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: P324018

Luminaire Tested: **GLEON-SA4D-830-U-SL4-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:	P324018
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA4D-830-U-SL4-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
	SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	20186 lumens
Efficiency:	N/A
Efficacy:	78.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G4

Input Watts (W):	258
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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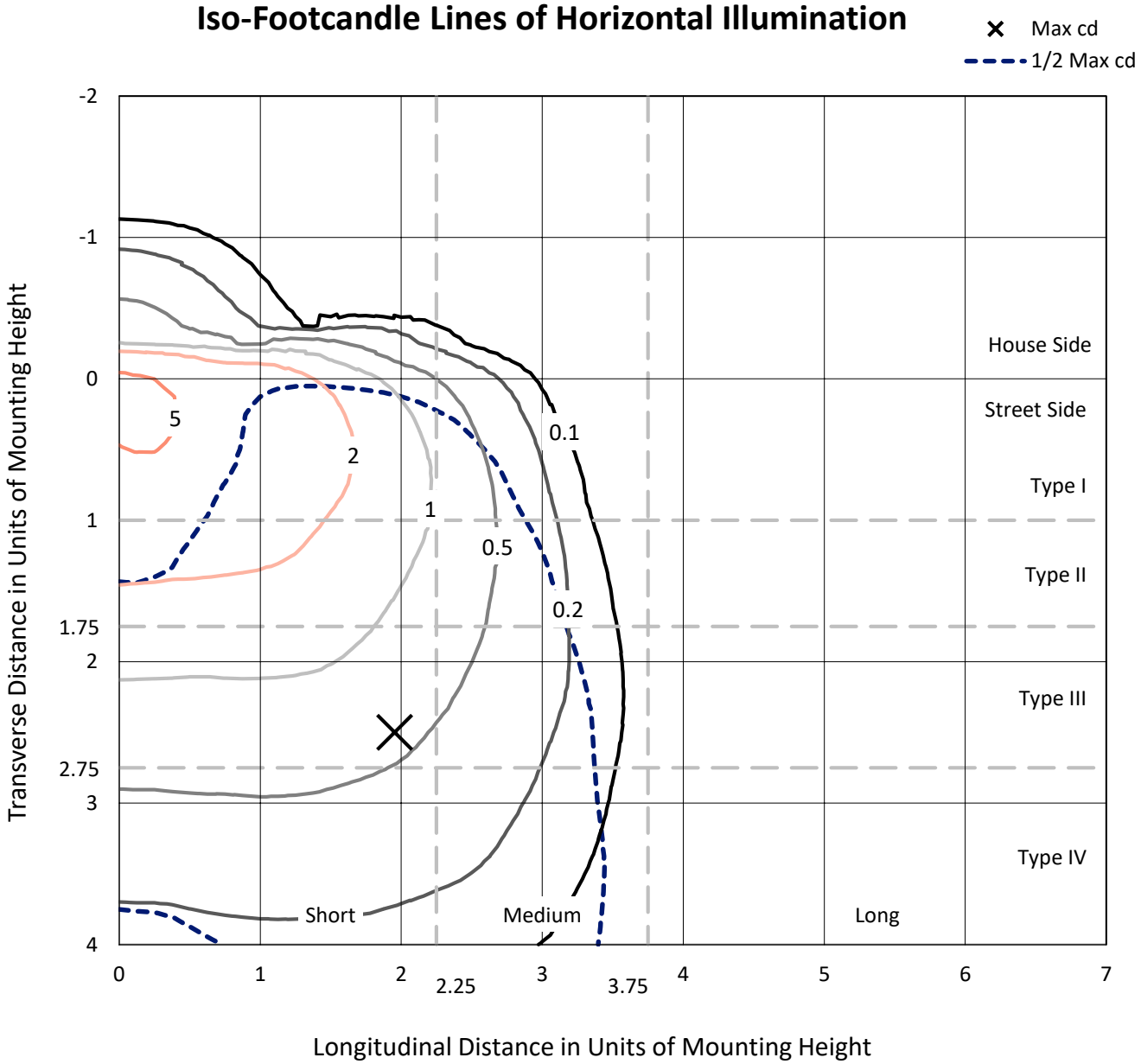
Scaled Data Report

REPORT NUMBER: P324018
CATALOG NUMBER: GLEON-SA4D-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
Type IV - Short - N/A

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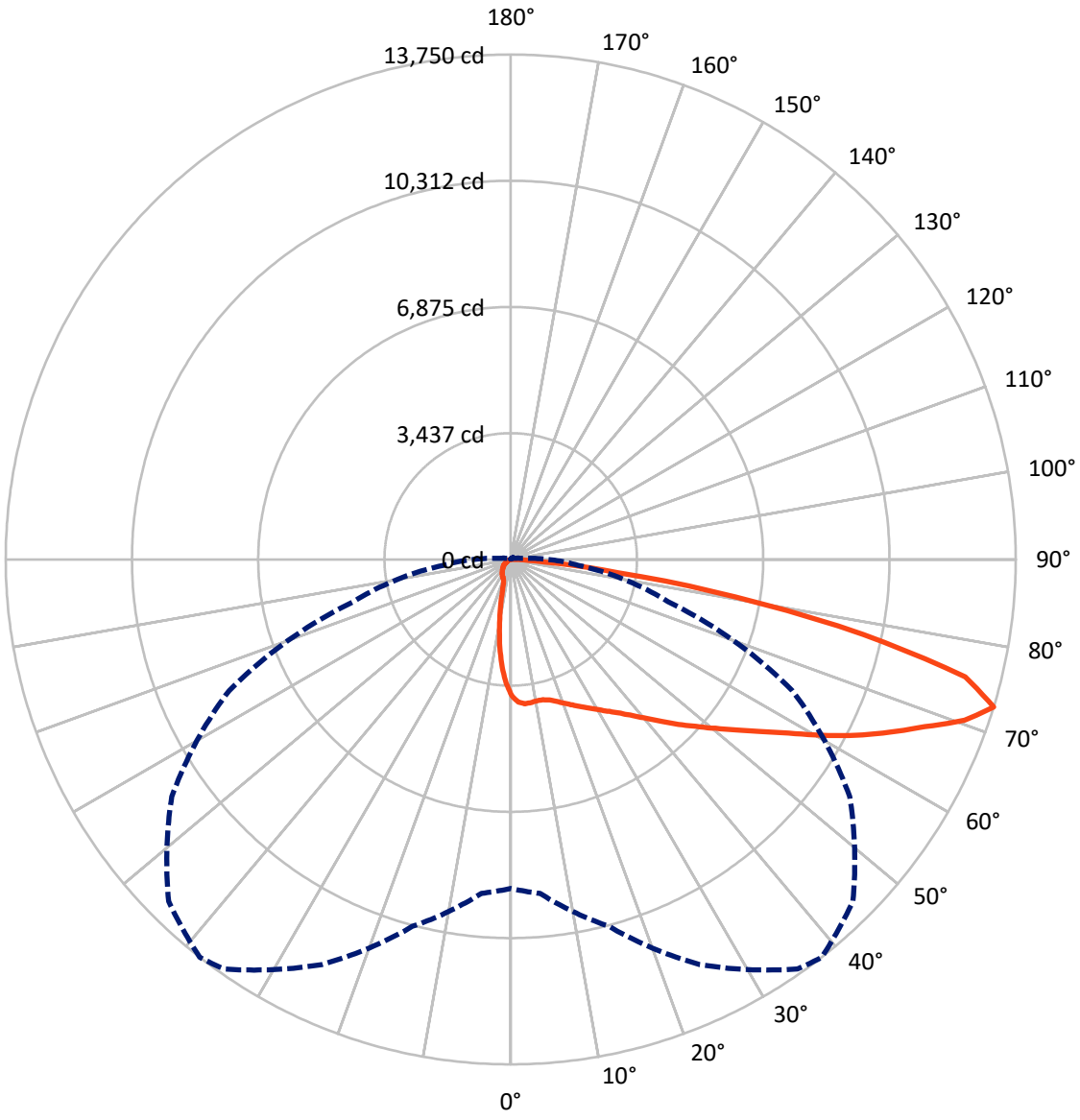
Luminous Intensity Polar Plot



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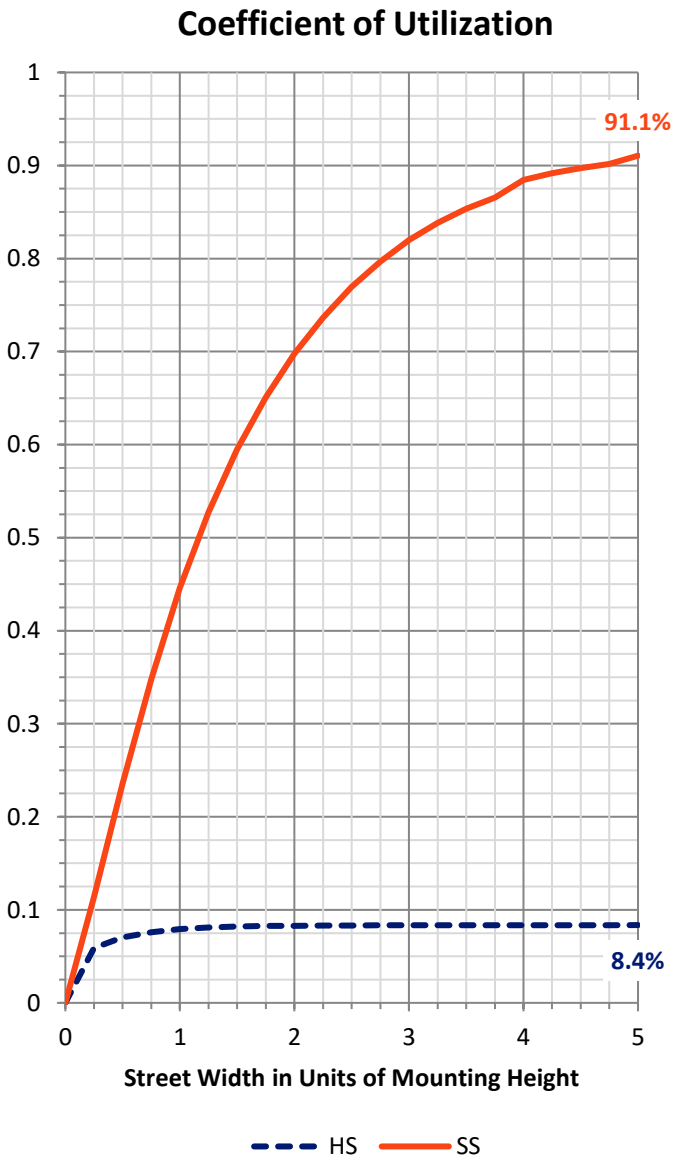
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1698.7	0.0	1698.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	18487.3	0.0	18487.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	20186.0	0.0	20186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.3	1.6
10°-20°	773.5	3.8
20°-30°	1230.3	6.1
30°-40°	1849.6	9.2
40°-50°	2821.7	14.0
50°-60°	3988.0	19.8
60°-70°	5002.3	24.8
70°-80°	3740.3	18.5
80°-90°	463.8	2.3
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°	20186.0	100.0
0°-180°	20186.0	100.0



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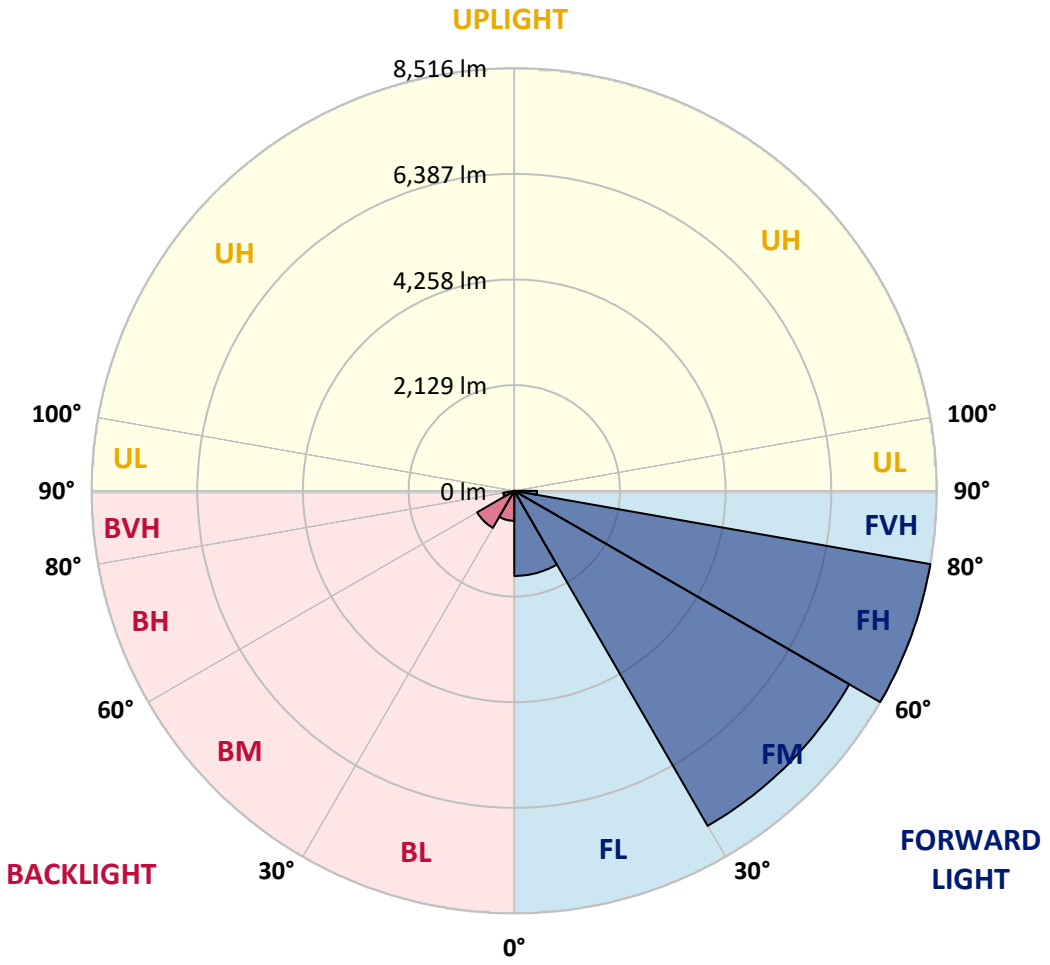
REPORT NUMBER: P324018
CATALOG NUMBER: GLEON-SA4D-830-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1715.3	8.5			
FM	(30°-60°)	7796.7	38.6			
FH	(60°-80°)	8515.8	42.2			G4/12000
FVH	(80°-90°)	459.5	2.3			G3/500
BL	(0°-30°)	604.9	3.0	B2/1000		
BM	(30°-60°)	862.6	4.3	B1/1000		
BH	(60°-80°)	226.9	1.1	B1/500		G1/500
BVH	(80°-90°)	4.3	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-G4
Type IV Short



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Scaled Data Report

REPORT NUMBER: P324018
CATALOG NUMBER: GLEON-SA4D-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3712.1	3712.1	3712.1	3712.1	3712.1	3712.1	3712.1	3712.1	3712.1	3712.1	3712.1
2.5°	3940.2	3941.0	3931.8	3916.7	3897.4	3887.4	3870.6	3843.8	3815.3	3764.1	3708.8
5°	4020.6	4020.6	4008.9	3988.8	3957.8	3948.5	3916.7	3873.9	3815.3	3732.3	3639.2
7.5°	4012.3	4013.9	3998.0	3977.1	3946.0	3937.7	3899.1	3851.3	3778.4	3677.8	3558.7
10°	3968.7	3972.9	3960.3	3950.2	3921.7	3912.5	3876.5	3828.7	3755.7	3648.4	3511.8
12.5°	3924.2	3928.4	3932.6	3941.8	3924.2	3920.9	3892.4	3852.1	3782.6	3671.1	3516.8
15°	3895.7	3904.1	3934.3	3970.3	3974.5	3971.2	3952.7	3915.0	3844.6	3728.9	3552.9
17.5°	3895.7	3909.1	3972.0	4040.8	4065.1	4067.6	4051.7	3998.8	3915.0	3790.9	3586.4
20°	3928.4	3946.9	4045.0	4142.2	4182.4	4182.4	4151.4	4077.7	3979.6	3847.1	3609.0
22.5°	4012.3	4036.6	4159.8	4272.1	4314.9	4305.7	4263.8	4156.5	4046.6	3910.8	3637.5
25°	4177.4	4195.9	4324.1	4437.3	4463.3	4442.3	4389.5	4252.0	4132.1	3997.2	3689.5
27.5°	4390.4	4392.9	4525.3	4620.9	4605.0	4590.7	4524.5	4371.9	4255.4	4120.4	3779.2
30°	4624.2	4624.2	4740.8	4813.7	4765.1	4753.3	4687.1	4516.9	4413.0	4288.1	3906.6
32.5°	4850.6	4860.7	4955.4	5001.5	4947.0	4935.3	4870.7	4700.5	4622.6	4543.8	4105.3
35°	5069.4	5076.9	5166.6	5191.8	5139.8	5143.2	5097.1	4952.9	4923.5	4913.5	4404.6
37.5°	5281.5	5283.2	5374.6	5390.5	5364.5	5393.0	5397.2	5269.8	5324.3	5405.6	4826.3
40°	5475.2	5476.8	5567.4	5608.4	5652.9	5689.8	5722.5	5654.6	5834.8	6023.4	5328.4
42.5°	5630.2	5647.8	5762.7	5840.7	5958.0	6028.5	6117.3	6114.0	6442.6	6725.9	5935.4
45°	5766.9	5797.1	5957.2	6093.8	6295.0	6407.4	6546.5	6655.5	7126.7	7508.1	6549.9
47.5°	5947.1	5975.6	6158.4	6382.2	6650.5	6798.0	7028.6	7264.2	7878.7	8276.0	7150.1
50°	6201.1	6188.6	6368.8	6689.9	7034.5	7228.1	7556.7	7909.7	8624.8	8945.0	7503.1
52.5°	6471.9	6466.9	6600.2	7024.4	7487.2	7713.5	8147.8	8577.0	9338.2	9406.1	7664.9
55°	6807.3	6771.2	6883.6	7405.8	8024.5	8267.6	8779.0	9237.6	9906.6	9666.0	7746.2
57.5°	7158.5	7099.0	7206.3	7830.9	8630.6	8918.2	9478.2	9881.4	10284.7	9843.7	7745.4
60°	7521.5	7451.1	7578.5	8362.4	9383.5	9716.3	10236.0	10316.5	10637.6	9933.4	7688.4
62.5°	7825.0	7783.1	7972.5	8930.8	10224.3	10551.3	10808.6	10712.2	10935.2	10003.0	7555.1
65°	8146.1	8148.6	8454.6	9593.9	11118.0	11338.5	11360.3	11225.3	11184.2	9988.7	7104.0
67.5°	8580.3	8620.6	9131.1	10494.3	11987.3	12157.5	12155.8	11781.1	11366.1	9422.0	6103.9
70°	9039.7	9134.5	9910.8	11524.6	12936.3	13109.0	13020.2	12134.9	10702.2	7618.8	4319.9
72.5°	8962.6	9126.9	10344.2	12174.3	13617.9	13749.5	13171.9	11265.5	8458.8	4428.1	1839.3
75°	6914.6	7104.9	9484.9	11530.4	12902.8	12784.6	11317.5	8766.4	4622.6	1235.7	414.1
77.5°	3652.6	3754.1	6265.7	8784.1	10060.8	9813.5	7972.5	4863.2	1409.2	306.0	186.1
80°	1913.1	1936.5	2730.5	4983.9	6209.5	6211.2	4724.8	2136.1	581.0	156.8	124.9
82.5°	1024.4	1044.6	1442.8	2302.9	3253.6	2949.3	1809.1	1175.3	337.8	88.9	119.9
85°	246.5	250.7	818.2	1052.1	1279.3	913.8	537.4	986.7	91.4	52.0	97.2
87.5°	94.7	96.4	303.5	455.2	326.1	211.3	251.5	368.0	11.7	20.1	15.1
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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Scaled Data Report

REPORT NUMBER: P324018
CATALOG NUMBER: GLEON-SA4D-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3712.1	3712.1	3712.1	3712.1	3712.1	3712.1	3712.1	3712.1	3712.1	3712.1	3712.1
2.5°	3675.3	3653.5	3599.8	3531.9	3471.5	3427.9	3362.6	3319.8	3291.3	3290.5	3279.6
5°	3582.2	3537.8	3422.1	3284.6	3159.7	3047.3	2914.9	2810.1	2732.1	2719.6	2692.7
7.5°	3482.4	3409.5	3231.8	3017.2	2807.6	2594.6	2347.3	2193.9	2062.3	1999.4	1992.7
10°	3421.2	3319.0	3066.6	2756.4	2427.8	2081.6	1758.0	1534.1	1372.4	1326.2	1291.9
12.5°	3408.7	3273.7	2939.2	2511.6	2042.2	1584.4	1226.5	988.4	859.3	818.2	807.3
15°	3421.2	3252.7	2831.9	2269.4	1651.5	1124.2	823.2	684.9	636.3	624.6	623.7
17.5°	3428.8	3227.6	2710.3	2000.3	1272.6	803.1	630.4	590.2	582.6	581.8	583.5
20°	3427.9	3189.0	2565.3	1700.1	946.5	631.3	570.1	561.7	560.0	560.8	560.0
22.5°	3422.1	3143.7	2406.0	1390.8	715.1	564.2	544.1	539.0	538.2	538.2	538.2
25°	3433.0	3107.7	2230.8	1094.9	589.3	533.2	520.6	516.4	515.6	515.6	513.9
27.5°	3472.4	3087.6	2038.8	842.5	532.3	505.5	495.5	494.6	492.1	491.3	492.9
30°	3536.1	3087.6	1828.4	655.6	498.0	477.0	469.5	467.8	467.0	466.1	467.0
32.5°	3648.4	3111.1	1598.7	544.9	465.3	445.2	440.1	442.6	440.1	440.1	440.1
35°	3851.3	3181.5	1358.1	475.3	430.9	414.1	409.1	412.5	410.8	410.8	409.9
37.5°	4147.2	3312.3	1115.8	433.4	400.7	383.1	376.4	381.4	379.8	379.8	378.9
40°	4507.7	3502.6	885.3	401.6	371.4	352.9	347.1	349.6	345.4	345.4	347.1
42.5°	4952.9	3744.0	684.1	370.5	342.0	324.4	321.1	318.6	311.0	306.8	307.7
45°	5447.5	3995.5	533.2	340.4	314.4	300.1	295.1	288.4	275.8	267.4	268.3
47.5°	5889.3	4189.2	433.4	311.0	289.2	278.3	270.8	258.2	239.8	229.7	230.5
50°	6121.5	4218.5	368.9	281.7	265.8	254.9	244.0	224.7	202.9	192.0	191.1
52.5°	6181.0	4081.0	321.1	254.9	242.3	229.7	215.5	189.5	165.2	153.4	151.7
55°	6202.8	3871.4	278.3	229.7	217.1	202.9	184.4	155.1	132.5	120.7	119.9
57.5°	6130.7	3558.7	244.8	207.1	192.0	174.4	151.7	124.1	102.3	93.1	93.1
60°	5970.6	3135.4	218.8	182.8	166.0	145.9	122.4	96.4	76.3	68.7	68.7
62.5°	5651.2	2587.1	194.5	157.6	141.7	120.7	98.9	72.9	53.7	49.5	50.3
65°	5048.4	1962.5	170.2	135.0	120.7	99.8	77.1	52.0	36.0	36.0	37.7
67.5°	4117.1	1363.1	145.0	114.9	104.0	81.3	58.7	36.0	25.1	28.5	31.9
70°	2725.4	764.6	124.1	94.7	88.9	64.6	43.6	24.3	20.1	26.8	32.7
72.5°	*1028.6*	*297.6*	*104.0*	*76.3*	*77.1*	*49.5*	*31.0*	*18.4*	*18.4*	*29.3*	*38.6*
75°	286.7	145.9	74.6	56.2	60.4	36.0	22.6	15.9	17.6	33.5	45.3
77.5°	168.5	107.3	48.6	32.7	41.1	25.1	15.1	12.6	15.1	28.5	43.6
80°	135.8	57.0	28.5	16.8	22.6	14.3	10.1	7.5	4.2	10.9	22.6
82.5°	135.8	34.4	13.4	11.7	11.7	7.5	5.0	3.4	0.8	0.0	5.9
85°	91.4	14.3	8.4	7.5	5.9	2.5	1.7	0.8	0.0	0.0	0.0
87.5°	15.1	5.9	3.4	1.7	0.8	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

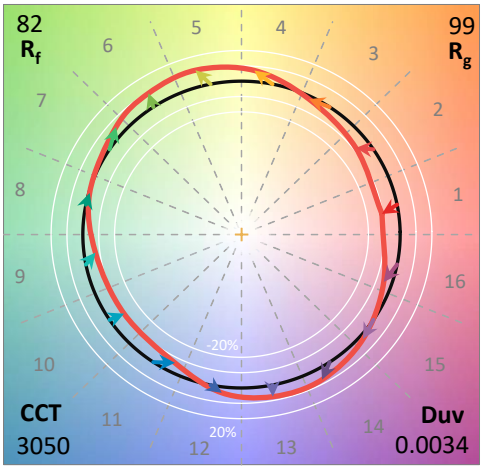
Test Information

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

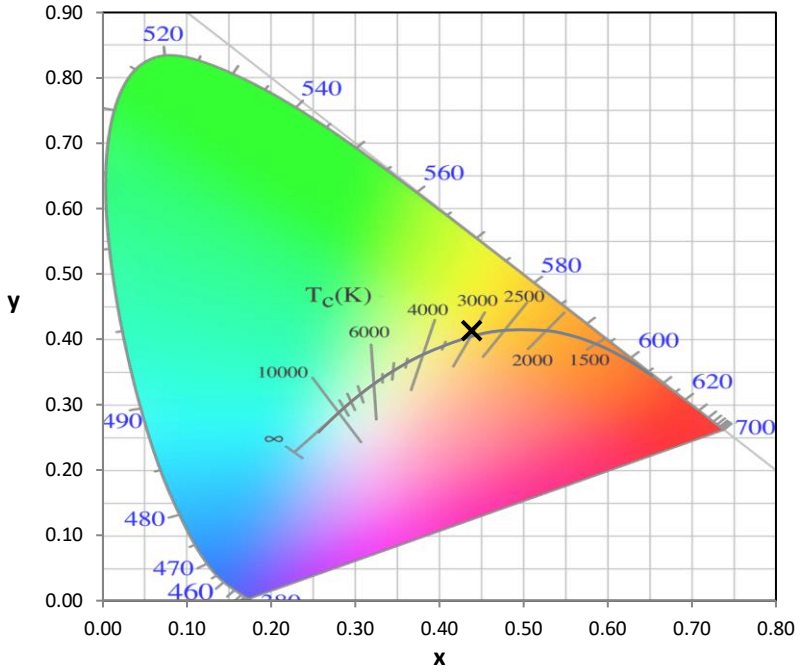
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

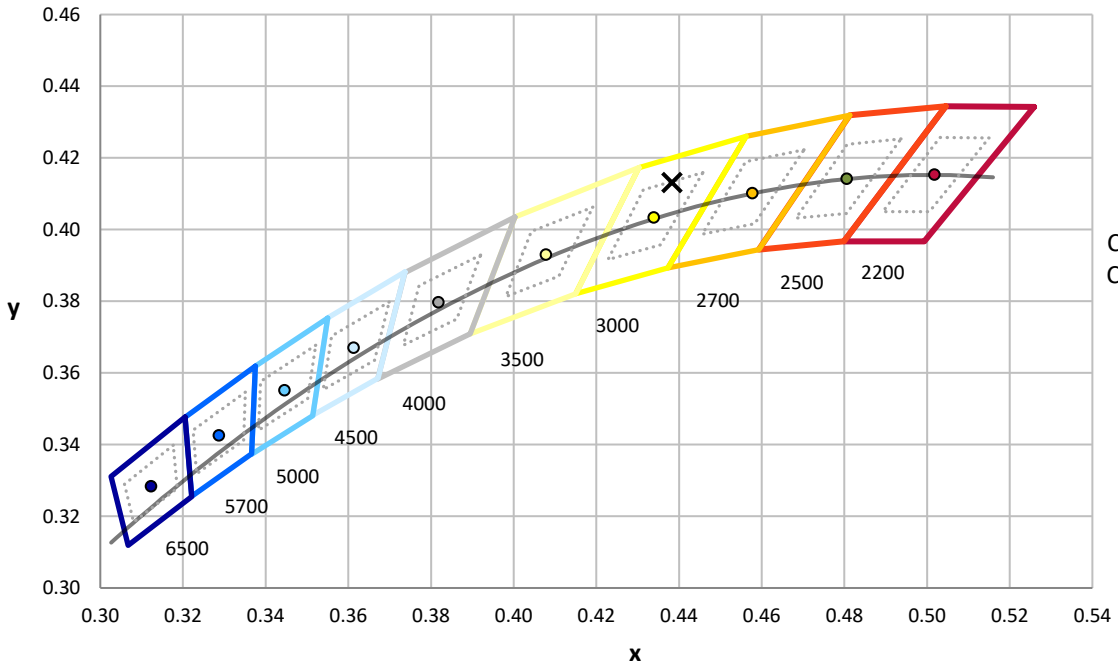
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

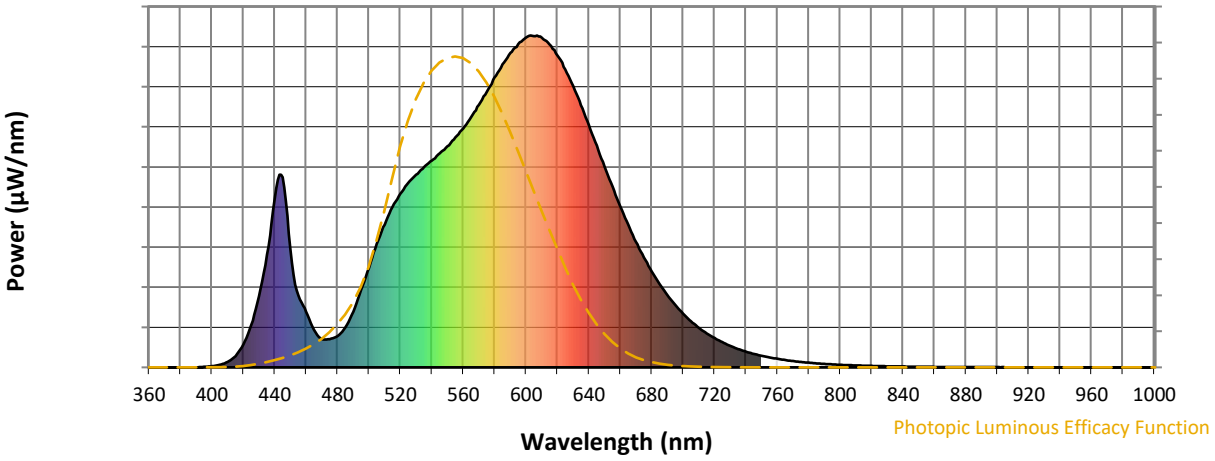


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

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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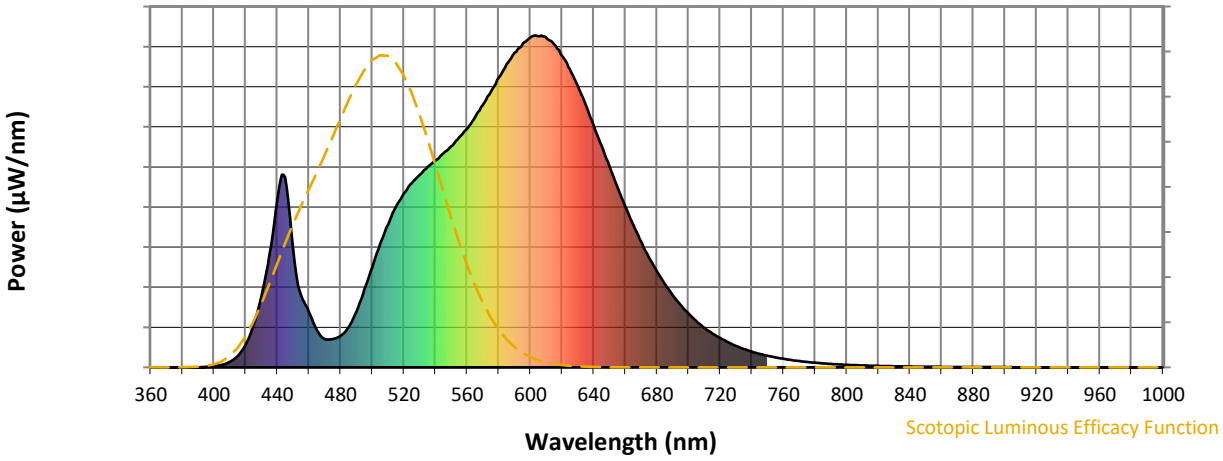
Scotopic Flux vs. Wavelength



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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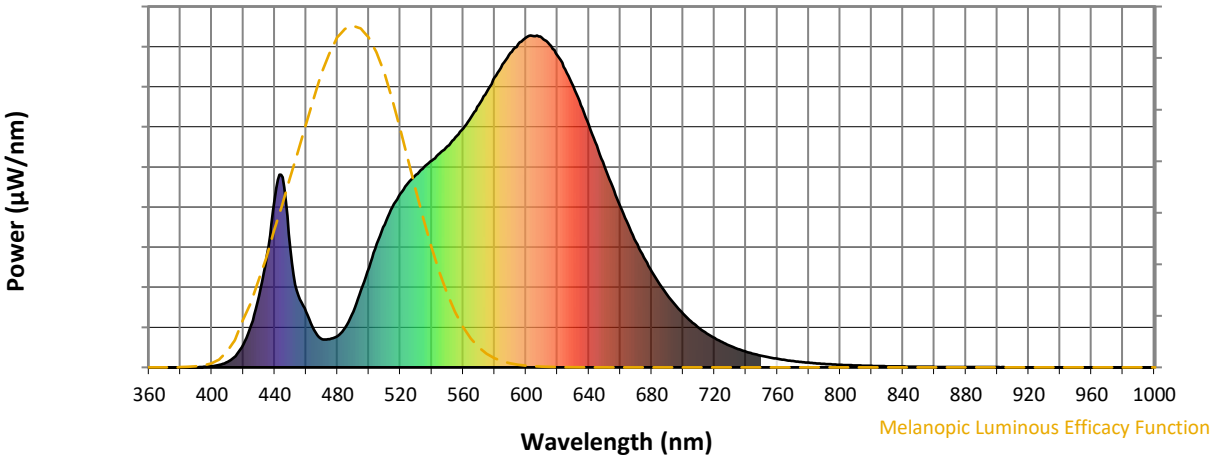
Melanopic Flux vs. Wavelength



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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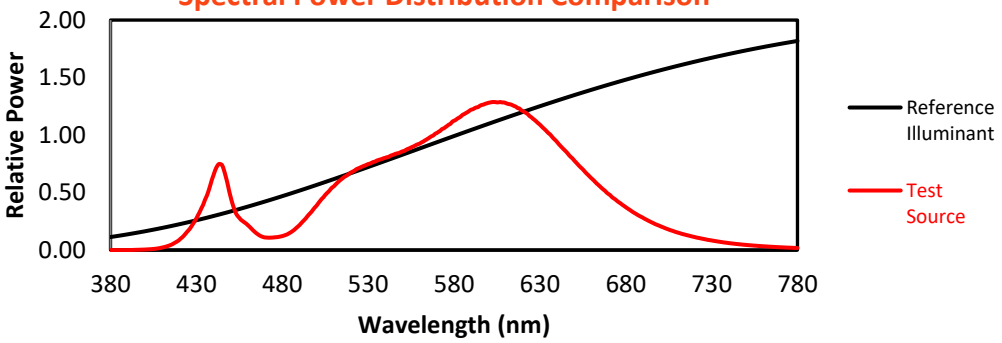
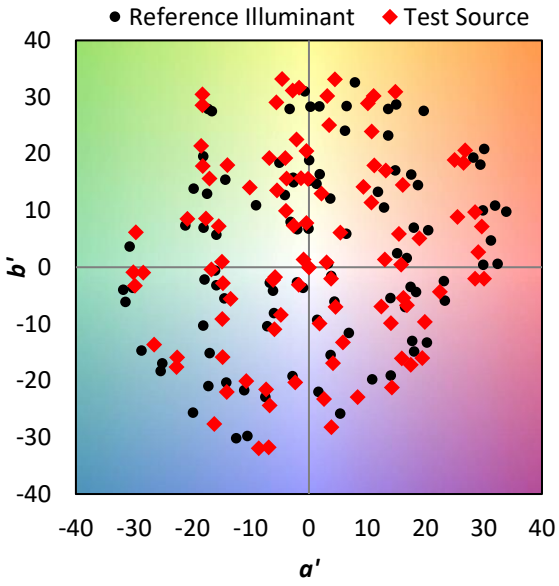
Summary

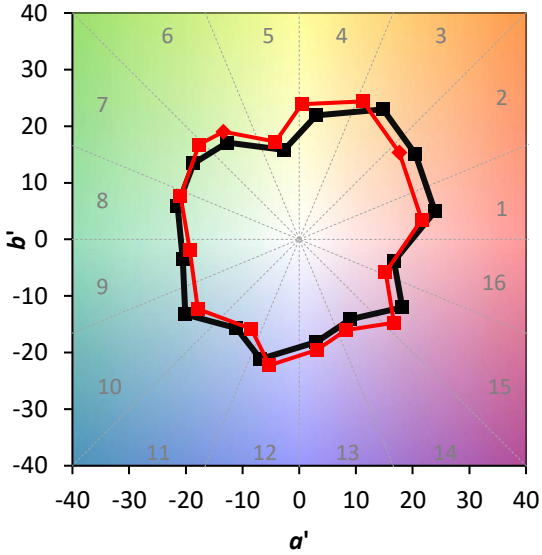
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

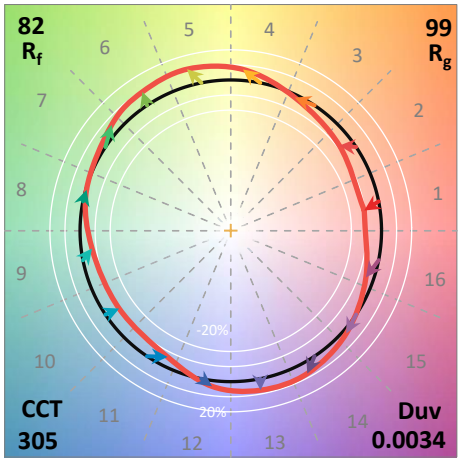
Spectral Power Distribution Comparison

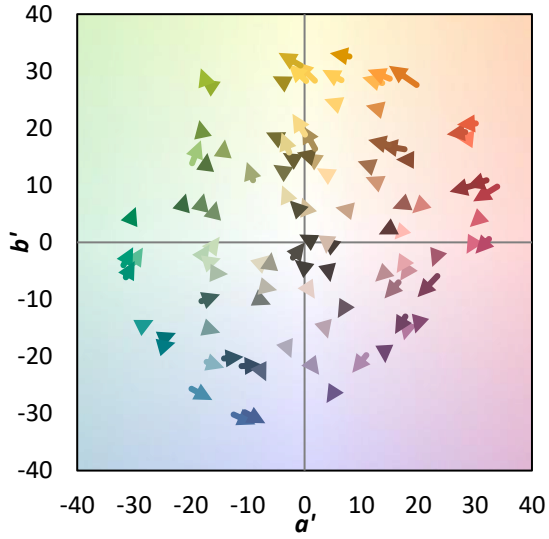


Color Vector Graphics









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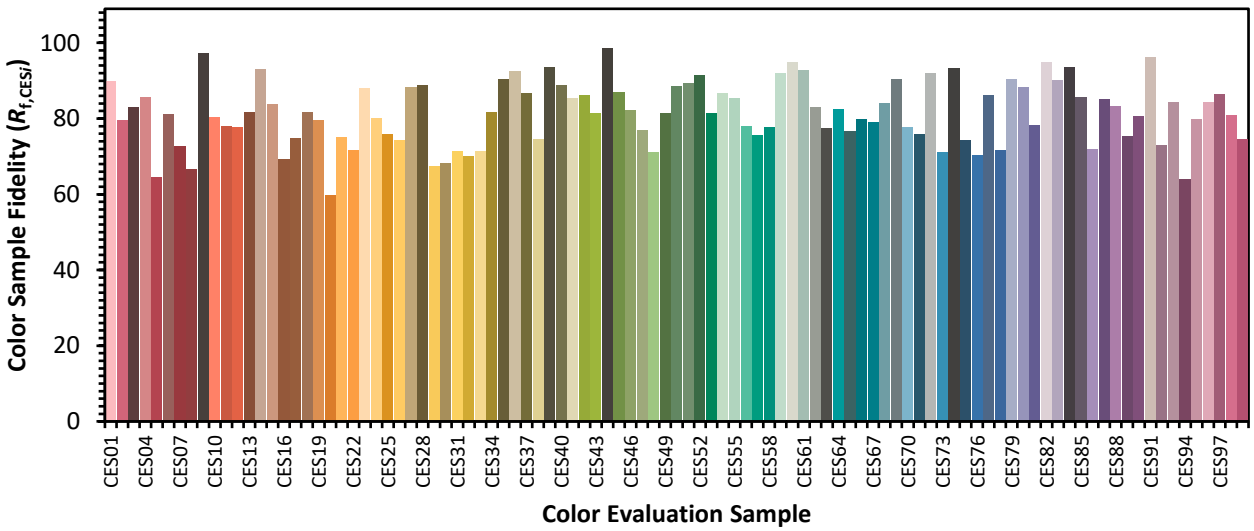
Individual Sample Fidelity Index ($R_{f,i}$)

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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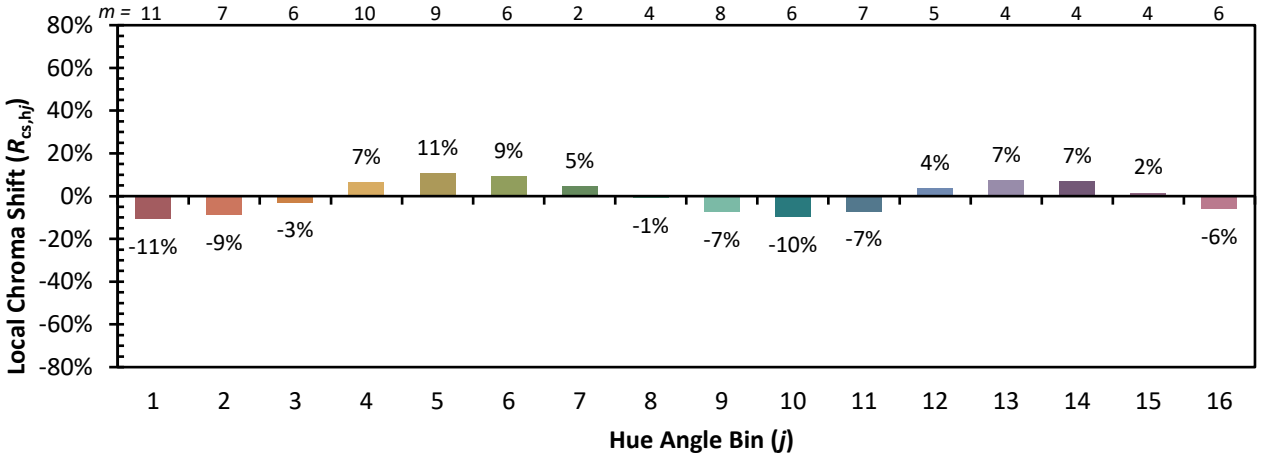
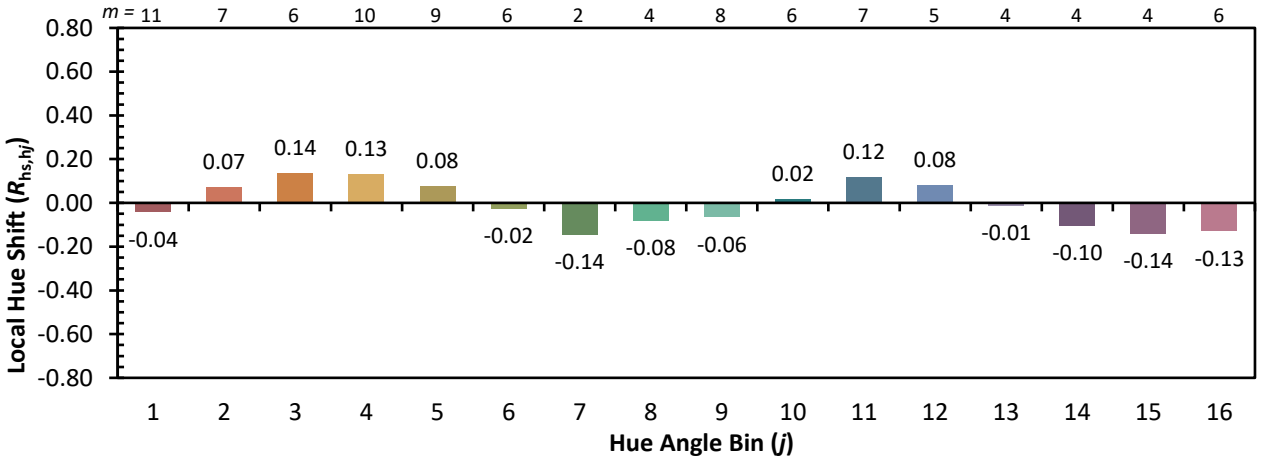
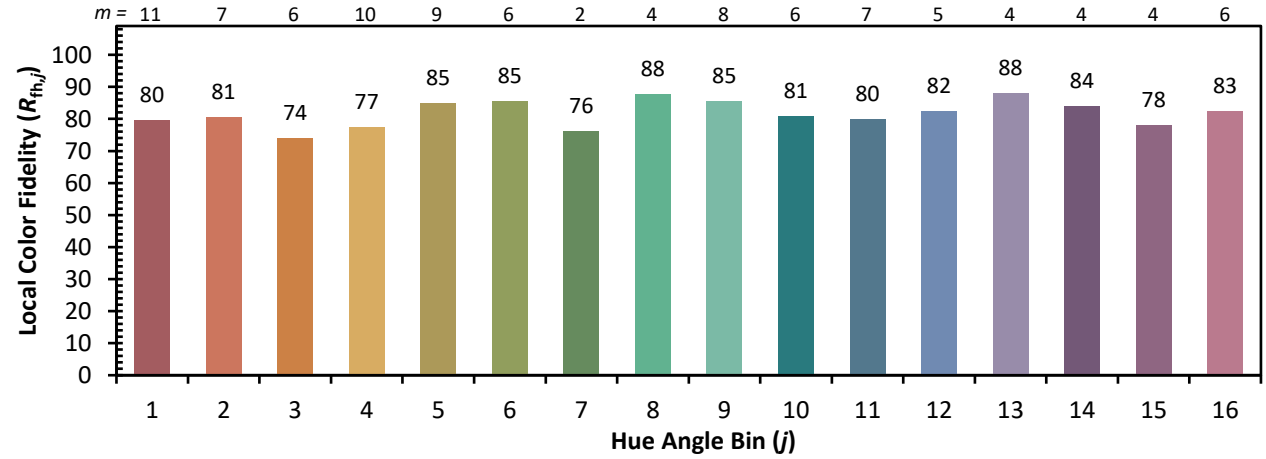
Color Rendition by Hue-Angle Bin







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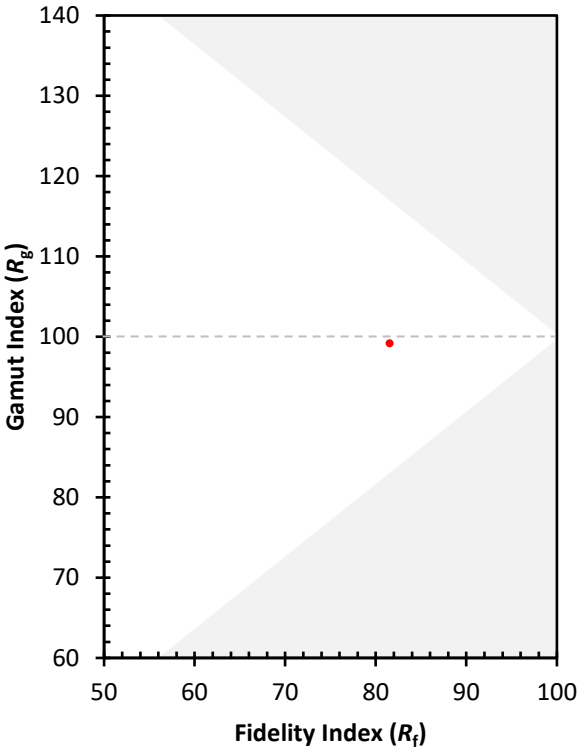
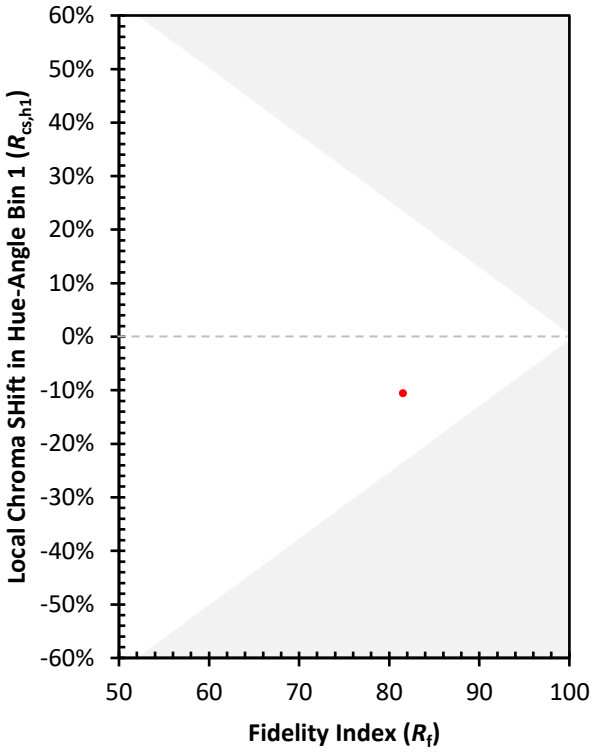
Measure Comparisons





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