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: P319203

Luminaire Tested: **GLEON-SA9B-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:	P319203
	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-SA9B-830-U-T4W
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(9) 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:	40314 lumens
Efficiency:	N/A
Efficacy:	107.8 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):	374
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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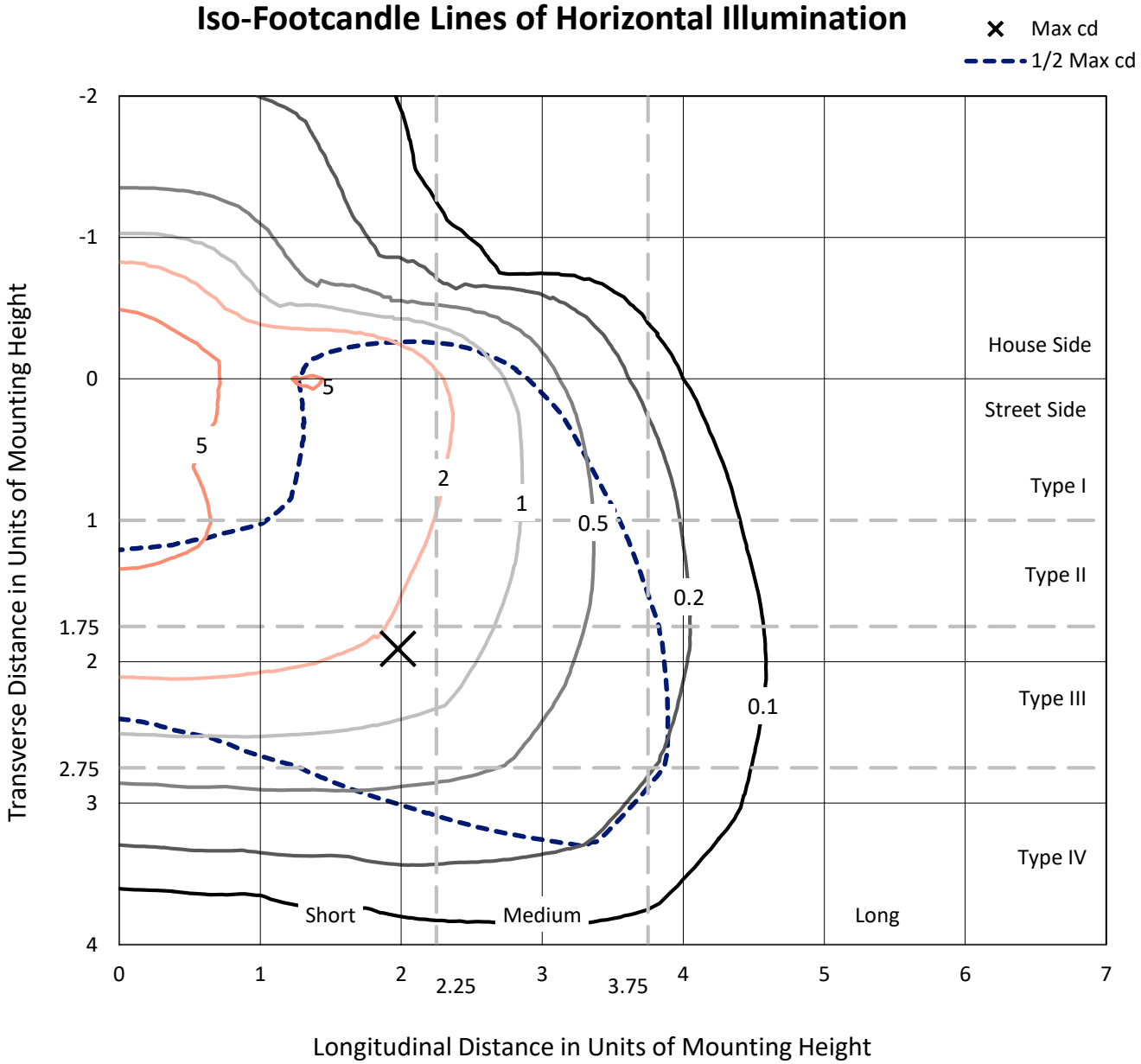
REPORT NUMBER: P319203
CATALOG NUMBER: GLEON-SA9B-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
Type IV - Short - N/A

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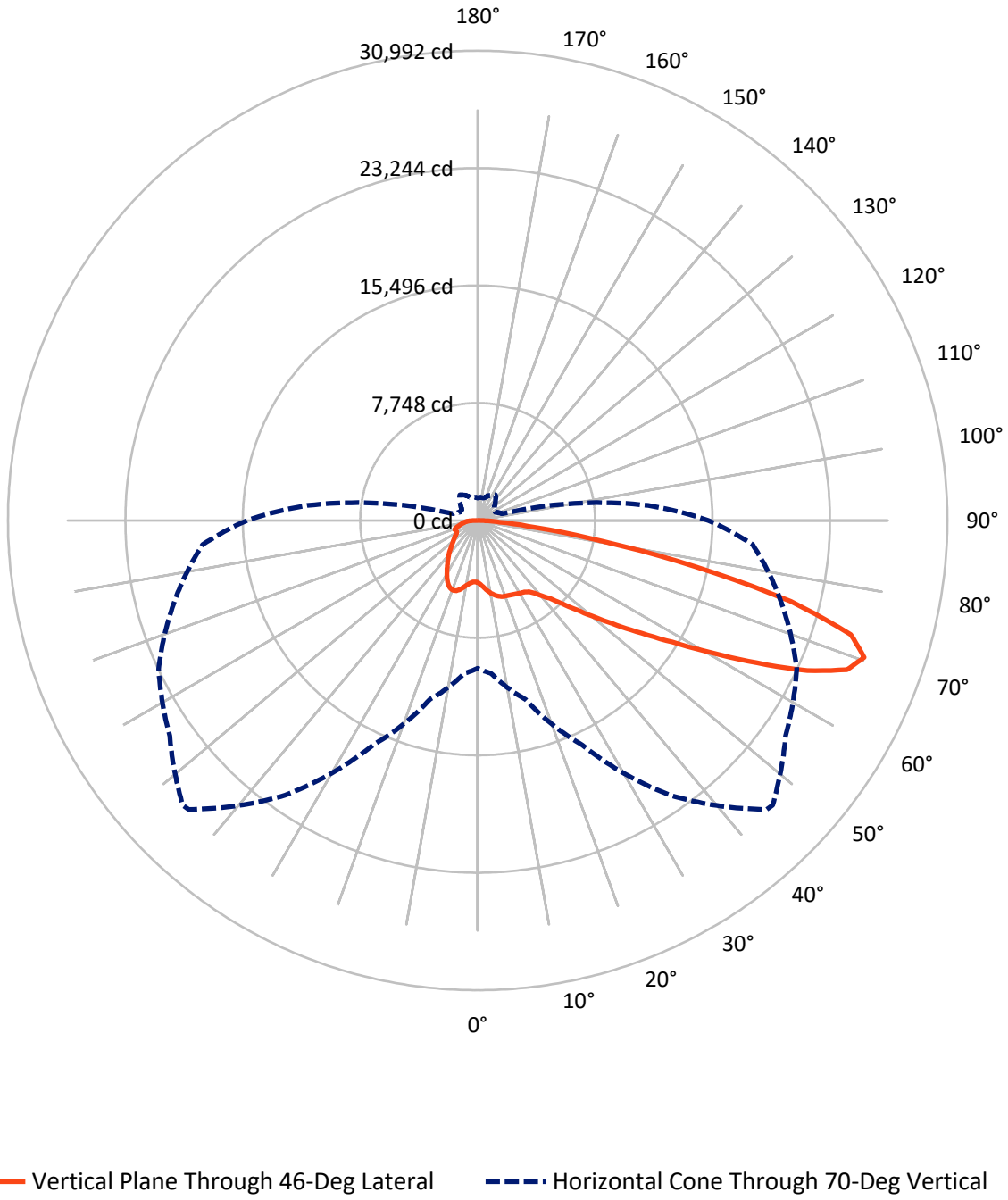
Luminous Intensity Polar Plot



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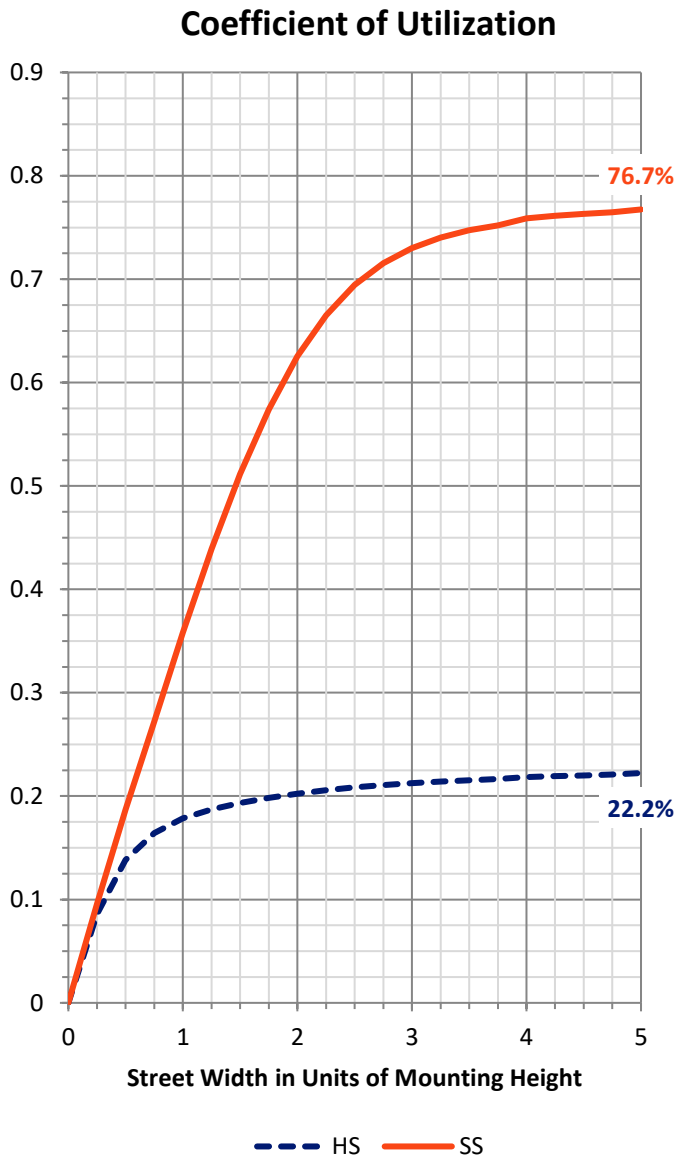
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9239.8	0.0	9239.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	31074.2	0.0	31074.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	40314.0	0.0	40314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.7	1.0
10°-20°	1395.0	3.5
20°-30°	2326.0	5.8
30°-40°	3300.7	8.2
40°-50°	4855.1	12.0
50°-60°	8222.2	20.4
60°-70°	11671.2	29.0
70°-80°	7090.4	17.6
80°-90°	1034.8	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°	40314.0	100.0
0°-180°	40314.0	100.0



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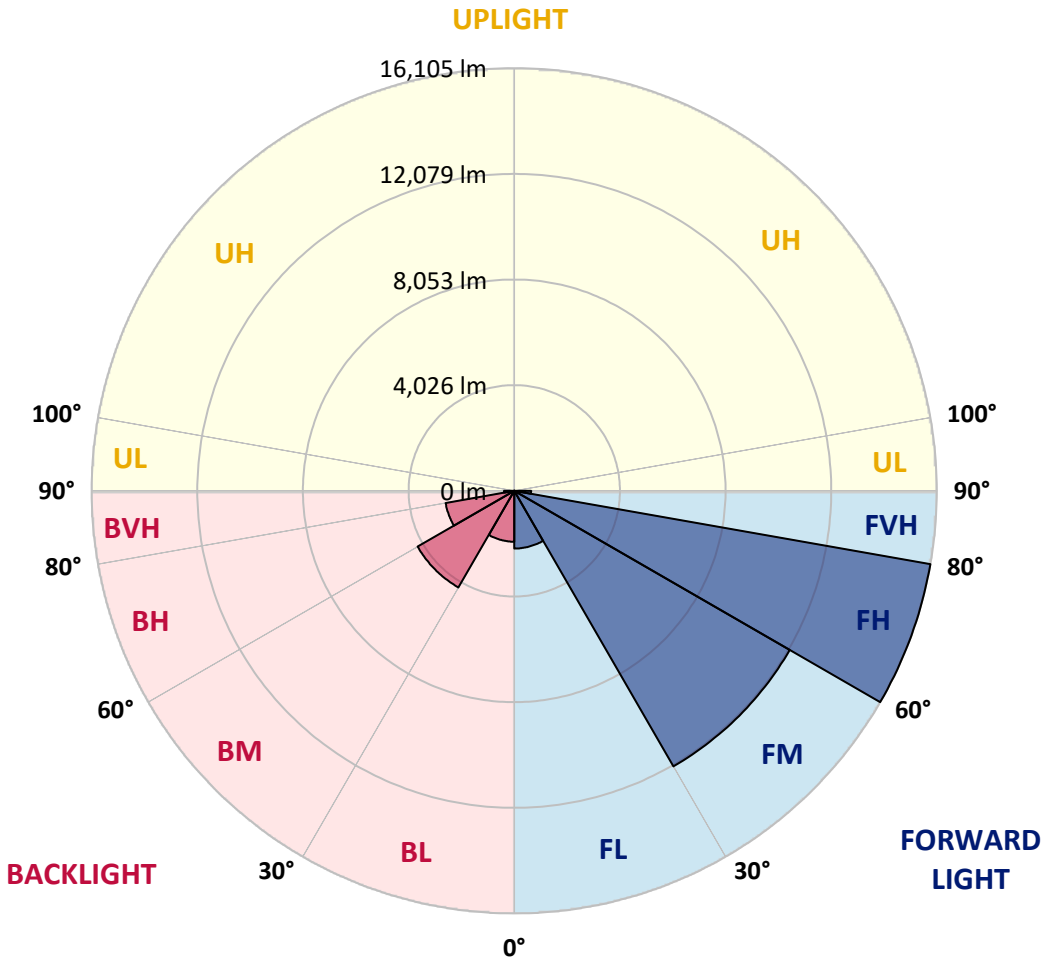
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2199.7	5.5			
FM	(30°-60°)	12124.7	30.1			
FH	(60°-80°)	16105.2	39.9			G5
FVH	(80°-90°)	644.6	1.6			G4/750
BL	(0°-30°)	1939.9	4.8	B3/2500		
BM	(30°-60°)	4253.4	10.6	B3/5000		
BH	(60°-80°)	2656.4	6.6	B4/5000		G4/5000
BVH	(80°-90°)	390.2	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: P319203
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2	*4107.2*	4107.2	4107.2	4107.2	4107.2
2.5°	4312.8	4315.5	4321.1	4307.3	4268.6	4257.6	*4253.5*	4213.4	4187.2	4148.6	4115.5
5°	4657.7	4660.4	4652.2	4613.5	4528.0	4464.5	*4459.0*	4368.0	4285.2	4196.9	4130.7
7.5°	5017.8	5021.9	4995.7	4922.6	4802.5	4692.2	*4685.3*	4561.1	4435.6	4301.7	4202.4
10°	5336.5	5319.9	5277.1	5175.1	5033.0	4897.7	*4892.2*	4762.5	4617.7	4456.3	4323.8
12.5°	5548.9	5535.1	5480.0	5355.8	5199.9	5075.7	*5064.7*	4944.7	4803.9	4627.3	4468.7
15°	5666.2	5675.9	5601.4	5460.6	5308.9	5204.0	*5194.4*	5108.8	4983.3	4805.3	4623.2
17.5°	5681.4	5689.7	5617.9	5478.6	5354.4	5282.7	*5278.5*	5222.0	5130.9	4959.8	4769.4
20°	5593.1	5598.6	5539.3	5424.8	5343.4	5321.3	*5319.9*	5295.1	5227.5	5075.7	4890.8
22.5°	5464.8	5468.9	5426.1	5343.4	5315.8	5350.3	*5359.9*	5350.3	5302.0	5159.9	4986.0
25°	5433.0	5430.3	5386.1	5302.0	5325.4	5398.6	*5411.0*	5415.1	5382.0	5257.8	5107.5
27.5°	5586.2	5576.5	5492.4	5357.2	5372.3	5460.6	*5477.2*	5517.2	5496.5	5387.5	5245.4
30°	6029.1	6012.5	5840.0	5566.9	5492.4	5537.9	*5558.6*	5622.1	5626.2	5535.1	5428.9
32.5°	6776.8	6756.1	6447.1	5958.7	5695.2	5616.5	*5635.9*	5731.1	5782.1	5711.7	5597.2
35°	7721.9	7698.4	7292.8	6625.1	6034.6	5766.9	*5780.7*	5856.6	5958.7	5859.4	5707.6
37.5°	8706.9	8650.4	8259.9	7408.7	6574.0	6088.4	*6088.4*	6098.0	6146.3	5939.4	5837.3
40°	9686.5	9629.9	9276.7	8330.3	7272.1	6594.7	*6563.0*	6349.1	6310.5	6132.5	6098.0
42.5°	10597.1	10580.5	10372.2	9371.9	8091.6	7092.8	*7048.6*	6685.8	6694.0	6583.7	6585.1
45°	11565.6	11565.6	11395.9	10423.2	9046.3	7893.0	*7848.8*	7314.9	7397.7	7346.6	7469.4
47.5°	12356.1	12380.9	12357.5	11518.7	10157.0	8909.8	*8829.7*	8186.8	8418.6	8593.8	8951.1
50°	13163.2	13201.8	13206.0	12720.3	11499.4	10118.3	*10027.3*	9344.3	9861.7	10363.9	11066.1
52.5°	14334.5	14421.4	14075.2	13919.3	13143.9	11553.2	*11463.5*	10833.0	11696.6	12401.6	13611.6
55°	15420.3	15344.4	15097.5	15194.0	14904.3	13186.7	*13119.1*	12565.8	13741.3	14657.4	16228.8
57.5°	16008.0	16002.5	16250.9	16664.7	16802.7	15200.9	*15144.4*	14606.3	16046.7	16735.1	18685.9
60°	16697.9	16707.5	17322.8	18262.4	18830.8	17709.1	*17684.3*	17275.9	18285.8	18674.9	20613.3
62.5°	16794.4	16968.3	18027.8	19644.8	20729.2	20639.5	*20694.7*	19680.7	20289.1	20222.9	22052.3
65°	15683.8	15912.8	17830.6	20062.8	22616.5	23844.4	*23895.5*	22099.2	21868.8	21545.9	22566.9
67.5°	13407.4	13746.8	15830.1	19153.6	23238.8	26213.3	*26285.0*	23974.1	23179.4	21994.3	21328.0
70°	*9756.9*	*10133.5*	*12230.6*	*16358.5*	*22129.5*	*26970.7*	*27052.1*	*24803.3*	*23229.1*	*20718.2*	*18207.2*
72.5°	5893.8	6189.1	7917.8	12042.9	18677.7	25591.1	*25735.9*	23752.0	21207.9	17549.1	13444.7
75°	2588.2	2781.4	3828.5	6939.6	13371.5	21173.4	*21354.2*	20330.5	17231.8	12753.5	7946.8
77.5°	1102.3	1157.5	1570.0	3014.5	7559.1	14468.4	*14716.7*	14854.7	11691.1	6939.6	3358.1
80°	687.1	709.1	888.5	1364.5	3537.4	8126.1	*8393.8*	8740.1	5805.6	2551.0	1172.7
82.5°	418.0	442.9	590.5	825.0	1841.8	3683.7	*3812.0*	4056.2	2253.0	1102.3	607.0
85°	251.1	269.0	361.5	521.5	1048.5	1448.6	*1447.2*	1600.4	1060.9	709.1	320.1
87.5°	120.0	133.8	193.2	270.4	528.4	543.6	*509.1*	576.7	644.3	464.9	161.4
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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REPORT NUMBER: P319203
CATALOG NUMBER: GLEON-SA9B-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2	4107.2
2.5°	4104.4	4098.9	4081.0	4067.2	4064.4	4056.2	4049.3	4053.4	4058.9	4060.3	4060.3
5°	4103.1	4087.9	4064.4	4054.8	4067.2	4083.8	4104.4	4132.0	4148.6	4161.0	4169.3
7.5°	4169.3	4140.3	4114.1	4108.6	4133.4	4177.6	4224.5	4282.4	4322.4	4350.0	4355.5
10°	4279.7	4243.8	4217.6	4223.1	4267.2	4330.7	4396.9	4471.4	4532.1	4569.4	4572.1
12.5°	4406.6	4372.1	4347.3	4370.7	4443.8	4521.1	4590.1	4654.9	4710.1	4747.4	4747.4
15°	4552.8	4528.0	4499.0	4552.8	4652.2	4721.2	4750.1	4781.9	4812.2	4839.8	4834.3
17.5°	4693.6	4670.1	4654.9	4718.4	4821.9	4853.6	4834.3	4810.8	4810.8	4826.0	4828.8
20°	4815.0	4794.3	4803.9	4866.0	4919.8	4886.7	4815.0	4740.5	4710.1	4718.4	4726.7
22.5°	4921.2	4911.5	4940.5	4969.5	4930.9	4815.0	4682.5	4581.8	4544.6	4541.8	4544.6
25°	5045.4	5044.0	5079.9	5027.4	4856.4	4642.5	4464.5	4366.6	4345.9	4362.4	4390.0
27.5°	5199.9	5215.1	5233.0	5041.2	4704.6	4381.8	4201.0	4133.4	4154.1	4194.1	4220.3
30°	5397.2	5438.6	5399.9	5006.7	4486.6	4083.8	3911.3	3892.0	3948.5	4005.1	4032.7
32.5°	5588.9	5653.8	5560.0	4917.1	4205.2	3767.8	3634.0	3628.5	3697.5	3752.6	3791.3
35°	5743.5	5871.8	5680.0	4739.1	3879.6	3476.7	3378.8	3341.5	3366.3	3431.2	3475.3
37.5°	5944.9	6158.7	5762.8	4467.3	3526.4	3236.7	3122.1	3036.6	3014.5	3040.7	3062.8
40°	6313.3	6596.1	5801.4	4087.9	3181.5	2996.6	2880.7	2755.2	2668.2	2604.8	2606.2
42.5°	6914.8	7165.9	5776.6	3627.1	2862.8	2762.1	2631.0	2486.1	2345.4	2201.9	2190.9
45°	7891.6	8013.0	5702.1	3138.7	2582.7	2516.5	2393.7	2248.8	2061.2	1898.4	1883.2
47.5°	9454.7	9185.7	5586.2	2712.4	2335.7	2308.1	2195.0	2028.1	1829.4	1698.3	1687.3
50°	11586.3	10878.5	5529.6	2373.0	2117.8	2126.0	2033.6	1857.0	1669.4	1572.8	1561.8
52.5°	14135.9	12850.0	5638.6	2110.9	1942.5	1971.5	1902.5	1737.0	1579.7	1503.8	1492.8
55°	16780.6	14891.9	5755.9	1920.5	1777.0	1833.6	1810.1	1673.5	1531.4	1461.0	1451.4
57.5°	19044.6	16416.4	5521.3	1765.9	1629.4	1717.7	1738.4	1633.5	1506.6	1443.1	1432.1
60°	20469.8	17030.4	4906.0	1621.1	1512.1	1625.2	1697.0	1622.5	1516.2	1510.7	1502.4
62.5°	21145.8	16976.5	3983.0	1506.6	1439.0	1585.2	1727.3	1684.5	1626.6	1676.3	1680.4
65°	20842.3	16165.3	2966.2	1430.7	1386.5	1600.4	1818.4	1801.8	1658.3	1708.0	1714.9
67.5°	18844.6	14229.7	2196.4	1364.5	1328.6	1643.2	1983.9	1840.4	1596.3	1632.1	1610.0
70°	*15231.3*	*11281.4*	*1694.2*	*1290.0*	*1269.3*	*1637.6*	*2058.4*	*1817.0*	*1528.6*	*1536.9*	*1477.6*
72.5°	10503.2	7692.9	1378.3	1221.0	1183.7	1492.8	2006.0	1759.0	1472.1	1408.6	1330.0
75°	5711.7	4129.3	1171.3	1149.2	1033.4	1310.7	1909.4	1717.7	1421.0	1336.9	1292.7
77.5°	2247.4	1713.5	1016.8	1051.3	903.7	1157.5	1801.8	1639.0	1350.7	1240.3	1218.2
80°	917.5	874.7	843.0	909.2	776.7	1012.7	1672.1	1546.6	1266.5	1150.6	1106.5
82.5°	520.1	543.6	655.3	717.4	630.5	932.6	1610.0	1472.1	1165.8	1030.6	978.2
85°	266.3	318.7	456.7	514.6	463.6	793.3	1483.1	1288.6	935.4	789.2	793.3
87.5°	128.3	178.0	288.3	322.8	300.8	573.9	1107.9	934.0	728.5	576.7	558.8
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

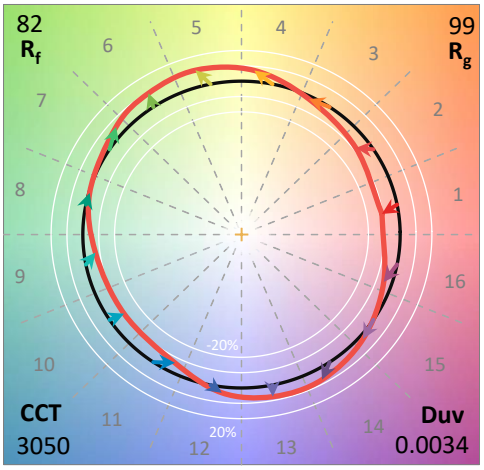
Test Information

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

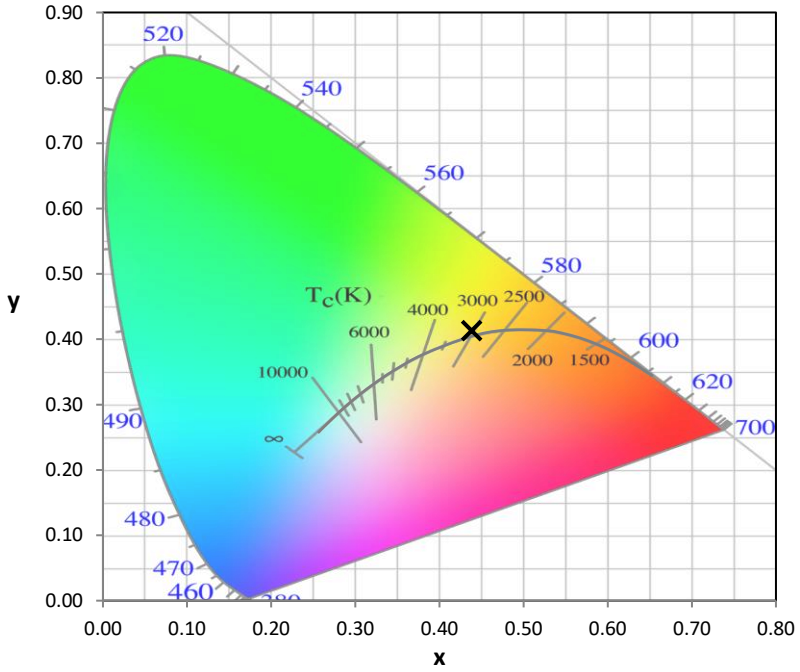
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

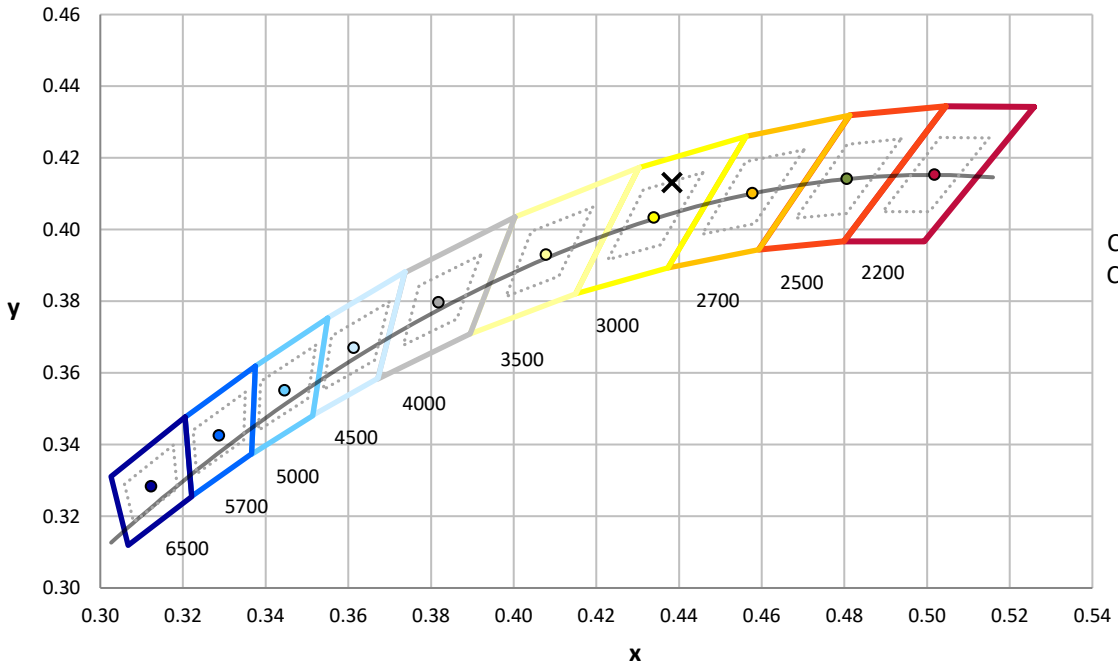
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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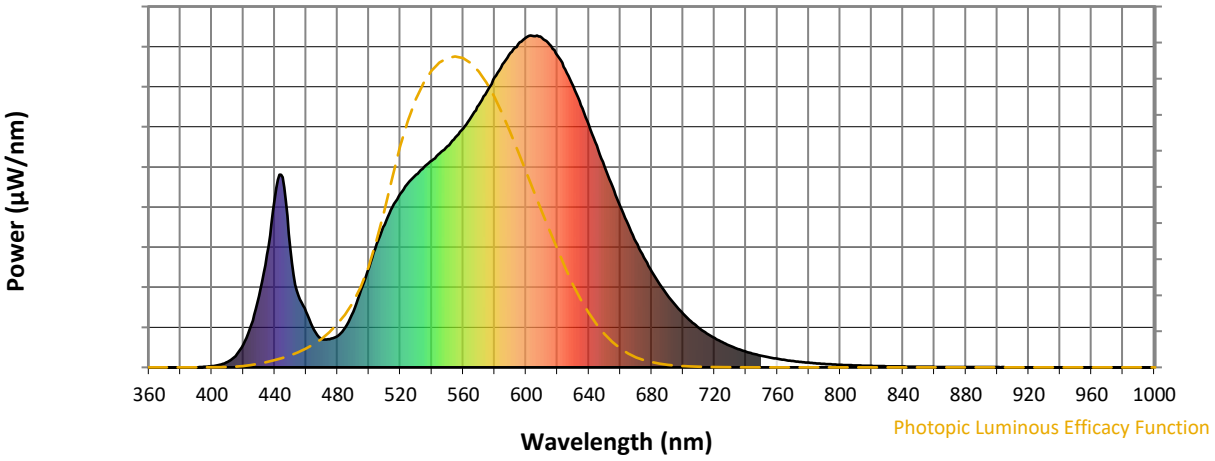
Photopic Flux vs. Wavelength



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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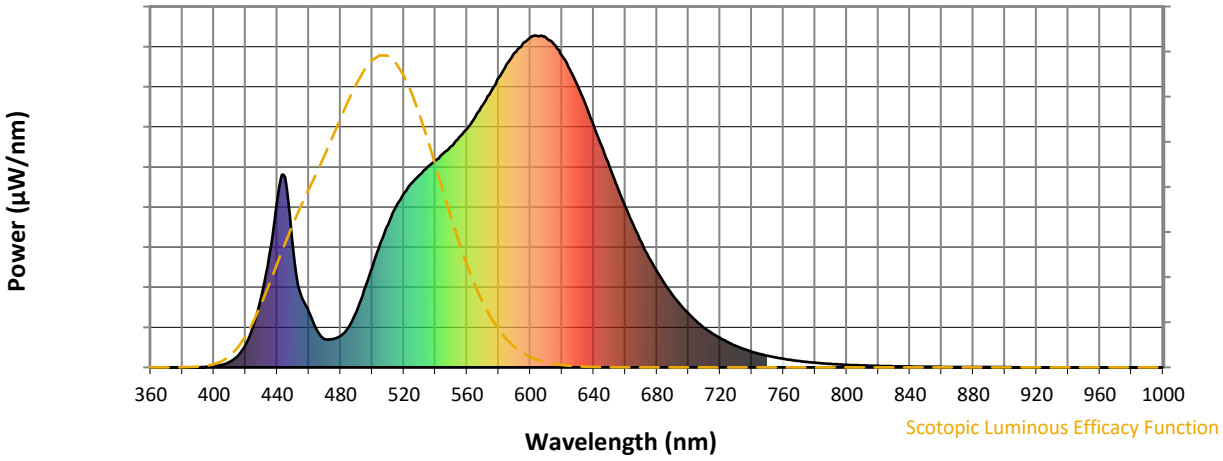
Scotopic Flux vs. Wavelength



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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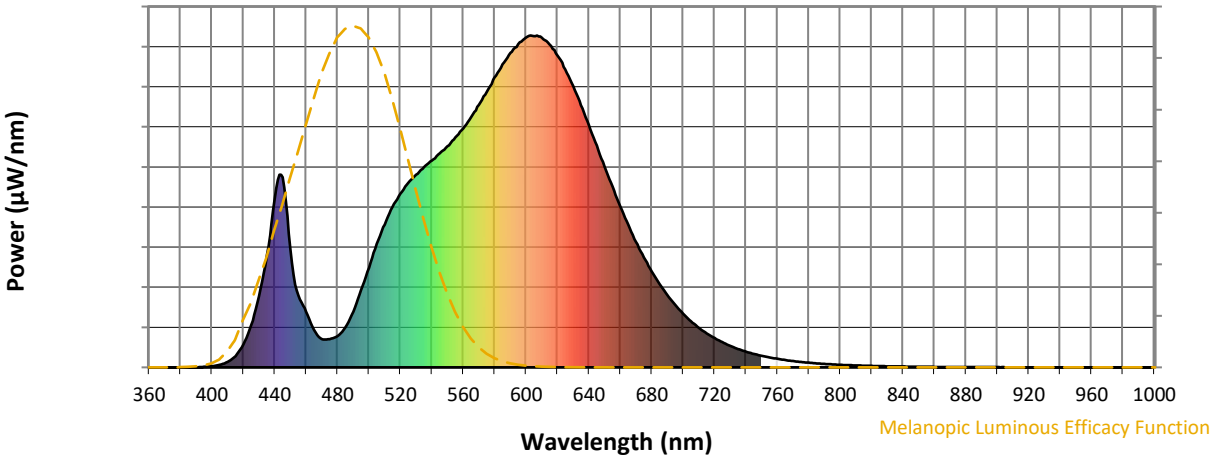
Melanopic Flux vs. Wavelength



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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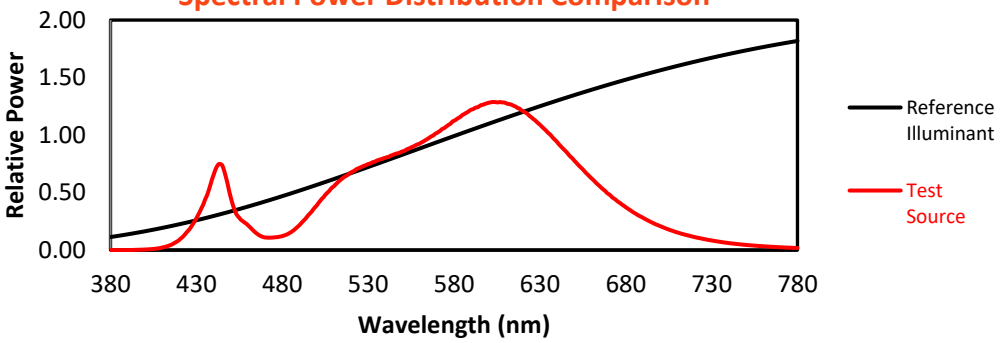
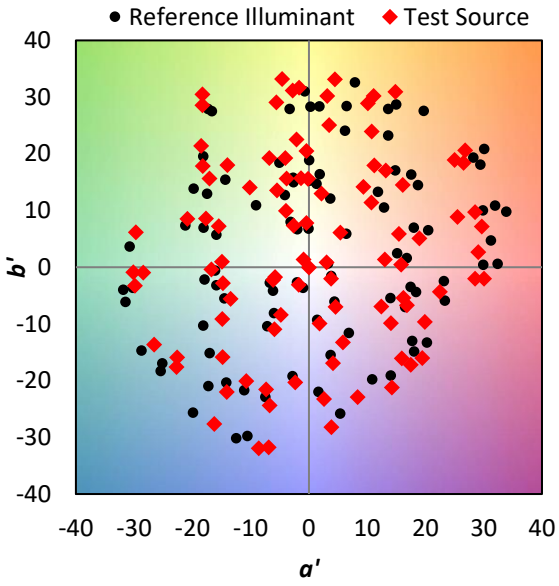
Summary

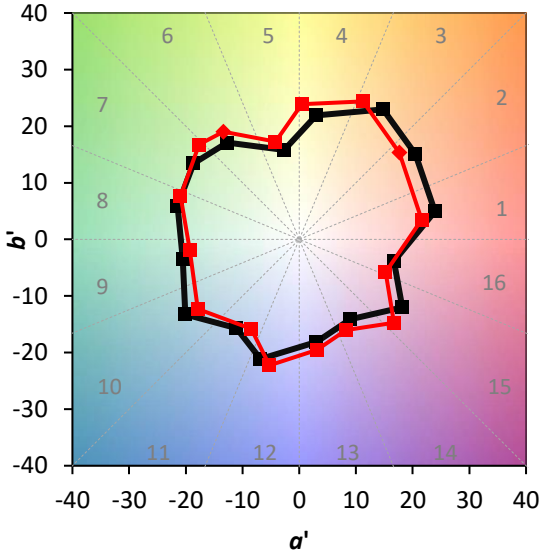
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

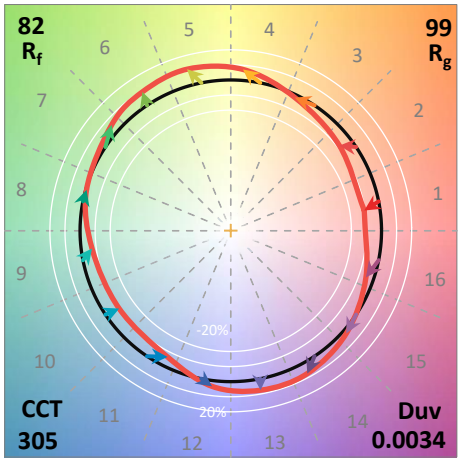
Spectral Power Distribution Comparison

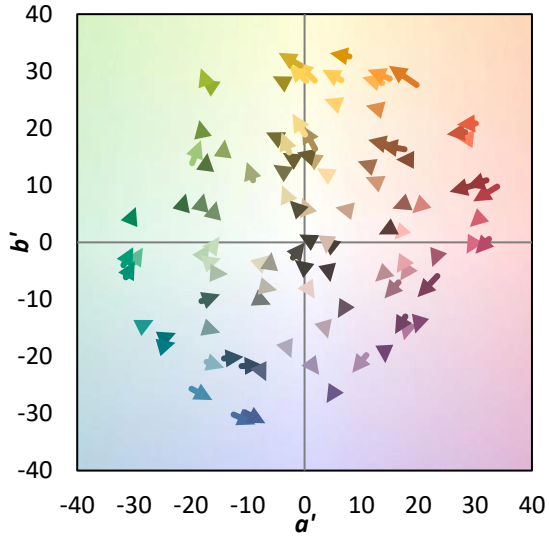


Color Vector Graphics









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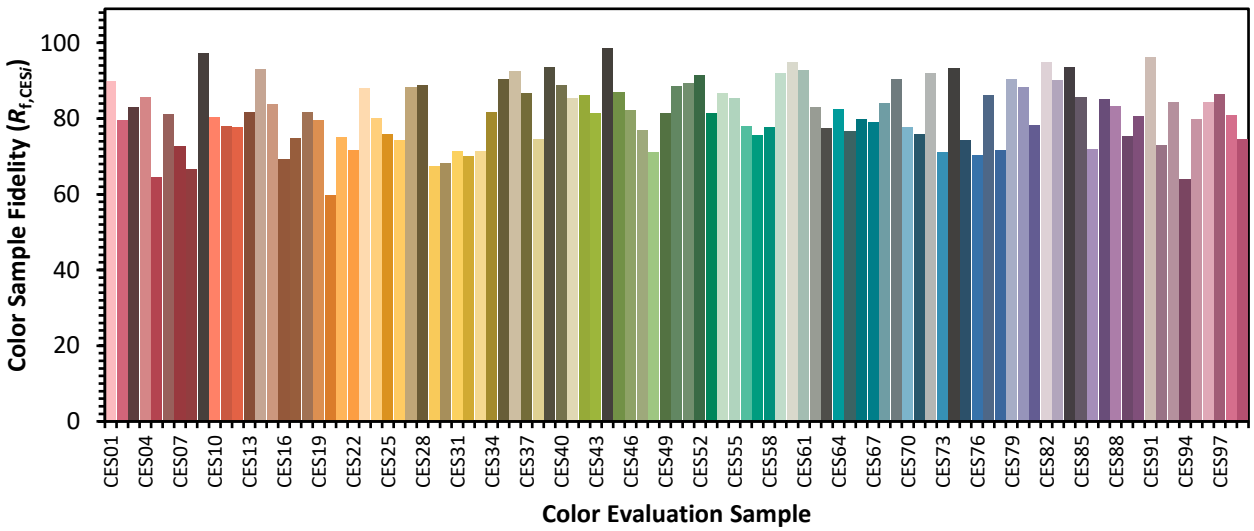
Individual Sample Fidelity Index ($R_{f,i}$)

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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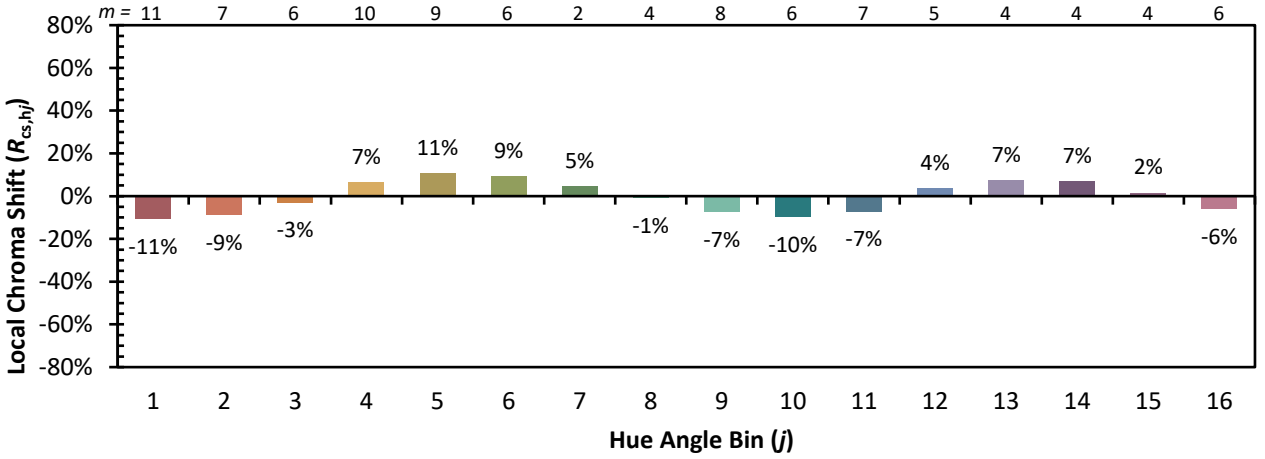
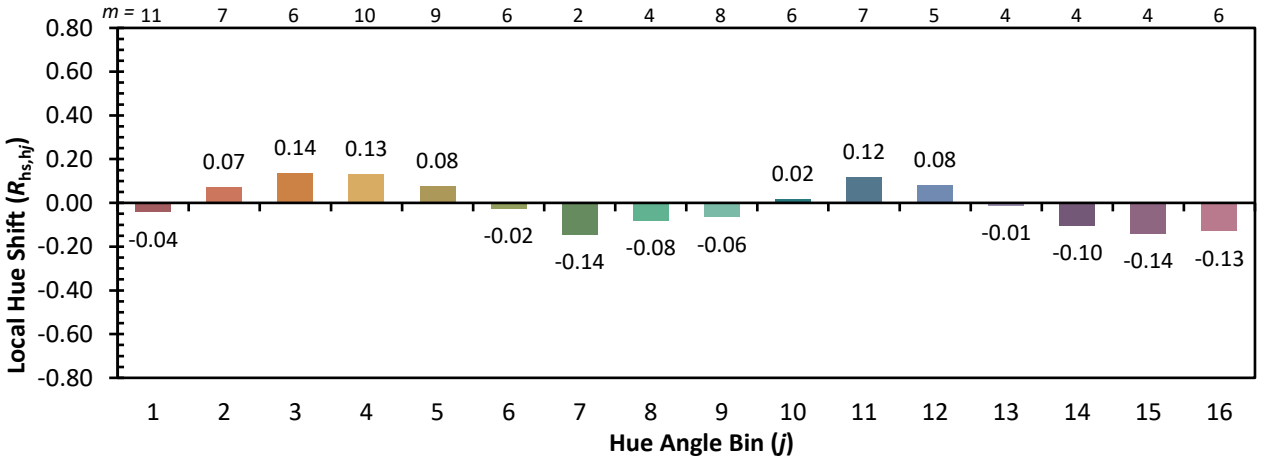
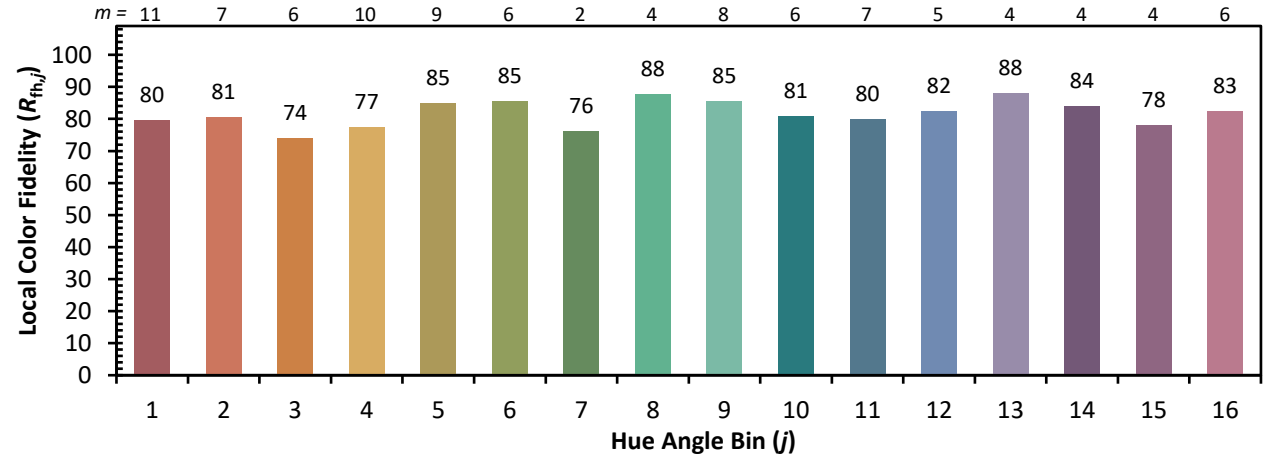
Color Rendition by Hue-Angle Bin







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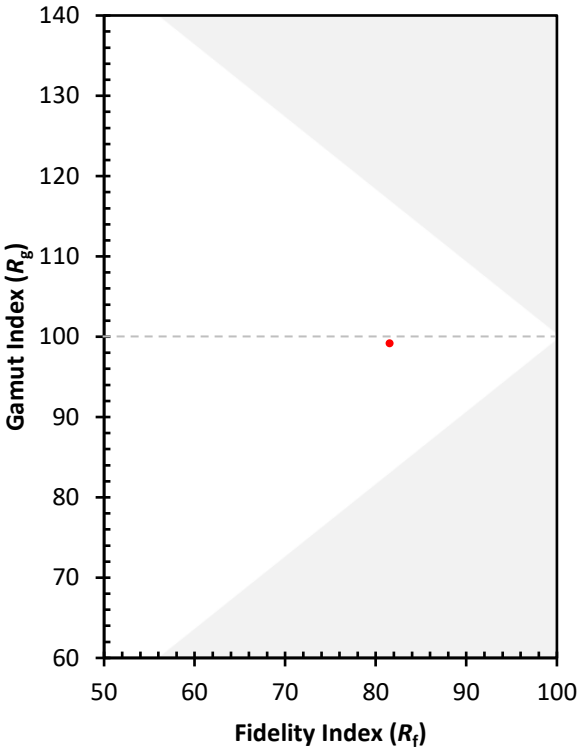
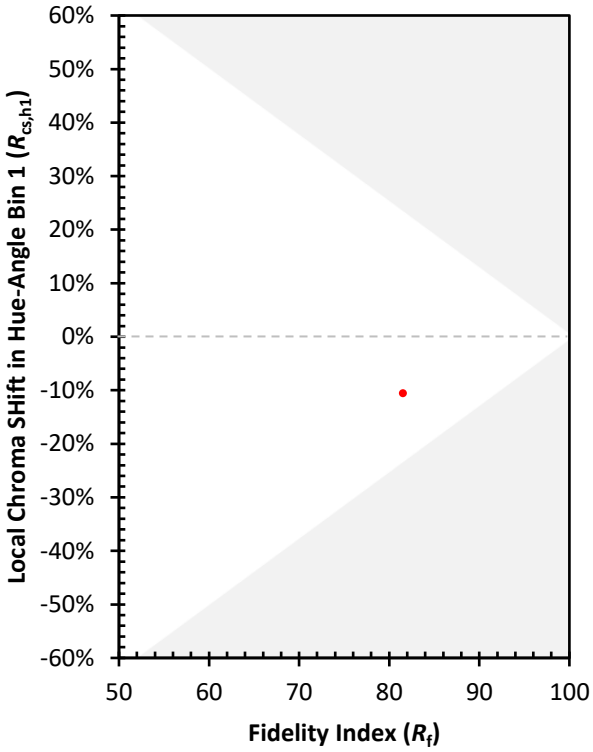
Measure Comparisons





(END OF REPORT)