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: P319219

Luminaire Tested: **GLEON-SA5D-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:	P319219
	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-SA5D-830-U-T4W
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	30602 lumens
Efficiency:	N/A
Efficacy:	95.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G5

Input Watts (W):	320
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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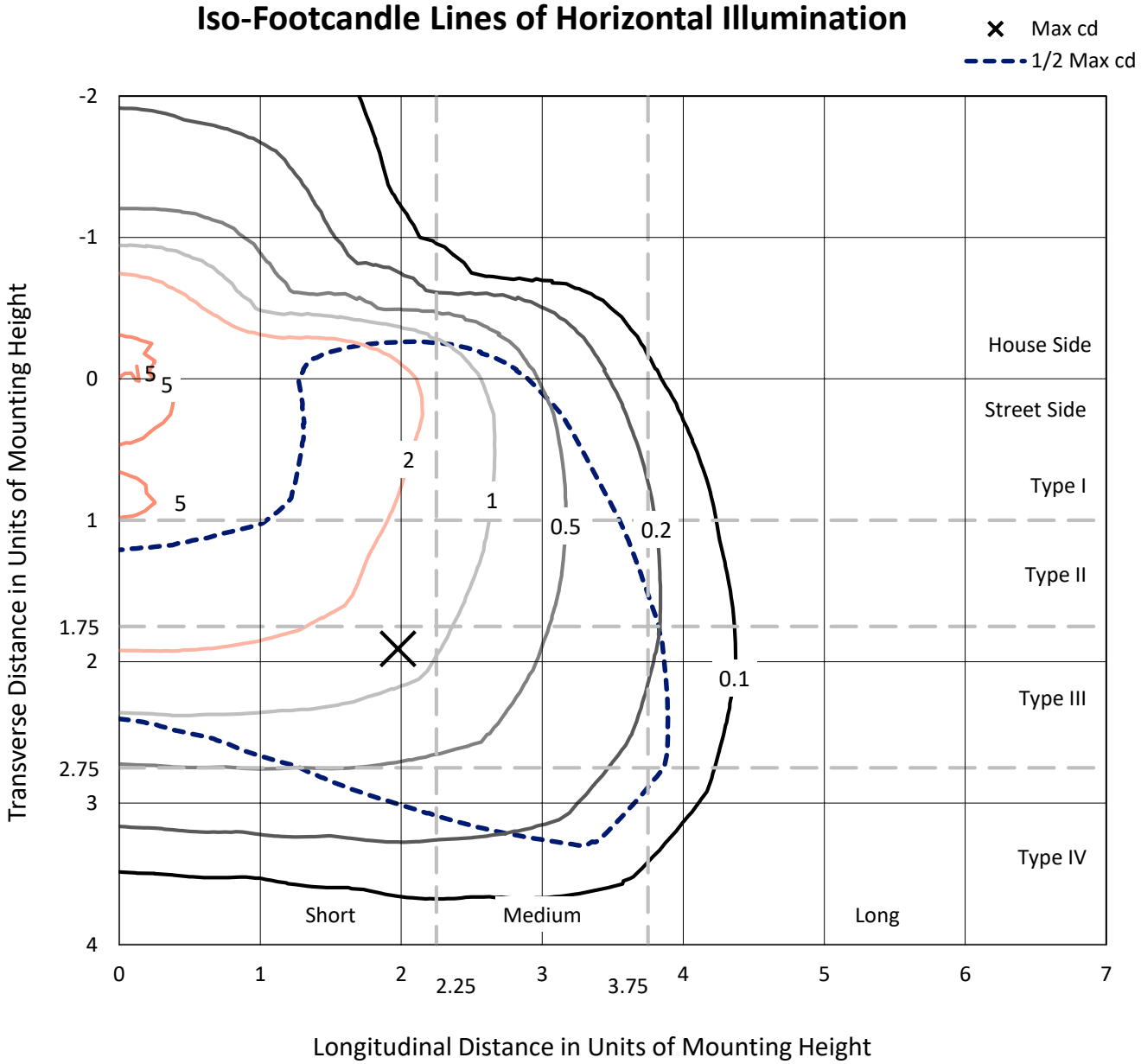
REPORT NUMBER: P319219
CATALOG NUMBER: GLEON-SA5D-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type IV - Short - N/A

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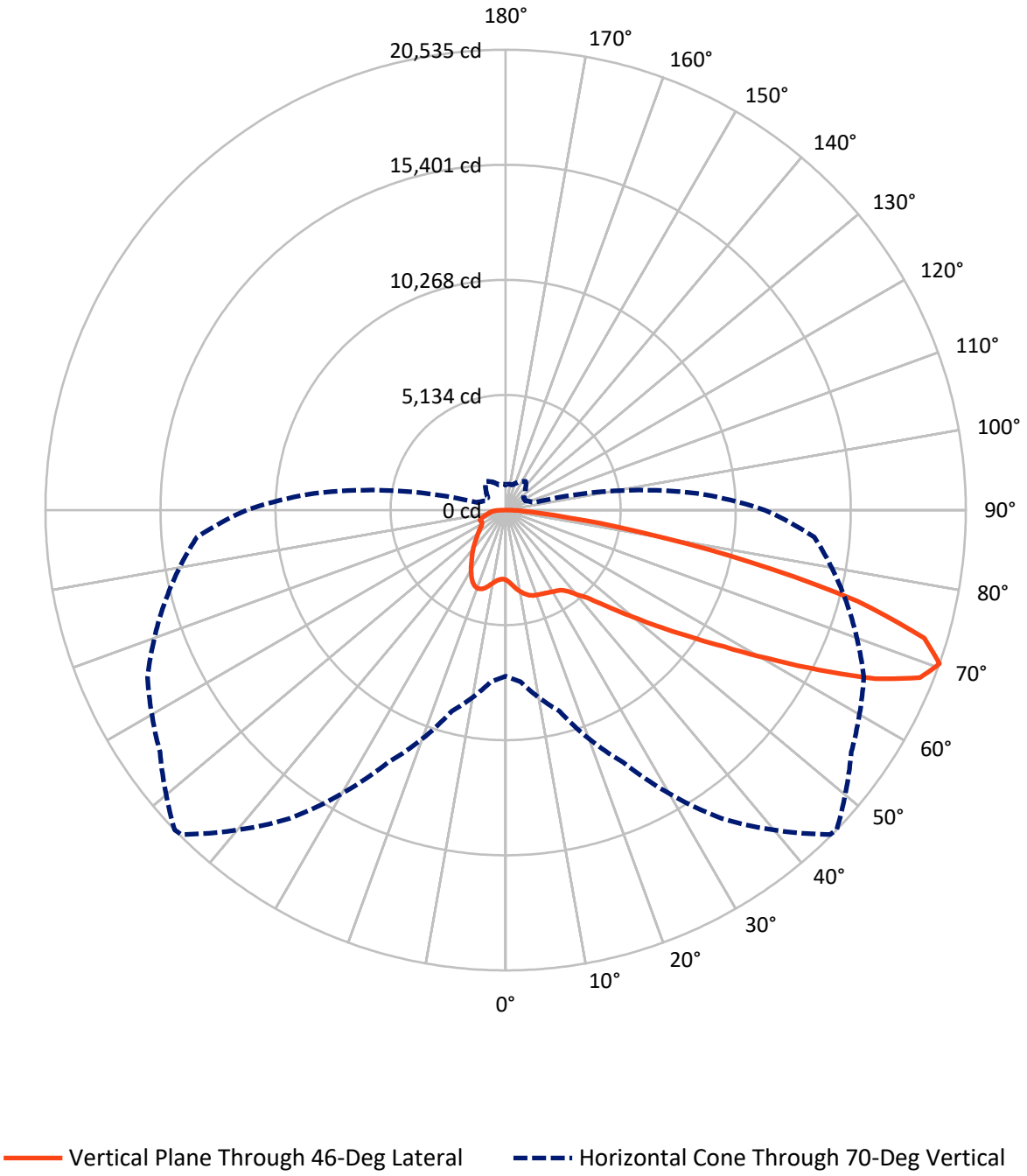
Luminous Intensity Polar Plot



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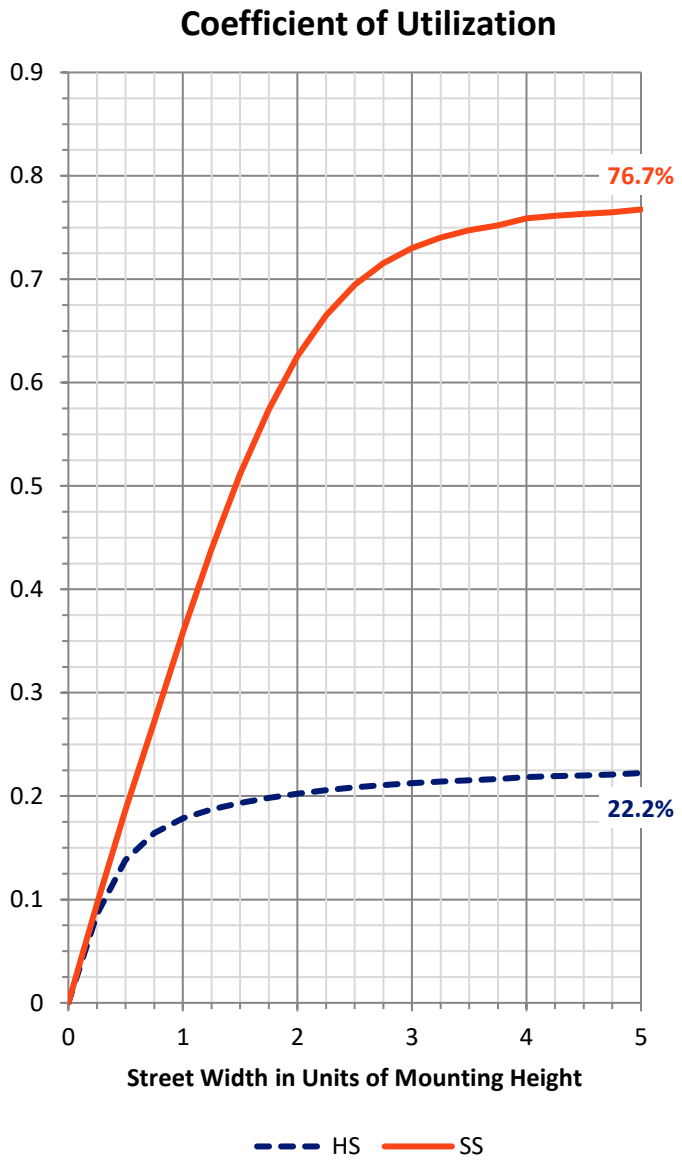
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7013.9	0.0	7013.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	23588.1	0.0	23588.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	30602.0	0.0	30602.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.8	1.0
10°-20°	1058.9	3.5
20°-30°	1765.6	5.8
30°-40°	2505.5	8.2
40°-50°	3685.5	12.0
50°-60°	6241.4	20.4
60°-70°	8859.5	29.0
70°-80°	5382.2	17.6
80°-90°	785.5	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°	30602.0	100.0
0°-180°	30602.0	100.0



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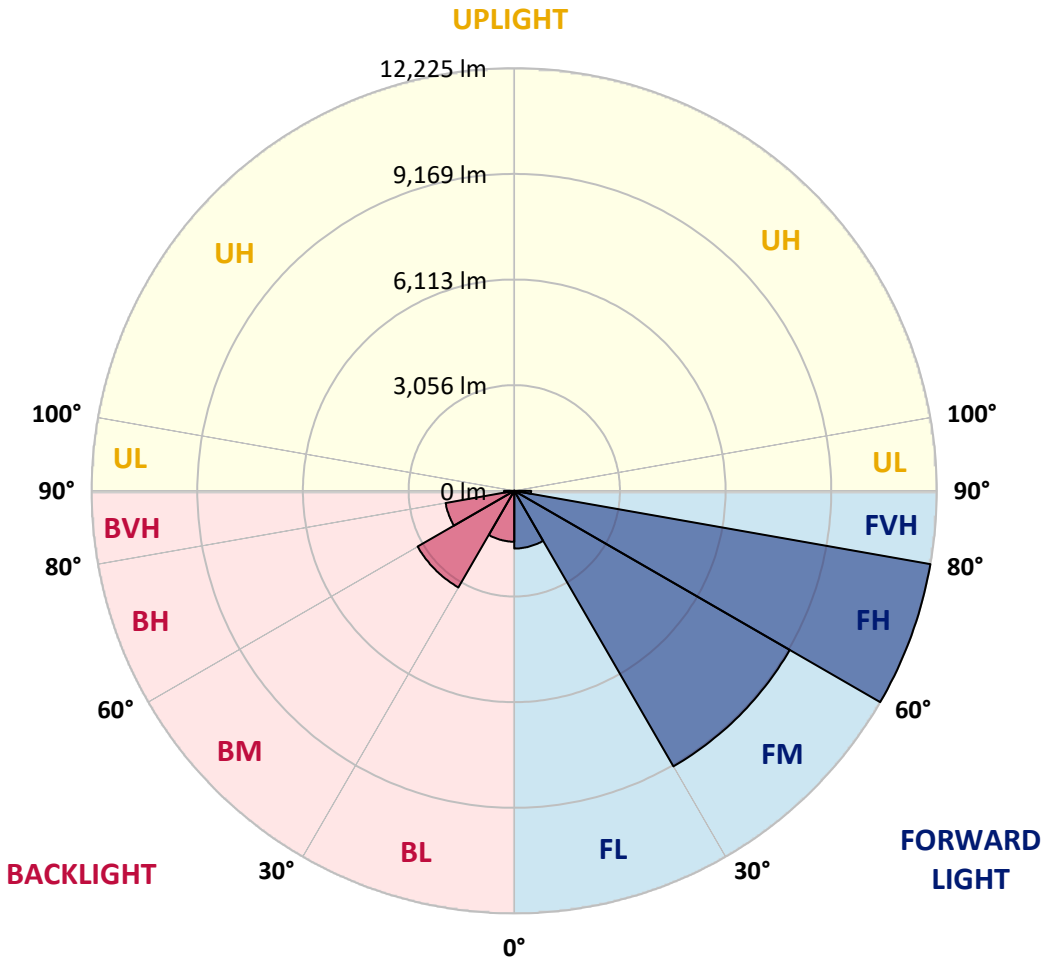
CATALOG NUMBER: GLEON-SA5D-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1669.8	5.5			
FM	(30°-60°)	9203.7	30.1			
FH	(60°-80°)	12225.3	39.9			G5
FVH	(80°-90°)	489.3	1.6			G3/500
BL	(0°-30°)	1472.6	4.8	B3/2500		
BM	(30°-60°)	3228.7	10.6	B3/5000		
BH	(60°-80°)	2016.4	6.6	B3/2500		G3/2500
BVH	(80°-90°)	296.2	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type IV Short



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Scaled Data Report

REPORT NUMBER: P319219
CATALOG NUMBER: GLEON-SA5D-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	*3117.7*	3117.7	3117.7	3117.7	3117.7
2.5°	3273.8	3275.9	3280.1	3269.6	3240.3	3231.9	*3228.8*	3198.4	3178.5	3149.2	3124.0
5°	3535.6	3537.7	3531.4	3502.1	3437.2	3389.0	*3384.8*	3315.7	3252.8	3185.8	3135.5
7.5°	3808.9	3812.1	3792.2	3736.7	3645.6	3561.8	*3556.6*	3462.3	3367.0	3265.4	3190.0
10°	4050.9	4038.3	4005.8	3928.3	3820.5	3717.8	*3713.6*	3615.2	3505.2	3382.7	3282.2
12.5°	4212.1	4201.7	4159.8	4065.5	3947.2	3852.9	*3844.6*	3753.4	3646.6	3512.6	3392.1
15°	4301.2	4308.5	4251.9	4145.1	4029.9	3950.3	*3943.0*	3878.1	3782.8	3647.7	3509.4
17.5°	4312.7	4319.0	4264.5	4158.7	4064.5	4010.0	*4006.9*	3963.9	3894.8	3765.0	3620.4
20°	4245.7	4249.9	4204.8	4117.9	4056.1	4039.3	*4038.3*	4019.5	3968.1	3852.9	3712.6
22.5°	4148.3	4151.4	4118.9	4056.1	4035.2	4061.3	*4068.7*	4061.3	4024.7	3916.8	3784.9
25°	4124.2	4122.1	4088.6	4024.7	4042.5	4098.0	*4107.4*	4110.6	4085.4	3991.2	3877.0
27.5°	4240.4	4233.1	4169.2	4066.6	4078.1	4145.1	*4157.7*	4188.1	4172.4	4089.6	3981.7
30°	4576.6	4564.0	4433.1	4225.8	4169.2	4203.8	*4219.5*	4267.7	4270.8	4201.7	4121.0
32.5°	5144.2	5128.5	4893.9	4523.2	4323.2	4263.5	*4278.1*	4350.4	4389.1	4335.7	4248.8
35°	5861.6	5843.8	5535.9	5029.0	4580.8	4377.6	*4388.1*	4445.7	4523.2	4447.8	4332.6
37.5°	6609.4	6566.4	6270.0	5623.9	4990.3	4621.6	*4621.6*	4629.0	4665.6	4508.5	4431.0
40°	7352.9	7310.0	7041.9	6323.5	5520.2	5006.0	*4981.9*	4819.6	4790.2	4655.1	4629.0
42.5°	8044.1	8031.6	7873.4	7114.2	6142.3	5384.1	*5350.5*	5075.1	5081.4	4997.6	4998.7
45°	8779.3	8779.3	8650.5	7912.2	6867.0	5991.5	*5958.0*	5552.7	5615.5	5576.8	5670.0
47.5°	9379.4	9398.3	9380.5	8743.7	7710.1	6763.3	*6702.6*	6214.5	6390.5	6523.5	6794.7
50°	9992.1	10021.4	10024.5	9655.9	8729.1	7680.7	*7611.6*	7093.2	7485.9	7867.1	8400.2
52.5°	10881.2	10947.2	10684.3	10566.0	9977.4	8769.9	*8701.8*	8223.2	8878.8	9414.0	10332.4
55°	11705.4	11647.8	11460.4	11533.7	11313.7	10009.9	*9958.6*	9538.6	10430.9	11126.3	12319.1
57.5°	12151.6	12147.4	12335.9	12650.1	12754.8	11538.9	*11496.0*	11087.5	12180.9	12703.5	14184.3
60°	12675.2	12682.5	13149.6	13862.8	14294.3	13442.9	*13424.0*	13114.0	13880.6	14175.9	15647.4
62.5°	12748.5	12880.5	13684.8	14912.2	15735.3	15667.3	*15709.2*	14939.4	15401.3	15351.0	16739.7
65°	11905.4	12079.3	13535.0	15229.5	17168.0	18100.1	*18138.8*	16775.3	16600.4	16355.3	17130.3
67.5°	10177.4	10435.1	12016.5	14539.4	17640.3	19898.3	*19952.7*	18198.5	17595.3	16695.7	16189.9
70°	*7406.3*	*7692.3*	*9284.1*	*12417.6*	*16798.3*	*20473.2*	*20535.0*	*18828.0*	*17633.0*	*15727.0*	*13820.9*
72.5°	4474.0	4698.1	6010.3	9141.7	14178.0	19425.9	*19535.9*	18029.9	16098.7	13321.4	10205.7
75°	1964.7	2111.3	2906.2	5267.8	10150.2	16072.6	*16209.8*	15432.7	13080.5	9681.0	6032.3
77.5°	836.8	878.7	1191.8	2288.3	5738.0	10982.8	*11171.3*	11276.0	8874.6	5267.8	2549.1
80°	521.5	538.3	674.4	1035.8	2685.2	6168.5	*6371.6*	6634.5	4406.9	1936.4	890.2
82.5°	317.3	336.2	448.2	626.3	1398.1	2796.2	*2893.6*	3079.0	1710.2	836.8	460.8
85°	190.6	204.2	274.4	395.9	795.9	1099.6	*1098.6*	1214.8	805.4	538.3	243.0
87.5°	91.1	101.6	146.6	205.3	401.1	412.6	*386.4*	437.8	489.1	352.9	122.5
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: P319219
CATALOG NUMBER: GLEON-SA5D-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7	3117.7
2.5°	3115.7	3111.5	3097.8	3087.4	3085.3	3079.0	3073.8	3076.9	3081.1	3082.1	3082.1
5°	3114.6	3103.1	3085.3	3077.9	3087.4	3099.9	3115.7	3136.6	3149.2	3158.6	3164.9
7.5°	3164.9	3142.9	3123.0	3118.8	3137.6	3171.2	3206.8	3250.7	3281.1	3302.1	3306.3
10°	3248.7	3221.4	3201.5	3205.7	3239.2	3287.4	3337.7	3394.2	3440.3	3468.6	3470.7
12.5°	3345.0	3318.8	3300.0	3317.8	3373.3	3431.9	3484.3	3533.5	3575.4	3603.7	3603.7
15°	3456.0	3437.2	3415.2	3456.0	3531.4	3583.8	3605.8	3629.9	3652.9	3673.8	3669.7
17.5°	3562.8	3545.0	3533.5	3581.7	3660.2	3684.3	3669.7	3651.9	3651.9	3663.4	3665.5
20°	3655.0	3639.3	3646.6	3693.7	3734.6	3709.5	3655.0	3598.4	3575.4	3581.7	3588.0
22.5°	3735.6	3728.3	3750.3	3772.3	3743.0	3655.0	3554.5	3478.0	3449.7	3447.6	3449.7
25°	3829.9	3828.8	3856.1	3816.3	3686.4	3524.1	3389.0	3314.6	3298.9	3311.5	3332.4
27.5°	3947.2	3958.7	3972.3	3826.8	3571.2	3326.2	3189.0	3137.6	3153.4	3183.7	3203.6
30°	4096.9	4128.4	4099.0	3800.6	3405.7	3099.9	2969.0	2954.4	2997.3	3040.2	3061.2
32.5°	4242.5	4291.7	4220.5	3732.5	3192.1	2860.1	2758.5	2754.3	2806.7	2848.6	2877.9
35°	4359.8	4457.2	4311.6	3597.4	2944.9	2639.1	2564.8	2536.5	2555.4	2604.6	2638.1
37.5°	4512.7	4675.0	4374.5	3391.1	2676.8	2456.9	2370.0	2305.1	2288.3	2308.2	2325.0
40°	4792.3	5007.0	4403.8	3103.1	2415.0	2274.7	2186.7	2091.4	2025.4	1977.3	1978.3
42.5°	5249.0	5439.6	4385.0	2753.3	2173.1	2096.6	1997.2	1887.2	1780.4	1671.5	1663.1
45°	5990.4	6082.6	4328.4	2382.6	1960.5	1910.2	1817.0	1707.1	1564.6	1441.1	1429.5
47.5°	7177.0	6972.8	4240.4	2058.9	1773.0	1752.1	1666.2	1539.5	1388.7	1289.2	1280.8
50°	8795.0	8257.8	4197.5	1801.3	1607.6	1613.9	1543.7	1409.6	1267.2	1193.9	1185.5
52.5°	10730.4	9754.3	4280.2	1602.3	1474.6	1496.6	1444.2	1318.5	1199.1	1141.5	1133.2
55°	12738.0	11304.3	4369.2	1457.8	1348.9	1391.8	1374.0	1270.3	1162.5	1109.1	1101.7
57.5°	14456.6	12461.6	4191.2	1340.5	1236.8	1303.9	1319.6	1240.0	1143.6	1095.5	1087.1
60°	15538.5	12927.6	3724.1	1230.6	1147.8	1233.7	1288.2	1231.6	1151.0	1146.8	1140.5
62.5°	16051.6	12886.7	3023.5	1143.6	1092.3	1203.3	1311.2	1278.7	1234.7	1272.4	1275.6
65°	15821.2	12270.9	2251.6	1086.0	1052.5	1214.8	1380.3	1367.7	1258.8	1296.5	1301.8
67.5°	14304.8	10801.6	1667.3	1035.8	1008.5	1247.3	1506.0	1397.1	1211.7	1238.9	1222.2
70°	*11561.9*	*8563.6*	*1286.1*	*979.2*	*963.5*	*1243.1*	*1562.5*	*1379.3*	*1160.4*	*1166.7*	*1121.6*
72.5°	7972.9	5839.6	1046.2	926.8	898.6	1133.2	1522.7	1335.3	1117.4	1069.3	1009.6
75°	4335.7	3134.5	889.1	872.4	784.4	994.9	1449.4	1303.9	1078.7	1014.8	981.3
77.5°	1706.0	1300.7	771.8	798.0	686.0	878.7	1367.7	1244.2	1025.3	941.5	924.7
80°	696.4	664.0	639.9	690.2	589.6	768.7	1269.3	1174.0	961.4	873.4	839.9
82.5°	394.8	412.6	497.5	544.6	478.6	708.0	1222.2	1117.4	884.9	782.3	742.5
85°	202.1	241.9	346.6	390.6	351.9	602.2	1125.8	978.2	710.1	599.0	602.2
87.5°	97.4	135.1	218.9	245.1	228.3	435.7	841.0	709.0	553.0	437.8	424.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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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

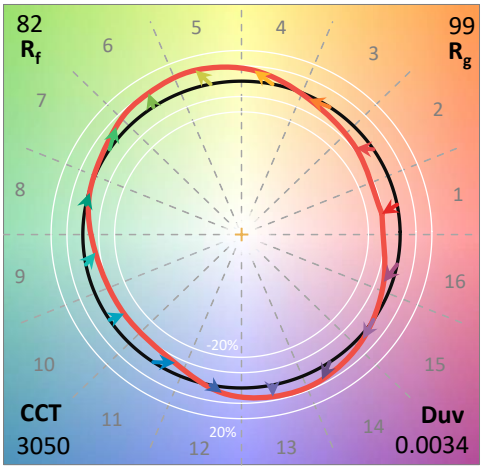
Test Information

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

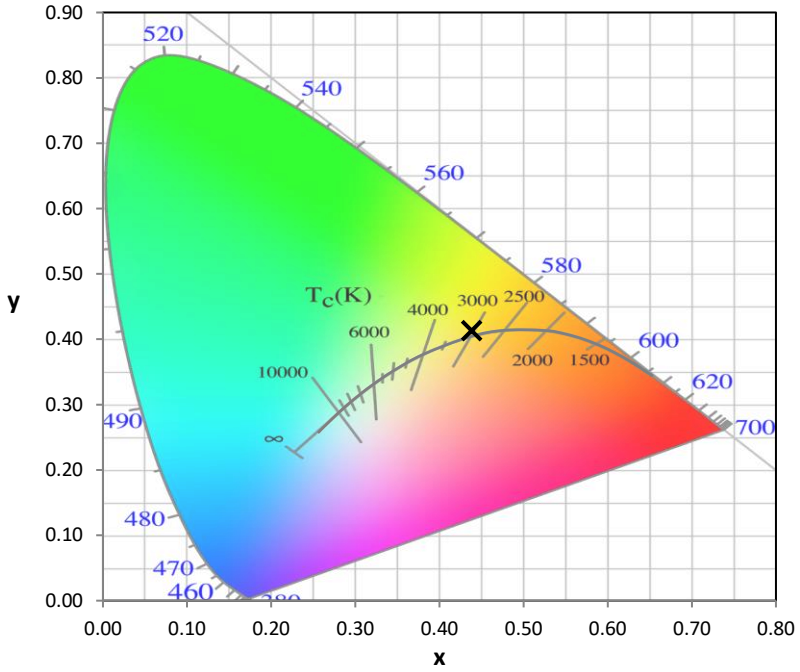
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

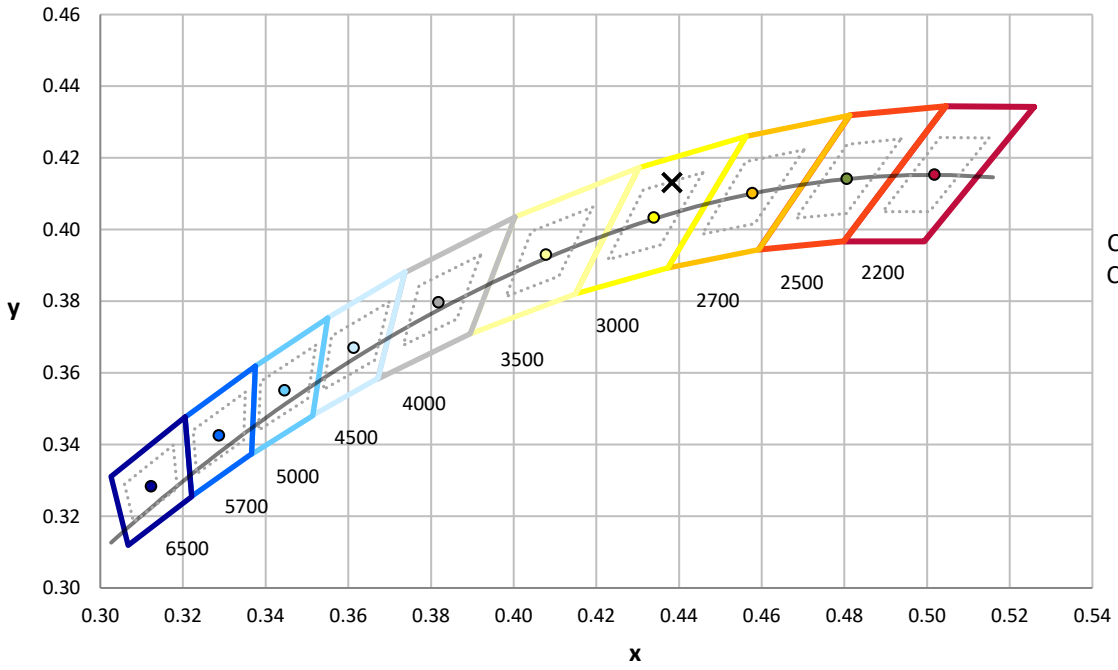
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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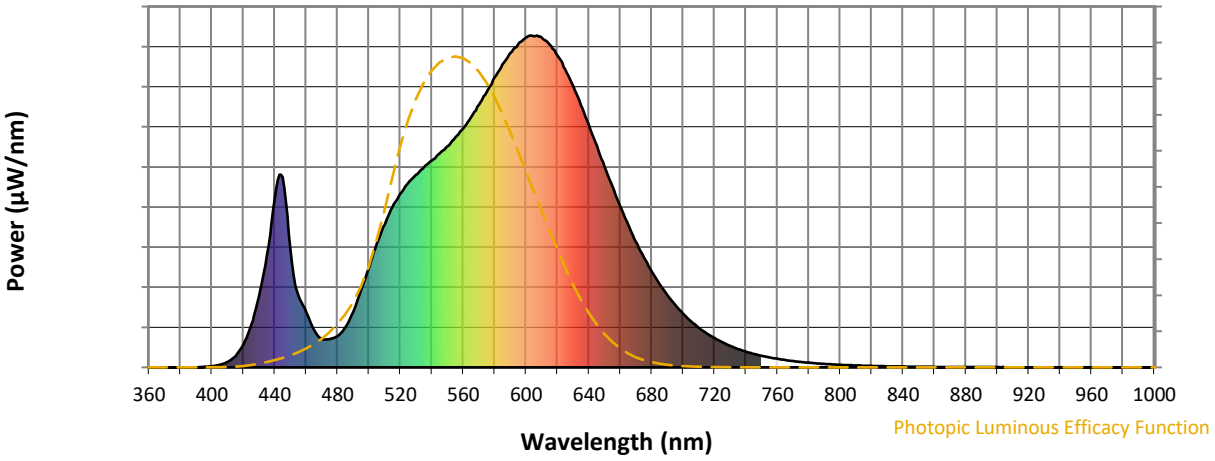
Photopic Flux vs. Wavelength



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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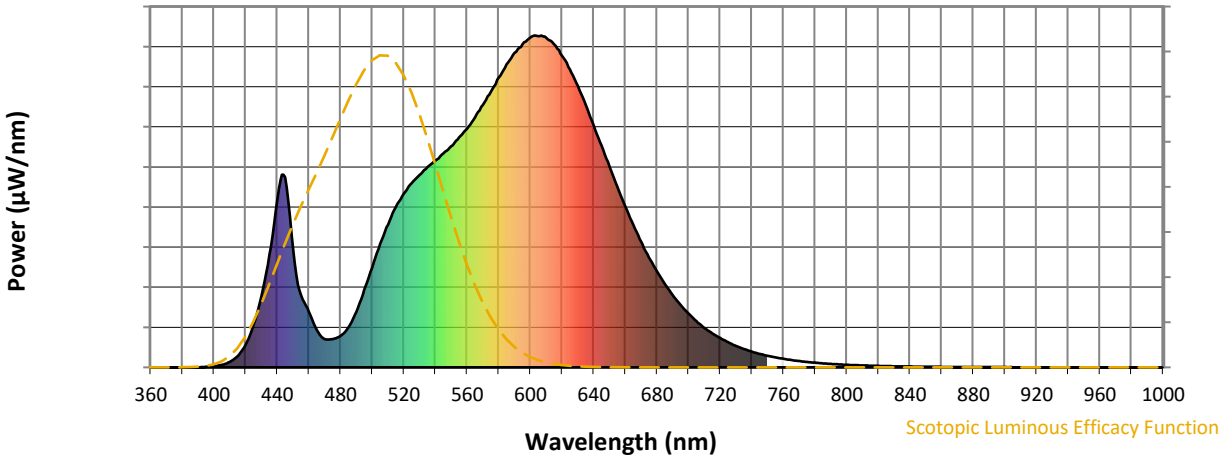
Scotopic Flux vs. Wavelength



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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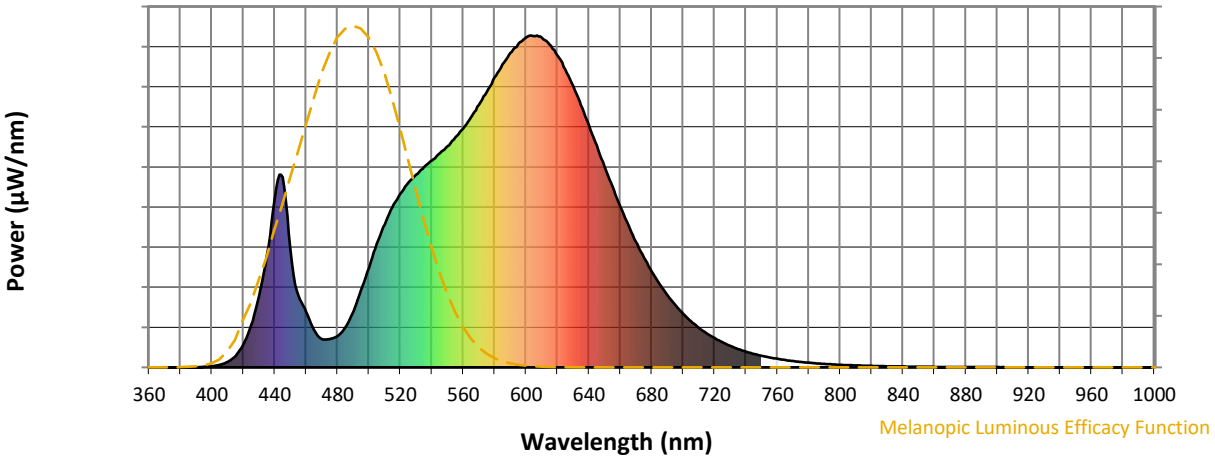
Melanopic Flux vs. Wavelength



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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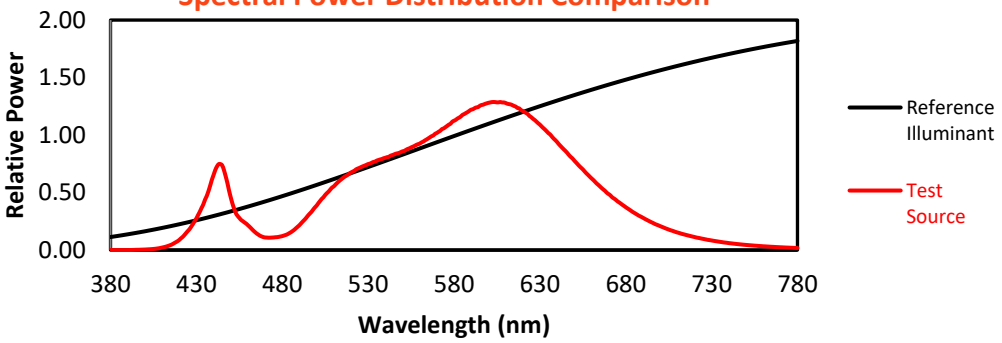
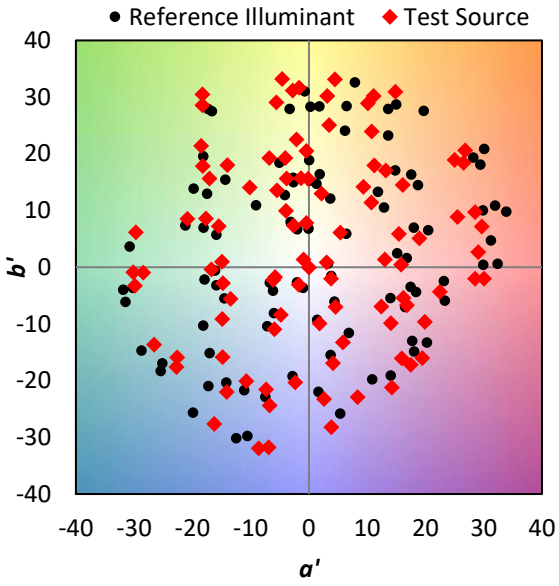
Summary

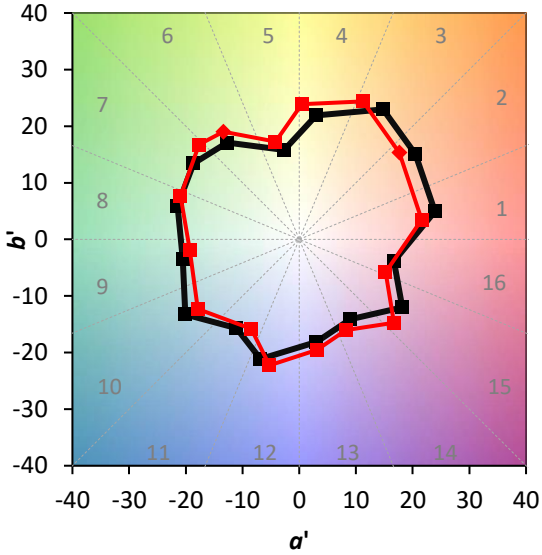
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

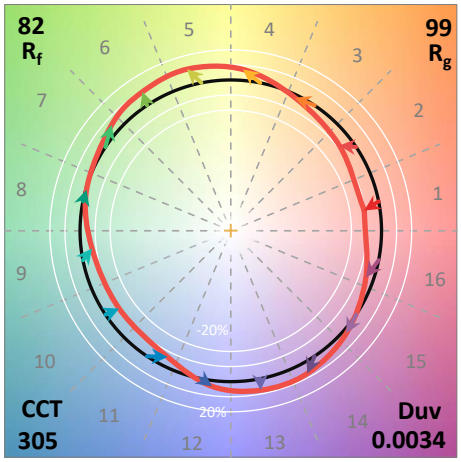
Spectral Power Distribution Comparison

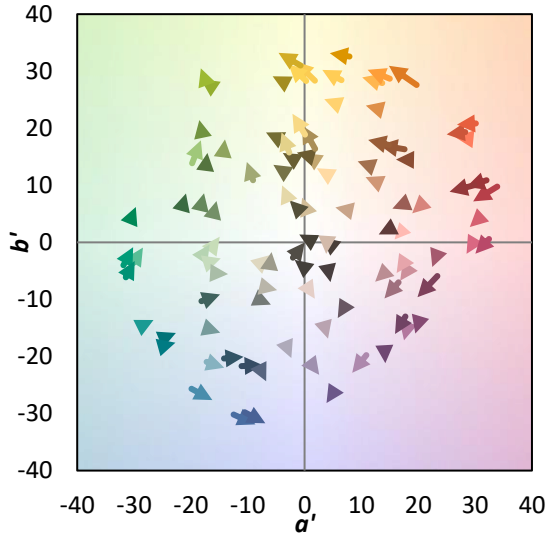


Color Vector Graphics









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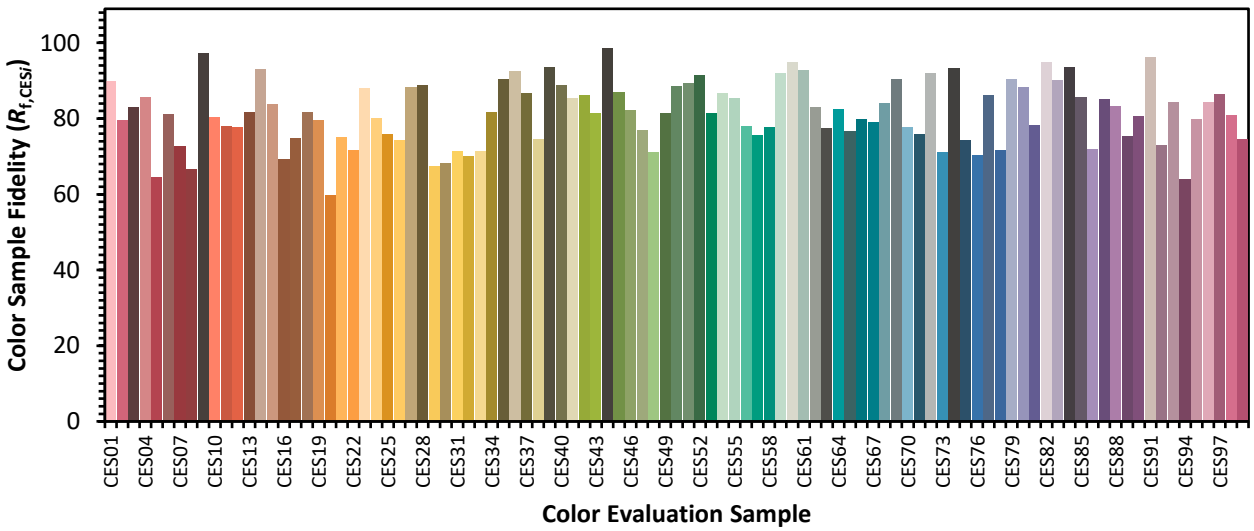
Individual Sample Fidelity Index ($R_{f,i}$)

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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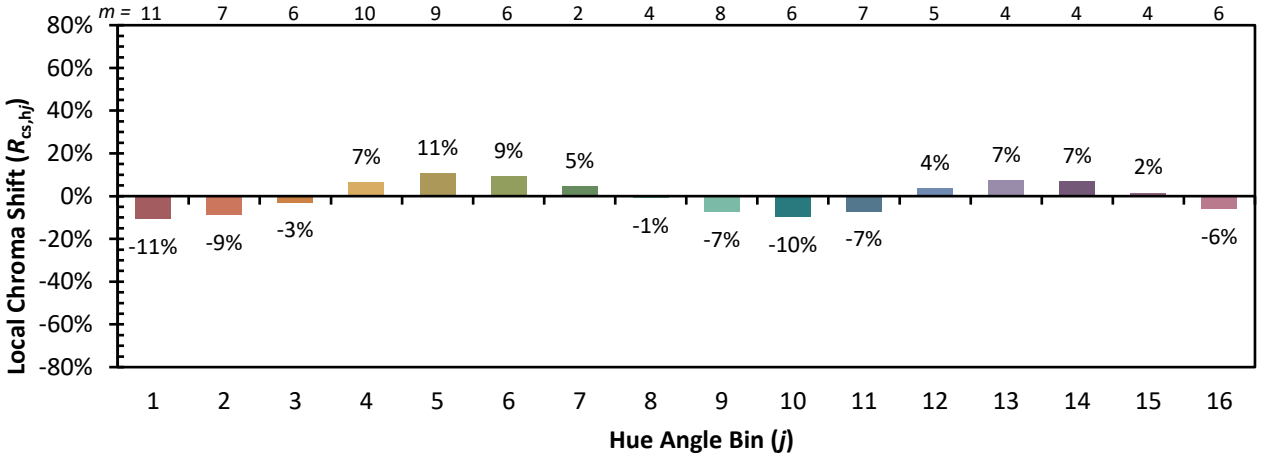
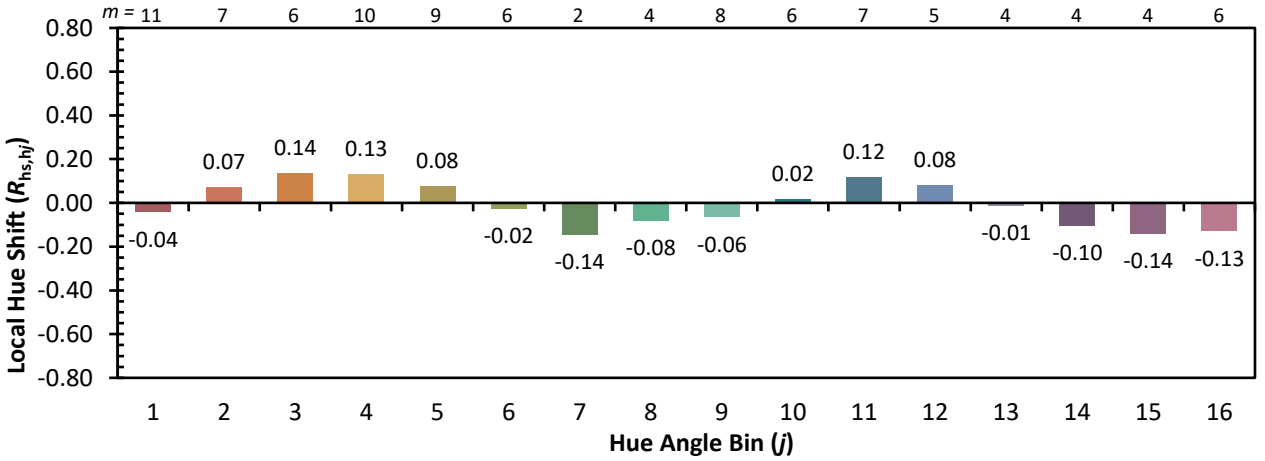
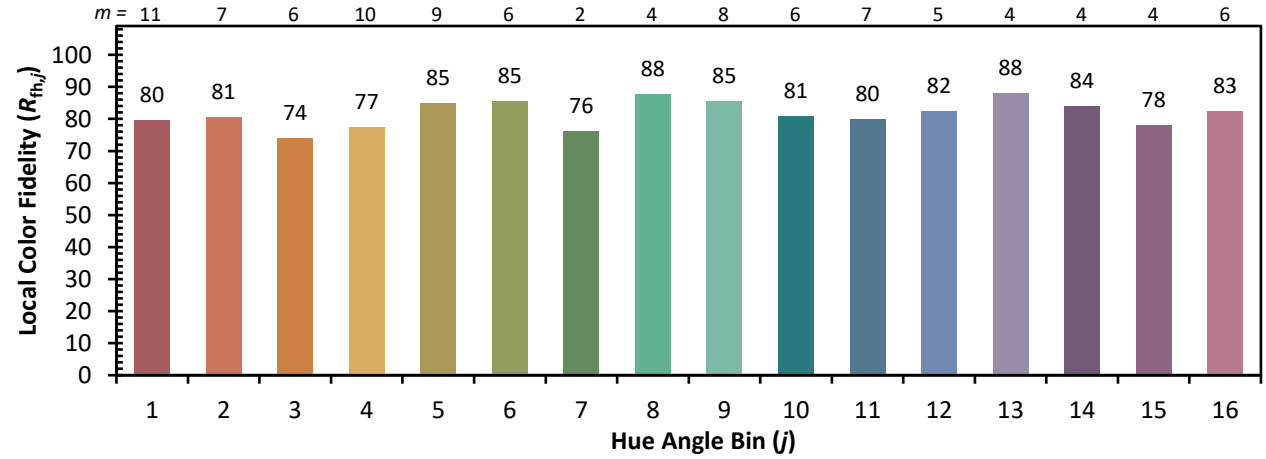
Color Rendition by Hue-Angle Bin







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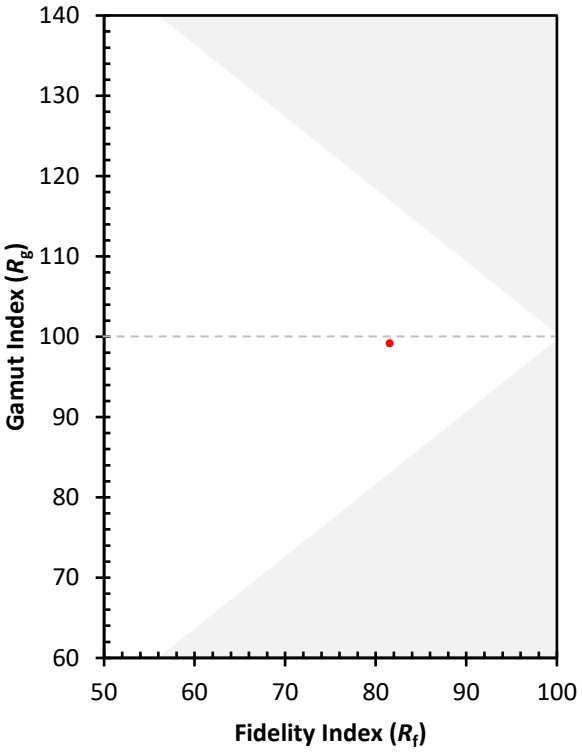
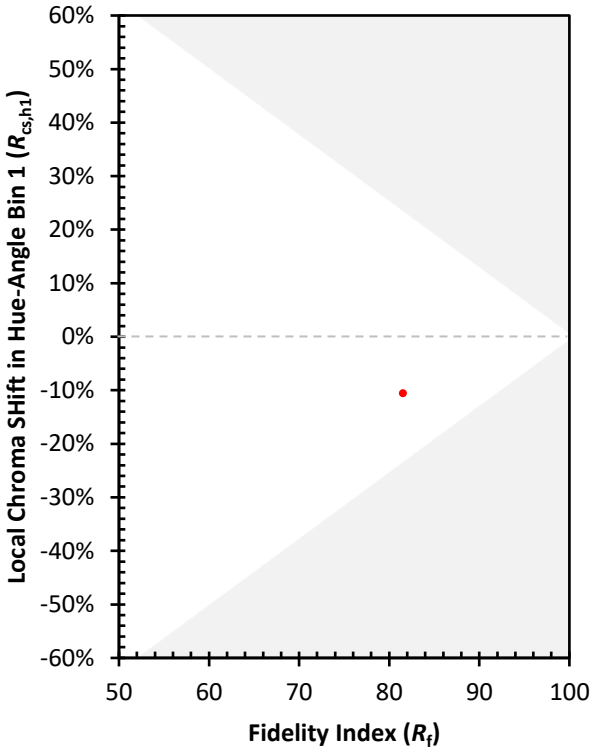
Measure Comparisons





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