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: P324019

Luminaire Tested: **GLEON-SA5D-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:	P324019
	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-SA5D-830-U-SL4-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 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:	25011 lumens
Efficiency:	N/A
Efficacy:	78.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G4

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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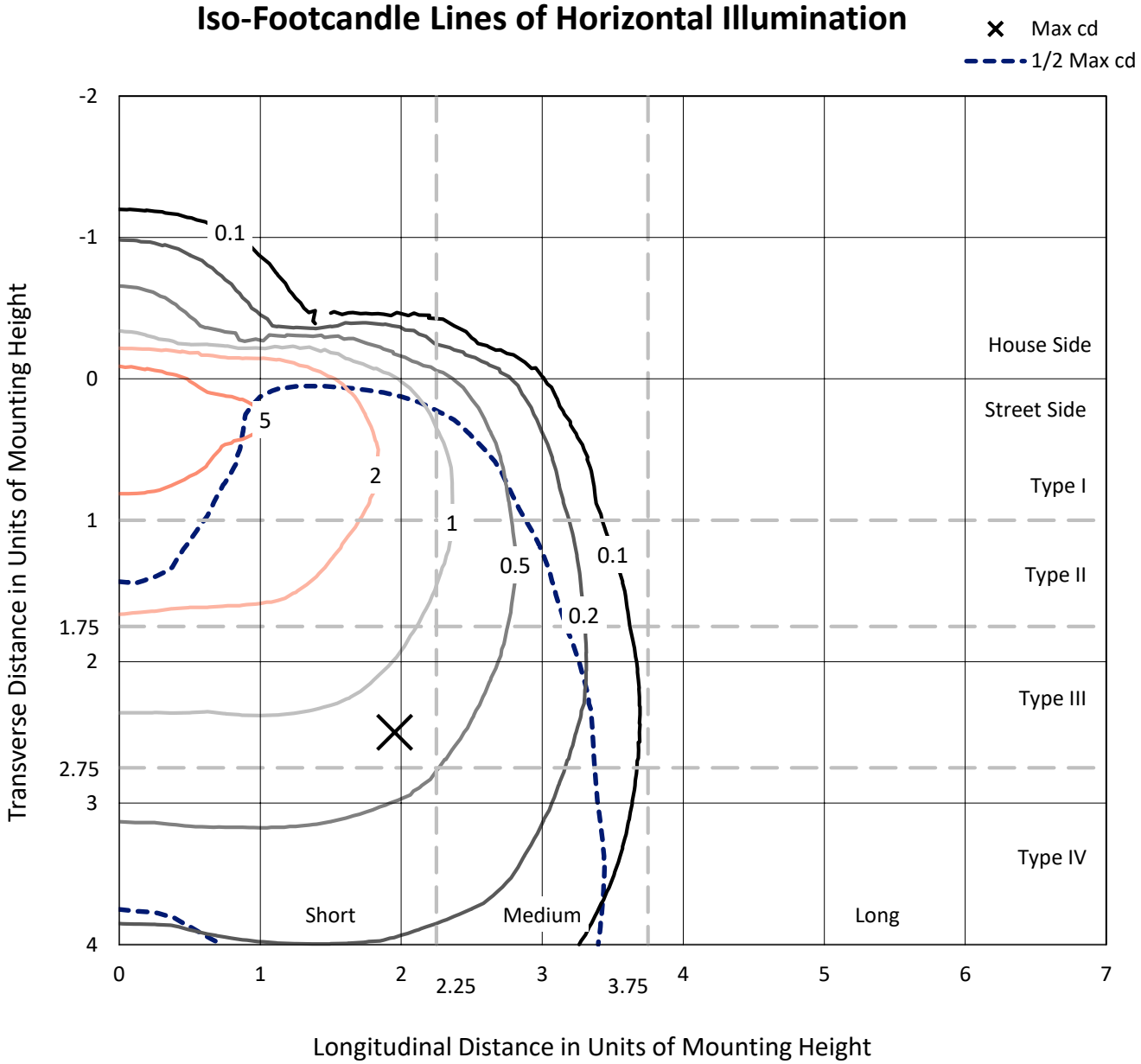
Scaled Data Report

REPORT NUMBER: P324019
CATALOG NUMBER: GLEON-SA5D-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
Type IV - Short - N/A

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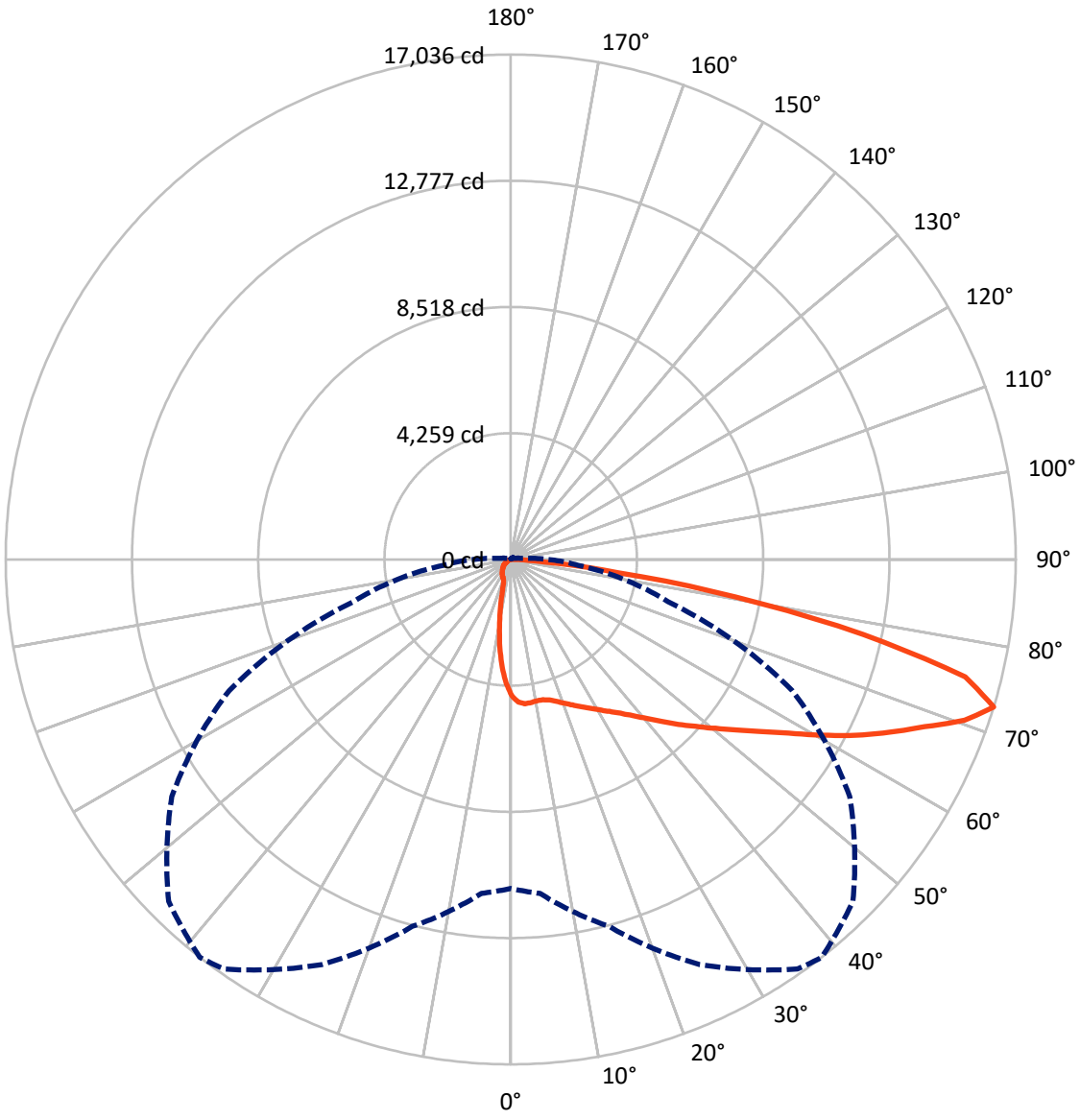
Luminous Intensity Polar Plot



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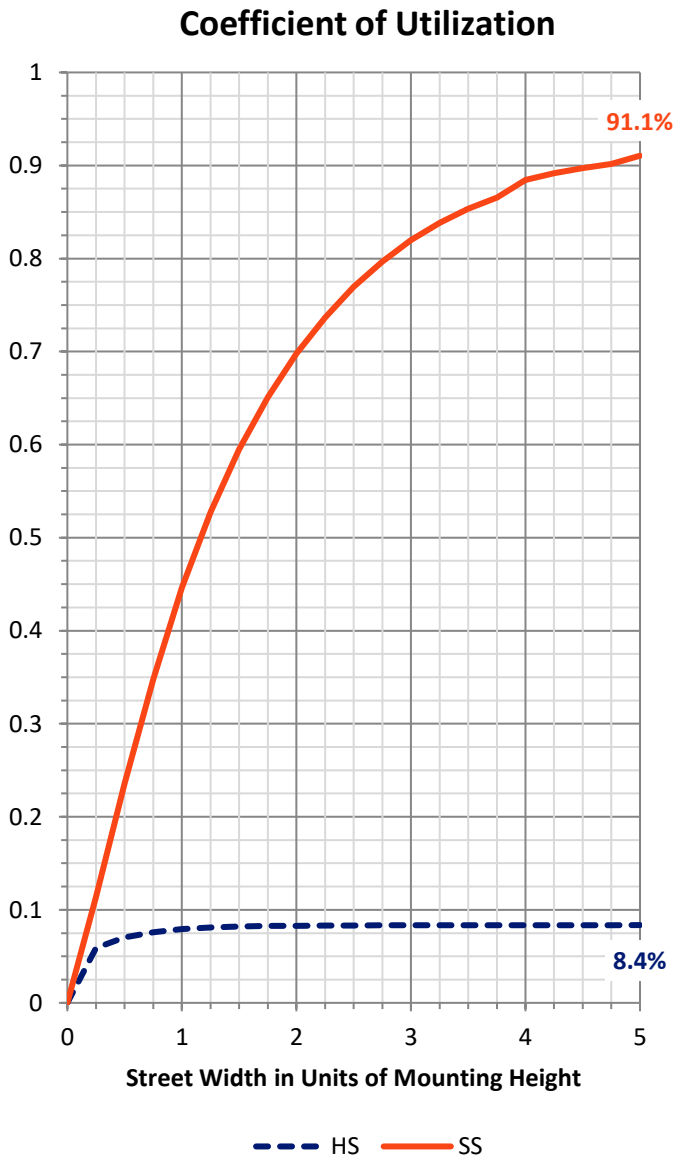
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2104.8	0.0	2104.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	22906.2	0.0	22906.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	25011.0	0.0	25011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.0	1.6
10°-20°	958.4	3.8
20°-30°	1524.4	6.1
30°-40°	2291.7	9.2
40°-50°	3496.2	14.0
50°-60°	4941.3	19.8
60°-70°	6198.0	24.8
70°-80°	4634.4	18.5
80°-90°	574.6	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°	25011.0	100.0
0°-180°	25011.0	100.0



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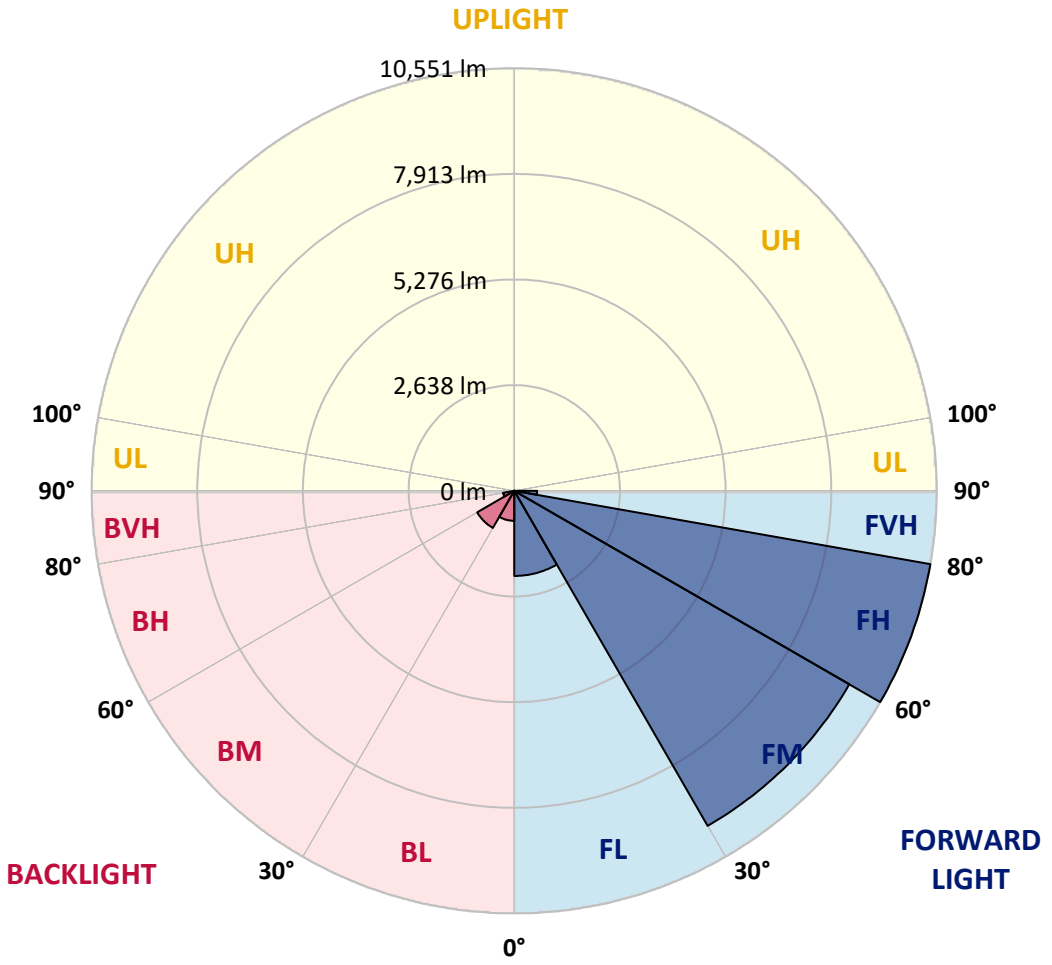
CATALOG NUMBER: GLEON-SA5D-830-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2125.3	8.5			
FM	(30°-60°)	9660.4	38.6			
FH	(60°-80°)	10551.3	42.2			G4/12000
FVH	(80°-90°)	569.3	2.3			G4/750
BL	(0°-30°)	749.4	3.0	B2/1000		
BM	(30°-60°)	1068.8	4.3	B2/2500		
BH	(60°-80°)	281.2	1.1	B1/500		G1/500
BVH	(80°-90°)	5.4	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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REPORT NUMBER: P324019
CATALOG NUMBER: GLEON-SA5D-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4
2.5°	4882.0	4883.0	4871.6	4852.9	4829.0	4816.5	4795.8	4762.5	4727.2	4663.8	4595.3
5°	4981.7	4981.7	4967.1	4942.2	4903.8	4892.4	4852.9	4799.9	4727.2	4624.4	4509.1
7.5°	4971.3	4973.4	4953.6	4927.7	4889.2	4878.9	4831.1	4771.9	4681.5	4556.9	4409.4
10°	4917.3	4922.5	4906.9	4894.4	4859.1	4847.7	4803.0	4743.8	4653.5	4520.5	4351.2
12.5°	4862.2	4867.4	4872.6	4884.0	4862.2	4858.1	4822.8	4772.9	4686.7	4548.5	4357.4
15°	4826.9	4837.3	4874.7	4919.4	4924.6	4920.4	4897.6	4850.8	4763.6	4620.2	4402.1
17.5°	4826.9	4843.5	4921.4	5006.6	5036.7	5039.9	5020.1	4954.7	4850.8	4697.1	4443.6
20°	4867.4	4890.3	5011.8	5132.3	5182.2	5182.2	5143.7	5052.3	4930.8	4766.7	4471.7
22.5°	4971.3	5001.4	5154.1	5293.3	5346.3	5334.9	5282.9	5150.0	5013.9	4845.6	4507.0
25°	5175.9	5198.8	5357.7	5497.9	5530.1	5504.2	5438.7	5268.4	5119.8	4952.6	4571.4
27.5°	5439.8	5442.9	5607.0	5725.4	5705.7	5688.0	5606.0	5416.9	5272.5	5105.3	4682.5
30°	5729.6	5729.6	5873.9	5964.3	5904.1	5889.5	5807.5	5596.6	5467.8	5313.0	4840.4
32.5°	6010.0	6022.5	6139.9	6197.0	6129.5	6114.9	6034.9	5824.1	5727.5	5629.8	5086.6
35°	6281.1	6290.5	6401.6	6432.8	6368.4	6372.5	6315.4	6136.7	6100.4	6087.9	5457.4
37.5°	6543.9	6546.0	6659.2	6679.0	6646.8	6682.1	6687.3	6529.4	6596.9	6697.6	5979.9
40°	6783.9	6785.9	6898.1	6949.0	7004.1	7049.8	7090.3	7006.1	7229.5	7463.2	6602.1
42.5°	6976.0	6997.8	7140.1	7236.7	7382.2	7469.4	7579.5	7575.4	7982.5	8333.6	7354.1
45°	7145.3	7182.7	7381.1	7550.4	7799.7	7938.9	8111.3	8246.4	8830.1	9302.8	8115.5
47.5°	7368.7	7404.0	7630.4	7907.8	8240.1	8423.0	8708.6	9000.5	9761.9	10254.2	8859.2
50°	7683.4	7667.8	7891.1	8289.0	8715.9	8955.8	9363.0	9800.3	10686.3	11083.1	9296.5
52.5°	8018.9	8012.7	8177.8	8703.4	9276.8	9557.2	10095.3	10627.1	11570.3	11654.4	9497.0
55°	8434.4	8389.7	8528.9	9176.0	9942.6	10243.8	10877.4	11445.6	12274.5	11976.4	9597.7
57.5°	8869.6	8795.9	8928.8	9702.7	10693.6	11049.9	11743.7	12243.4	12743.0	12196.6	9596.7
60°	9319.4	9232.1	9390.0	10361.2	11626.4	12038.7	12682.7	12782.5	13180.3	12307.8	9526.1
62.5°	9695.4	9643.5	9878.2	11065.5	12668.2	13073.3	13392.2	13272.7	13549.0	12394.0	9360.9
65°	10093.2	10096.3	10475.5	11887.1	13775.5	14048.7	14075.7	13908.4	13857.5	12376.3	8802.1
67.5°	10631.3	10681.1	11313.7	13002.7	14852.6	15063.5	15061.4	14597.1	14082.9	11674.1	7562.9
70°	11200.5	11317.9	12279.7	14279.2	16028.4	16242.4	16132.3	15035.4	13260.3	9439.9	5352.5
72.5°	11104.9	11308.5	12816.7	15084.3	16872.9	17036.0	16320.3	13958.3	10480.7	5486.5	2278.9
75°	8567.3	8803.1	11752.0	14286.5	15986.9	15840.4	14022.7	10861.9	5727.5	1531.1	513.1
77.5°	4525.7	4651.4	7763.4	10883.7	12465.6	12159.2	9878.2	6025.6	1746.1	379.1	230.6
80°	2370.4	2399.4	3383.1	6175.2	7693.8	7695.9	5854.2	2646.7	719.8	194.2	154.8
82.5°	1269.3	1294.2	1787.6	2853.4	4031.3	3654.2	2241.6	1456.3	418.6	110.1	148.5
85°	305.4	310.6	1013.8	1303.6	1585.1	1132.2	665.8	1222.6	113.2	64.4	120.5
87.5°	117.4	119.5	376.0	564.0	404.1	261.8	311.6	456.0	14.5	24.9	18.7
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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Scaled Data Report

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CATALOG NUMBER: GLEON-SA5D-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4	4599.4
2.5°	4553.7	4526.7	4460.3	4376.1	4301.3	4247.3	4166.3	4113.3	4078.0	4077.0	4063.5
5°	4438.4	4383.4	4240.0	4069.7	3914.9	3775.7	3611.6	3481.8	3385.2	3369.6	3336.4
7.5°	4314.8	4224.5	4004.3	3738.3	3478.7	3214.8	2908.4	2718.3	2555.2	2477.3	2469.0
10°	4239.0	4112.3	3799.6	3415.3	3008.1	2579.1	2178.2	1900.9	1700.4	1643.3	1600.7
12.5°	4223.4	4056.2	3641.7	3112.0	2530.3	1963.2	1519.6	1224.6	1064.7	1013.8	1000.3
15°	4239.0	4030.2	3508.8	2811.8	2046.3	1392.9	1020.0	848.6	788.4	773.8	772.8
17.5°	4248.4	3999.1	3358.2	2478.4	1576.8	995.1	781.1	731.3	721.9	720.9	722.9
20°	4247.3	3951.3	3178.5	2106.5	1172.7	782.2	706.3	695.9	693.9	694.9	693.9
22.5°	4240.0	3895.2	2981.1	1723.2	886.0	699.1	674.1	667.9	666.9	666.9	666.9
25°	4253.5	3850.5	2764.0	1356.6	730.2	660.6	645.0	639.8	638.8	638.8	636.7
27.5°	4302.4	3825.6	2526.2	1043.9	659.6	626.3	613.9	612.8	609.7	608.7	610.8
30°	4381.3	3825.6	2265.4	812.3	617.0	591.0	581.7	579.6	578.6	577.5	578.6
32.5°	4520.5	3854.7	1980.8	675.2	576.5	551.6	545.3	548.4	545.3	545.3	545.3
35°	4771.9	3941.9	1682.7	589.0	533.9	513.1	506.9	511.0	509.0	509.0	507.9
37.5°	5138.5	4104.0	1382.5	537.0	496.5	474.7	466.4	472.6	470.5	470.5	469.5
40°	5585.2	4339.8	1096.9	497.5	460.2	437.3	430.0	433.1	428.0	428.0	430.0
42.5°	6136.7	4638.9	847.6	459.1	423.8	402.0	397.8	394.7	385.4	380.2	381.2
45°	6749.6	4950.5	660.6	421.7	389.5	371.9	365.6	357.3	341.7	331.4	332.4
47.5°	7297.0	5190.5	537.0	385.4	358.4	344.9	335.5	319.9	297.1	284.6	285.6
50°	7584.7	5226.8	457.0	349.0	329.3	315.8	302.3	278.4	251.4	237.9	236.8
52.5°	7658.5	5056.5	397.8	315.8	300.2	284.6	267.0	234.8	204.6	190.1	188.0
55°	7685.5	4796.8	344.9	284.6	269.0	251.4	228.5	192.2	164.1	149.6	148.5
57.5°	7596.1	4409.4	303.3	256.6	237.9	216.1	188.0	153.7	126.7	115.3	115.3
60°	7397.7	3884.8	271.1	226.4	205.7	180.7	151.7	119.5	94.5	85.2	85.2
62.5°	7002.0	3205.5	241.0	195.3	175.5	149.6	122.6	90.4	66.5	61.3	62.3
65°	6255.2	2431.6	210.9	167.2	149.6	123.6	95.6	64.4	44.7	44.7	46.7
67.5°	5101.1	1689.0	179.7	142.3	128.8	100.8	72.7	44.7	31.2	35.3	39.5
70°	3376.9	947.3	153.7	117.4	110.1	80.0	54.0	30.1	24.9	33.2	40.5
72.5°	*1274.5*	*368.7*	*128.8*	*94.5*	*95.6*	*61.3*	*38.4*	*22.9*	*22.9*	*36.4*	*47.8*
75°	355.2	180.7	92.4	69.6	74.8	44.7	28.0	19.7	21.8	41.5	56.1
77.5°	208.8	133.0	60.2	40.5	50.9	31.2	18.7	15.6	18.7	35.3	54.0
80°	168.3	70.6	35.3	20.8	28.0	17.7	12.5	9.3	5.2	13.5	28.0
82.5°	168.3	42.6	16.6	14.5	14.5	9.3	6.2	4.2	1.0	0.0	7.3
85°	113.2	17.7	10.4	9.3	7.3	3.1	2.1	1.0	0.0	0.0	0.0
87.5°	18.7	7.3	4.2	2.1	1.0	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

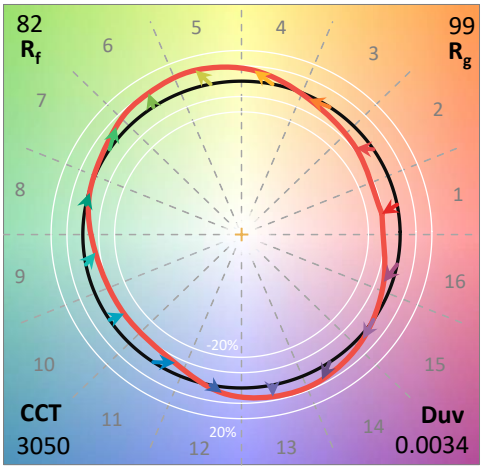
Test Information

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

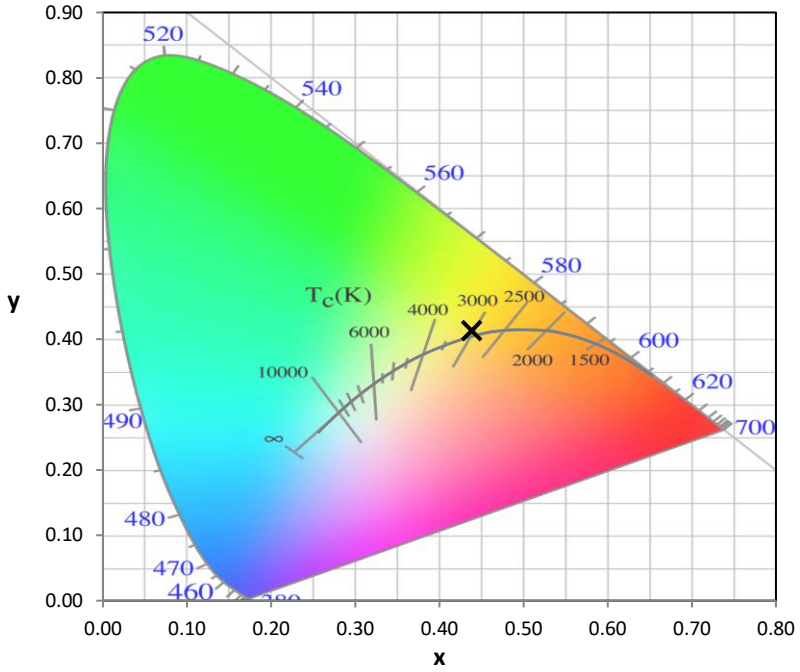
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

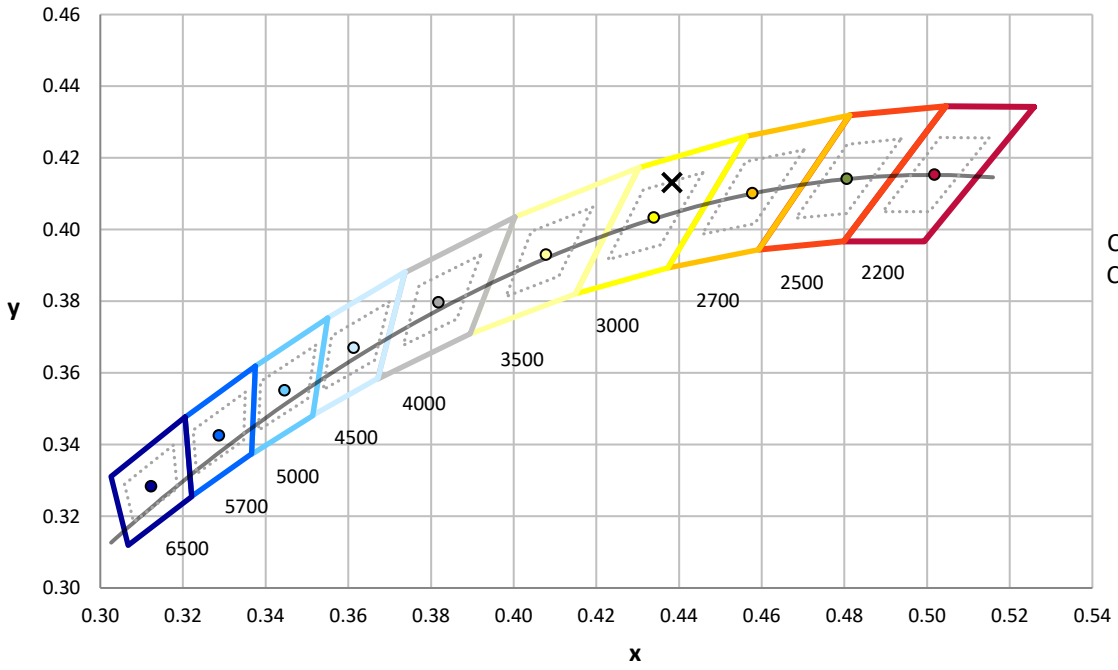
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

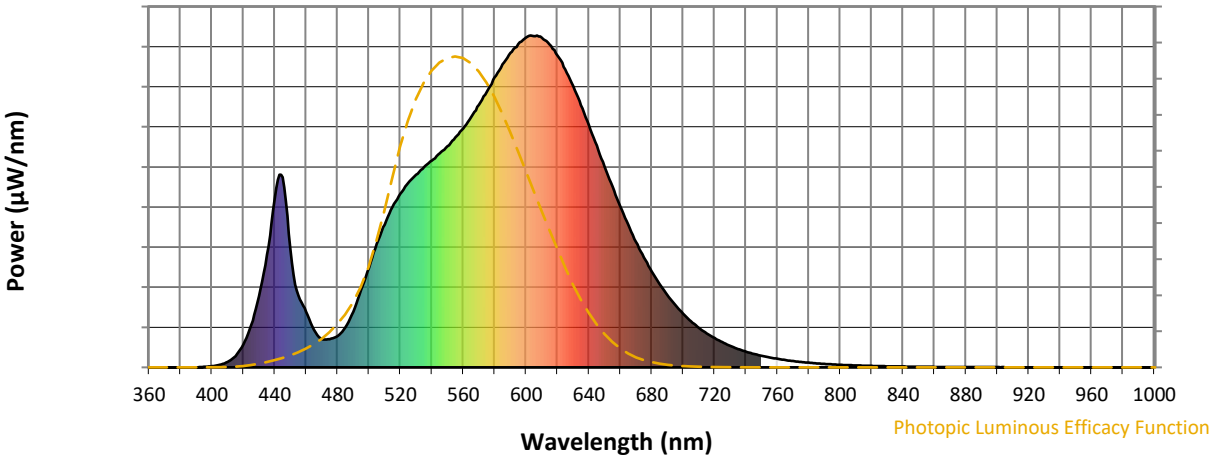


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

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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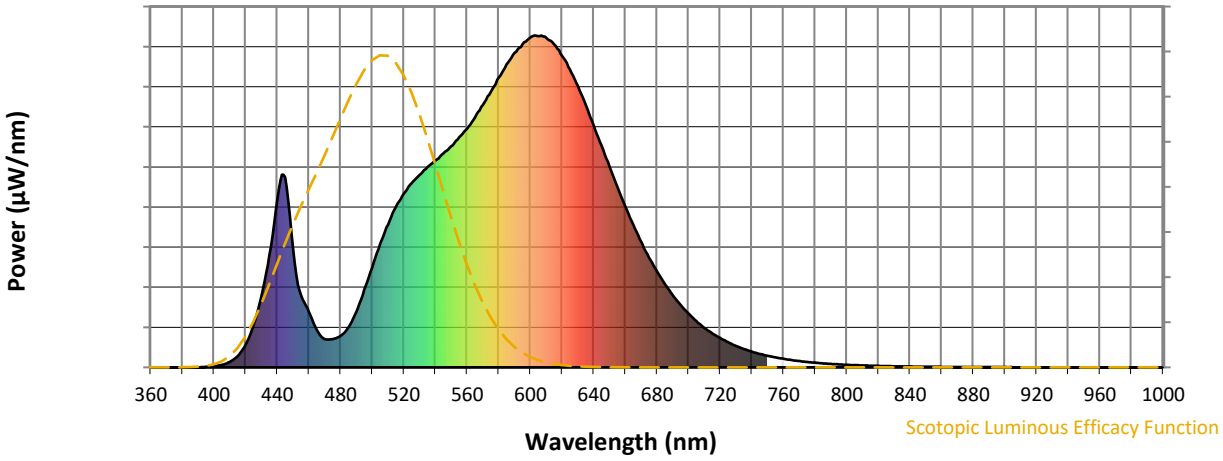
Scotopic Flux vs. Wavelength



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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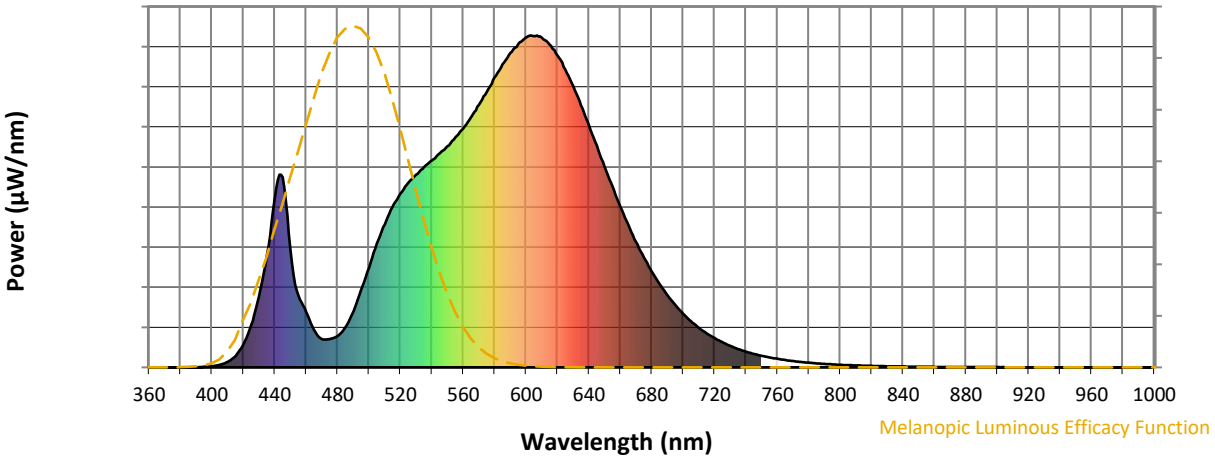
Melanopic Flux vs. Wavelength



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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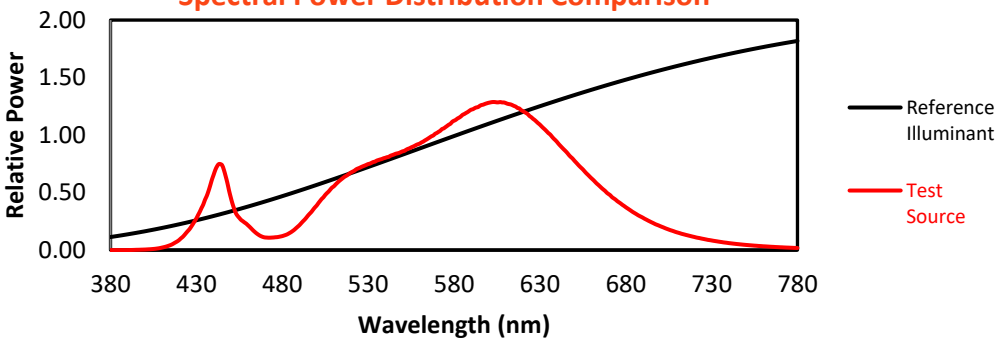
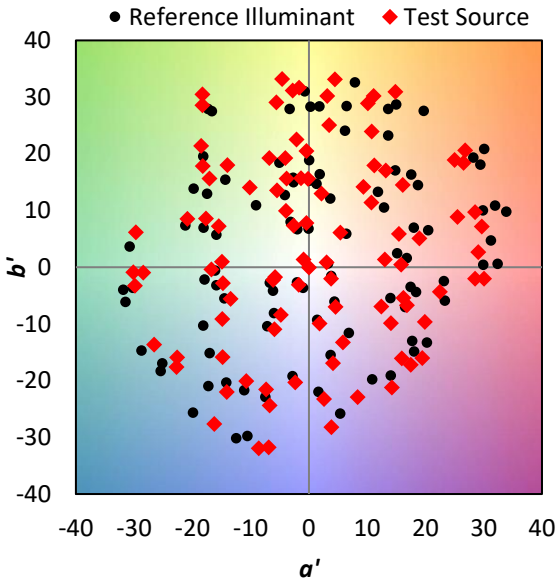
Summary

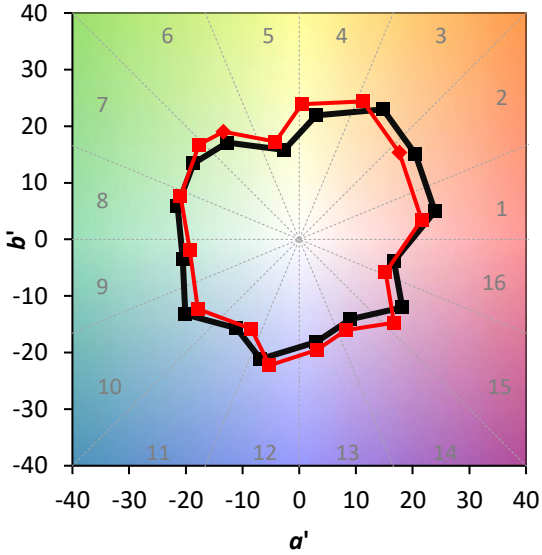
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

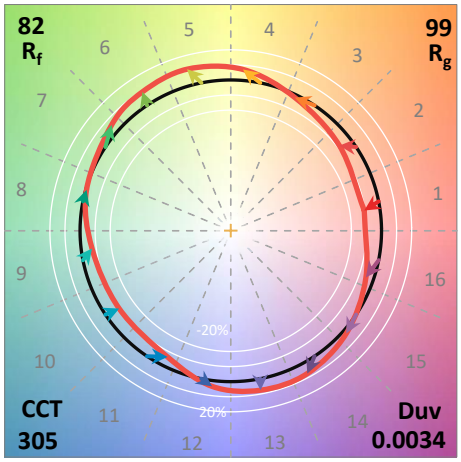
Spectral Power Distribution Comparison

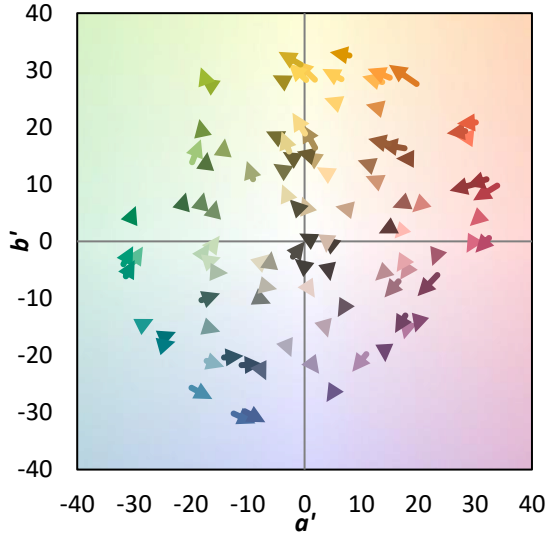


Color Vector Graphics









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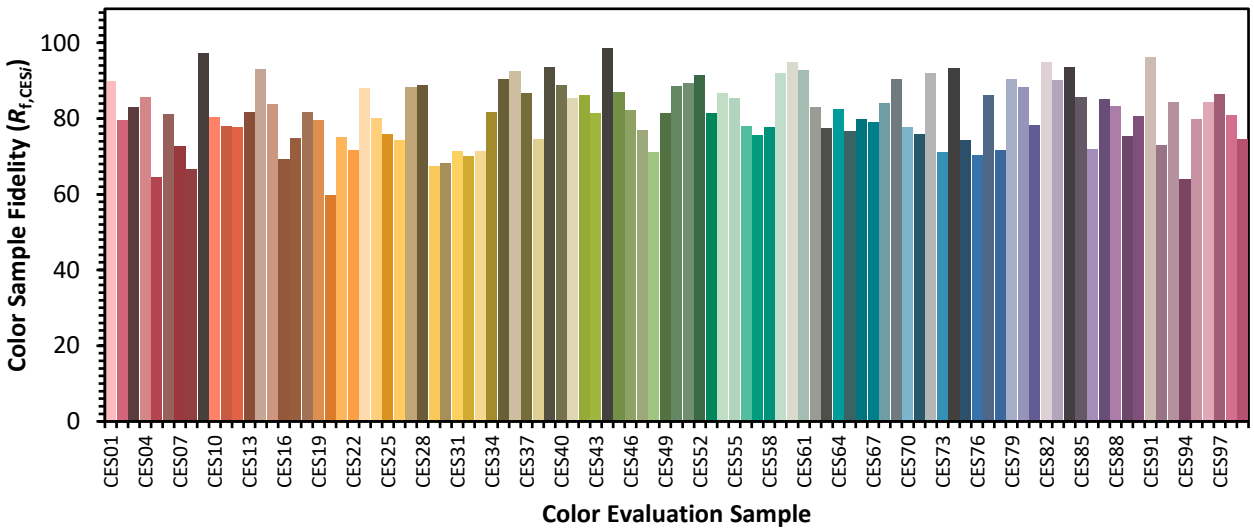
Individual Sample Fidelity Index ($R_{f,i}$)

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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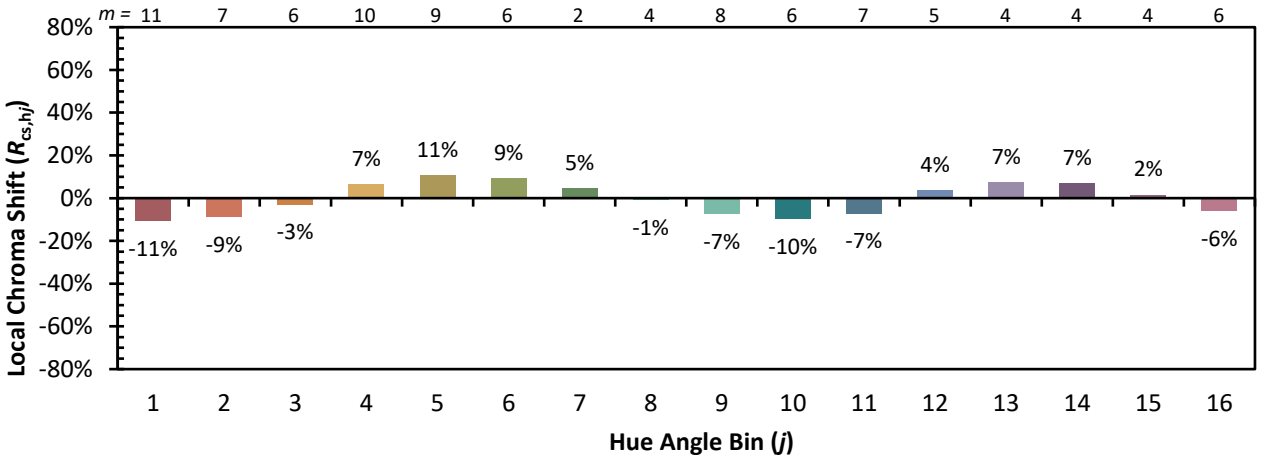
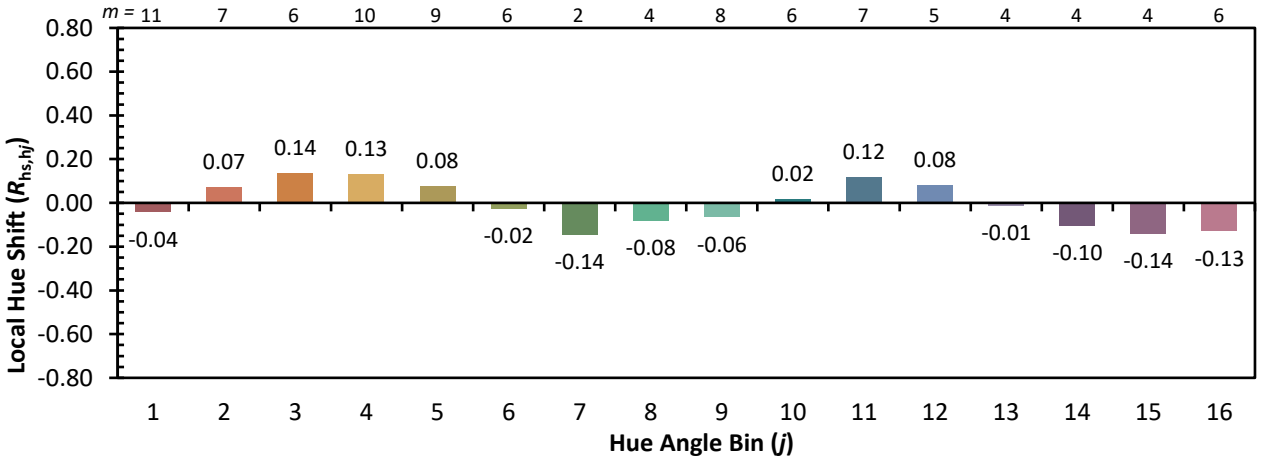
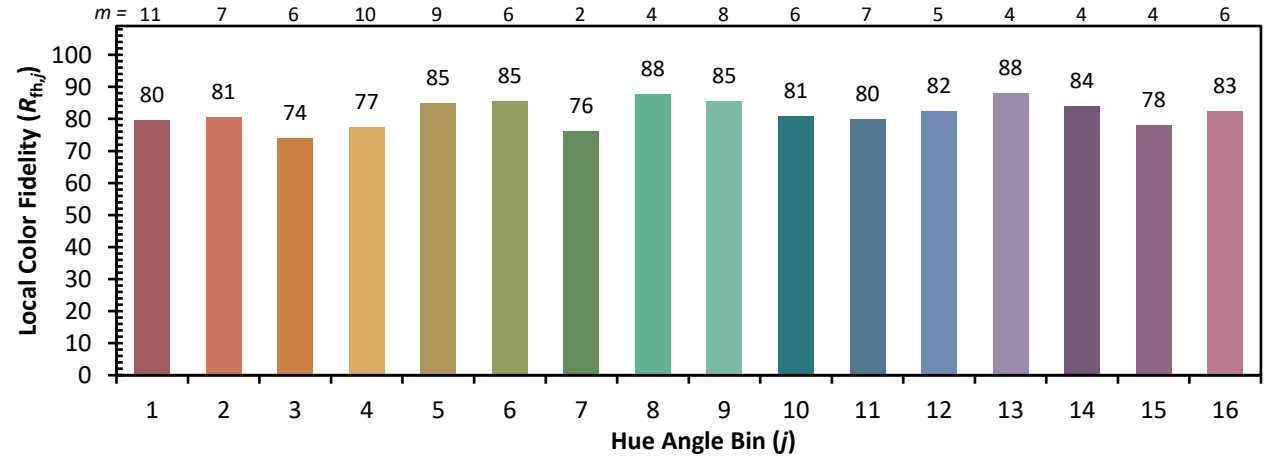
Color Rendition by Hue-Angle Bin







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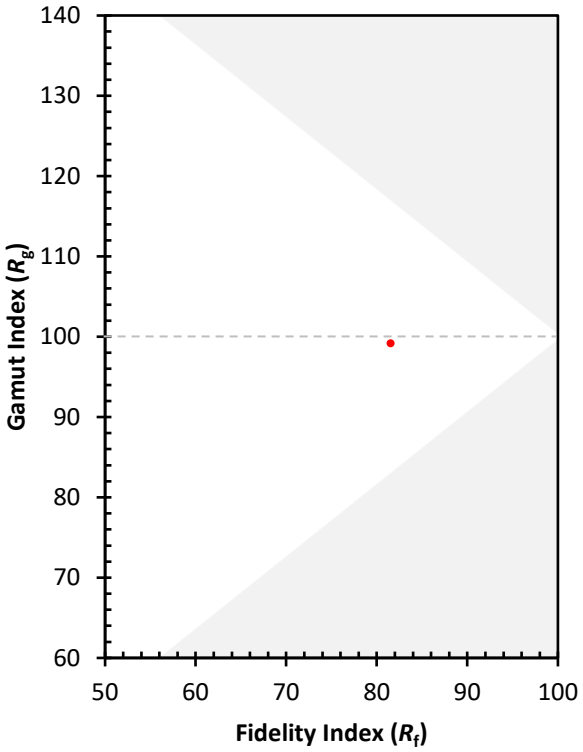
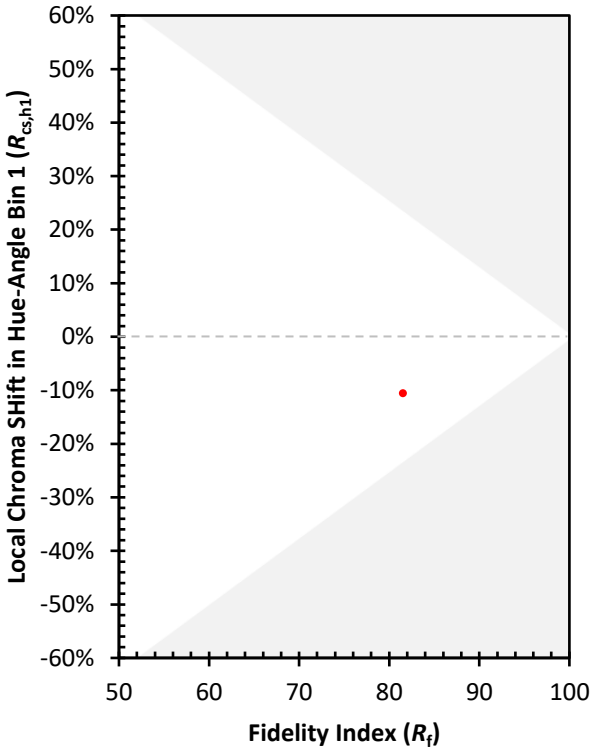
Measure Comparisons





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