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: P323044

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

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:	P323044
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
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-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	32578 lumens
Efficiency:	N/A
Efficacy:	77.8 lumens/watt
Luminous Opening:	Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - 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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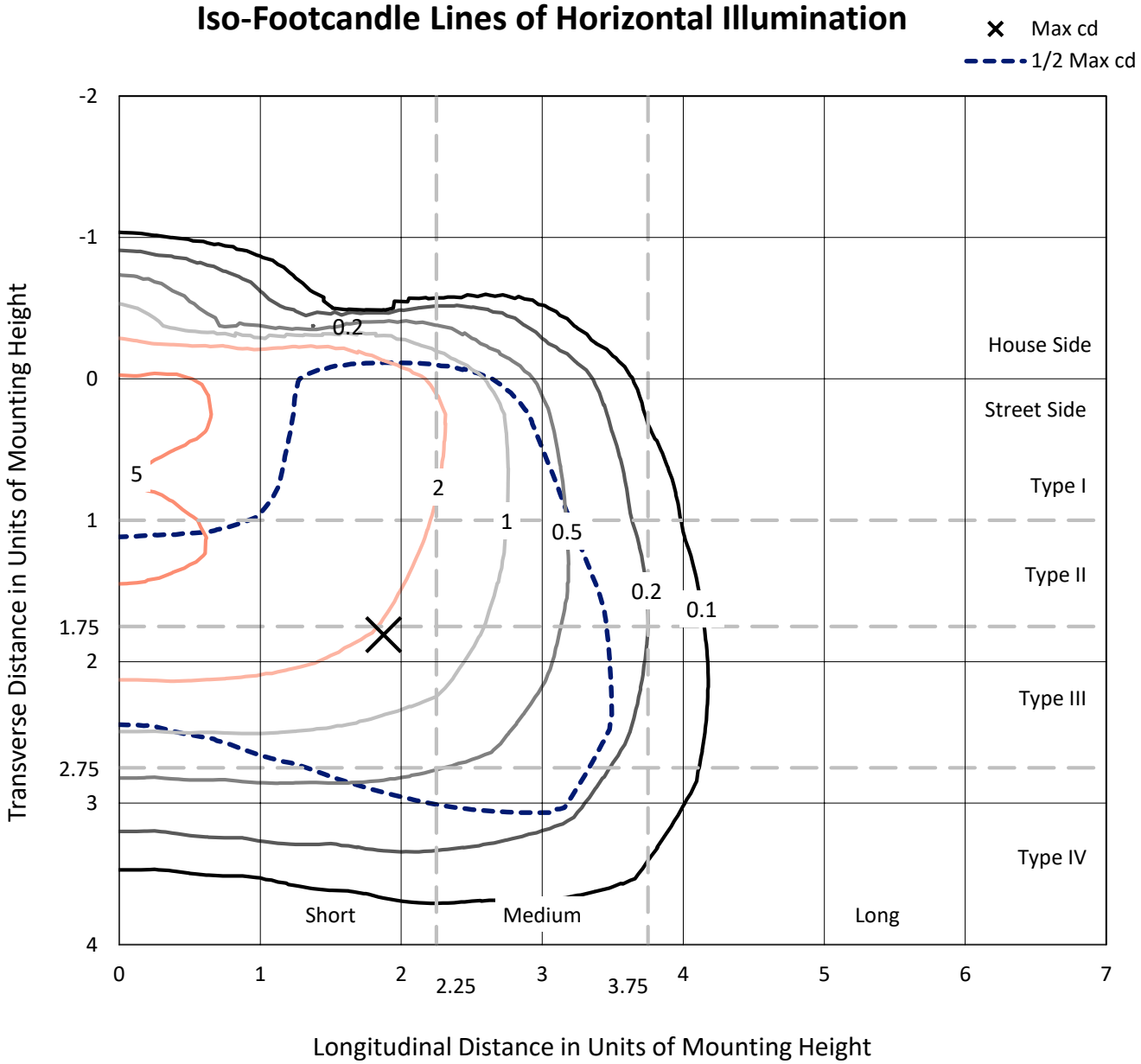
REPORT NUMBER: P323044
CATALOG NUMBER: GLEON-SA0B-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type IV - Short - N/A

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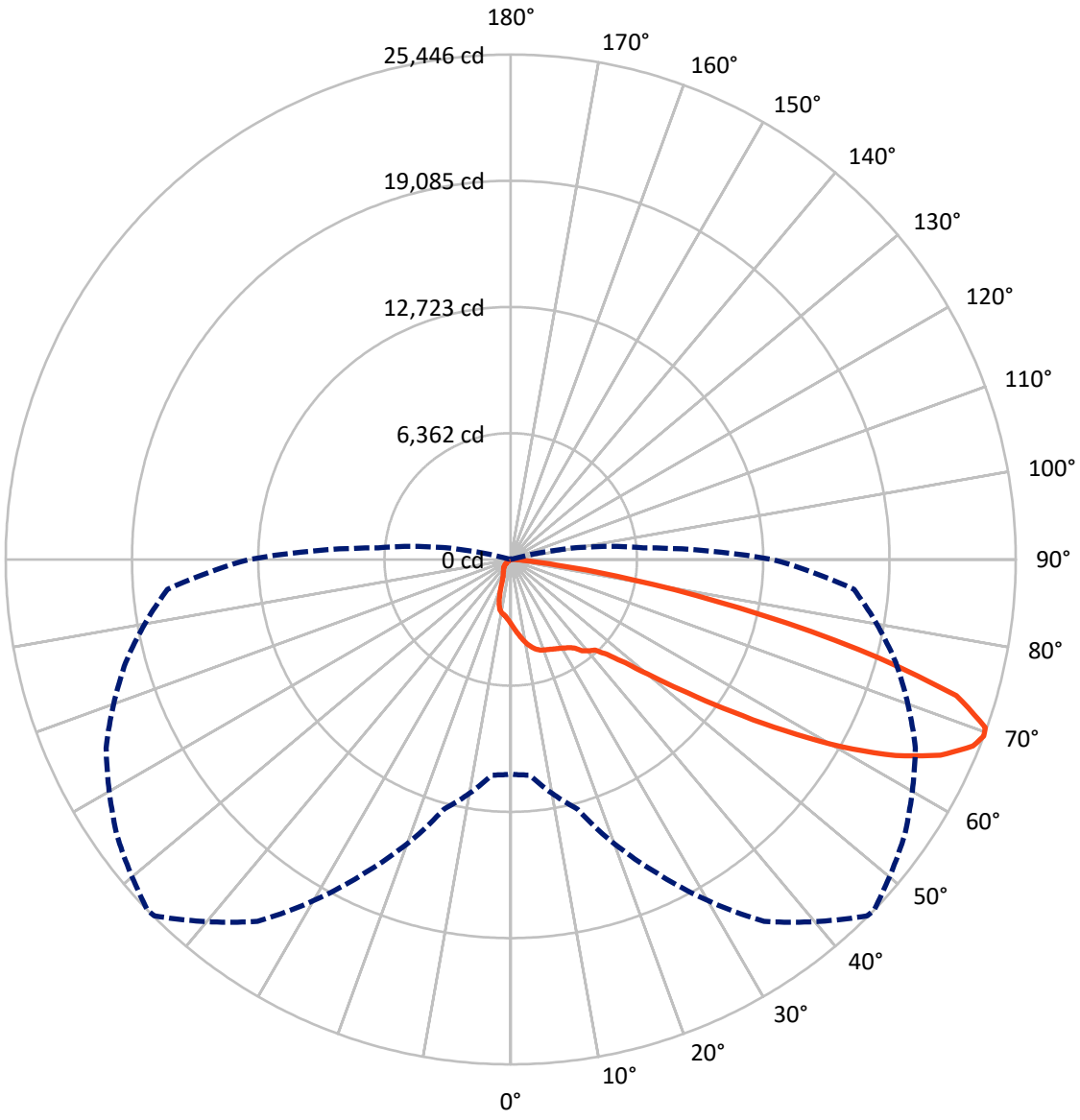
Luminous Intensity Polar Plot



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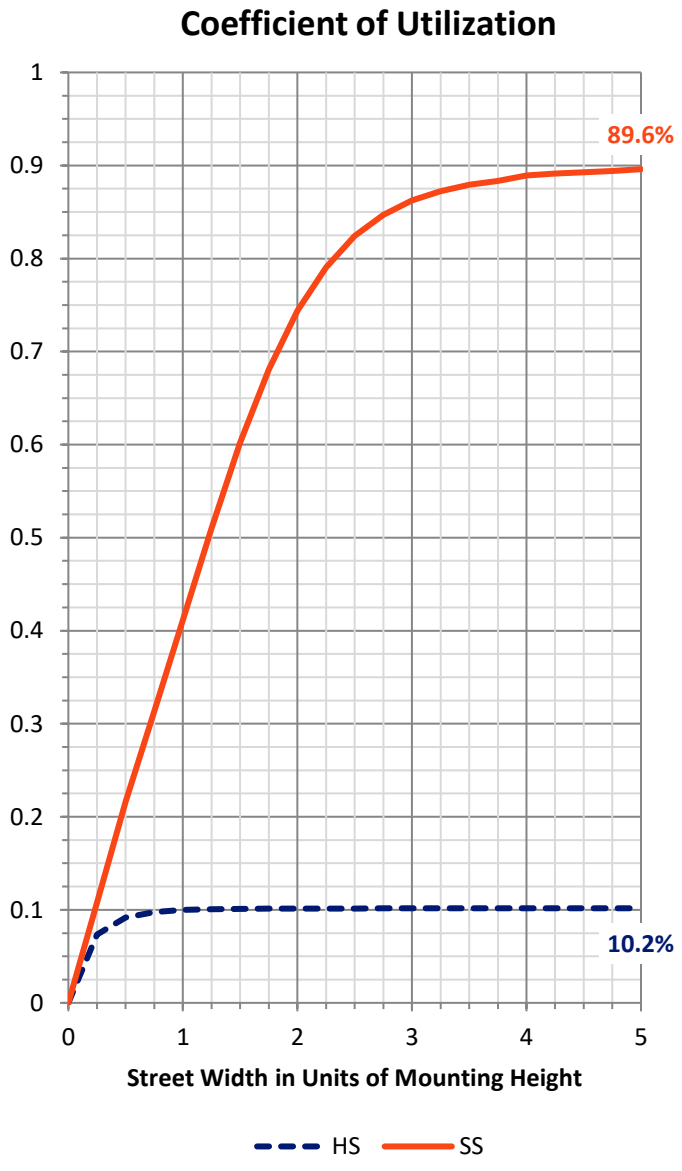
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3343.4	0.0	3343.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	29234.6	0.0	29234.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	32578.0	0.0	32578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.9	1.0
10°-20°	985.7	3.0
20°-30°	1550.1	4.8
30°-40°	2222.9	6.8
40°-50°	3842.0	11.8
50°-60°	7590.2	23.3
60°-70°	10608.0	32.6
70°-80°	5124.8	15.7
80°-90°	329.4	1.0
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°	32578.0	100.0
0°-180°	32578.0	100.0



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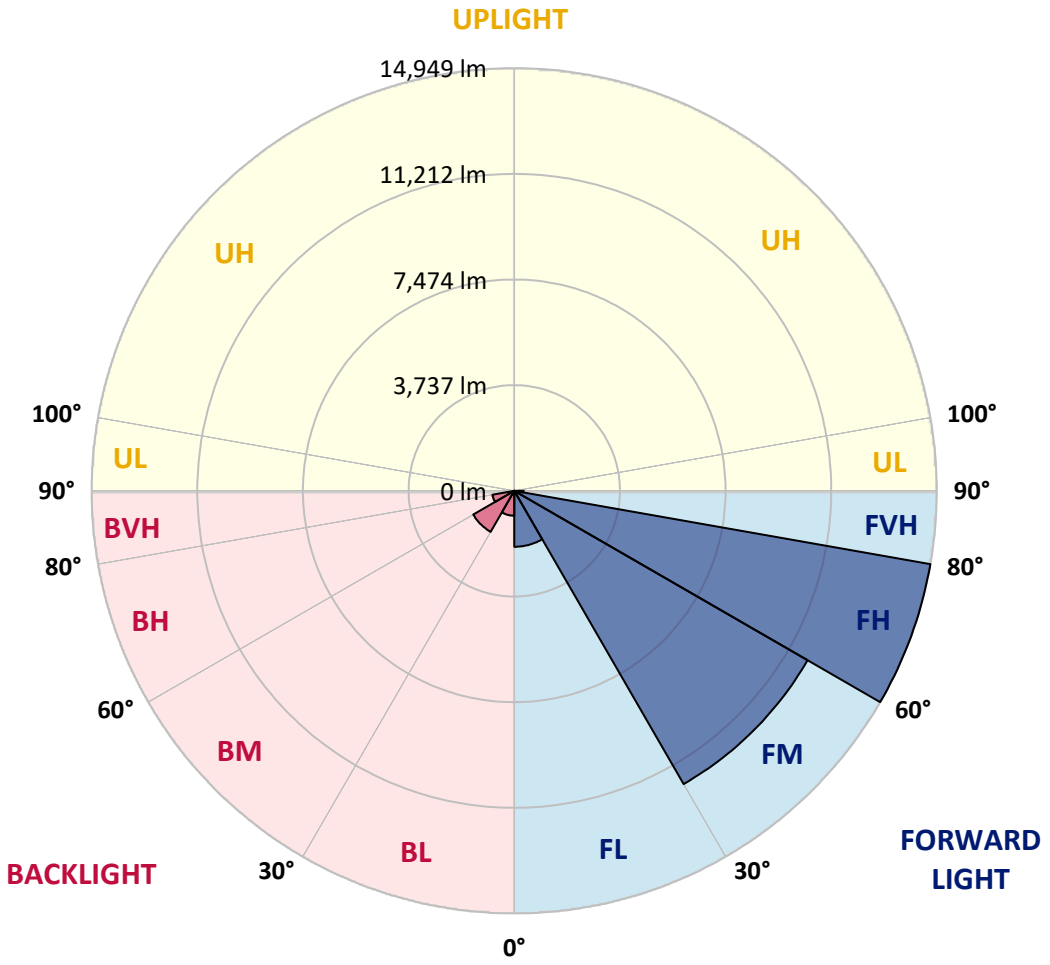
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1979.5	6.1			
FM	(30°-60°)	11979.7	36.8			
FH	(60°-80°)	14948.8	45.9			G5
FVH	(80°-90°)	326.6	1.0			G3/500
BL	(0°-30°)	881.2	2.7	B2/1000		
BM	(30°-60°)	1675.4	5.1	B2/2500		
BH	(60°-80°)	784.0	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
Type IV Short



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REPORT NUMBER: P323044
CATALOG NUMBER: GLEON-SA0B-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	*3264.2*	3264.2	3264.2	3264.2	3264.2
2.5°	3626.2	3621.6	3600.2	3591.1	3539.1	3508.6	*3496.4*	3458.2	3403.2	3348.2	3287.1
5°	4038.6	4037.1	3997.4	3959.2	3861.4	3769.8	*3753.0*	3664.4	3540.7	3424.6	3308.5
7.5°	4460.2	4440.3	4400.6	4327.3	4185.3	4038.6	*4024.9*	3899.6	3724.0	3555.9	3389.4
10°	4817.6	4805.4	4753.5	4642.0	4475.5	4309.0	*4292.2*	4137.9	3939.3	3733.1	3520.8
12.5°	5095.6	5086.5	5017.7	4878.7	4701.5	4528.9	*4506.0*	4368.6	4156.2	3925.6	3675.1
15°	5265.2	5260.6	5176.6	5028.4	4854.3	4704.6	*4684.7*	4564.1	4367.0	4125.7	3843.1
17.5°	5304.9	5306.4	5219.3	5069.7	4926.1	4819.2	*4803.9*	4712.2	4547.3	4307.5	4011.1
20°	5216.3	5234.6	5156.7	5026.9	4938.3	4881.8	*4869.6*	4814.6	4675.6	4449.5	4145.5
22.5°	5091.0	5100.2	5046.7	4959.7	4923.0	4933.7	*4927.6*	4897.1	4779.4	4571.7	4278.4
25°	5014.7	5014.7	4982.6	4909.3	4933.7	4999.4	*5000.9*	4994.8	4901.6	4721.4	4440.3
27.5°	5011.6	5002.4	4965.8	4910.8	4978.0	5078.8	*5084.9*	5126.2	5068.1	4903.2	4642.0
30°	5133.8	5123.1	5045.2	4973.4	5059.0	5167.4	*5182.7*	5272.8	5243.8	5100.2	4866.5
32.5°	5419.4	5381.3	5208.7	5091.0	5155.2	5285.0	*5304.9*	5448.5	5494.3	5343.1	5083.4
35°	5810.5	5689.8	5440.8	5314.1	5320.2	5456.1	*5474.4*	5685.2	5821.2	5566.1	5251.4
37.5°	6349.7	6290.1	5885.3	5546.2	5573.7	5779.9	*5833.4*	6062.5	6024.3	5688.3	5442.4
40°	7531.9	7438.8	7008.0	6196.9	5816.6	6042.7	*6059.5*	6181.7	6184.7	5964.8	5839.5
42.5°	9141.9	9103.7	8650.0	7377.7	6294.7	6218.3	*6248.9*	6455.1	6685.7	6548.2	6542.1
45°	10924.4	10904.6	10423.4	8944.8	7261.6	6794.2	*6832.4*	7108.8	7550.3	7580.8	7774.8
47.5°	12358.7	12349.6	12073.1	10693.8	8741.7	7770.2	*7782.4*	8075.7	8851.7	9235.1	9545.1
50°	13666.2	13710.5	13492.1	12586.3	10757.9	9299.2	*9270.2*	9465.7	10712.1	11339.9	11724.8
52.5°	15483.9	15546.5	14934.0	14352.1	12873.5	11196.3	*11173.4*	11378.1	12948.3	13418.8	13487.5
55°	17089.3	16982.4	16498.2	16330.1	15453.4	13539.5	*13533.3*	13713.6	15111.2	15311.3	15438.1
57.5°	17798.0	17756.8	17990.5	18375.4	18155.5	16308.7	*16295.0*	16157.5	17046.5	17067.9	17457.4
60°	18245.6	18296.0	19012.4	20199.2	20747.6	19288.8	*19200.2*	18361.7	18894.7	18847.4	19264.4
62.5°	17909.5	18008.8	19298.0	21276.1	22687.4	21890.1	*21764.9*	20381.0	20474.1	20310.7	20698.7
65°	16125.5	16279.7	18392.2	21072.9	23649.7	23923.2	*23796.4*	22163.5	21728.2	21459.4	21244.0
67.5°	13093.4	13185.1	15390.7	19305.6	23215.9	25136.0	*25110.0*	23726.1	22675.2	21265.4	19594.3
69°	*10820.6*	*10910.7*	*13033.9*	*17445.2*	*22261.3*	*25395.6*	*25446.0*	*24227.1*	*22495.0*	*20086.2*	*17361.2*
70°	9164.8	9261.0	11239.1	15850.5	21153.9	25275.0	*25365.1*	24179.8	21978.7	18720.6	15401.4
72.5°	4806.9	4889.4	6919.4	10919.9	17245.1	23208.3	*23481.7*	22136.0	18630.5	13596.0	9106.7
75°	1510.7	1558.0	2702.1	5708.1	11807.3	18045.5	*18108.1*	17364.2	13229.4	7478.5	3792.7
77.5°	575.9	562.1	899.7	2103.3	5969.3	11362.8	*11746.2*	10851.1	6942.3	2644.0	875.2
80°	310.1	311.6	467.4	870.7	2553.9	5839.5	*6163.3*	5259.1	2466.9	824.8	201.6
82.5°	134.4	140.5	262.7	461.3	1173.1	2153.7	*2315.6*	1927.7	942.4	554.5	74.8
85°	29.0	32.1	126.8	250.5	478.1	604.9	*633.9*	624.7	600.3	430.7	29.0
87.5°	0.0	0.0	56.5	90.1	120.7	137.5	*120.7*	157.3	331.5	290.2	15.3
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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REPORT NUMBER: P323044
CATALOG NUMBER: GLEON-SA0B-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2
2.5°	3267.2	3239.8	3192.4	3140.5	3103.8	3065.6	3035.1	3021.3	3006.1	2995.4	3009.1
5°	3261.1	3207.7	3116.0	3027.4	2963.3	2911.3	2868.6	2851.8	2835.0	2822.8	2821.2
7.5°	3314.6	3239.8	3099.2	2969.4	2870.1	2799.8	2741.8	2717.4	2697.5	2688.3	2680.7
10°	3416.9	3320.7	3132.8	2963.3	2835.0	2715.8	2590.6	2494.4	2431.7	2402.7	2392.0
12.5°	3549.8	3429.2	3197.0	2995.4	2809.0	2579.9	2314.1	2085.0	1936.8	1887.9	1858.9
15°	3705.6	3555.9	3281.0	3036.6	2714.3	2295.8	1845.2	1545.8	1408.3	1380.8	1350.3
17.5°	3855.3	3690.4	3381.8	3044.2	2506.6	1834.5	1351.8	1148.7	1095.2	1113.5	1118.1
20°	3986.7	3823.2	3481.1	2977.0	2129.3	1376.2	1046.3	995.9	1015.8	1050.9	1057.0
22.5°	4119.6	3951.6	3572.7	2799.8	1646.6	1044.8	942.4	954.7	974.5	1009.7	1015.8
25°	4281.5	4107.4	3658.3	2474.5	1235.7	889.0	895.1	913.4	933.3	965.4	968.4
27.5°	4467.8	4304.4	3714.8	2051.4	916.5	817.2	837.1	864.5	884.4	915.0	921.1
30°	4715.3	4564.1	3733.1	1613.0	768.3	753.0	762.2	795.8	824.8	852.3	856.9
32.5°	4947.5	4820.7	3672.0	1217.4	711.8	693.5	693.5	713.3	746.9	772.9	779.0
35°	5161.3	5078.8	3476.5	890.5	669.0	638.5	623.2	623.2	644.6	666.0	672.1
37.5°	5443.9	5440.8	3160.3	710.3	627.8	592.7	560.6	536.1	528.5	533.1	536.1
40°	5928.1	5932.7	2747.9	637.0	592.7	545.3	496.4	452.1	410.9	397.1	395.6
42.5°	6684.2	6615.5	2315.6	601.8	562.1	496.4	423.1	363.5	299.4	279.5	278.0
45°	7884.8	7476.9	1857.4	569.7	530.0	441.4	349.8	268.8	216.9	201.6	201.6
47.5°	9633.7	8608.8	1438.9	534.6	487.3	378.8	264.3	194.0	158.9	151.2	152.7
50°	11442.2	9717.7	1102.8	490.3	435.3	313.1	195.5	140.5	120.7	120.7	122.2
52.5°	13046.1	10530.3	860.0	443.0	371.2	245.9	148.2	110.0	100.8	99.3	100.8
55°	14547.6	11054.3	658.3	388.0	294.8	183.3	113.0	90.1	84.0	81.0	79.4
57.5°	15995.6	11313.9	493.4	313.1	213.8	132.9	90.1	76.4	70.3	65.7	64.2
60°	16959.4	11103.1	339.1	230.6	148.2	96.2	74.8	65.7	58.0	53.5	51.9
62.5°	17503.2	10527.3	218.4	166.5	105.4	71.8	59.6	55.0	44.3	39.7	39.7
65°	17283.3	9577.2	152.7	119.1	76.4	53.5	44.3	44.3	32.1	26.0	24.4
67.5°	15315.9	8091.0	116.1	88.6	55.0	39.7	33.6	38.2	19.9	12.2	12.2
69°	*13177.4*	*6705.6*	*99.3*	*73.3*	*45.8*	*32.1*	*29.0*	*35.1*	*13.7*	*9.2*	*7.6*
70°	11452.9	5784.5	90.1	64.2	38.2	27.5	26.0	33.6	13.7	7.6	6.1
72.5°	6852.2	3226.0	68.7	45.8	24.4	21.4	21.4	38.2	13.7	7.6	6.1
75°	2769.3	1136.4	50.4	32.1	18.3	18.3	26.0	48.9	12.2	6.1	4.6
77.5°	627.8	249.0	29.0	19.9	12.2	18.3	30.5	38.2	7.6	3.1	0.0
80°	152.7	61.1	18.3	12.2	7.6	13.7	22.9	21.4	1.5	0.0	0.0
82.5°	50.4	21.4	7.6	6.1	1.5	4.6	10.7	6.1	0.0	0.0	0.0
85°	21.4	12.2	3.1	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0
87.5°	13.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

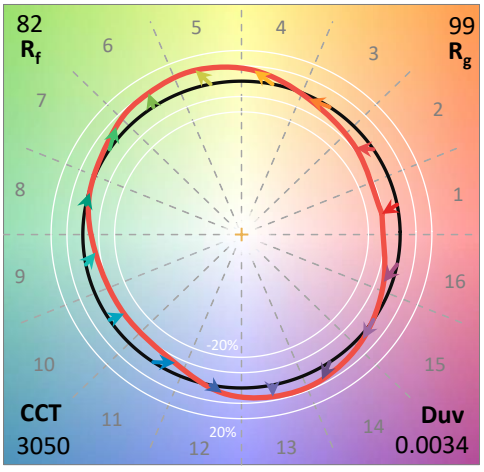
Test Information

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

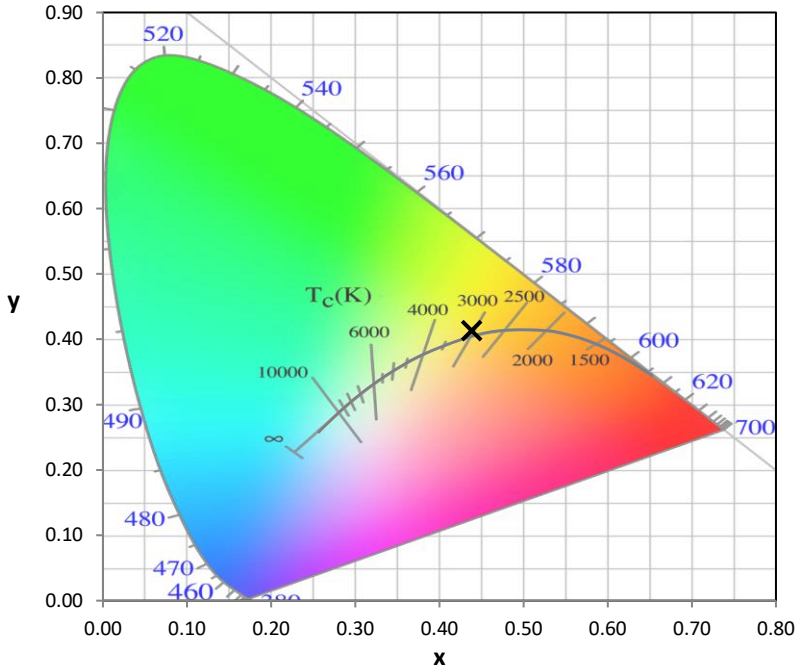
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

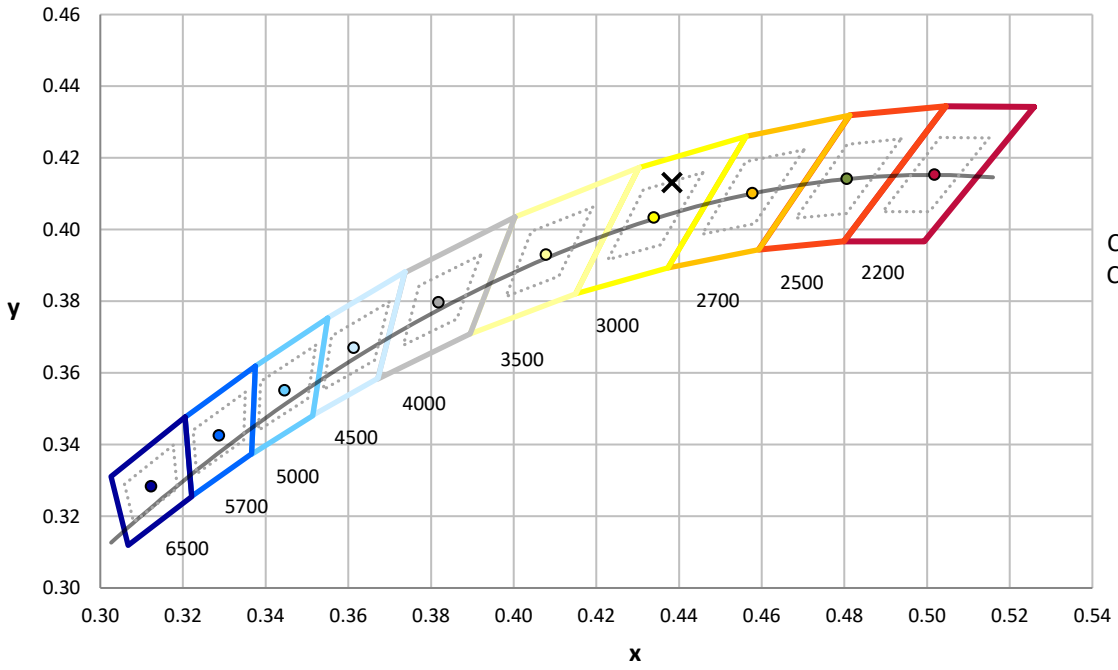
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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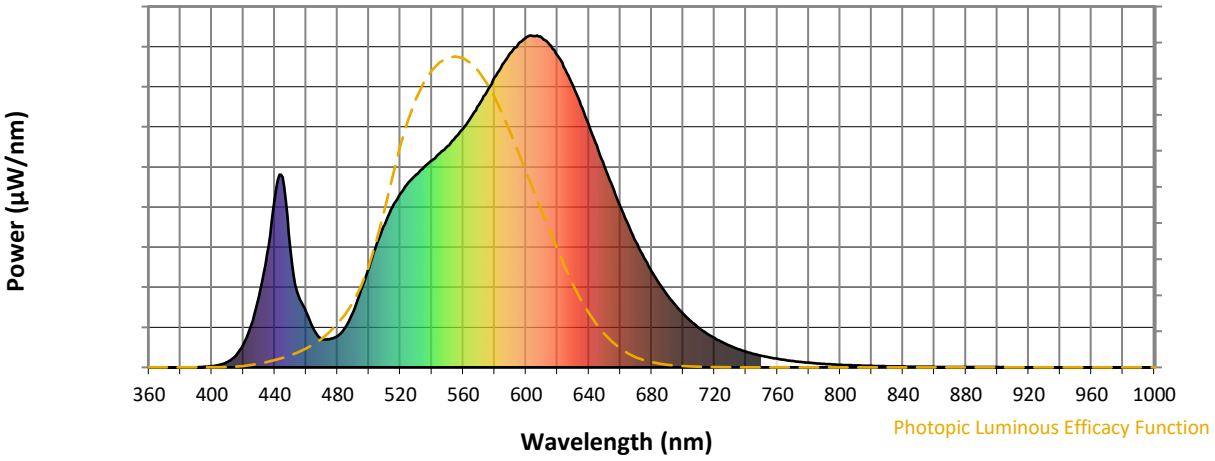
Photopic Flux vs. Wavelength



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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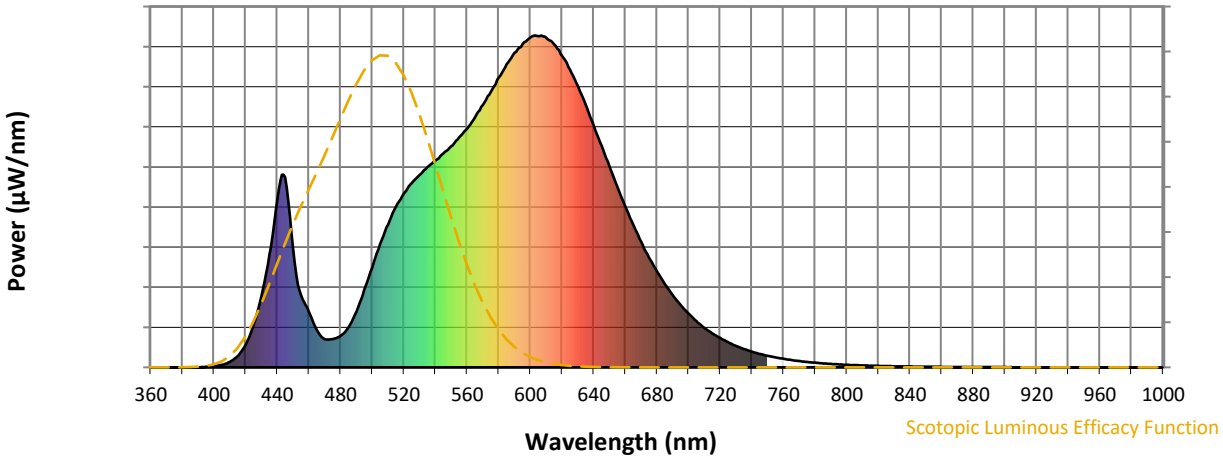
Scotopic Flux vs. Wavelength



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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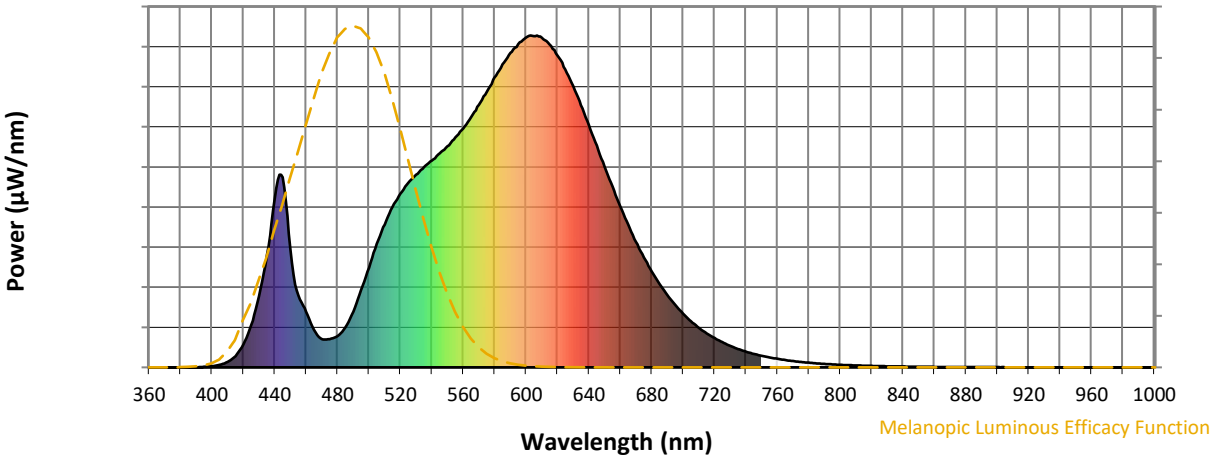
Melanopic Flux vs. Wavelength



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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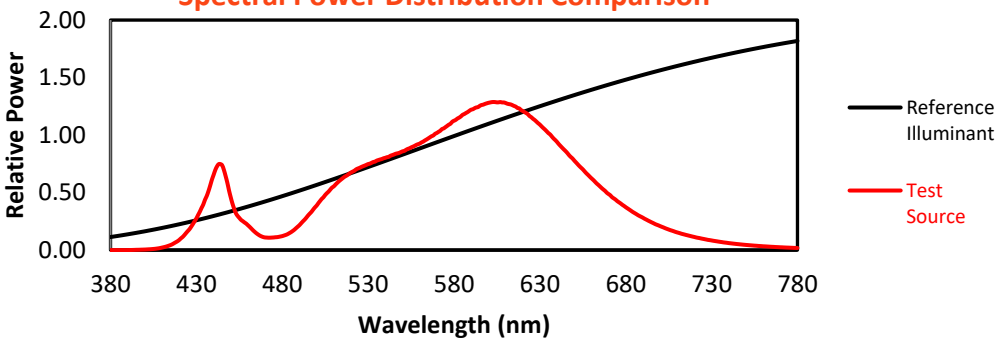
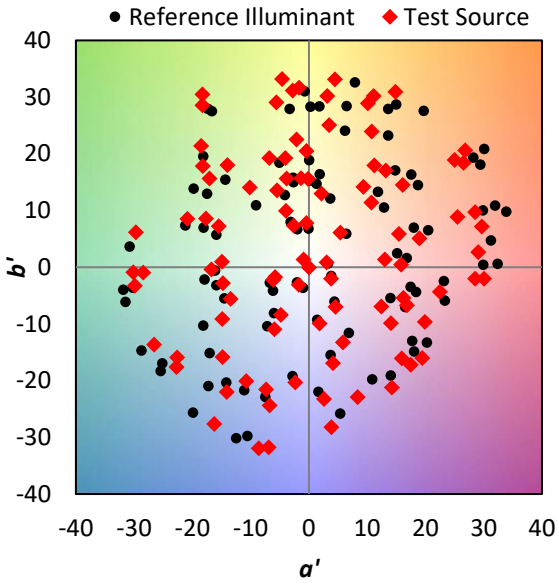
Summary

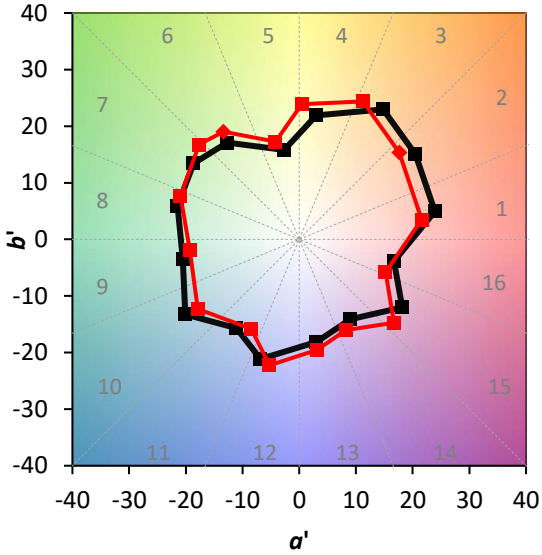
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

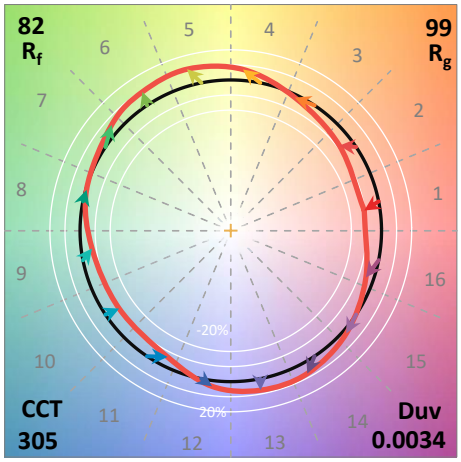
Spectral Power Distribution Comparison

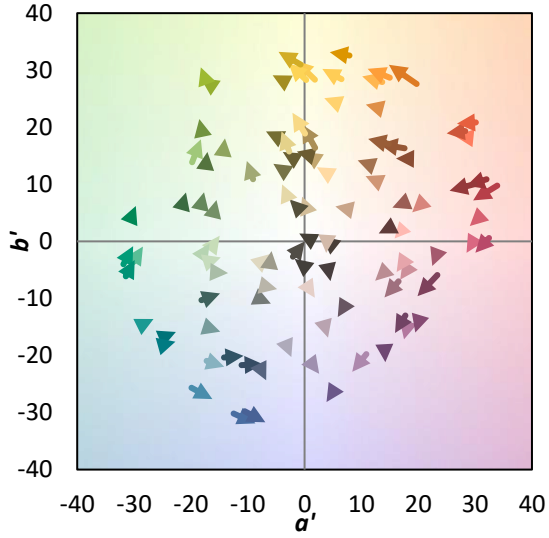


Color Vector Graphics









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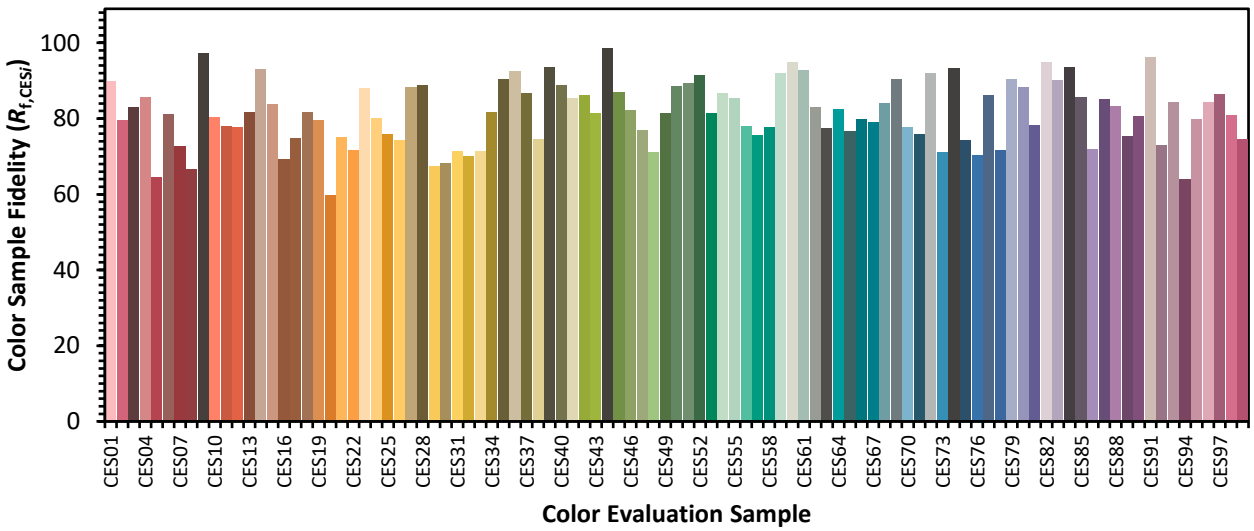
Individual Sample Fidelity Index ($R_{f,i}$)

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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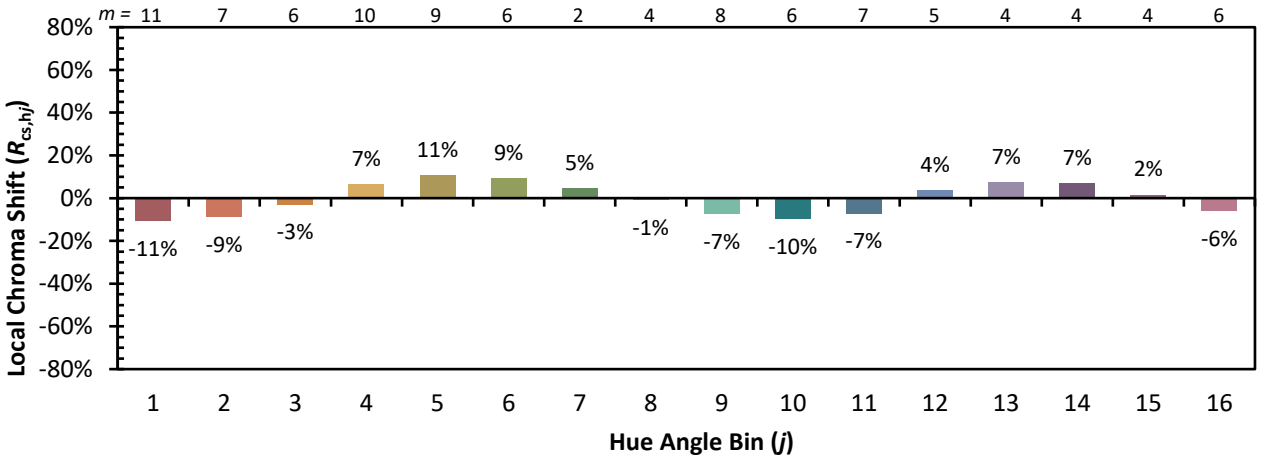
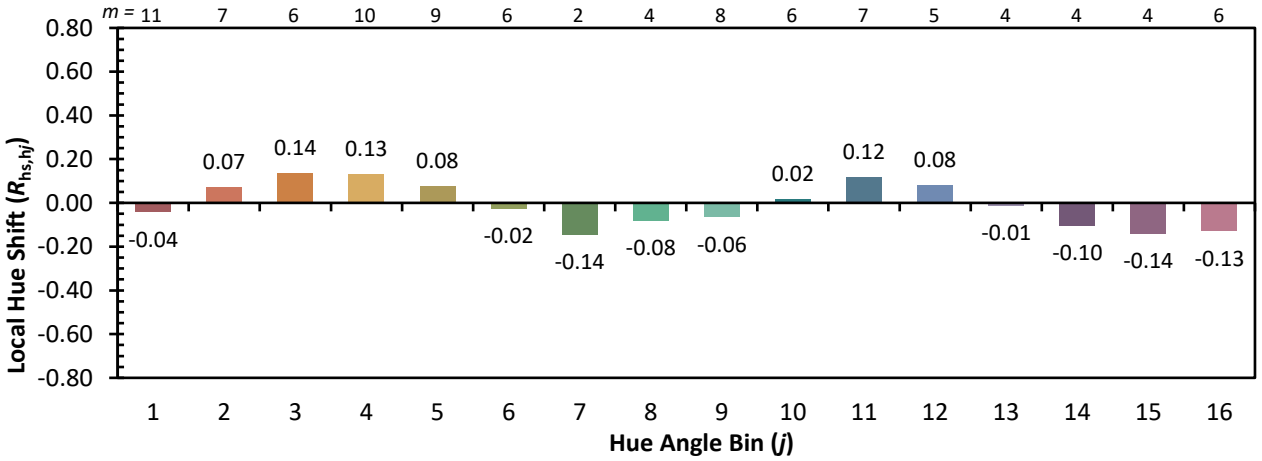
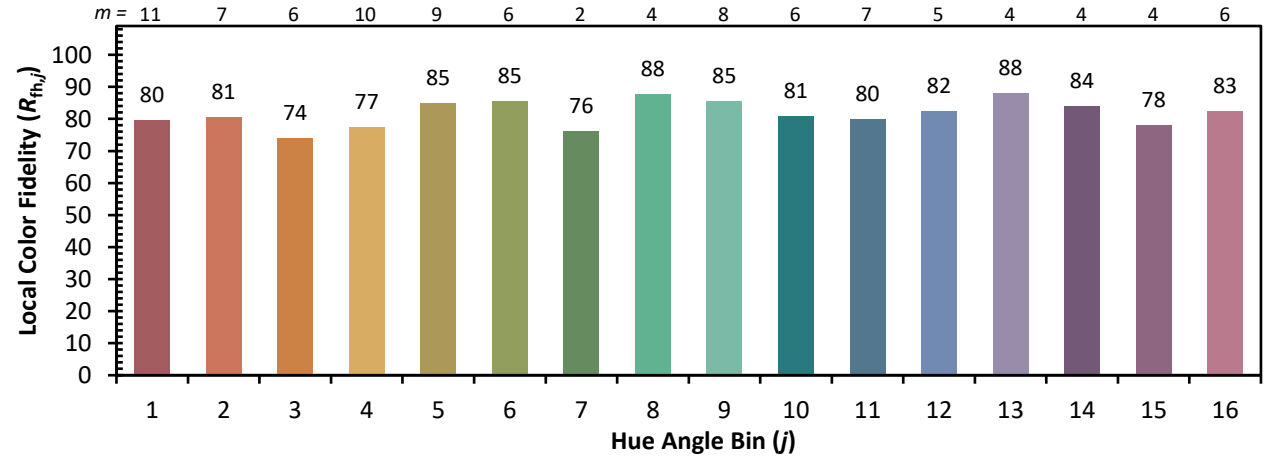
Color Rendition by Hue-Angle Bin







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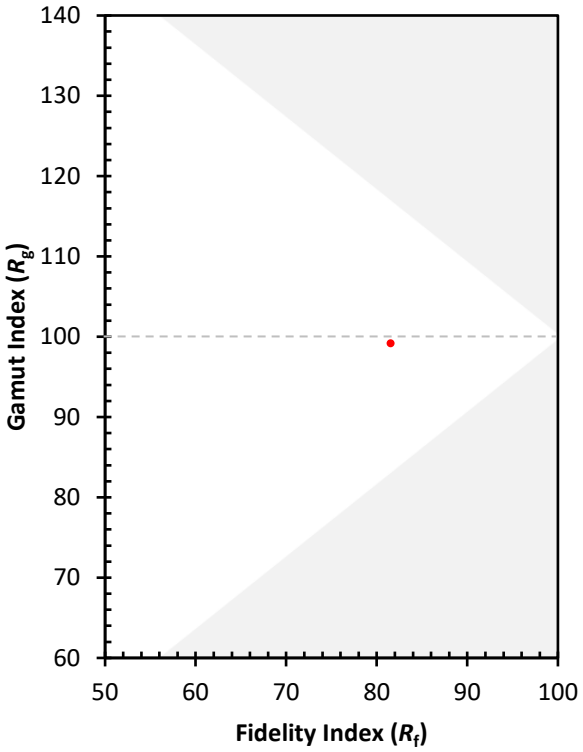
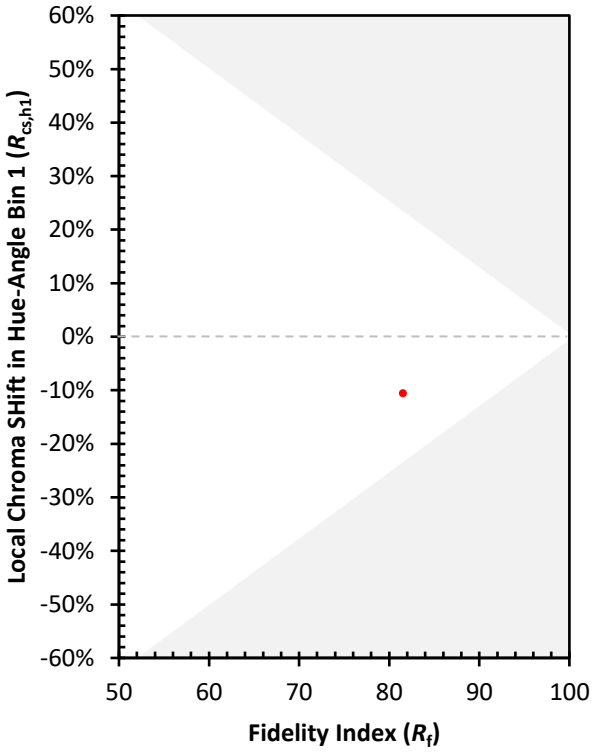
Measure Comparisons





(END OF REPORT)