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: P319204

Luminaire Tested: **GLEON-SA0B-830-U-T4W**

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:	P319204
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA0B-830-U-T4W
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	44634 lumens
Efficiency:	N/A
Efficacy:	106.5 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B4 - U0 - G5

Input Watts (W):	419
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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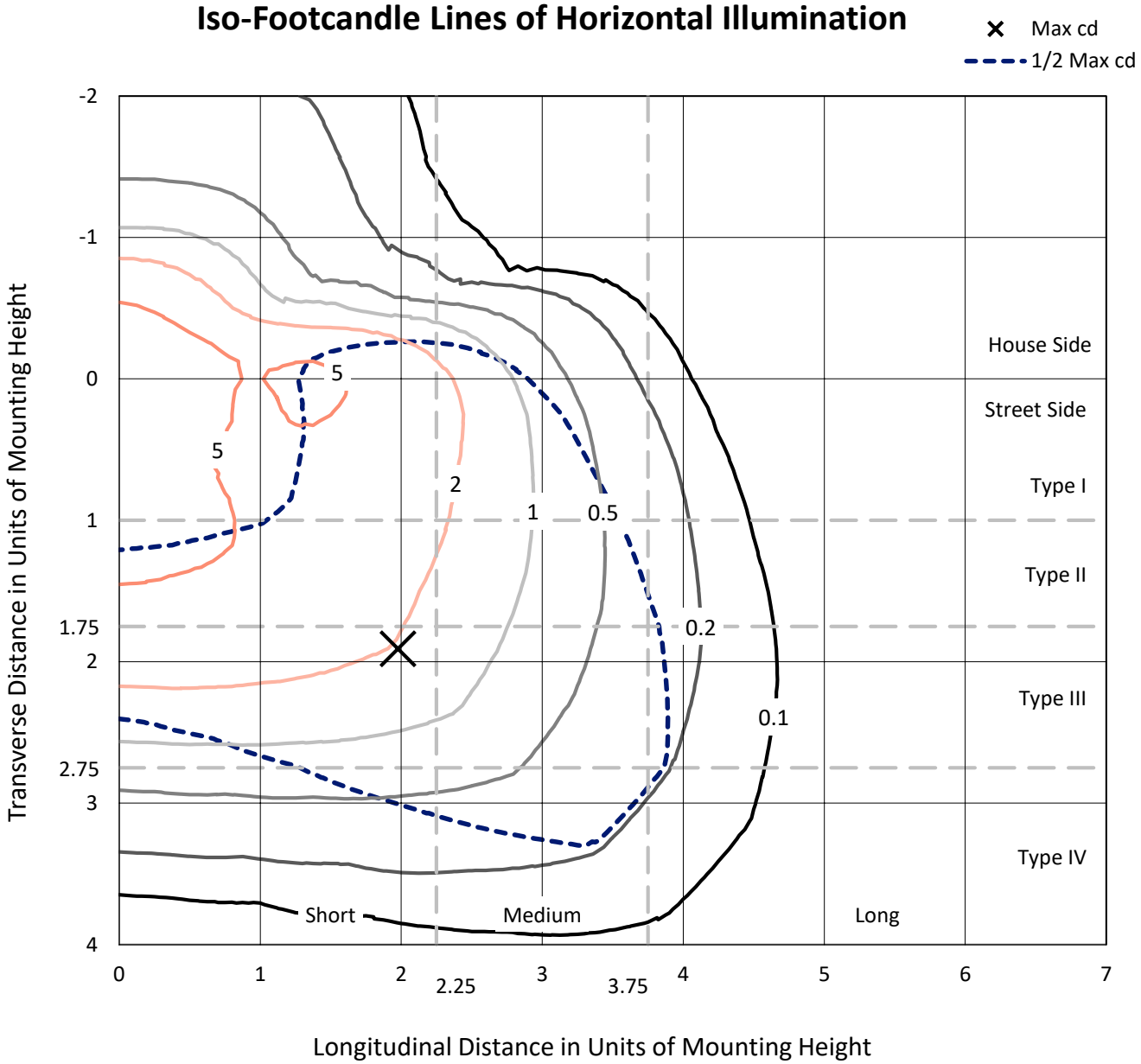
REPORT NUMBER: P319204
CATALOG NUMBER: GLEON-SA0B-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
Type IV - Short - N/A

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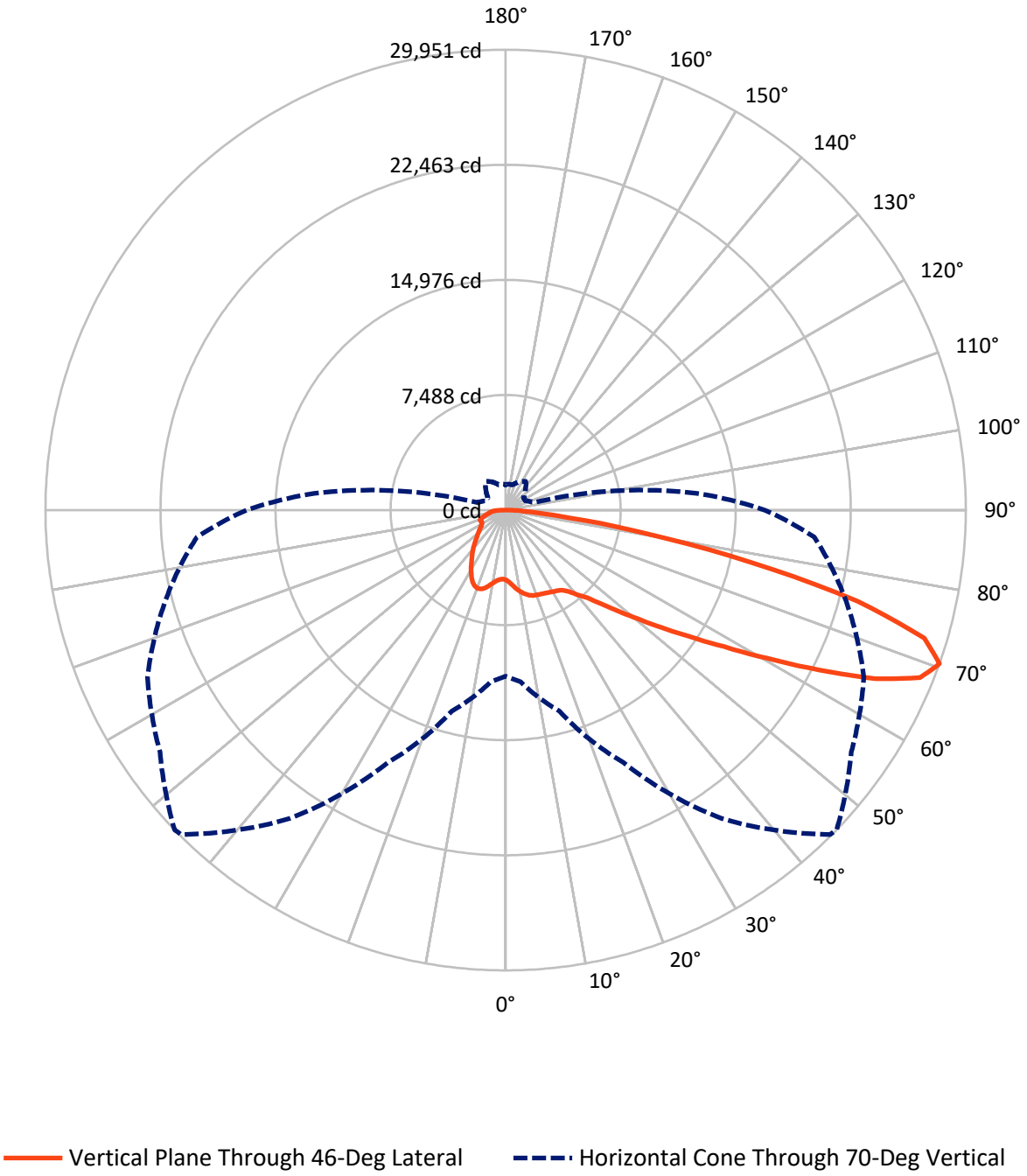
Luminous Intensity Polar Plot



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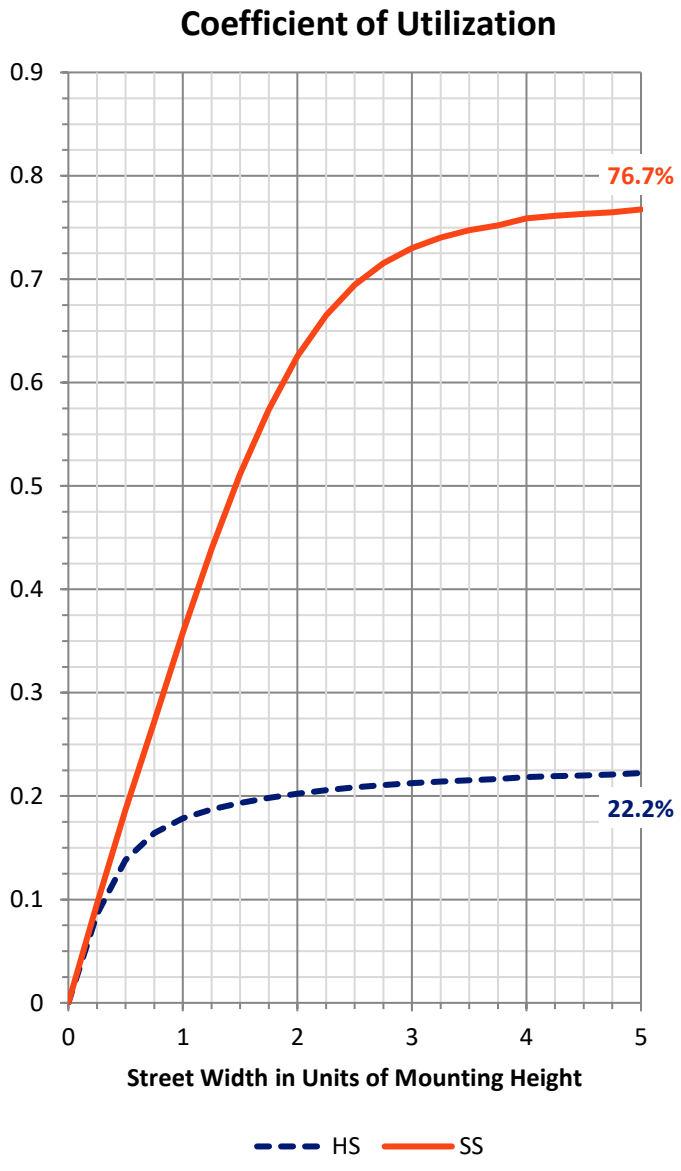
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10230.0	0.0	10230.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	34404.0	0.0	34404.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	44634.0	0.0	44634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.6	1.0
10°-20°	1544.5	3.5
20°-30°	2575.2	5.8
30°-40°	3654.4	8.2
40°-50°	5375.4	12.0
50°-60°	9103.2	20.4
60°-70°	12921.9	29.0
70°-80°	7850.2	17.6
80°-90°	1145.6	2.6
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°	44634.0	100.0
0°-180°	44634.0	100.0



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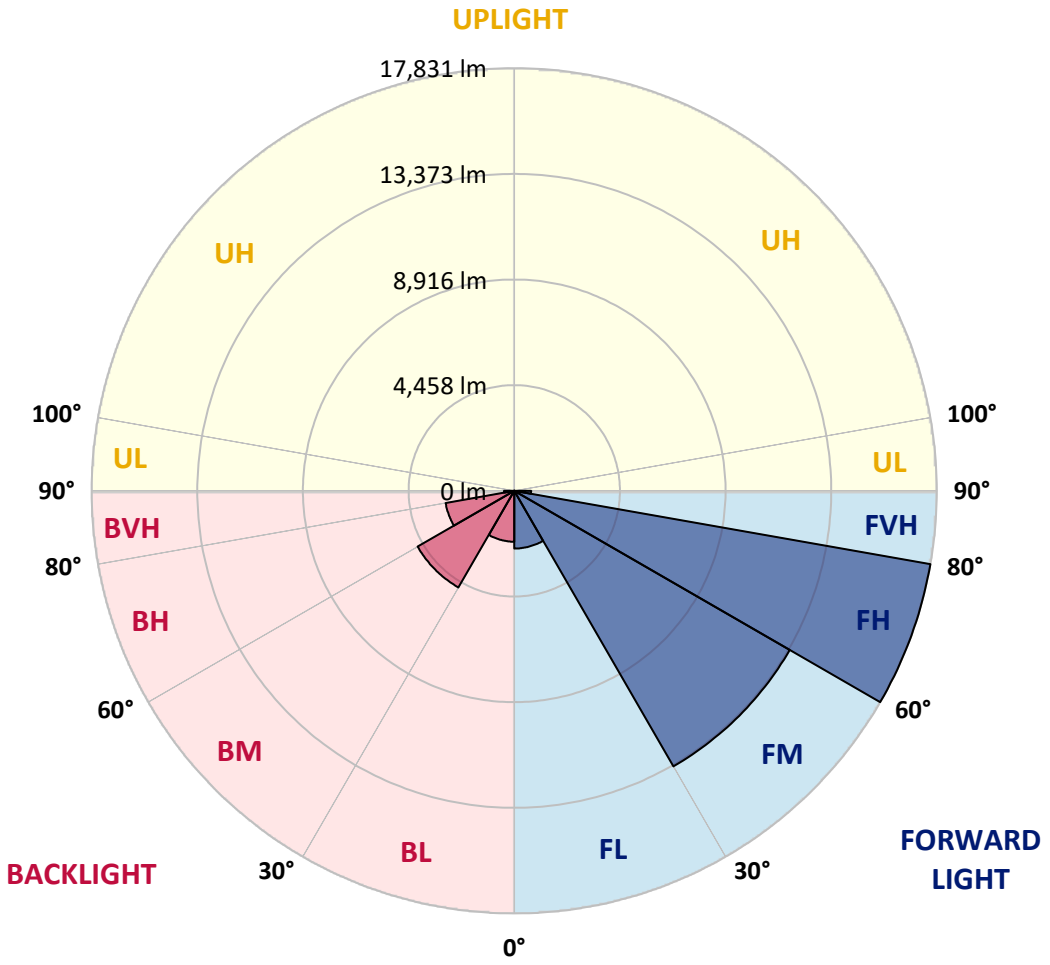
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2435.4	5.5			
FM	(30°-60°)	13423.9	30.1			
FH	(60°-80°)	17831.0	39.9			G5
FVH	(80°-90°)	713.6	1.6			G4/750
BL	(0°-30°)	2147.8	4.8	B3/2500		
BM	(30°-60°)	4709.1	10.6	B3/5000		
BH	(60°-80°)	2941.0	6.6	B4/5000		G4/5000
BVH	(80°-90°)	432.0	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
Type IV Short



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REPORT NUMBER: P319204
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3	*4547.3*	4547.3	4547.3	4547.3	4547.3
2.5°	4774.9	4778.0	4784.1	4768.8	4726.0	4713.8	*4709.2*	4664.9	4635.9	4593.2	4556.5
5°	5156.8	5159.9	5150.7	5107.9	5013.2	4943.0	*4936.8*	4836.0	4744.4	4646.6	4573.3
7.5°	5555.5	5560.1	5531.0	5450.1	5317.2	5195.0	*5187.3*	5049.9	4910.9	4762.7	4652.7
10°	5908.3	5890.0	5842.6	5729.6	5572.3	5422.6	*5416.5*	5272.9	5112.5	4933.8	4787.1
12.5°	6143.6	6128.3	6067.2	5929.7	5757.1	5619.6	*5607.4*	5474.5	5318.7	5123.2	4947.5
15°	6273.4	6284.1	6201.6	6045.8	5877.8	5761.7	*5751.0*	5656.3	5517.3	5320.2	5118.6
17.5°	6290.2	6299.4	6219.9	6065.7	5928.2	5848.8	*5844.2*	5781.5	5680.7	5491.3	5280.5
20°	6192.4	6198.5	6132.9	6006.1	5916.0	5891.5	*5890.0*	5862.5	5787.7	5619.6	5414.9
22.5°	6050.4	6055.0	6007.6	5916.0	5885.4	5923.6	*5934.3*	5923.6	5870.1	5712.8	5520.3
25°	6015.2	6012.2	5963.3	5870.1	5896.1	5977.1	*5990.8*	5995.4	5958.7	5821.3	5654.8
27.5°	6184.8	6174.1	6080.9	5931.2	5948.0	6045.8	*6064.1*	6108.4	6085.5	5964.8	5807.5
30°	6675.1	6656.8	6465.9	6163.4	6080.9	6131.3	*6154.2*	6224.5	6229.1	6128.3	6010.7
32.5°	7503.0	7480.1	7138.0	6597.2	6305.5	6218.4	*6239.8*	6345.2	6401.7	6323.8	6197.0
35°	8549.3	8523.4	8074.3	7335.0	6681.2	6384.9	*6400.2*	6484.2	6597.2	6487.2	6319.2
37.5°	9640.0	9577.3	9145.1	8202.6	7278.5	6740.8	*6740.8*	6751.5	6805.0	6575.8	6462.8
40°	10724.5	10661.9	10270.8	9223.0	8051.4	7301.4	*7266.3*	7029.5	6986.7	6789.7	6751.5
42.5°	11732.6	11714.3	11483.7	10376.2	8958.7	7852.8	*7803.9*	7402.2	7411.4	7289.2	7290.7
45°	12804.9	12804.9	12617.0	11540.2	10015.7	8738.8	*8689.9*	8098.7	8190.4	8133.9	8269.8
47.5°	13680.2	13707.7	13681.7	12753.0	11245.4	9864.5	*9775.9*	9064.1	9320.7	9514.7	9910.3
50°	14573.8	14616.5	14621.1	14083.4	12731.6	11202.6	*11101.8*	10345.7	10918.5	11474.5	12252.0
52.5°	15870.6	15966.8	15583.4	15410.8	14552.4	12791.2	*12691.9*	11993.8	12950.0	13730.6	15070.2
55°	17072.7	16988.7	16715.3	16822.2	16501.4	14599.7	*14524.9*	13912.4	15213.8	16228.0	17967.8
57.5°	17723.4	17717.3	17992.3	18450.5	18603.3	16829.9	*16767.2*	16171.5	17766.2	18528.4	20688.3
60°	18487.2	18497.9	19179.1	20219.4	20848.7	19606.8	*19579.3*	19127.2	20245.3	20676.1	22822.2
62.5°	18594.1	18786.6	19959.7	21749.9	22950.5	22851.2	*22912.3*	21789.6	22463.2	22389.9	24415.4
65°	17364.5	17618.0	19741.3	22212.7	25040.1	26399.6	*26456.1*	24467.3	24212.2	23854.8	24985.1
67.5°	14844.1	15219.9	17526.4	21206.1	25729.0	29022.3	*29101.7*	26543.2	25663.3	24351.2	23613.4
70°	*10802.4*	*11219.4*	*13541.2*	*18111.4*	*24500.9*	*29860.9*	*29951.0*	*27461.2*	*25718.3*	*22938.3*	*20158.3*
72.5°	6525.4	6852.3	8766.3	13333.4	20679.1	28333.4	*28493.8*	26297.2	23480.5	19429.6	14885.4
75°	2865.6	3079.4	4238.8	7683.3	14804.4	23442.4	*23642.5*	22509.1	19078.3	14120.1	8798.3
77.5°	1220.5	1281.6	1738.3	3337.6	8369.1	16018.8	*16293.7*	16446.5	12943.9	7683.3	3717.9
80°	760.7	785.1	983.7	1510.7	3916.5	8996.9	*9293.2*	9676.6	6427.7	2824.3	1298.4
82.5°	462.8	490.3	653.8	913.4	2039.2	4078.4	*4220.4*	4490.8	2494.4	1220.5	672.1
85°	278.0	297.9	400.2	577.4	1160.9	1603.9	*1602.3*	1771.9	1174.6	785.1	354.4
87.5°	132.9	148.2	213.8	299.4	585.0	601.8	*563.6*	638.5	713.3	514.8	178.7
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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REPORT NUMBER: P319204
CATALOG NUMBER: GLEON-SA0B-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3	4547.3
2.5°	4544.3	4538.2	4518.3	4503.0	4500.0	4490.8	4483.2	4487.8	4493.9	4495.4	4495.4
5°	4542.7	4525.9	4500.0	4489.3	4503.0	4521.4	4544.3	4574.8	4593.2	4606.9	4616.1
7.5°	4616.1	4584.0	4555.0	4548.9	4576.4	4625.2	4677.2	4741.3	4785.6	4816.2	4822.3
10°	4738.3	4698.6	4669.5	4675.6	4724.5	4794.8	4868.1	4950.6	5017.8	5059.0	5062.1
12.5°	4878.8	4840.6	4813.1	4839.1	4920.0	5005.6	5082.0	5153.7	5214.8	5256.1	5256.1
15°	5040.7	5013.2	4981.1	5040.7	5150.7	5227.1	5259.1	5294.3	5327.9	5358.4	5352.3
17.5°	5196.5	5170.5	5153.7	5224.0	5338.6	5373.7	5352.3	5326.3	5326.3	5343.2	5346.2
20°	5330.9	5308.0	5318.7	5387.4	5447.0	5410.4	5330.9	5248.4	5214.8	5224.0	5233.2
22.5°	5448.5	5437.9	5469.9	5502.0	5459.2	5330.9	5184.3	5072.8	5031.5	5028.5	5031.5
25°	5586.0	5584.5	5624.2	5566.2	5376.8	5140.0	4943.0	4834.5	4811.6	4829.9	4860.5
27.5°	5757.1	5773.9	5793.8	5581.4	5208.7	4851.3	4651.2	4576.4	4599.3	4643.6	4672.6
30°	5975.5	6021.4	5978.6	5543.3	4967.4	4521.4	4330.4	4309.0	4371.7	4434.3	4464.8
32.5°	6187.9	6259.6	6155.8	5444.0	4655.8	4171.6	4023.4	4017.3	4093.7	4154.8	4197.5
35°	6358.9	6501.0	6288.7	5246.9	4295.3	3849.3	3740.8	3699.6	3727.1	3798.9	3847.7
37.5°	6581.9	6818.7	6380.3	4946.0	3904.3	3583.5	3456.7	3362.0	3337.6	3366.6	3391.0
40°	6989.8	7302.9	6423.1	4525.9	3522.4	3317.7	3189.4	3050.4	2954.2	2883.9	2885.4
42.5°	7655.8	7933.8	6395.6	4015.8	3169.5	3058.0	2912.9	2752.5	2596.7	2437.9	2425.7
45°	8737.2	8871.6	6313.1	3475.0	2859.5	2786.1	2650.2	2489.8	2282.1	2101.8	2085.0
47.5°	10467.9	10170.0	6184.8	3003.0	2586.0	2555.5	2430.2	2245.4	2025.4	1880.3	1868.1
50°	12827.8	12044.2	6122.2	2627.3	2344.7	2353.9	2251.5	2056.0	1848.3	1741.3	1729.1
52.5°	15650.6	14227.0	6242.8	2337.1	2150.7	2182.8	2106.4	1923.1	1749.0	1665.0	1652.7
55°	18578.8	16487.7	6372.7	2126.3	1967.4	2030.0	2004.1	1852.8	1695.5	1617.6	1606.9
57.5°	21085.4	18175.6	6113.0	1955.2	1804.0	1901.7	1924.6	1808.5	1668.0	1597.8	1585.5
60°	22663.3	18855.3	5431.7	1794.8	1674.1	1799.4	1878.8	1796.3	1678.7	1672.6	1663.4
62.5°	23411.8	18795.7	4409.9	1668.0	1593.2	1755.1	1912.4	1865.1	1800.9	1855.9	1860.5
65°	23075.8	17897.6	3284.1	1584.0	1535.1	1771.9	2013.2	1994.9	1836.0	1891.0	1898.7
67.5°	20864.0	15754.5	2431.8	1510.7	1471.0	1819.2	2196.5	2037.7	1767.3	1807.0	1782.6
70°	*16863.5*	*12490.3*	*1875.8*	*1428.2*	*1405.3*	*1813.1*	*2279.0*	*2011.7*	*1692.5*	*1701.6*	*1635.9*
72.5°	11628.8	8517.3	1526.0	1351.8	1310.6	1652.7	2221.0	1947.5	1629.8	1559.6	1472.5
75°	6323.8	4571.8	1296.8	1272.4	1144.1	1451.1	2114.0	1901.7	1573.3	1480.1	1431.3
77.5°	2488.3	1897.1	1125.8	1163.9	1000.5	1281.6	1994.9	1814.7	1495.4	1373.2	1348.8
80°	1015.8	968.4	933.3	1006.6	860.0	1121.2	1851.3	1712.3	1402.2	1273.9	1225.0
82.5°	575.9	601.8	725.6	794.3	698.1	1032.6	1782.6	1629.8	1290.7	1141.0	1083.0
85°	294.8	352.8	505.6	569.8	513.2	878.3	1642.0	1426.7	1035.6	873.7	878.3
87.5°	142.1	197.0	319.2	357.4	333.0	635.4	1226.6	1034.1	806.5	638.5	618.6
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

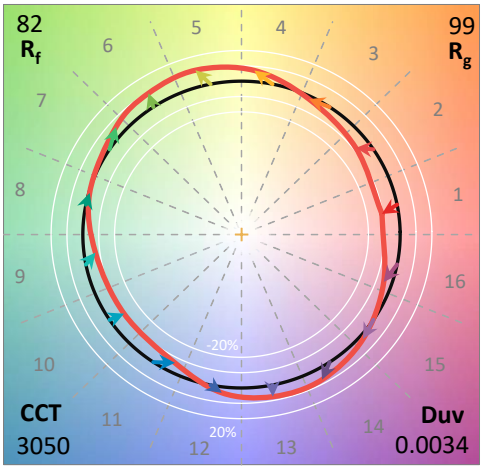
Test Information

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

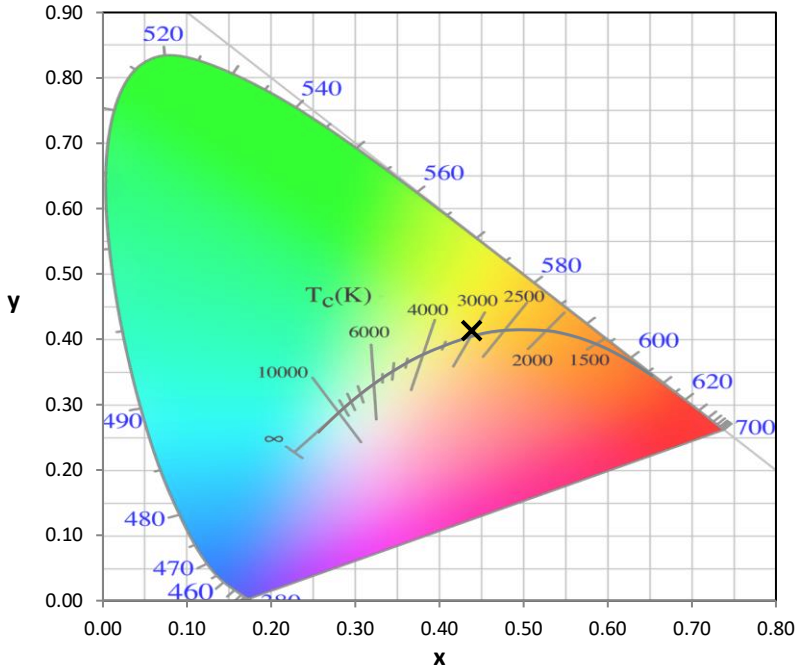
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

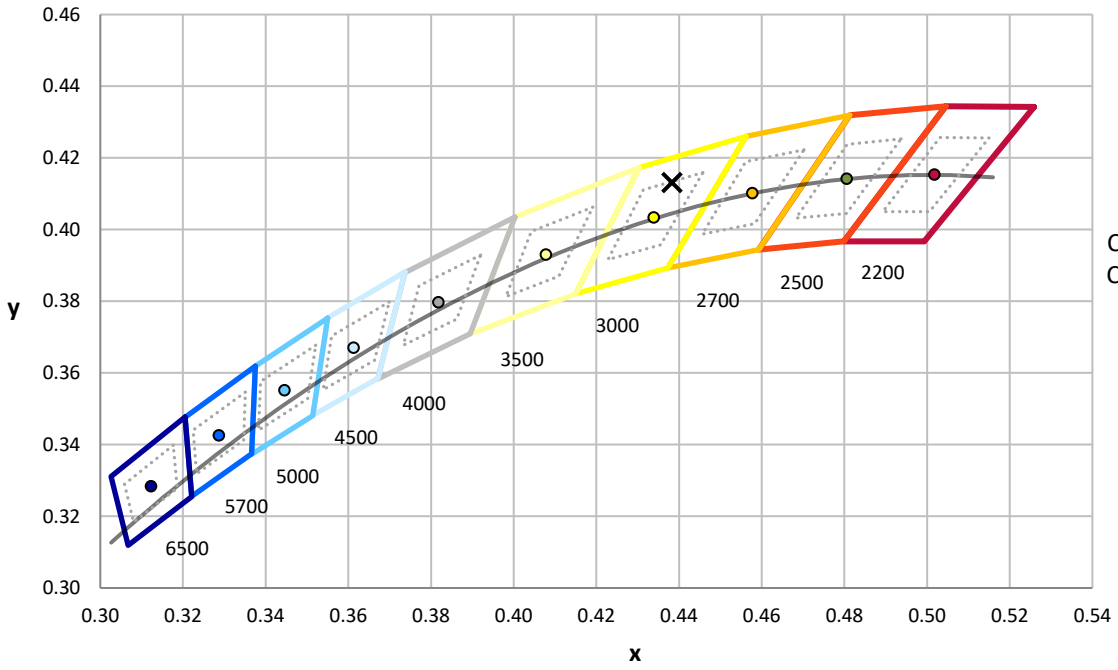
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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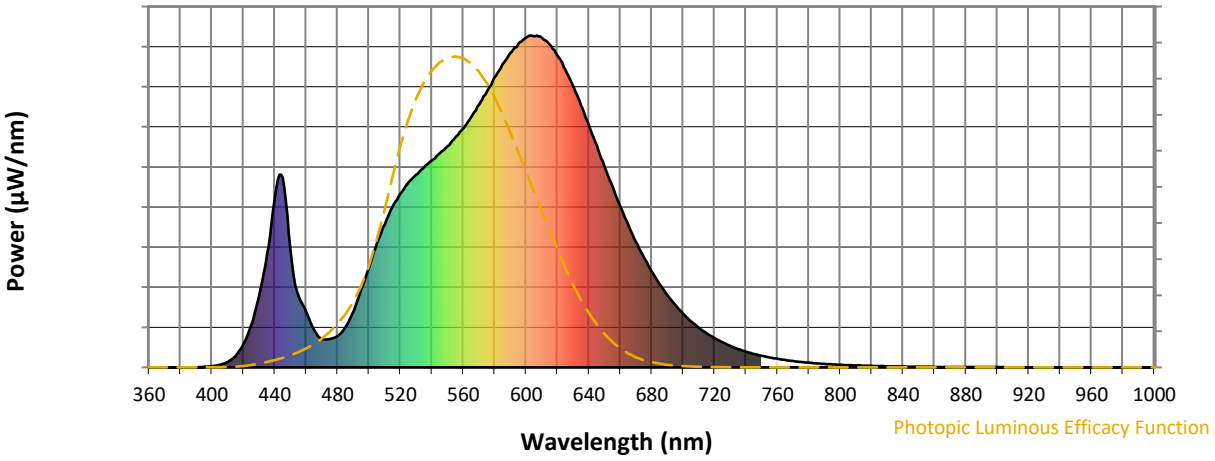
Photopic Flux vs. Wavelength



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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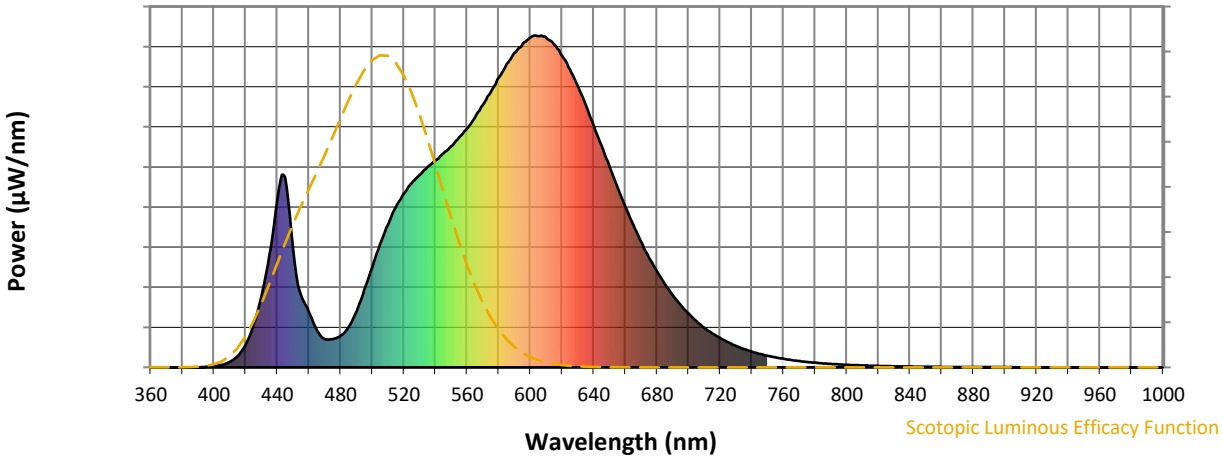
Scotopic Flux vs. Wavelength



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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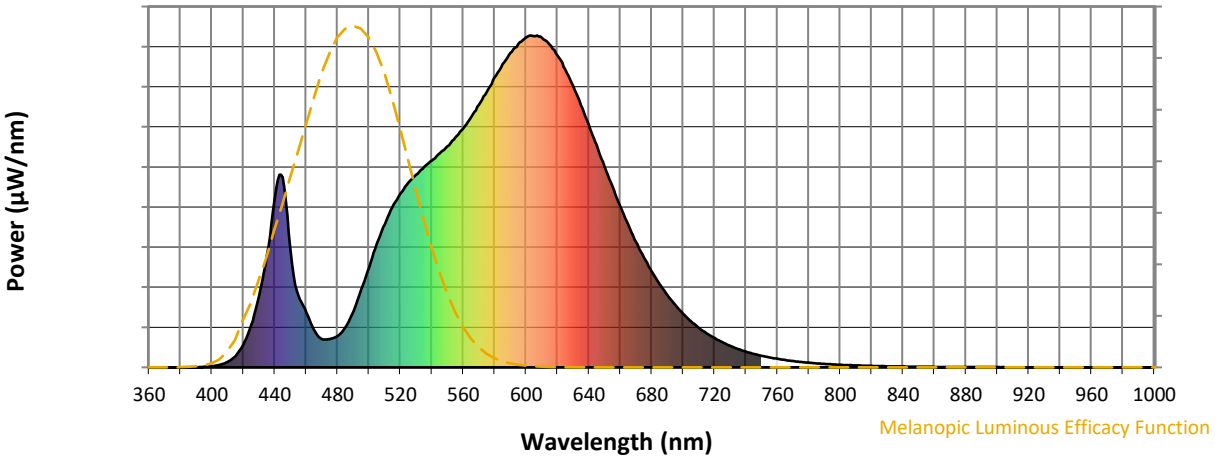
Melanopic Flux vs. Wavelength



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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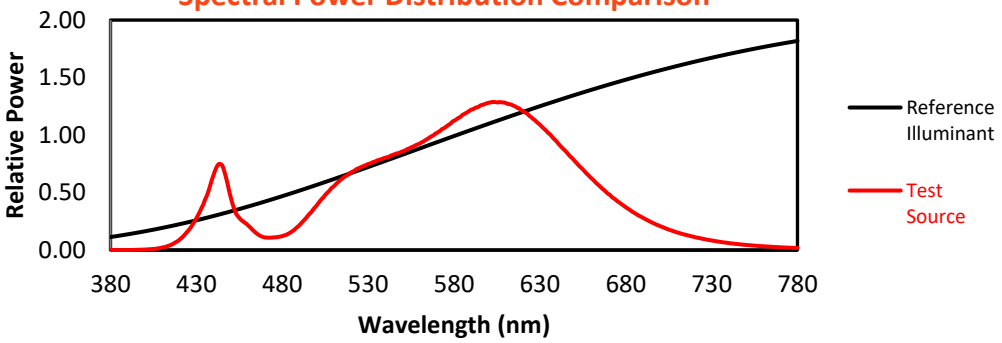
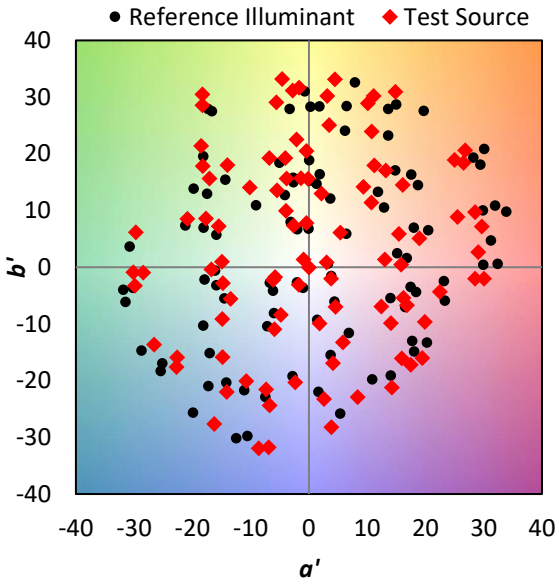
Summary

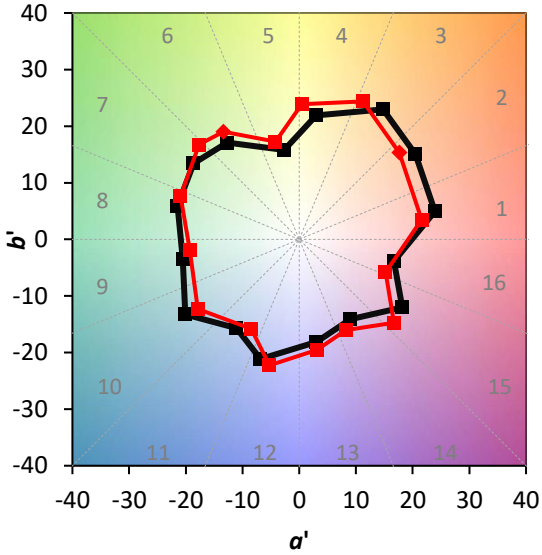
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

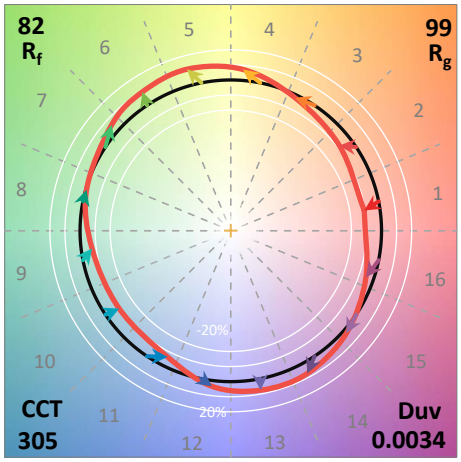
Spectral Power Distribution Comparison

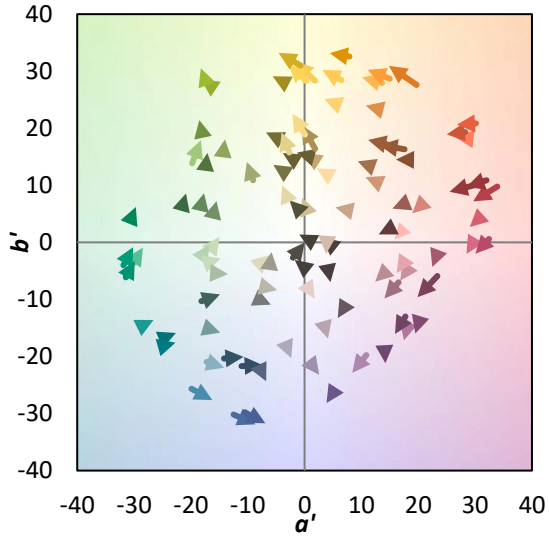


Color Vector Graphics









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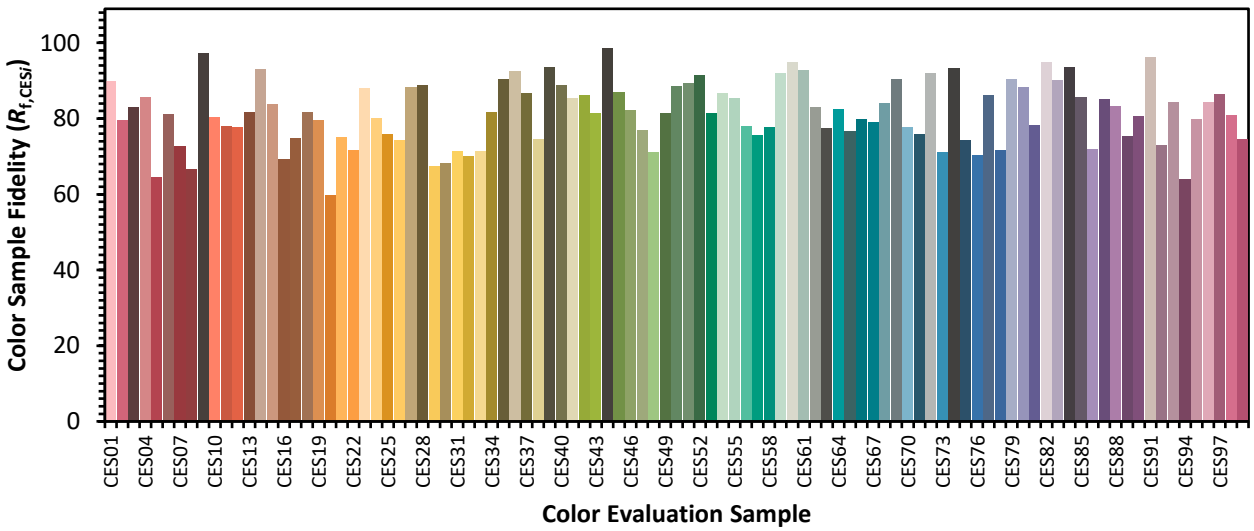
Individual Sample Fidelity Index ($R_{f,i}$)

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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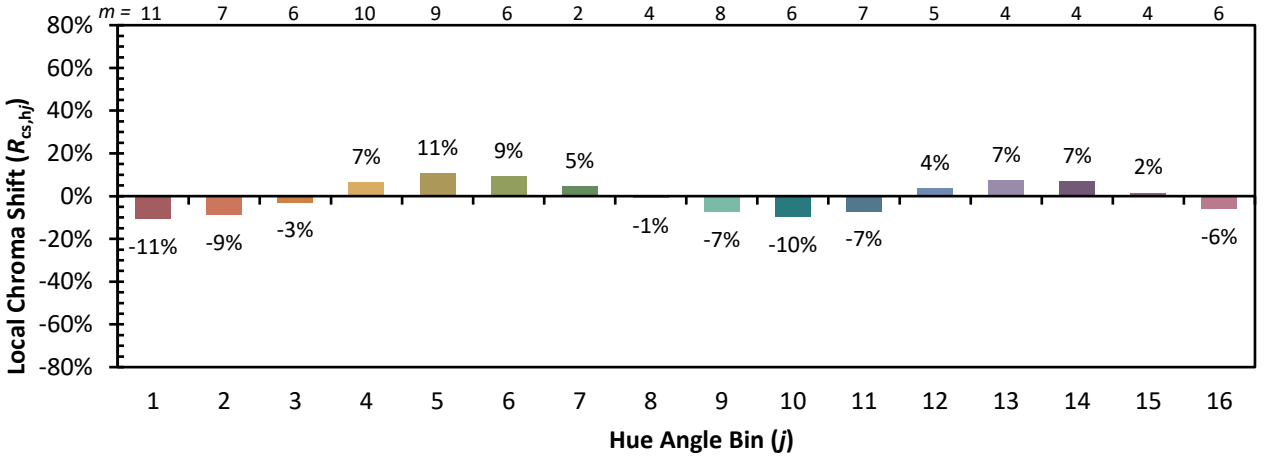
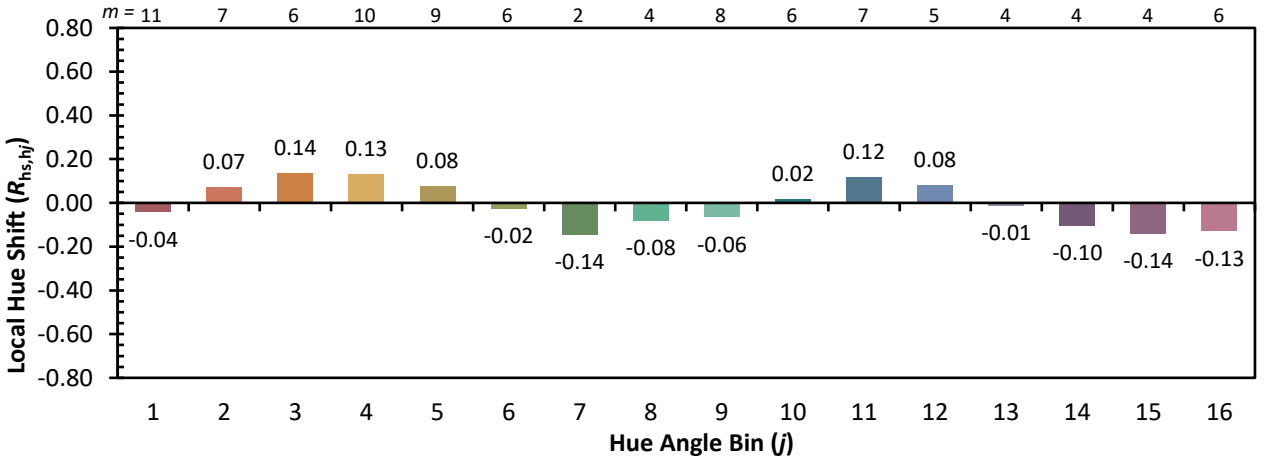
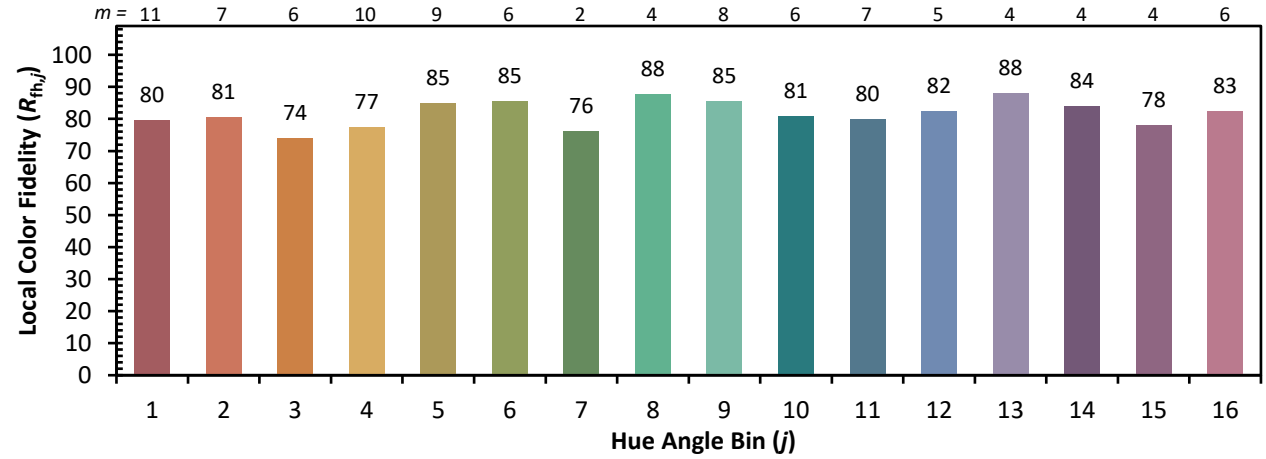
Color Rendition by Hue-Angle Bin







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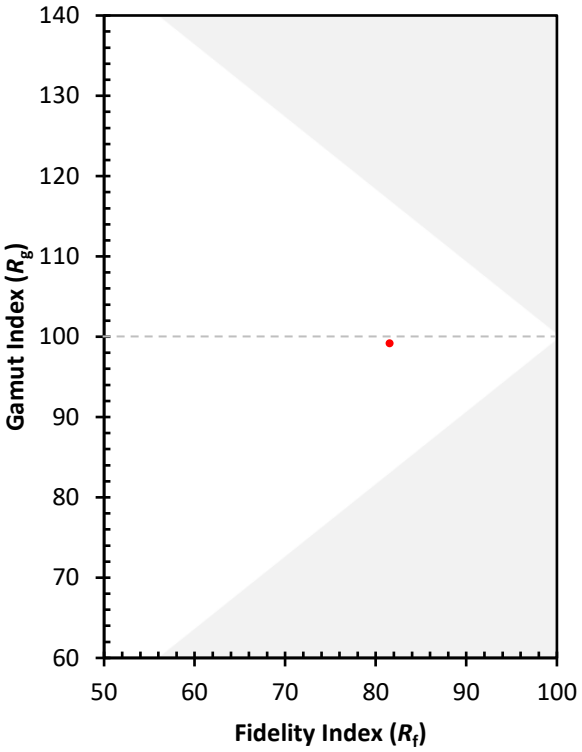
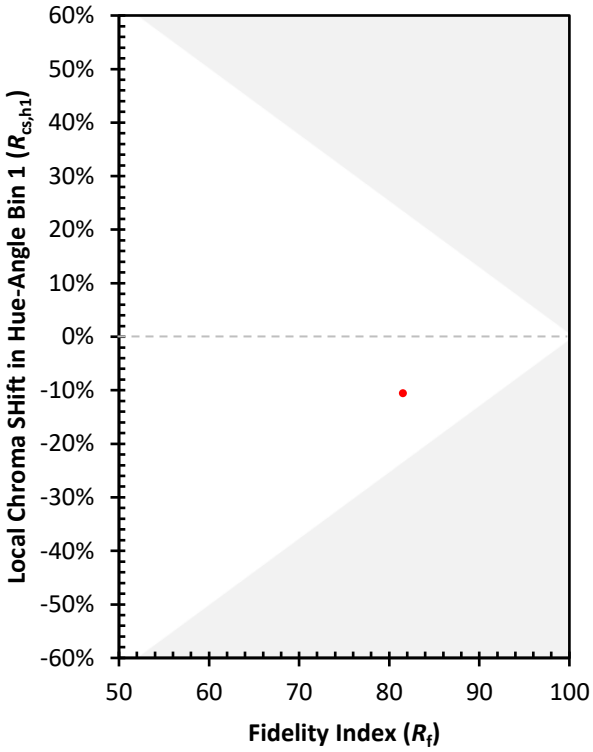
Measure Comparisons





(END OF REPORT)