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: P320152

Luminaire Tested: **GLEON-SA8A-830-U-SL4**

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:	P320152
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA8A-830-U-SL4
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	28202 lumens
Efficiency:	N/A
Efficacy:	109.7 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G5

Input Watts (W):	257
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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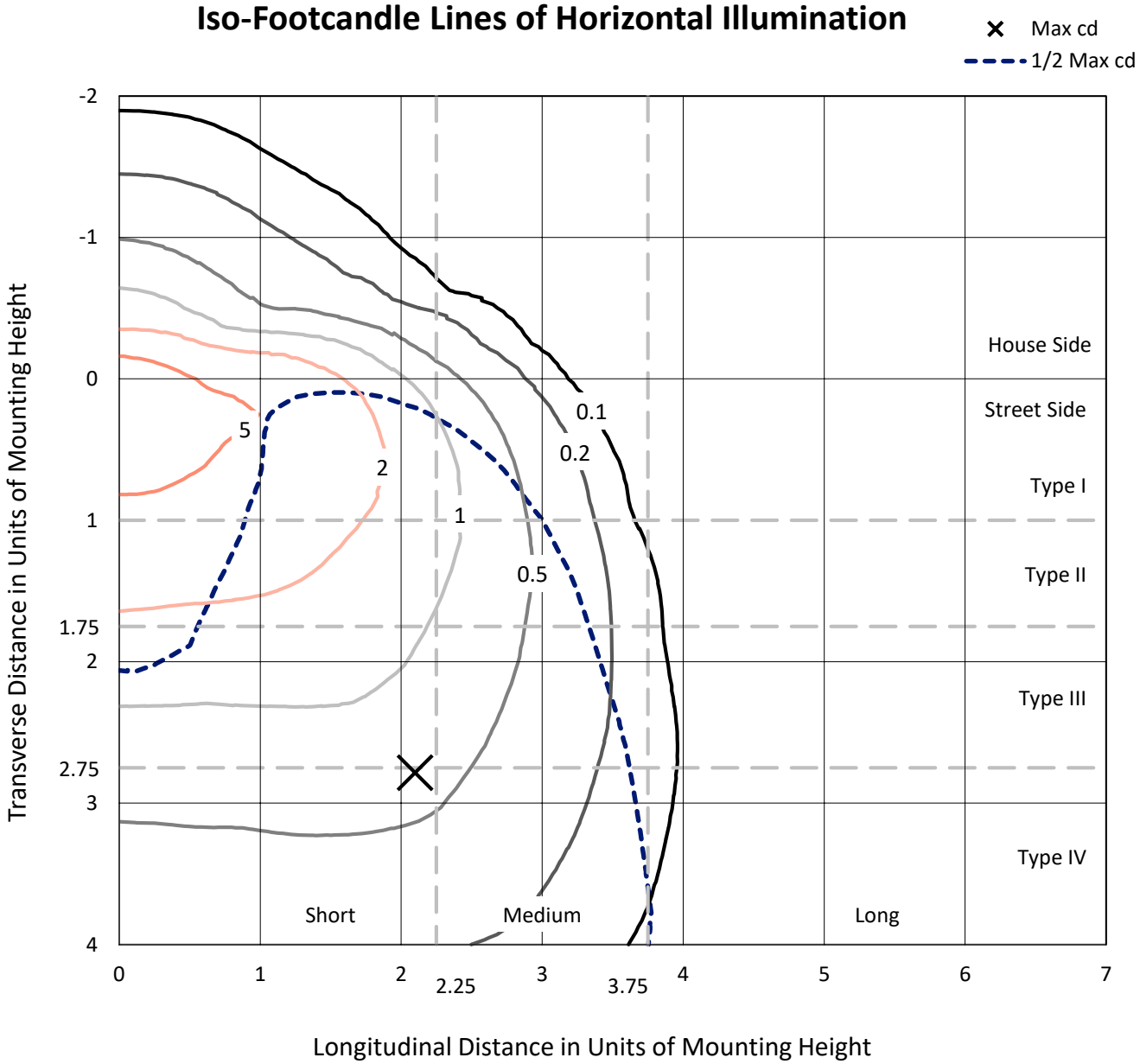
Scaled Data Report

REPORT NUMBER: P320152
CATALOG NUMBER: GLEON-SA8A-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination



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

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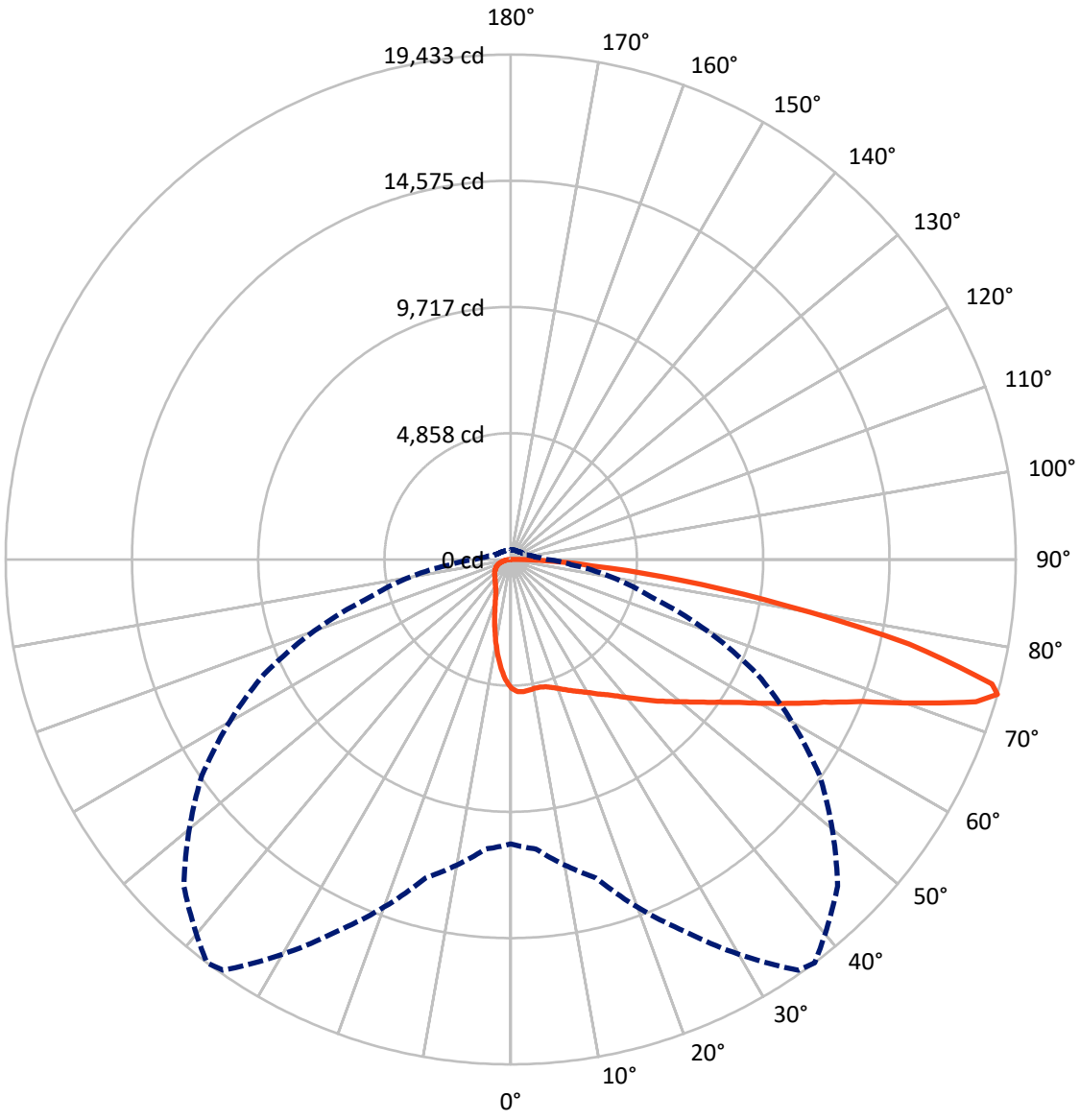
Luminous Intensity Polar Plot



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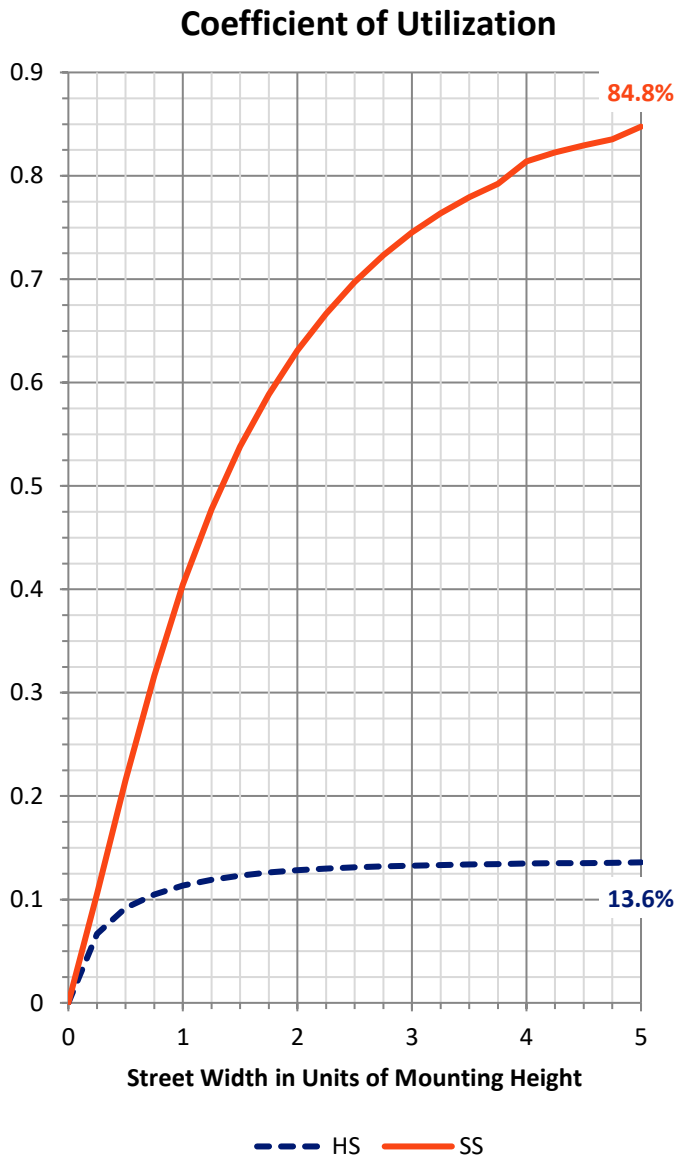
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3880.4	0.0	3880.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	24321.6	0.0	24321.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	28202.0	0.0	28202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.6	1.6
10°-20°	1121.6	4.0
20°-30°	1728.2	6.1
30°-40°	2513.1	8.9
40°-50°	3698.9	13.1
50°-60°	5194.4	18.4
60°-70°	6574.5	23.3
70°-80°	5789.1	20.5
80°-90°	1144.6	4.1
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°	28202.0	100.0
0°-180°	28202.0	100.0



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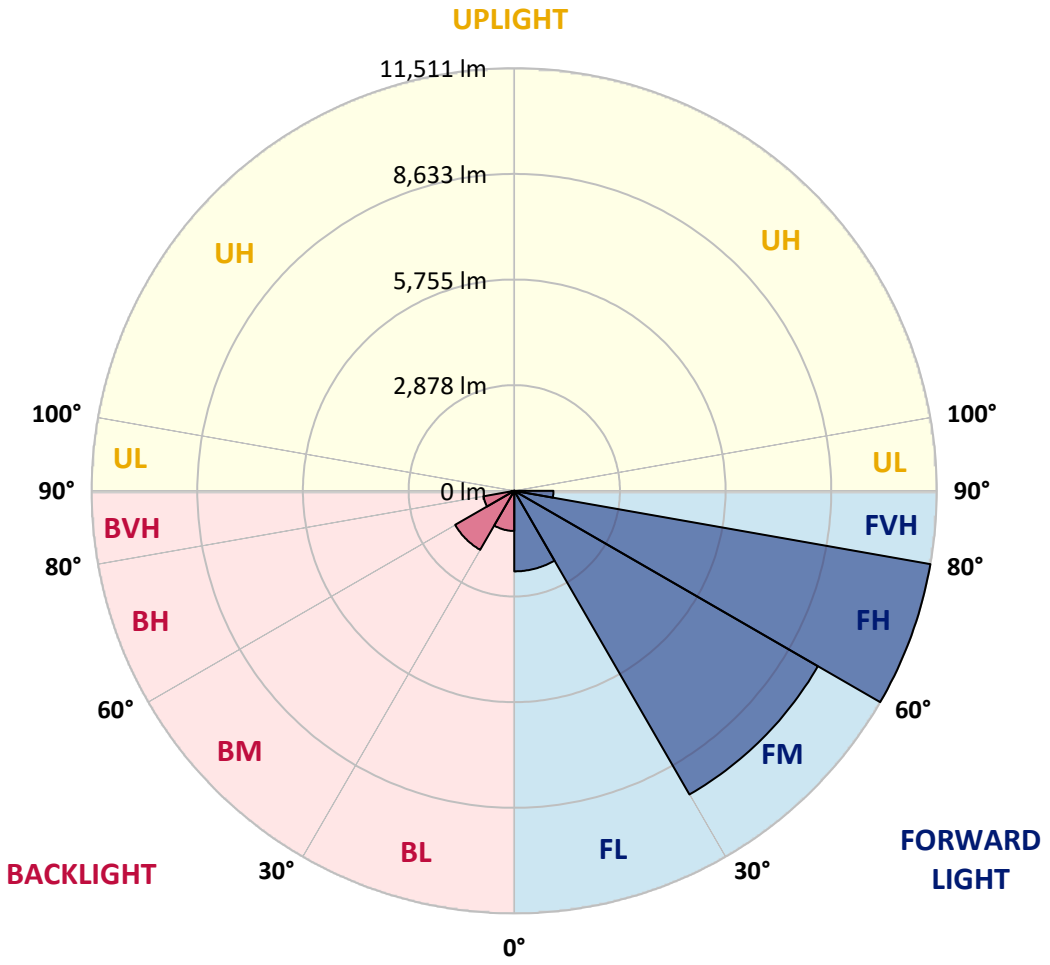
REPORT NUMBER: P320152
CATALOG NUMBER: GLEON-SA8A-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2194.4	7.8			
FM	(30°-60°)	9549.4	33.9			
FH	(60°-80°)	11510.6	40.8			G4/12000
FVH	(80°-90°)	1067.1	3.8			G5
BL	(0°-30°)	1093.0	3.9	B3/2500		
BM	(30°-60°)	1856.9	6.6	B2/2500		
BH	(60°-80°)	853.0	3.0	B2/1000		G2/1000
BVH	(80°-90°)	77.5	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-G5
Type IV Short



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REPORT NUMBER: P320152
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4969.1	4969.1	4969.1	4969.1	4969.1	4969.1	4969.1	4969.1	4969.1	4969.1	4969.1
2.5°	5139.0	5140.0	5139.0	5131.0	5112.1	5096.2	5083.3	5064.5	5022.7	4990.9	4943.3
5°	5187.6	5181.7	5177.7	5162.8	5133.0	5115.1	5090.3	5054.5	4986.0	4922.4	4844.9
7.5°	5164.8	5157.8	5148.9	5131.0	5097.2	5082.3	5047.6	5000.9	4918.4	4835.0	4723.7
10°	5094.3	5092.3	5088.3	5084.3	5055.5	5043.6	5011.8	4962.1	4880.7	4779.3	4649.2
12.5°	5015.8	5020.7	5036.6	5057.5	5044.6	5038.6	5018.8	4985.0	4901.5	4792.3	4635.3
15°	4966.1	4980.0	5022.7	5077.4	5088.3	5086.3	5081.3	5059.5	4971.1	4849.9	4667.1
17.5°	4949.2	4972.1	5053.5	5143.9	5175.7	5182.7	5184.7	5146.9	5048.6	4920.4	4699.9
20°	4980.0	5008.8	5128.0	5252.2	5302.9	5306.8	5297.9	5232.3	5122.1	4981.0	4717.7
22.5°	5073.4	5099.2	5248.2	5388.3	5445.9	5451.9	5425.1	5325.7	5199.6	5052.5	4742.6
25°	5253.2	5285.0	5434.0	5574.1	5603.9	5604.9	5566.1	5442.9	5300.9	5152.9	4796.2
27.5°	5487.6	5519.4	5653.5	5790.6	5774.7	5765.8	5713.2	5590.0	5433.0	5291.0	4891.6
30°	5748.9	5783.7	5910.8	6008.2	5970.4	5952.6	5909.9	5750.9	5616.8	5479.7	5037.6
32.5°	6019.1	6050.9	6162.2	6228.7	6181.1	6173.1	6108.5	5963.5	5856.2	5767.8	5274.1
35°	6296.3	6319.1	6428.4	6466.2	6402.6	6400.6	6382.7	6249.6	6182.0	6223.8	5617.8
37.5°	6579.4	6585.4	6678.8	6680.7	6661.9	6669.8	6688.7	6605.2	6624.1	6754.3	6064.8
40°	6831.7	6847.6	6915.2	6936.1	6968.8	6996.7	7091.0	7036.4	7182.4	7412.9	6621.1
42.5°	7018.5	7049.3	7157.6	7211.2	7317.5	7361.2	7494.4	7545.0	7839.1	8184.8	7282.8
45°	7176.5	7224.1	7398.0	7508.3	7688.1	7764.6	7955.3	8125.2	8581.2	9022.2	7979.1
47.5°	7347.3	7407.9	7625.5	7836.1	8080.5	8166.9	8513.6	8767.9	9372.9	9864.7	8635.8
50°	7598.7	7645.4	7857.9	8188.8	8493.7	8605.0	9084.8	9449.4	10177.6	10667.3	9205.0
52.5°	7949.3	7931.5	8111.3	8575.2	8984.5	9121.6	9694.8	10174.6	10993.2	11393.5	9685.8
55°	8302.0	8272.2	8398.4	8979.5	9556.7	9700.7	10366.3	10902.8	11769.0	12047.2	10054.4
57.5°	8694.4	8637.8	8744.1	9435.5	10208.4	10380.2	11118.3	11676.6	12532.0	12575.7	10288.8
60°	9098.7	9022.2	9141.4	10000.8	11035.9	11238.6	11998.5	12431.6	13251.2	12998.9	10364.3
62.5°	9452.4	9398.7	9582.5	10631.6	11968.7	12191.2	12862.8	13234.3	13960.5	13174.7	10092.1
65°	9761.3	9770.3	10088.2	11340.9	13008.8	13246.3	13854.2	14223.8	14518.8	13070.4	9455.4
67.5°	10129.9	10180.6	10723.0	12274.7	14318.2	14578.4	15296.7	15302.6	14830.8	12458.5	8201.7
70°	10667.3	10771.6	11596.2	13570.1	16179.8	16537.5	17091.8	15936.4	14392.7	10799.5	6453.3
72.5°	11144.2	11338.9	12525.0	15052.3	18448.8	18720.0	18141.8	15570.9	12561.8	8093.4	4020.4
74°	10950.5	11191.9	12693.9	15782.5	19303.1	19433.3	17787.2	14503.9	10473.6	5604.9	2336.5
75°	10533.2	10795.5	12447.5	15775.5	19194.8	19122.3	16930.8	13285.0	8625.9	3822.7	1554.7
77.5°	8500.7	8777.9	10488.5	13520.4	15738.7	15670.2	13005.8	8912.0	3778.0	1253.7	789.8
80°	4942.3	5153.9	6510.9	8586.1	10612.7	10736.9	8553.3	4409.8	1486.2	704.3	535.5
82.5°	2195.5	2341.5	3145.2	4383.0	6404.6	6564.5	4479.3	2310.7	917.9	428.2	321.9
85°	1440.5	1548.7	1909.4	2087.2	3049.8	3159.1	2192.5	1799.1	606.0	235.4	236.4
87.5°	1036.1	1140.4	1418.6	1238.8	1399.7	1325.2	1193.1	1665.0	243.4	134.1	79.5
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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REPORT NUMBER: P320152
CATALOG NUMBER: GLEON-SA8A-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4969.1	4969.1	4969.1	4969.1	4969.1	4969.1	4969.1	4969.1	4969.1	4969.1	4969.1
2.5°	4922.4	4906.5	4870.7	4803.2	4765.4	4733.6	4681.0	4650.2	4636.3	4635.3	4641.3
5°	4800.2	4763.4	4671.1	4557.8	4467.4	4385.0	4282.6	4221.0	4177.3	4151.5	4158.5
7.5°	4658.1	4600.5	4455.5	4274.7	4129.6	3969.7	3811.7	3717.4	3643.9	3589.2	3599.2
10°	4560.8	4481.3	4269.7	4009.4	3768.0	3535.6	3318.0	3187.9	3084.6	3005.1	3011.1
12.5°	4528.0	4420.7	4127.7	3780.0	3441.2	3123.3	2839.2	2639.5	2533.2	2442.8	2449.8
15°	4533.0	4388.9	4008.4	3573.3	3147.2	2746.8	2402.1	2168.6	2024.6	1962.0	1963.0
17.5°	4536.9	4352.2	3883.3	3351.8	2856.1	2395.1	2020.6	1784.2	1648.1	1590.5	1591.5
20°	4524.0	4292.6	3728.3	3097.5	2552.1	2072.3	1709.7	1509.0	1405.7	1361.0	1361.0
22.5°	4507.1	4222.0	3553.5	2842.2	2252.1	1792.1	1487.1	1334.2	1274.6	1244.8	1243.8
25°	4515.1	4169.4	3374.6	2579.9	1975.9	1568.6	1339.1	1237.8	1198.1	1179.2	1178.2
27.5°	4557.8	4144.5	3209.7	2318.6	1734.5	1400.7	1239.8	1168.3	1142.4	1130.5	1130.5
30°	4635.3	4144.5	3037.9	2096.1	1533.8	1276.5	1163.3	1114.6	1096.7	1088.8	1088.8
32.5°	4770.4	4167.4	2872.0	1875.6	1373.9	1179.2	1099.7	1066.9	1053.0	1049.1	1049.1
35°	5002.9	4244.9	2710.0	1667.0	1244.8	1099.7	1039.1	1020.2	1010.3	1009.3	1012.3
37.5°	5329.7	4402.8	2558.1	1513.0	1153.4	1035.1	988.5	973.6	967.6	972.6	976.5
40°	5741.0	4617.4	2420.0	1373.9	1083.8	983.5	941.8	931.8	928.8	935.8	941.8
42.5°	6237.7	4907.5	2306.7	1273.6	1030.2	939.8	902.0	890.1	887.1	895.1	903.0
45°	6775.1	5219.4	2227.2	1199.1	988.5	907.0	867.3	854.3	848.4	852.4	861.3
47.5°	7263.9	5514.5	2195.5	1146.4	948.7	879.2	836.5	820.6	810.6	808.6	815.6
50°	7676.2	5734.0	2210.4	1114.6	916.9	848.4	806.7	788.8	773.9	764.9	769.9
52.5°	7976.2	5872.1	2224.3	1100.7	892.1	814.6	773.9	757.0	737.1	722.2	722.2
55°	8193.7	5903.9	2193.5	1089.8	873.2	777.8	737.1	721.2	701.4	684.5	682.5
57.5°	8279.2	5814.5	2079.2	1073.9	860.3	743.1	698.4	686.5	669.6	649.7	648.7
60°	8163.9	5538.3	1858.7	1040.1	843.4	714.3	659.6	651.7	643.7	624.9	623.9
62.5°	7701.0	4932.3	1573.6	971.6	809.6	683.5	623.9	627.8	628.8	615.9	613.9
65°	6861.5	4099.8	1295.4	882.2	759.0	646.7	587.1	606.0	616.9	614.9	611.9
67.5°	5641.6	3190.9	1097.7	787.8	692.4	596.1	547.4	569.2	578.2	585.1	583.1
70°	4187.3	2250.1	908.0	688.4	611.9	536.4	495.7	506.6	500.7	508.6	511.6
72.5°	2334.5	1350.1	740.1	589.1	528.5	466.9	438.1	436.1	423.2	423.2	423.2
74°	*1400.7*	*990.4*	*650.7*	*527.5*	*477.8*	*421.2*	*396.4*	*387.4*	*375.5*	*376.5*	*375.5*
75°	1126.5	851.4	597.0	486.8	442.1	394.4	369.6	357.6	348.7	348.7	347.7
77.5°	711.3	646.7	480.8	387.4	353.7	324.8	308.0	292.1	292.1	291.1	290.1
80°	537.4	514.6	374.5	293.1	271.2	249.3	238.4	231.5	231.5	234.4	233.5
82.5°	368.6	387.4	263.3	204.6	193.7	177.8	175.8	176.8	173.8	169.9	168.9
85°	269.2	291.1	177.8	129.1	118.2	108.3	116.2	120.2	115.2	106.3	102.3
87.5°	103.3	190.7	95.4	53.6	49.7	42.7	49.7	51.7	55.6	43.7	44.7
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

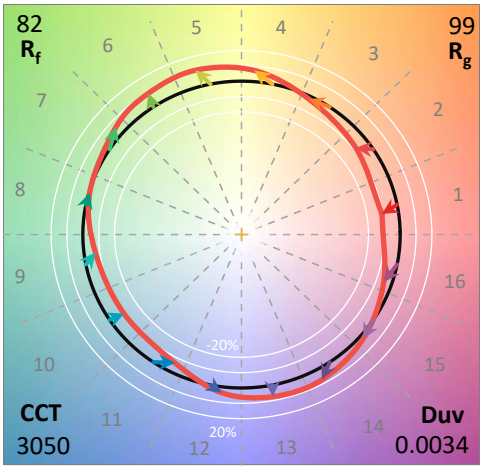
Test Information

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

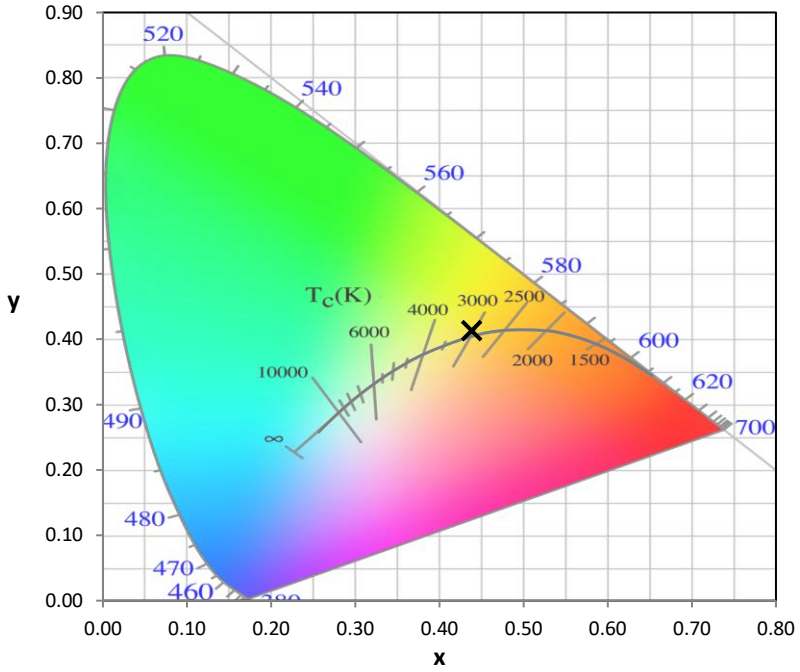
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

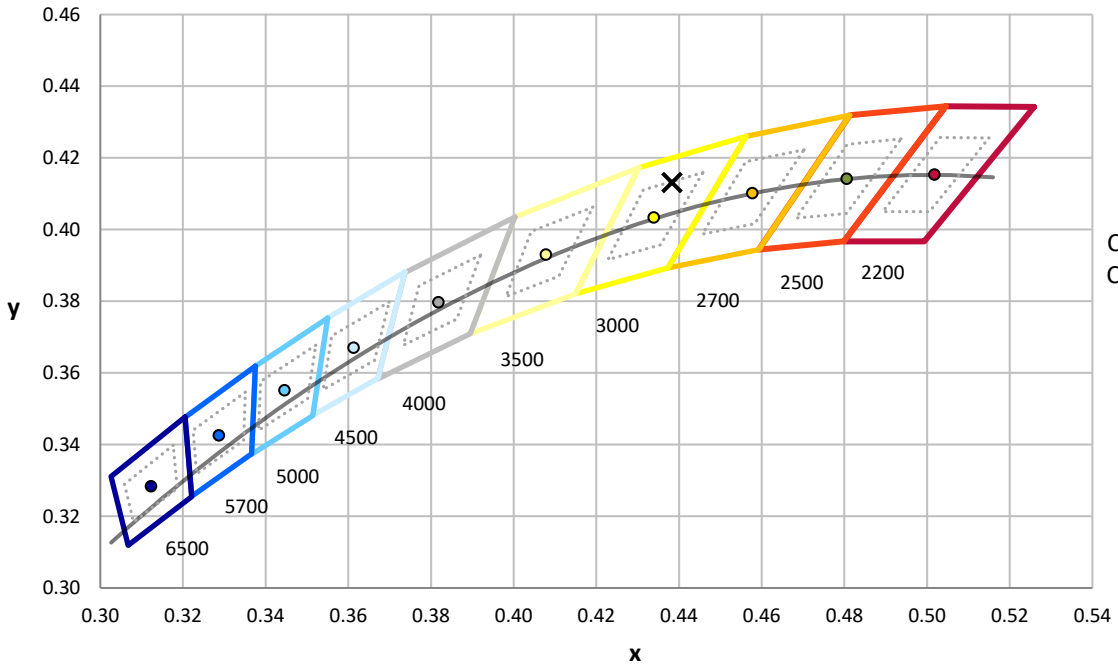
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

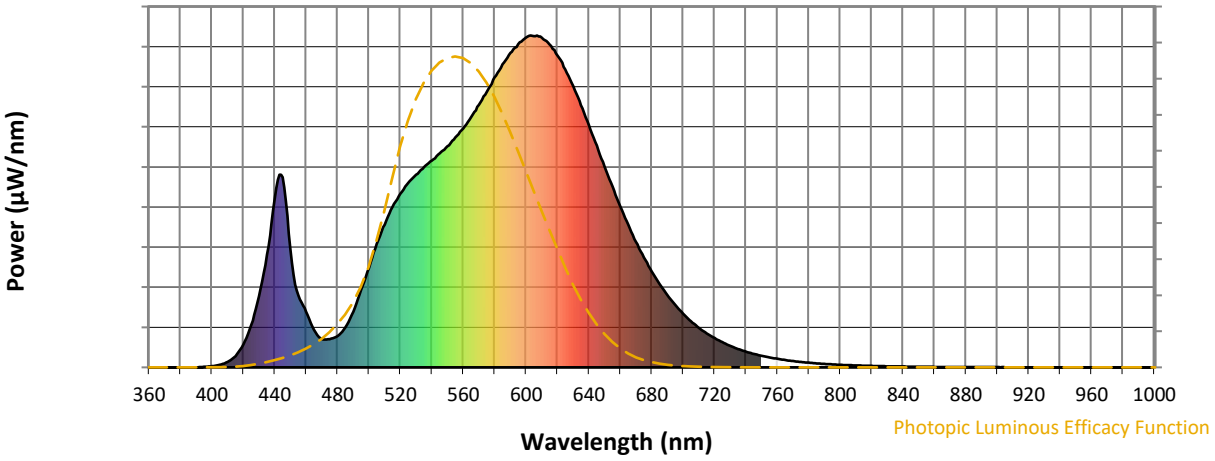


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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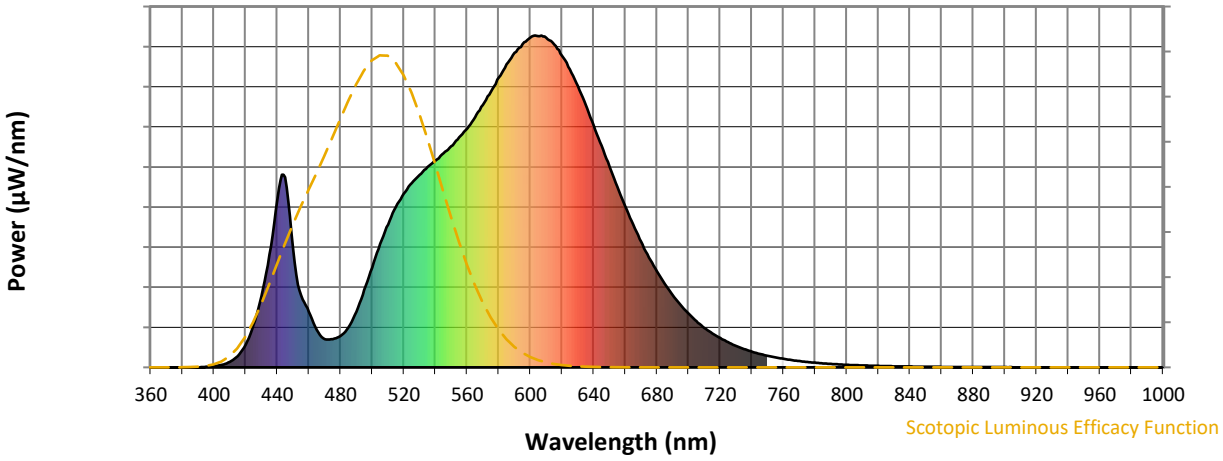
Scotopic Flux vs. Wavelength



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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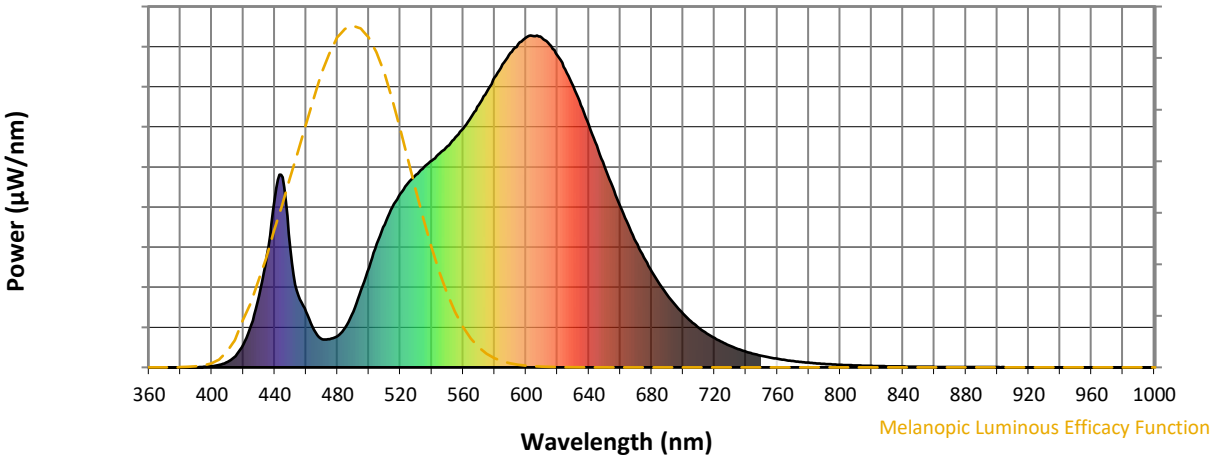
Melanopic Flux vs. Wavelength



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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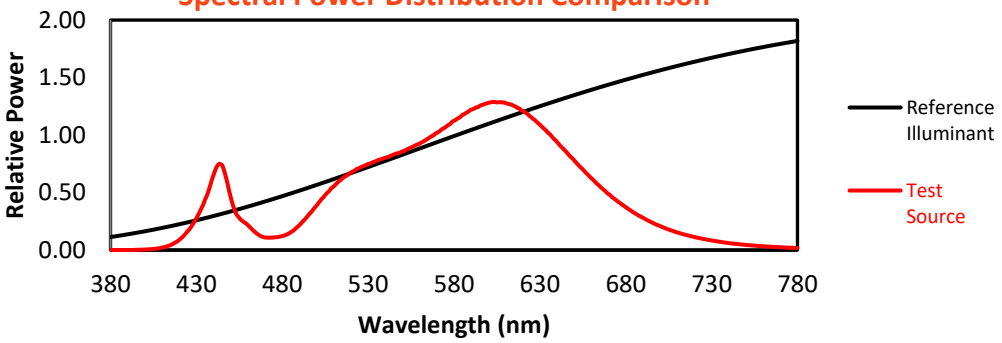
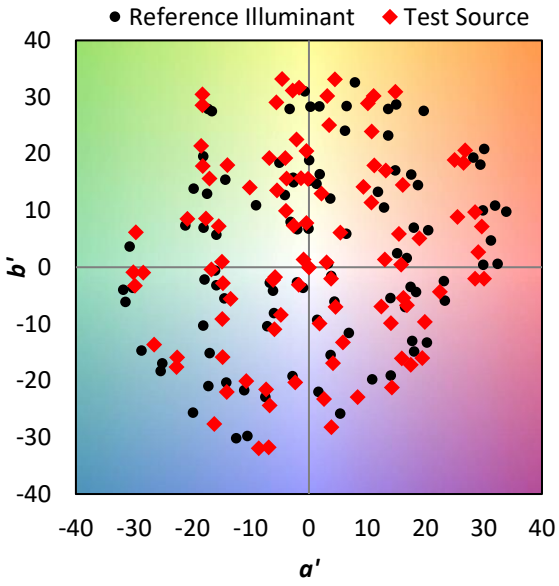
Summary

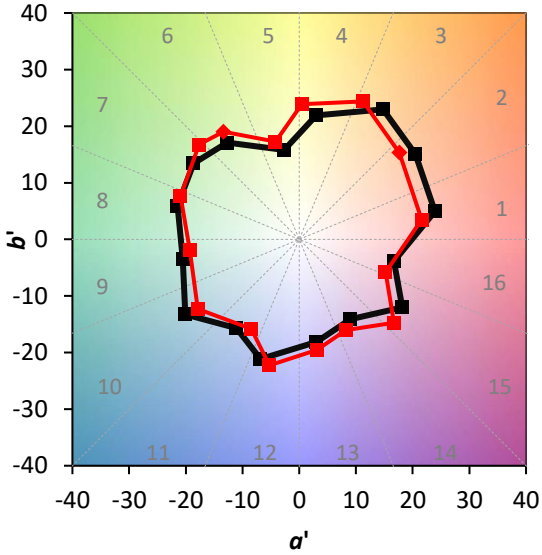
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

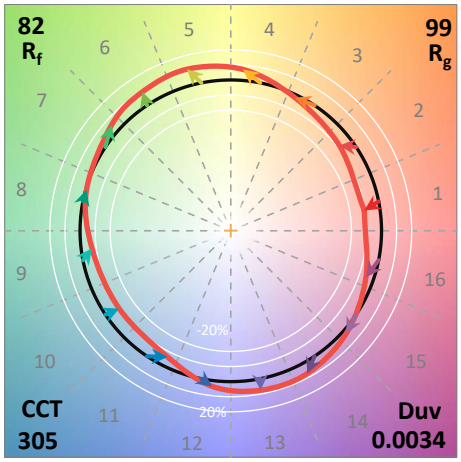
Spectral Power Distribution Comparison

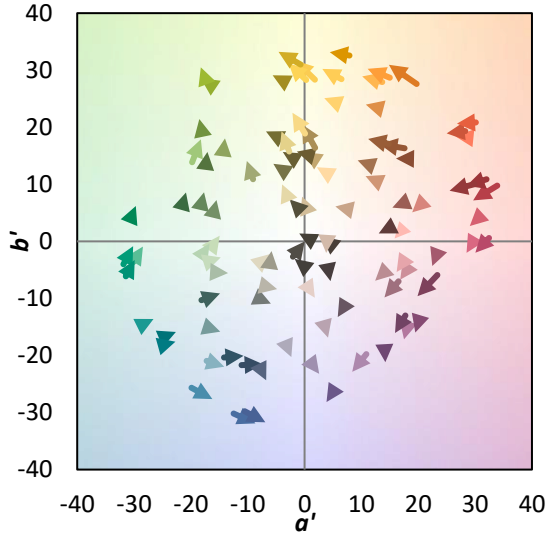


Color Vector Graphics









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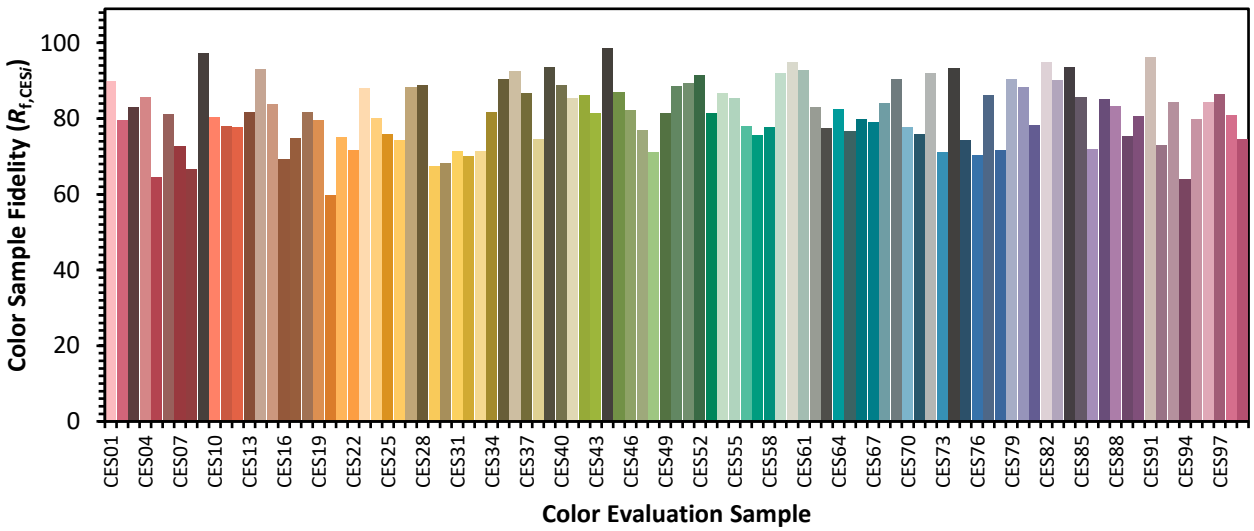
Individual Sample Fidelity Index ($R_{f,i}$)

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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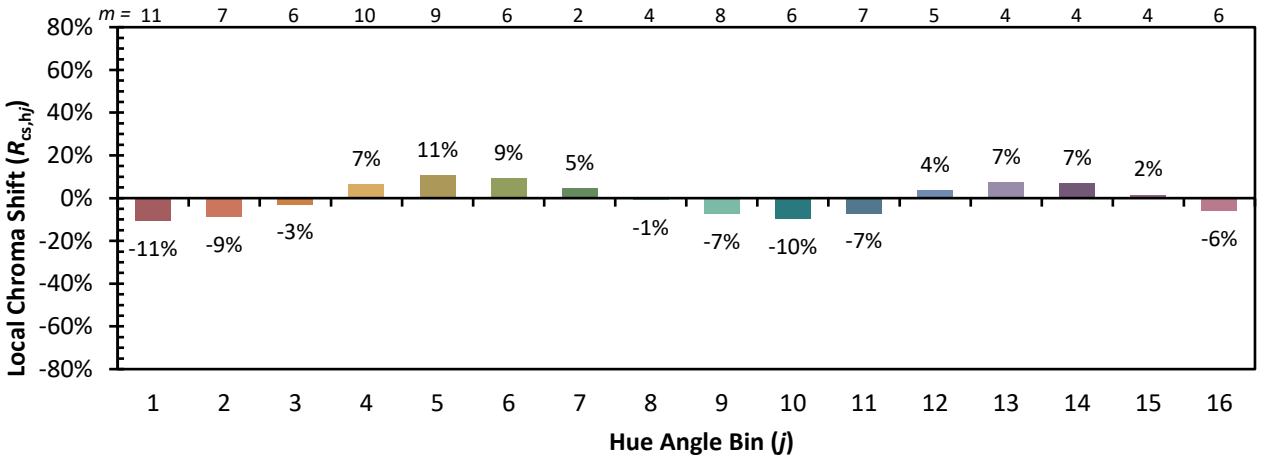
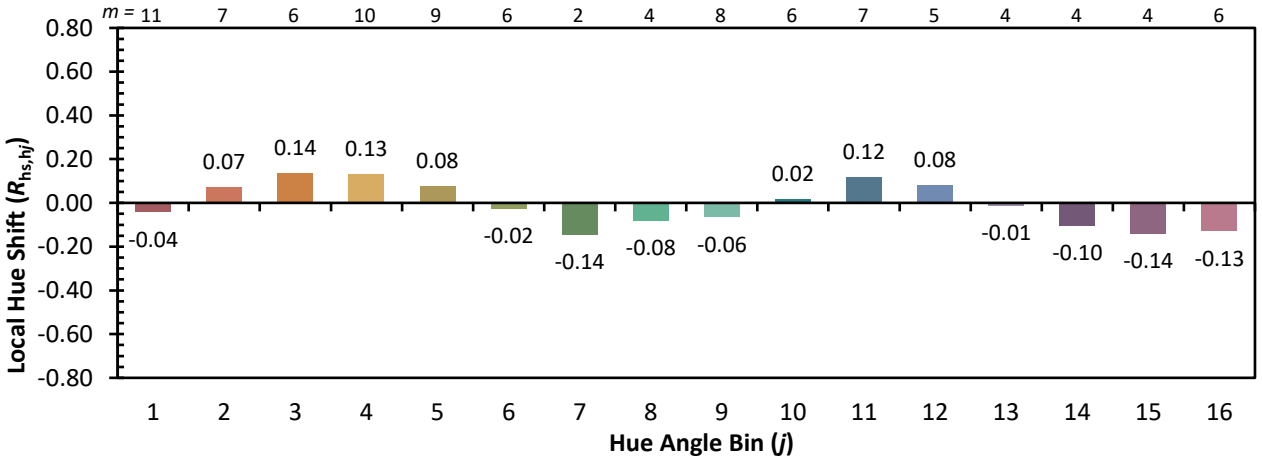
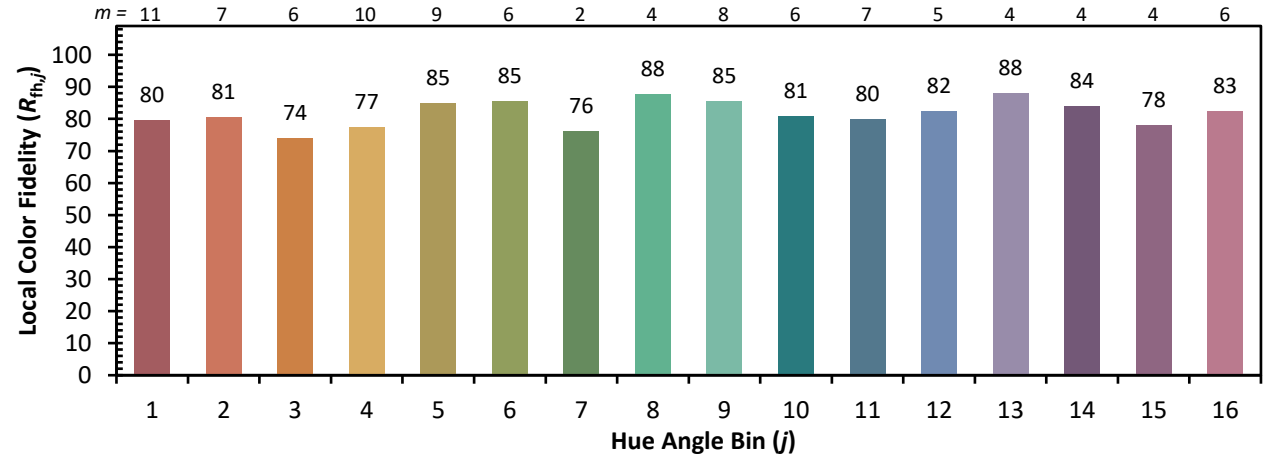
Color Rendition by Hue-Angle Bin







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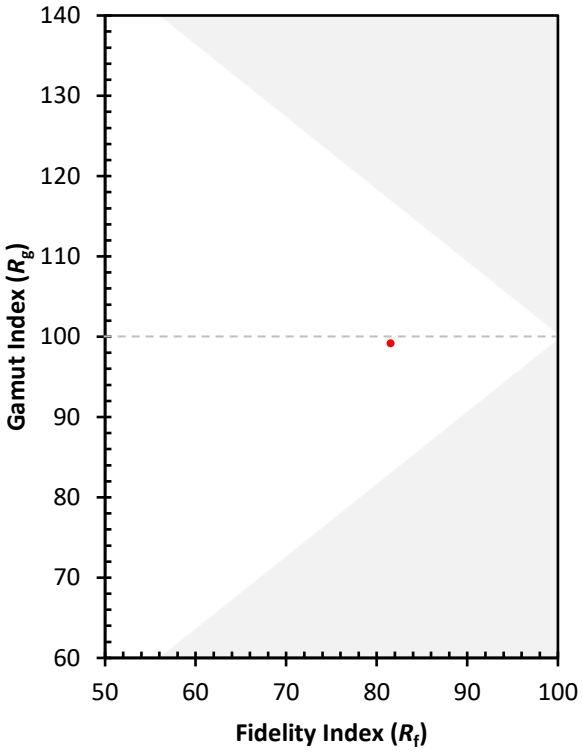
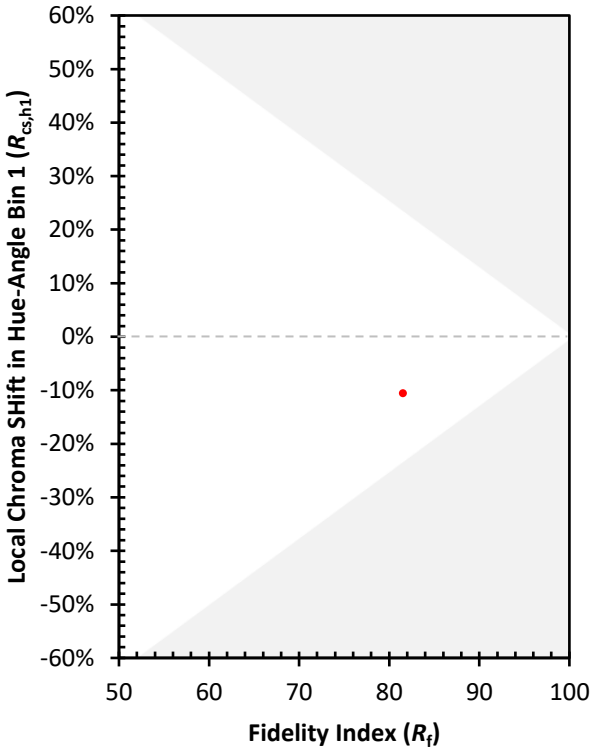
Measure Comparisons





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