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: P318244

Luminaire Tested: **GLEON-SA0B-830-U-T2**

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:	P318244
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
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-T2
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	44109 lumens
Efficiency:	N/A
Efficacy:	105.3 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B3 - 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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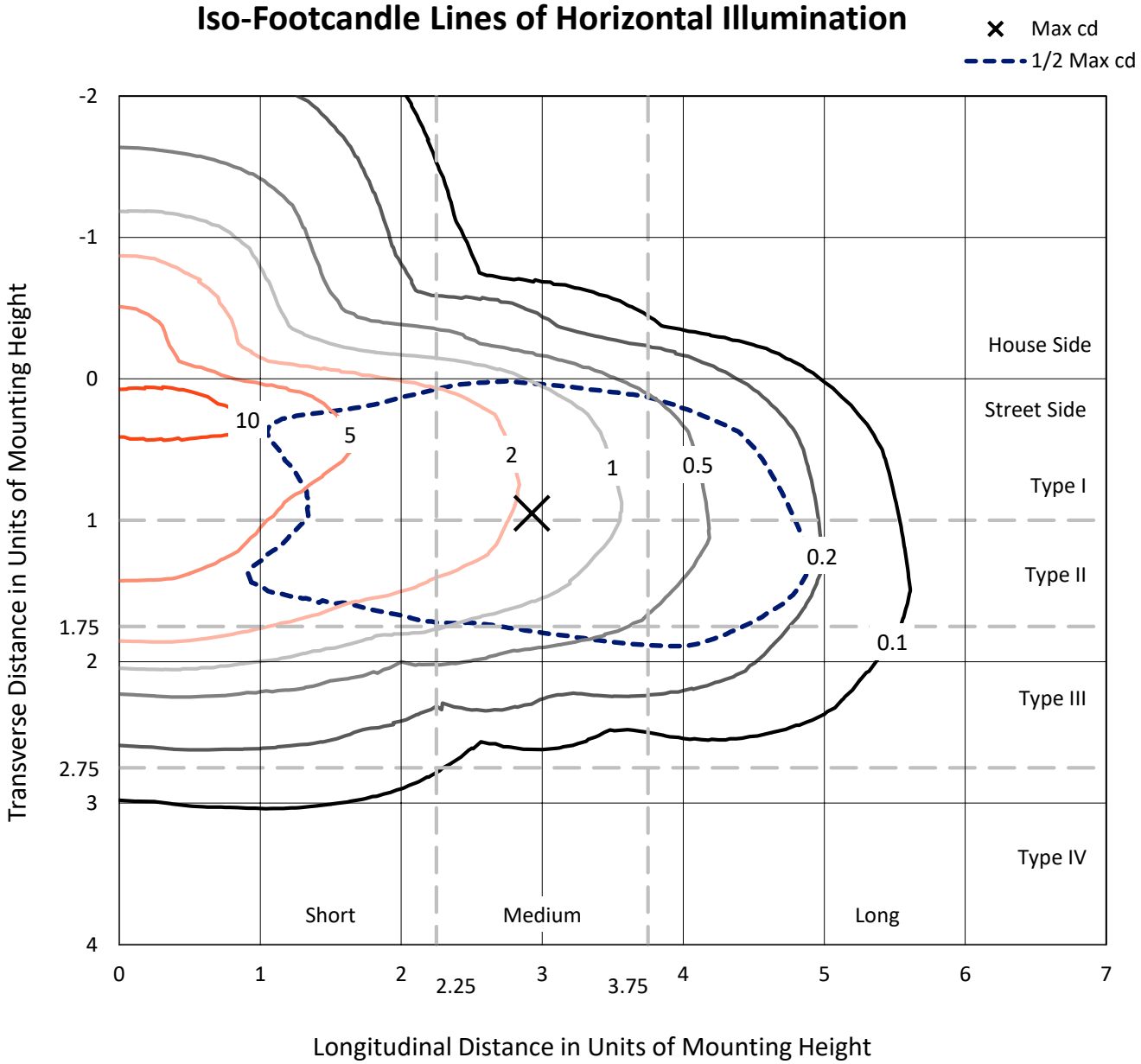
Scaled Data Report

REPORT NUMBER: P318244
CATALOG NUMBER: GLEON-SA0B-830-U-T2

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 12 fc
Type III - Medium - N/A

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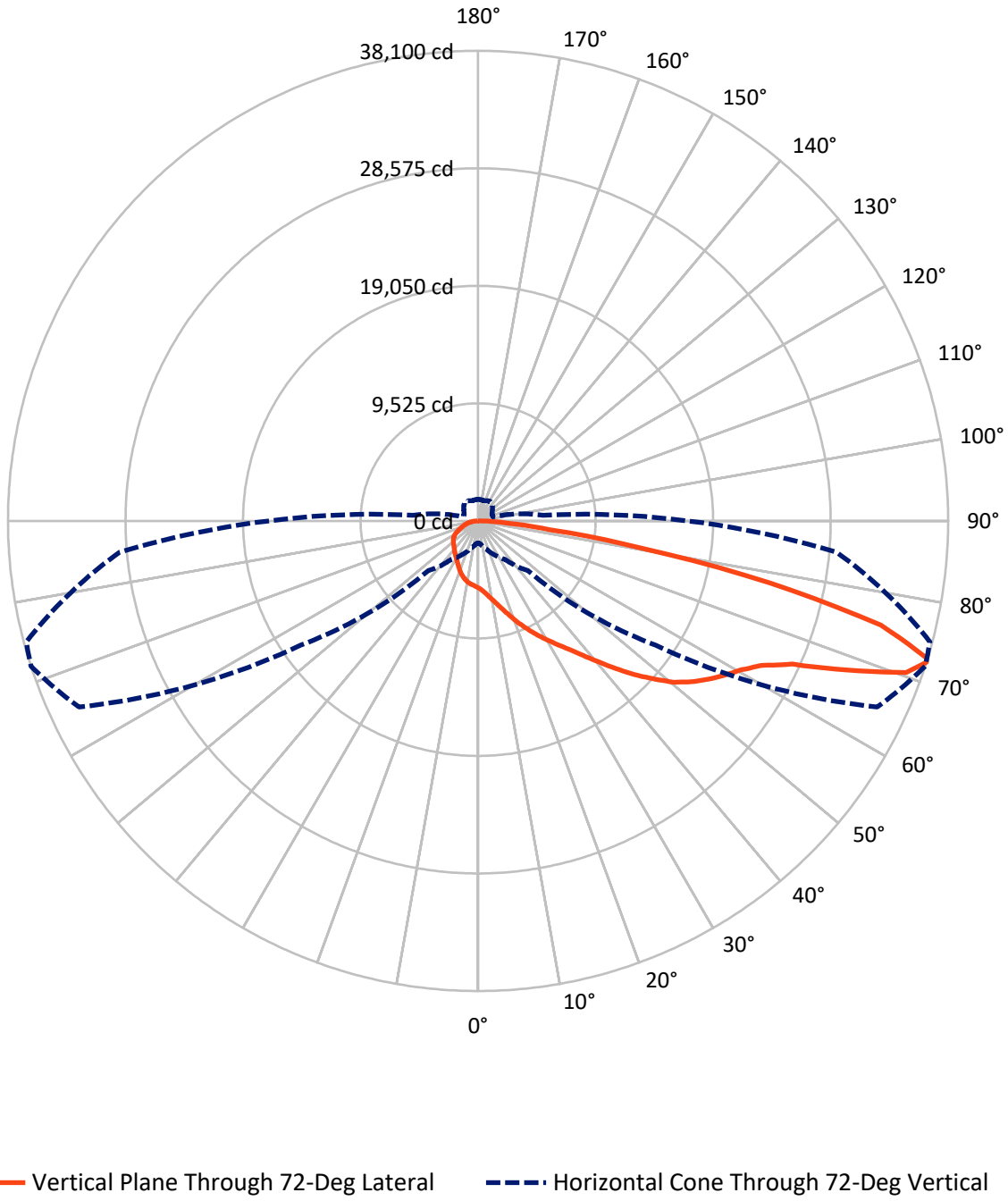
Luminous Intensity Polar Plot



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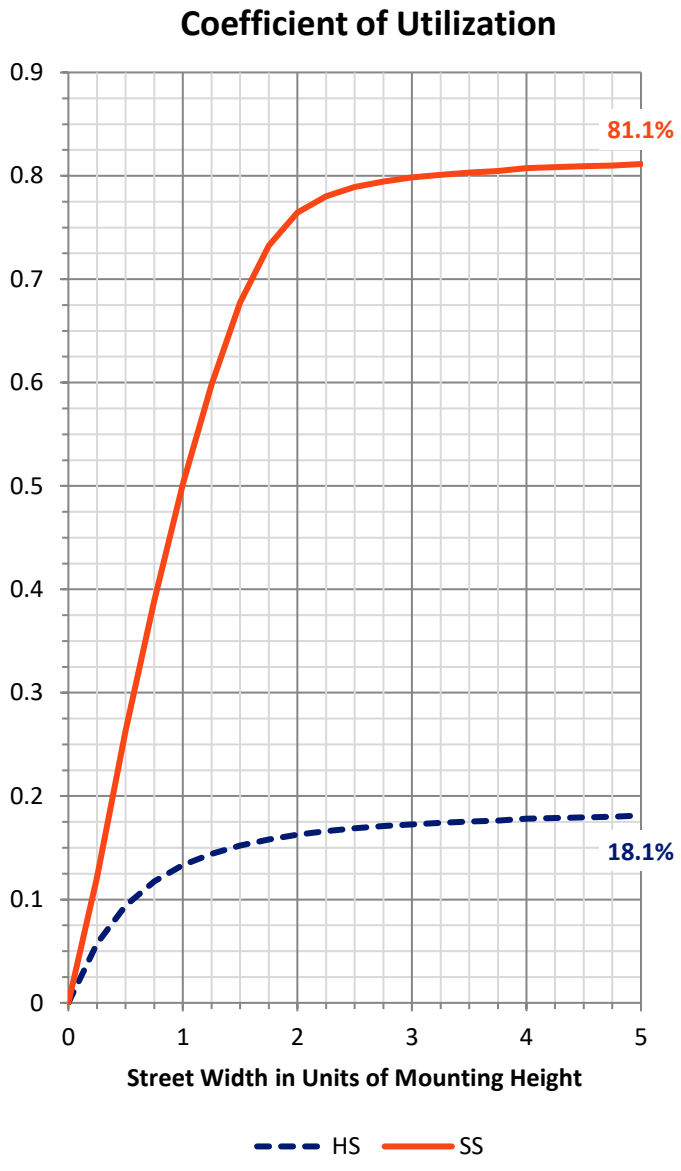
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8182.5	0.0	8182.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	35926.5	0.0	35926.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	44109.0	0.0	44109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.8	1.2
10°-20°	1757.2	4.0
20°-30°	3079.1	7.0
30°-40°	4565.3	10.4
40°-50°	6677.2	15.1
50°-60°	9187.7	20.8
60°-70°	10228.7	23.2
70°-80°	6930.9	15.7
80°-90°	1139.2	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°	44109.0	100.0
0°-180°	44109.0	100.0



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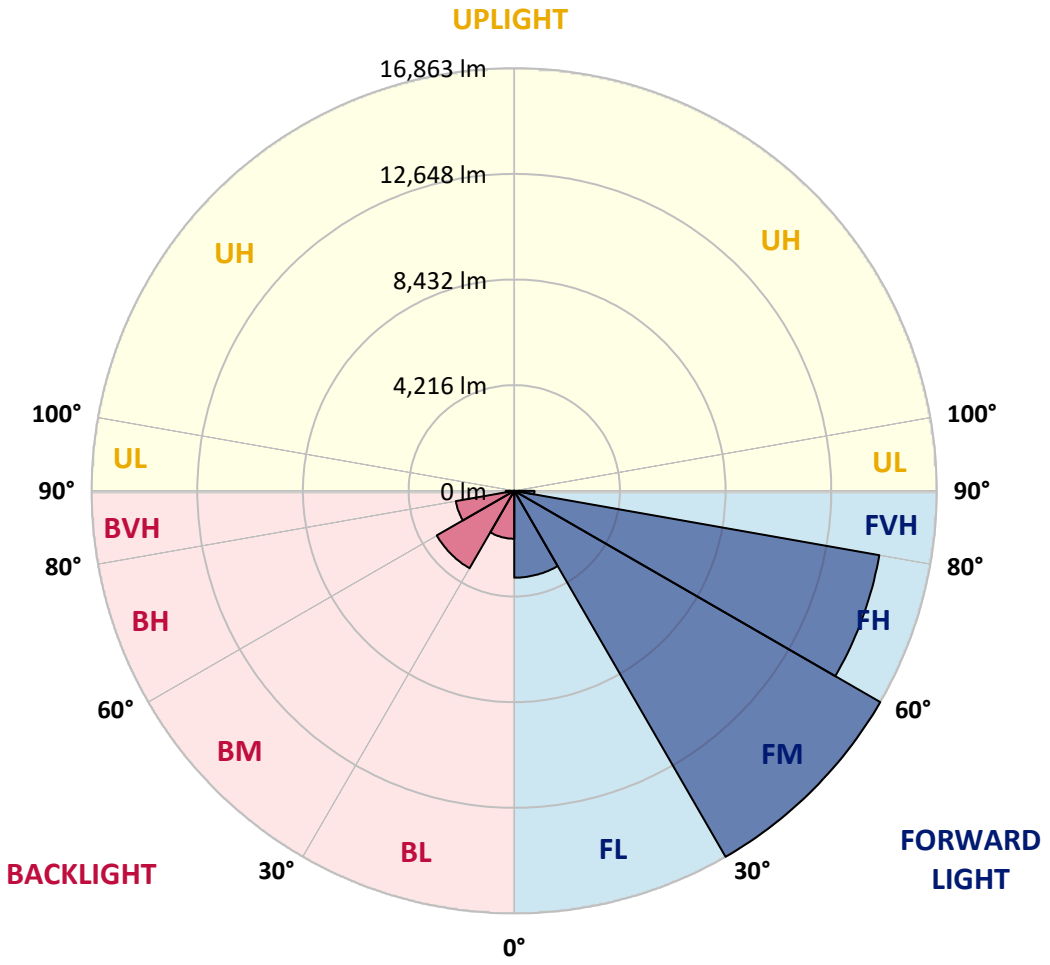
CATALOG NUMBER: GLEON-SA0B-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3467.2	7.9			
FM	(30°-60°)	16863.4	38.2			
FH	(60°-80°)	14792.3	33.5			G5
FVH	(80°-90°)	803.5	1.8			G5
BL	(0°-30°)	1912.8	4.3	B3/2500		
BM	(30°-60°)	3566.8	8.1	B3/5000		
BH	(60°-80°)	2367.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	335.6	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5426.6	5426.6	5426.6	5426.6	5426.6	5426.6	5426.6	5426.6	5426.6	5426.6	5426.6
2.5°	5994.6	5985.5	5953.6	5953.6	5892.8	5841.2	5744.0	5678.7	5601.2	5573.9	5482.8
5°	6574.7	6577.8	6538.3	6511.0	6421.4	6312.0	6146.5	5996.1	5845.7	5785.0	5598.2
7.5°	7062.3	7056.2	7045.6	7022.8	6939.3	6826.9	6603.6	6380.3	6158.6	6067.5	5745.5
10°	7375.1	7388.8	7397.9	7408.5	7373.6	7293.1	7082.0	6810.2	6520.1	6395.5	5921.7
12.5°	7533.1	7557.4	7599.9	7672.8	7730.5	7721.4	7568.0	7279.5	6934.7	6778.3	6141.9
15°	7625.7	7657.6	7724.5	7855.1	8017.6	8110.2	8069.2	7808.0	7423.7	7230.9	6410.7
17.5°	7683.4	7709.3	7812.5	7987.2	8228.7	8474.7	8582.6	8363.9	7976.6	7756.3	6719.0
20°	7722.9	7742.7	7871.8	8076.8	8389.7	8781.5	9082.2	9027.6	8585.6	8300.1	7041.0
22.5°	7811.0	7827.7	7950.8	8157.3	8503.6	9009.3	9563.7	9645.7	9228.0	8904.5	7385.8
25°	8057.1	8057.1	8160.3	8304.6	8629.6	9206.8	9970.7	10333.7	9884.1	9507.5	7704.7
27.5°	8526.4	8521.8	8559.8	8609.9	8855.9	9407.2	10333.7	10941.2	10564.5	10153.0	8014.5
30°	9082.2	9112.6	9117.2	9092.9	9208.3	9657.8	10669.3	11582.1	11249.5	10806.0	8332.0
32.5°	9797.6	9817.3	9794.5	9714.0	9697.3	10013.2	10998.9	12253.4	11990.7	11488.0	8622.0
35°	10705.8	10667.8	10596.4	10432.4	10276.0	10488.6	11375.6	12924.7	12823.0	12312.7	9021.5
37.5°	11679.3	11680.8	11592.8	11220.7	11005.0	11096.1	11895.0	13685.6	13829.9	13293.8	9533.3
40°	12460.0	12501.0	12555.7	12066.6	11787.2	11913.2	12555.7	14568.0	15020.6	14457.2	10200.0
42.5°	13005.2	13052.3	13207.2	12900.4	12610.3	12844.2	13333.3	15509.7	16357.1	15799.7	10980.7
45°	13582.3	13608.2	13717.5	13585.4	13400.1	13927.1	14209.6	16484.7	17771.1	17230.4	11854.0
47.5°	14189.8	14217.2	14329.6	14241.5	14144.3	14938.6	15123.9	17403.6	19125.8	18802.3	12786.5
50°	14940.1	14958.3	15064.7	14905.2	14935.6	15701.0	15941.0	18246.5	20545.9	20214.8	13722.1
52.5°	15963.8	15968.3	16115.6	15971.4	15828.6	16259.9	16644.2	19040.8	21659.1	21502.7	14657.6
55°	16765.7	16814.3	17297.2	17266.9	17184.9	16767.2	17231.9	19797.1	22652.4	22726.8	15650.9
57.5°	16253.9	16443.7	17421.8	18111.3	18782.6	18029.3	18026.3	20649.2	23575.8	23928.2	16742.9
60°	14235.4	14493.6	15934.9	17464.3	19564.8	20225.4	19675.6	21689.5	24508.4	25118.9	18111.3
62.5°	10166.6	10591.9	12545.0	14987.2	18492.5	21680.4	23032.1	23340.4	25776.5	26497.9	19889.8
65°	5139.5	5461.5	7098.7	10040.6	14774.6	20729.7	26680.2	26955.1	27980.3	28621.2	22628.1
67.5°	3122.6	3244.1	4043.0	5584.5	9057.9	16147.5	27870.9	32980.0	32245.0	32585.2	26532.9
70°	2300.9	2390.5	2888.7	3708.8	5209.4	9475.6	24216.8	37279.7	36796.7	36758.7	29418.5
72°	1792.1	1857.5	2297.9	2996.5	3809.1	5684.7	17552.4	35692.6	38099.8	37908.4	29154.3
72.5°	1699.5	1757.2	2158.2	2820.4	3599.5	5153.2	15781.5	34621.8	38005.6	37919.1	28812.5
75°	1338.0	1379.0	1597.7	2181.0	2817.3	2923.6	8647.9	26830.6	33715.1	35117.0	25914.7
77.5°	1107.2	1113.3	1228.7	1587.1	2196.1	2067.0	4248.0	18615.5	24142.3	25683.9	18357.3
80°	902.1	909.7	964.4	1113.3	1661.5	1529.4	2016.9	10704.3	13517.0	13533.7	8729.9
82.5°	718.4	719.9	780.6	814.1	1193.8	1093.5	1155.8	5025.6	5906.5	5681.7	3137.8
85°	505.7	495.1	762.4	668.3	780.6	701.7	637.9	1989.6	2442.2	2335.9	982.6
87.5°	168.6	174.7	338.7	432.8	455.6	397.9	284.0	762.4	921.9	914.3	311.3
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: P318244
CATALOG NUMBER: GLEON-SA0B-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5426.6	5426.6	5426.6	5426.6	5426.6	5426.6	5426.6	5426.6	5426.6	5426.6	5426.6
2.5°	5453.9	5405.3	5333.9	5254.9	5192.7	5128.9	5081.8	5057.5	5030.2	5007.4	5034.7
5°	5511.6	5420.5	5268.6	5119.8	5010.4	4913.2	4843.4	4806.9	4773.5	4750.7	4753.7
7.5°	5605.8	5458.5	5203.3	4986.1	4834.2	4729.4	4658.1	4633.8	4612.5	4606.4	4614.0
10°	5706.0	5488.8	5116.7	4828.2	4655.0	4568.5	4536.6	4553.3	4568.5	4582.1	4597.3
12.5°	5819.9	5516.2	4990.7	4642.9	4495.6	4462.1	4494.0	4566.9	4620.1	4652.0	4671.7
15°	5968.8	5540.5	4844.9	4457.6	4358.9	4396.8	4504.7	4630.7	4723.4	4782.6	4791.7
17.5°	6105.4	5538.9	4658.1	4270.8	4248.0	4358.9	4521.4	4699.1	4823.6	4907.1	4923.8
20°	6246.7	5497.9	4440.9	4088.5	4135.6	4317.9	4529.0	4743.1	4893.5	4990.7	5013.5
22.5°	6378.8	5426.6	4202.4	3923.0	4041.4	4263.2	4500.1	4717.3	4867.7	4946.6	4970.9
25°	6468.4	5302.0	3960.9	3783.3	3957.9	4196.4	4405.9	4580.6	4693.0	4732.5	4738.6
27.5°	6514.0	5139.5	3733.1	3661.7	3871.3	4087.0	4231.3	4317.9	4349.8	4346.7	4340.6
30°	6520.1	4925.4	3537.2	3563.0	3771.1	3926.0	3994.4	3977.7	3936.6	3866.8	3872.9
32.5°	6500.3	4683.9	3373.2	3468.9	3643.5	3730.1	3733.1	3652.6	3543.3	3432.4	3402.0
35°	6506.4	4447.0	3228.9	3362.6	3488.6	3526.6	3491.6	3373.2	3224.3	3081.6	3051.2
37.5°	6573.2	4240.4	3104.4	3239.5	3317.0	3326.1	3276.0	3151.4	3042.1	2902.4	2890.2
40°	6732.7	4093.1	2985.9	3101.3	3145.4	3149.9	3078.5	2990.5	2999.6	2925.1	2923.6
42.5°	7019.7	4029.3	2881.1	2957.0	2984.4	2993.5	2938.8	2882.6	2961.6	2913.0	2896.3
45°	7390.3	4044.5	2793.0	2815.8	2865.9	2908.4	2875.0	2806.7	2837.1	2625.9	2556.1
47.5°	7818.6	4141.7	2723.2	2694.3	2780.9	2861.4	2809.7	2706.4	2598.6	2389.0	2349.5
50°	8319.8	4292.0	2659.4	2574.3	2688.2	2797.6	2745.9	2598.6	2436.1	2334.3	2320.7
52.5°	8842.3	4475.8	2595.6	2442.2	2571.3	2749.0	2723.2	2574.3	2373.8	2273.6	2255.4
55°	9434.6	4661.1	2515.1	2288.8	2445.2	2726.2	2712.5	2486.2	2326.8	2270.6	2256.9
57.5°	10171.2	4872.2	2408.8	2129.3	2326.8	2644.2	2601.6	2433.1	2278.2	2235.6	2231.1
60°	11131.1	5183.6	2255.4	1959.2	2182.5	2518.1	2509.0	2355.6	2200.7	2170.3	2164.2
62.5°	12570.8	5698.4	2044.3	1789.1	2021.5	2304.0	2387.5	2250.8	2118.7	2117.2	2120.2
65°	14803.4	6473.0	1814.9	1640.3	1859.0	2123.2	2246.3	2143.0	2035.1	2065.5	2070.1
67.5°	17391.4	7115.4	1590.2	1494.5	1693.4	1951.6	2118.7	2035.1	1924.3	2003.3	2004.8
70°	18252.6	6541.3	1392.7	1350.2	1521.8	1786.1	1980.5	1916.7	1804.3	1883.3	1875.7
72°	*16985.9*	*5280.8*	*1265.1*	*1240.8*	*1392.7*	*1649.4*	*1857.5*	*1805.8*	*1694.9*	*1748.1*	*1728.4*
72.5°	16586.5	5034.7	1233.2	1213.5	1357.8	1614.5	1825.6	1778.5	1667.6	1713.2	1694.9
75°	14795.8	4372.5	1060.1	1064.7	1184.6	1444.3	1646.3	1631.2	1517.2	1521.8	1515.7
77.5°	10731.6	3206.1	893.0	923.4	1008.5	1269.7	1465.6	1456.5	1332.0	1309.2	1304.6
80°	4980.0	1635.7	727.5	741.2	829.2	1061.6	1249.9	1237.8	1137.6	1108.7	1092.0
82.5°	1705.6	777.6	546.8	555.9	642.4	855.1	1084.4	1076.8	993.3	937.1	902.1
85°	609.0	387.3	382.7	373.6	458.7	672.8	944.7	903.7	780.6	665.2	662.2
87.5°	197.4	165.5	197.4	195.9	267.3	455.6	686.5	584.7	566.5	470.8	461.7
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

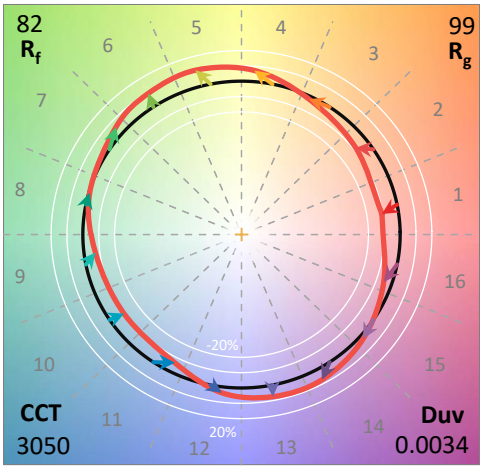
Test Information

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

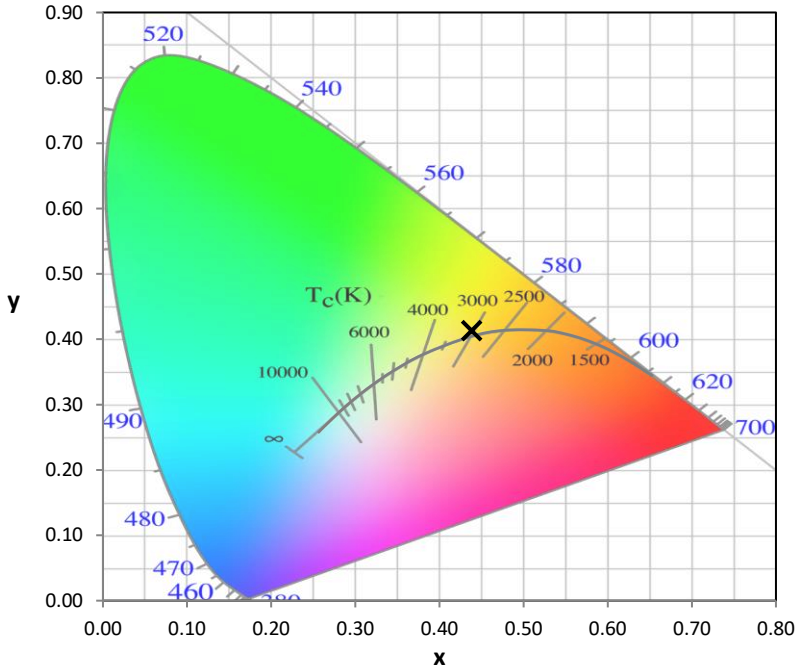
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

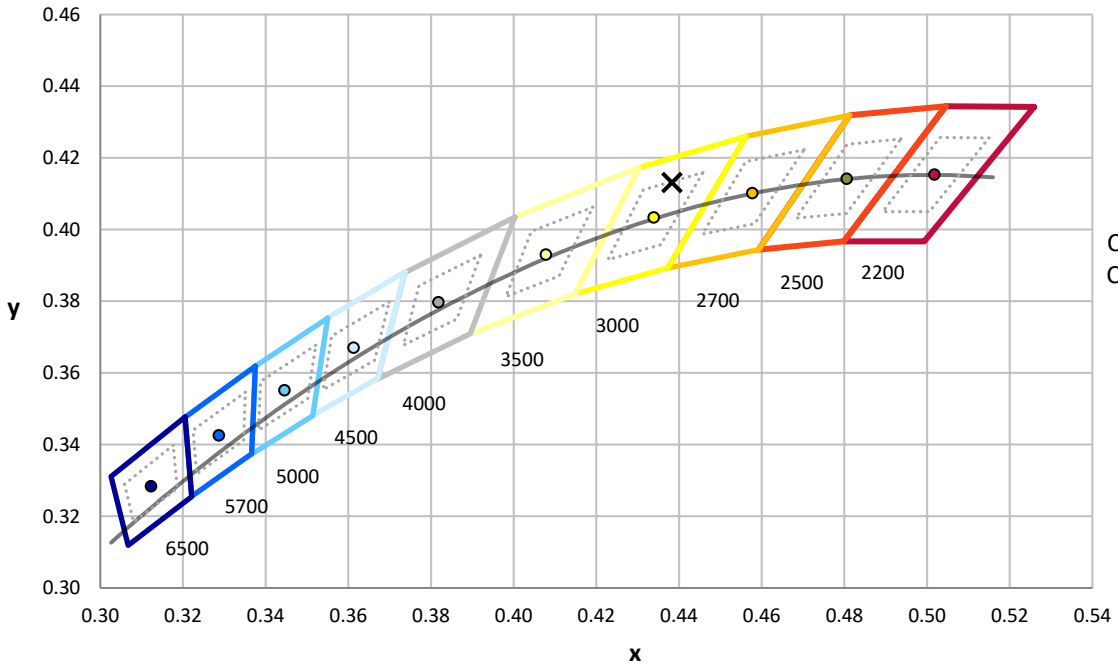
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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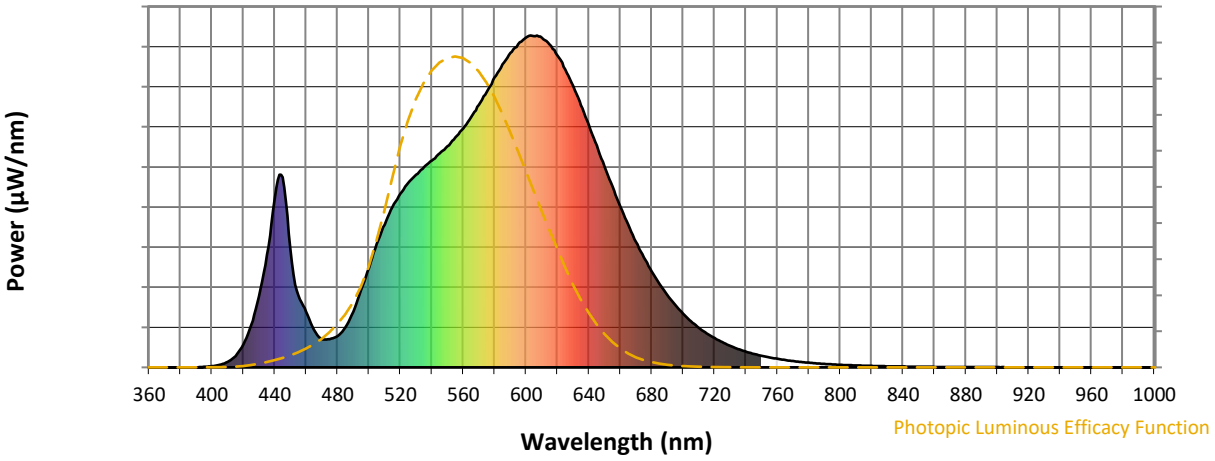
Photopic Flux vs. Wavelength



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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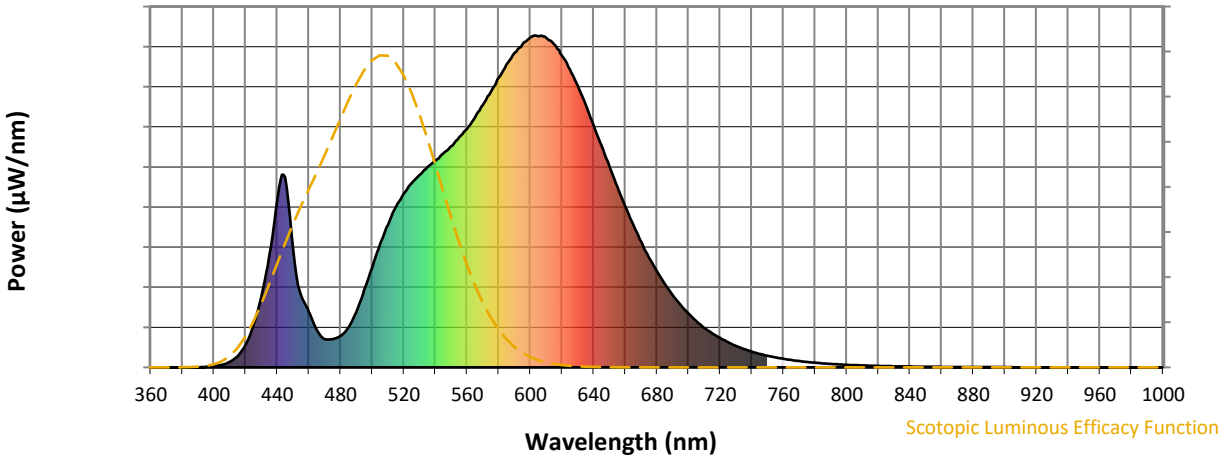
Scotopic Flux vs. Wavelength



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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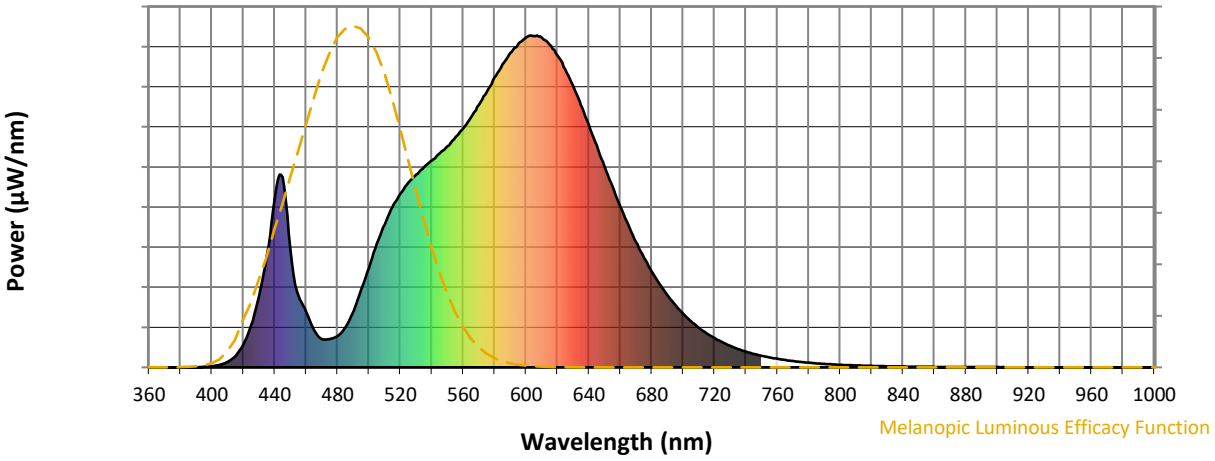
Melanopic Flux vs. Wavelength



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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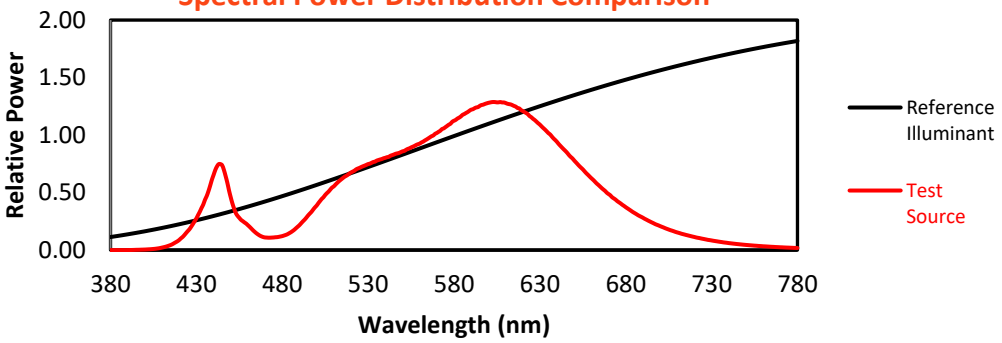
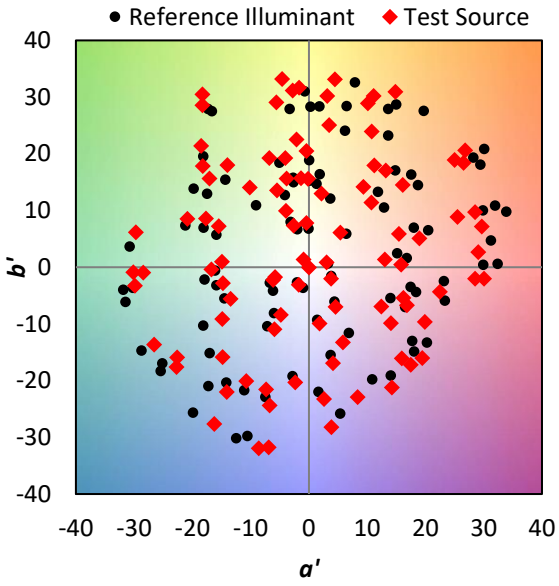
Summary

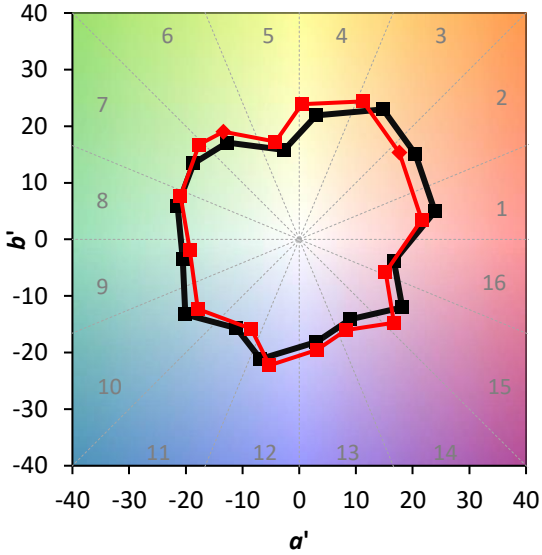
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

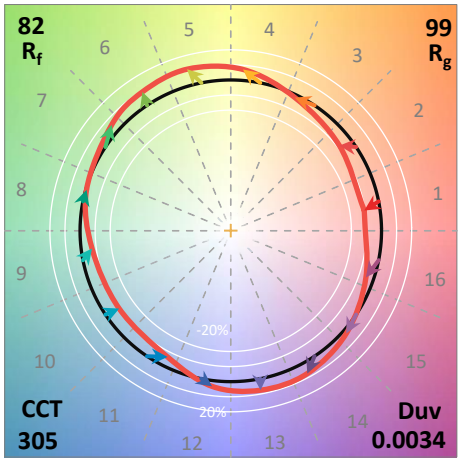
Spectral Power Distribution Comparison

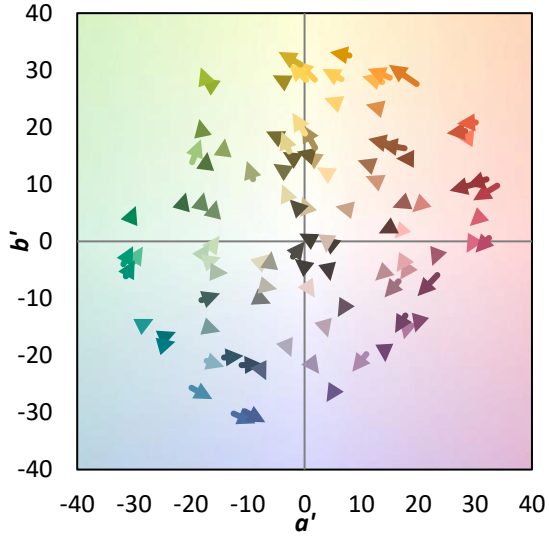


Color Vector Graphics









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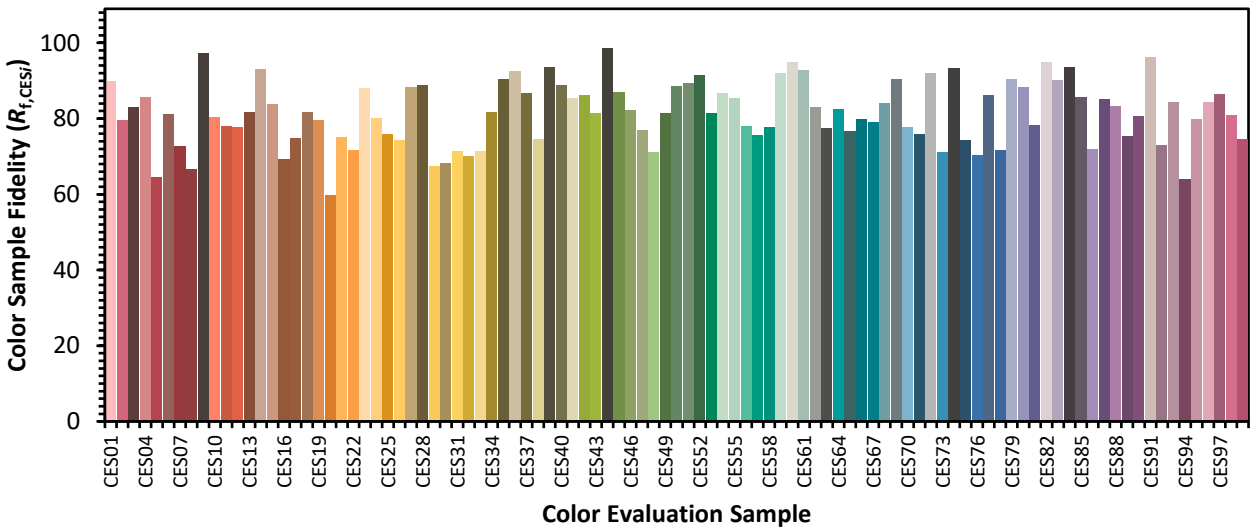
Individual Sample Fidelity Index ($R_{f,i}$)

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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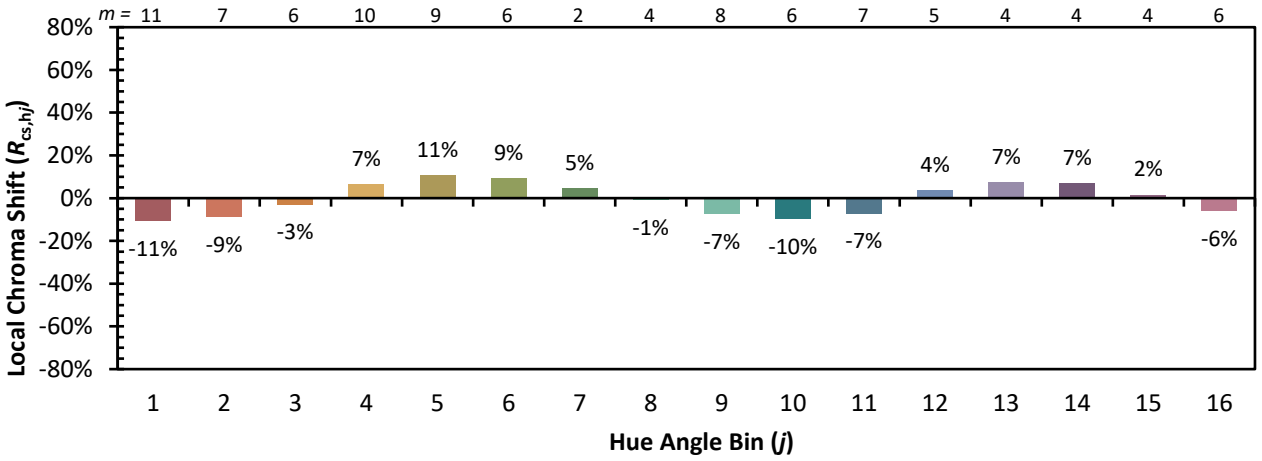
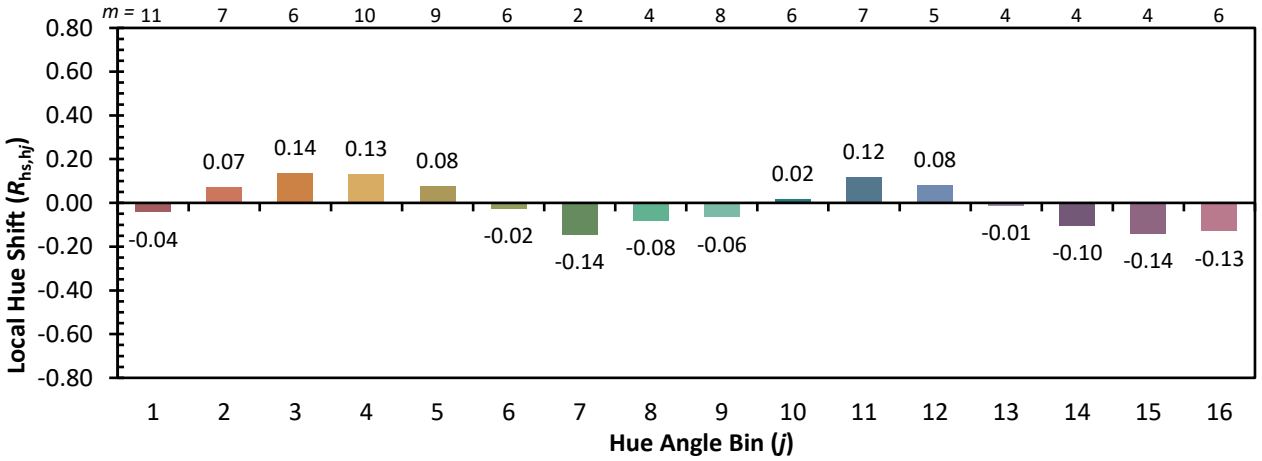
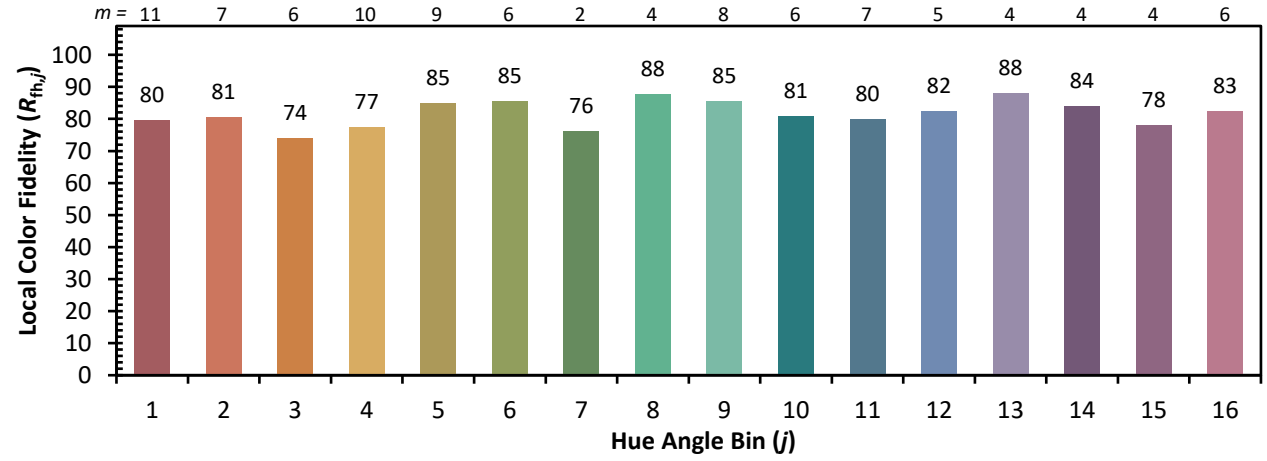
Color Rendition by Hue-Angle Bin







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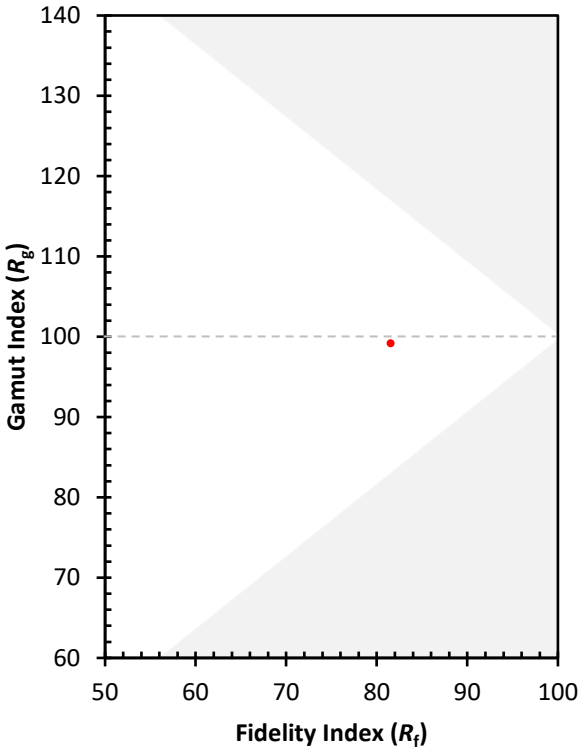
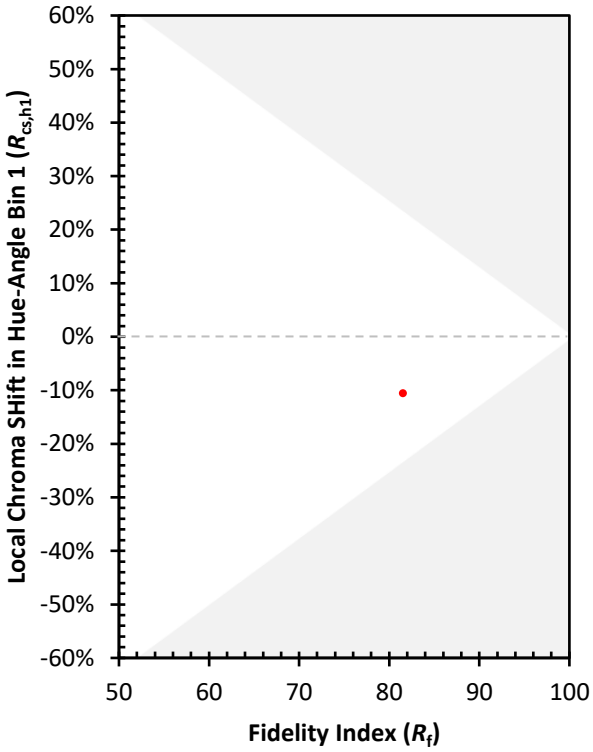
Measure Comparisons





(END OF REPORT)