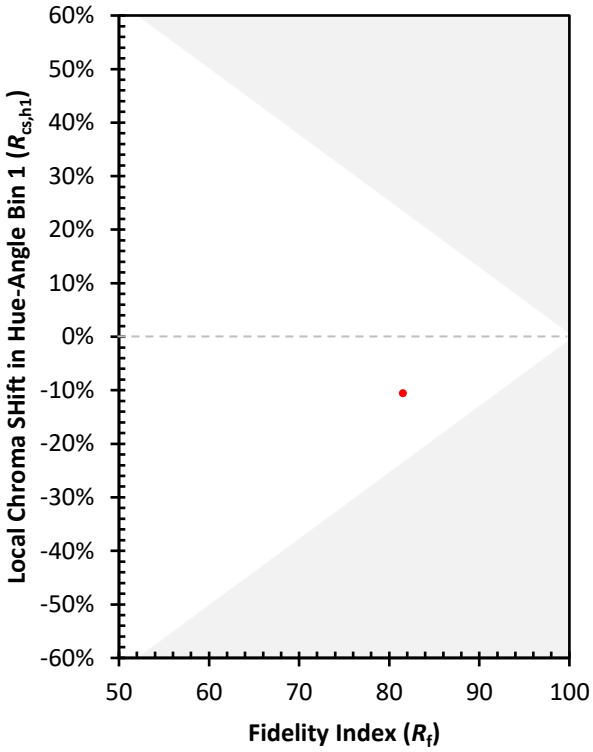
Measure Comparisons





(END OF REPORT)