

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: P322077

Luminaire Tested: **GLEON-SA3B-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9863 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

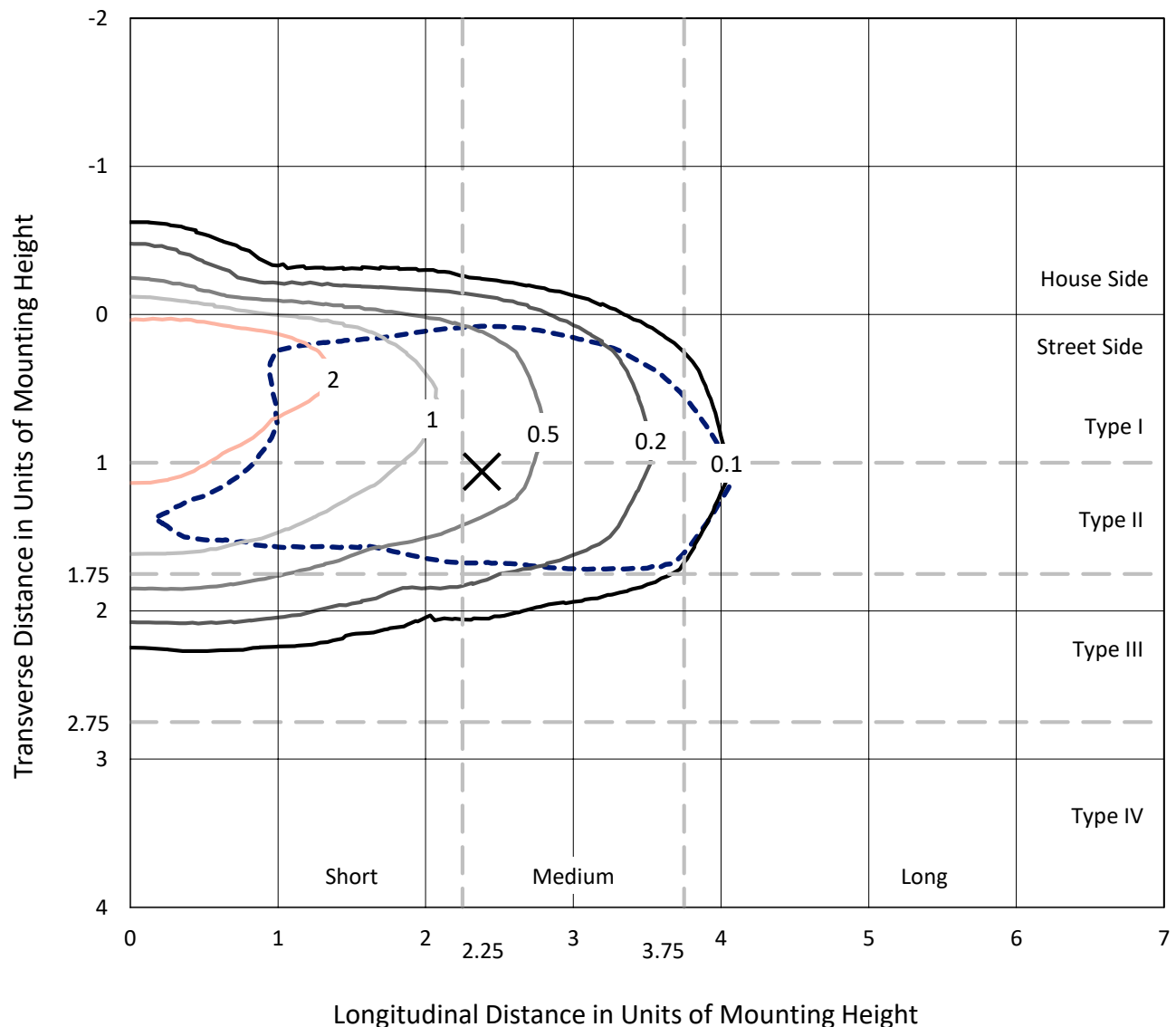
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

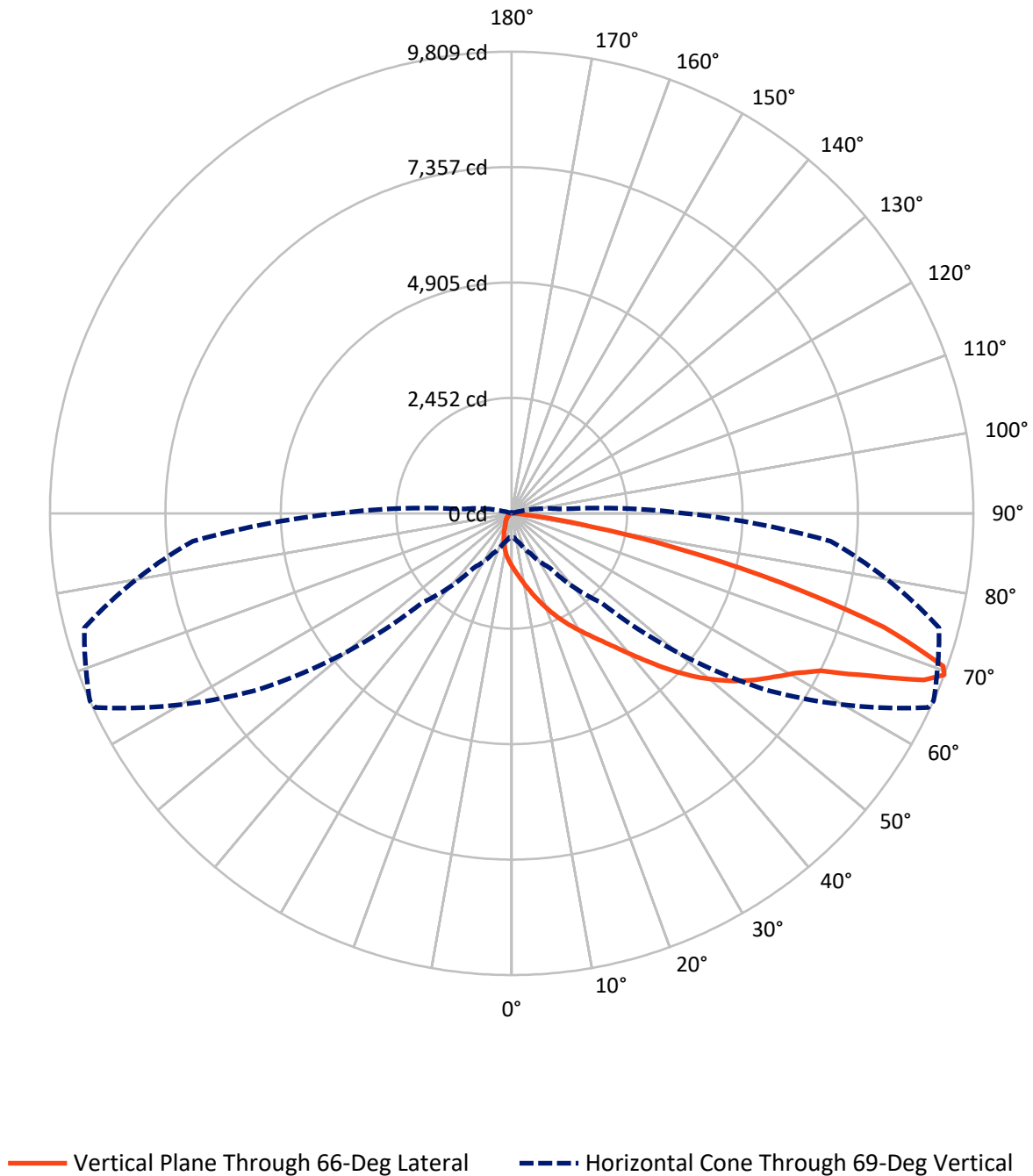
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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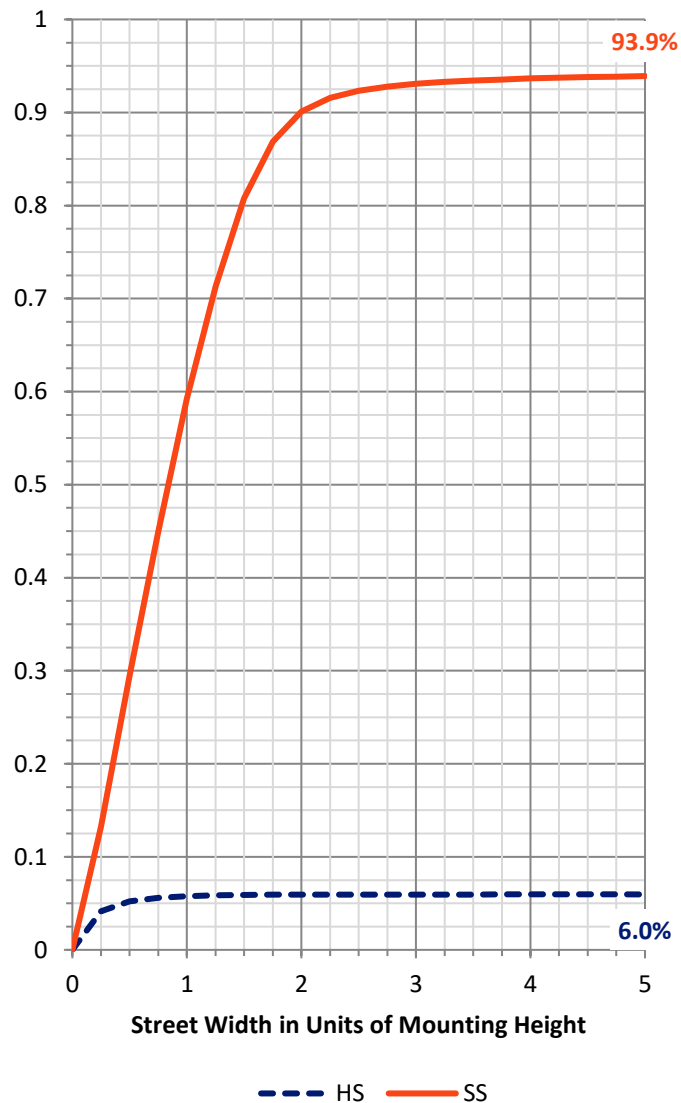
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	591.6	0.0	591.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	9271.4	0.0	9271.4
	% Fixture	94.0	0.0	94.0
Total	Lumens	9863.0	0.0	9863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	1.1
10°-20°	322.9	3.3
20°-30°	562.3	5.7
30°-40°	986.6	10.0
40°-50°	1651.4	16.7
50°-60°	2427.3	24.6
60°-70°	2492.3	25.3
70°-80°	1230.4	12.5
80°-90°	81.3	0.8
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°	9863.0	100.0
0°-180°	9863.0	100.0

Coefficient of Utilization



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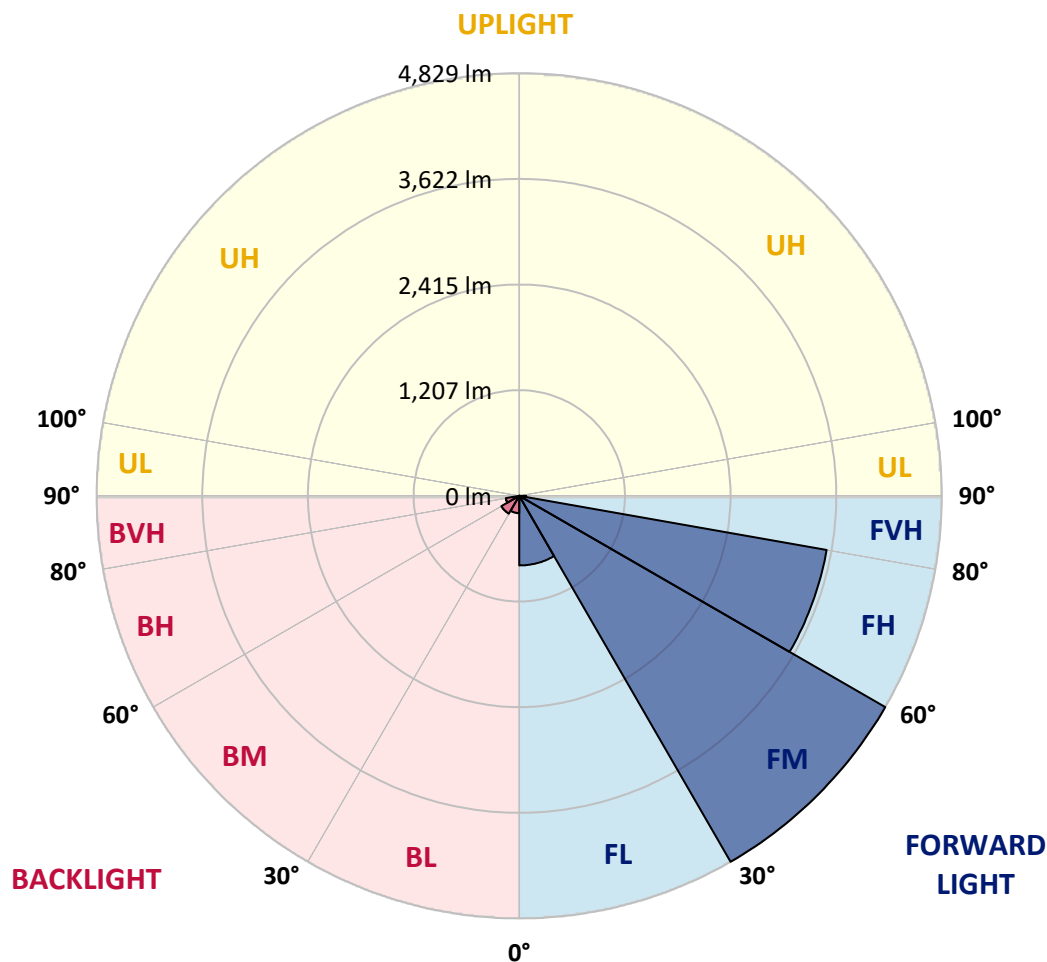
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	795.8	8.1			
FM	(30°-60°)	4829.4	49.0			
FH	(60°-80°)	3566.7	36.2			G2/5000
FVH	(80°-90°)	79.4	0.8			G1/100
BL	(0°-30°)	197.9	2.0	B1/500		
BM	(30°-60°)	235.9	2.4	B1/1000		
BH	(60°-80°)	155.9	1.6	B1/500		G1/500
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4
2.5°	1321.1	1315.4	1313.1	1302.8	1285.0	1271.4	1245.2	1214.7	1209.1	1179.6	1143.5
5°	1492.5	1487.8	1484.6	1470.0	1451.8	1417.6	1369.8	1313.1	1302.3	1246.1	1174.0
7.5°	1612.0	1620.4	1620.4	1611.0	1588.1	1562.3	1503.8	1426.5	1412.9	1326.7	1214.7
10°	1681.8	1692.1	1700.1	1708.0	1704.7	1694.4	1639.2	1552.0	1535.6	1421.3	1262.0
12.5°	1688.3	1698.7	1721.1	1754.4	1786.7	1810.1	1775.5	1691.2	1672.4	1530.9	1318.3
15°	1651.8	1662.6	1697.2	1761.9	1840.1	1908.5	1919.8	1845.3	1826.1	1661.6	1388.5
17.5°	1588.1	1595.1	1644.8	1734.3	1857.0	1982.5	2050.5	2010.6	1992.8	1811.1	1466.8
20°	1540.8	1545.9	1589.5	1685.5	1846.7	2028.9	2174.1	2186.3	2167.6	1971.3	1551.6
22.5°	1621.8	1631.2	1632.6	1678.0	1818.6	2051.9	2282.8	2359.2	2345.1	2141.4	1634.9
25°	1843.4	1854.2	1818.6	1790.5	1842.5	2062.2	2376.1	2536.3	2525.0	2324.5	1718.8
27.5°	2136.2	2147.4	2101.5	2017.7	1967.6	2101.1	2459.0	2716.2	2715.7	2518.5	1809.2
30°	2423.8	2435.1	2388.2	2304.4	2189.1	2211.2	2530.6	2904.5	2907.3	2718.5	1905.2
32.5°	2725.5	2739.6	2691.3	2583.6	2463.2	2401.3	2631.4	3093.7	3109.7	2950.4	2013.5
35°	3068.4	3070.3	3002.4	2889.5	2750.8	2655.7	2793.0	3306.0	3343.9	3237.6	2150.7
37.5°	3404.8	3418.4	3362.6	3184.6	3057.2	2949.5	3033.3	3571.1	3625.0	3588.4	2330.1
40°	3654.0	3682.6	3674.6	3482.6	3361.7	3284.9	3331.7	3886.4	3954.8	3996.9	2556.4
42.5°	3810.5	3832.0	3868.6	3752.9	3643.2	3655.9	3684.0	4253.7	4338.0	4462.6	2816.4
45°	3989.9	4000.2	4030.7	3979.6	3905.6	4033.0	4057.8	4667.3	4755.9	4963.4	3105.0
47.5°	4209.2	4233.5	4241.9	4195.1	4161.4	4366.6	4418.1	5043.5	5167.6	5499.8	3410.4
50°	4488.4	4494.9	4509.4	4479.0	4445.3	4653.3	4741.3	5438.4	5551.3	6038.0	3711.6
52.5°	4761.5	4784.9	4835.5	4816.3	4802.7	4897.3	5029.4	5794.4	5920.5	6486.8	4012.4
55°	4840.2	4860.3	5035.1	5154.5	5265.1	5198.1	5304.9	6113.5	6249.8	6887.8	4301.9
57.5°	4525.8	4566.6	4869.2	5180.3	5638.9	5665.6	5683.4	6440.9	6563.2	7195.1	4603.1
60°	3731.3	3739.3	4235.9	4769.4	5577.1	6073.6	6236.2	6792.7	6895.3	7481.4	4963.9
62.5°	2373.2	2454.3	2999.1	3752.4	4923.1	6014.6	6904.7	7324.9	7362.4	7824.8	5481.0
65°	1130.4	1182.9	1575.4	2318.4	3566.0	5259.0	7366.1	8287.6	8304.5	8505.4	6172.0
67.5°	625.9	651.2	838.1	1248.0	2084.7	3719.1	7179.7	9427.8	9443.8	9200.6	6778.2
69°	489.5	511.1	658.2	940.7	1413.4	2673.1	6497.1	9761.9	9809.2	9399.7	6799.8
70°	415.5	436.6	566.8	794.5	1136.5	2065.5	5783.2	9678.9	9729.1	9381.0	6639.1
72.5°	254.4	266.6	377.6	559.3	761.7	1039.1	3566.4	8185.5	8270.3	8605.2	5705.9
75°	171.5	178.0	236.1	386.0	544.8	535.0	1852.8	5769.6	5953.2	6693.9	4214.3
77.5°	122.7	128.8	158.3	249.7	381.8	353.2	839.0	3585.6	3625.0	4014.7	2298.3
80°	69.8	75.4	112.0	148.5	259.1	235.6	333.5	1712.7	1732.4	1721.6	767.3
82.5°	36.5	41.2	61.4	97.9	166.3	154.1	138.7	573.4	576.2	479.2	168.2
85°	7.0	8.4	30.5	67.0	85.7	67.0	56.7	134.4	137.3	121.3	41.7
87.5°	0.0	0.5	12.2	15.0	16.9	17.3	18.3	26.2	28.1	37.9	11.2
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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CATALOG NUMBER: GLEON-SA3B-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4	1122.4
2.5°	1127.6	1110.7	1078.4	1040.9	1011.9	983.3	960.8	937.4	929.0	924.7	924.3
5°	1138.8	1103.2	1034.8	964.6	906.9	852.6	813.7	776.7	759.4	751.4	748.1
7.5°	1157.6	1100.4	990.3	883.1	800.1	732.2	678.3	638.0	617.9	609.5	606.2
10°	1179.6	1096.7	938.3	796.9	691.0	620.7	567.3	527.5	505.5	496.1	491.4
12.5°	1205.4	1090.1	878.4	709.7	597.8	527.5	462.8	413.7	388.4	377.6	372.4
15°	1237.2	1083.6	815.6	627.7	515.8	430.1	359.3	326.1	320.9	319.0	319.5
17.5°	1268.6	1073.3	747.2	546.7	429.6	335.9	299.8	297.9	298.9	298.9	298.9
20°	1296.7	1049.8	672.7	477.4	347.6	283.4	275.9	272.6	270.3	268.4	266.1
22.5°	1318.7	1018.4	601.0	408.5	283.9	259.5	247.8	237.5	229.1	223.5	220.6
25°	1333.7	976.7	535.5	342.4	255.3	236.1	215.0	197.7	184.6	176.6	173.3
27.5°	1345.0	931.8	476.9	286.7	235.6	208.9	181.3	160.7	147.1	140.1	137.3
30°	1352.9	880.7	425.4	252.0	213.6	180.4	150.8	130.7	120.9	117.1	115.2
32.5°	1360.4	824.0	376.6	235.6	193.0	154.1	126.5	111.0	104.9	100.3	98.8
35°	1379.2	771.6	330.3	218.3	171.9	131.6	108.7	97.4	91.4	88.5	87.6
37.5°	1423.7	732.7	285.8	200.5	150.8	113.8	95.1	87.1	81.5	78.7	77.8
40°	1495.3	713.0	248.3	181.3	130.2	100.3	86.2	78.7	72.6	68.4	67.5
42.5°	1600.7	715.8	222.1	162.1	113.8	89.5	77.8	68.9	62.3	58.6	57.6
45°	1728.6	736.4	203.8	143.4	100.3	81.0	68.4	59.0	52.9	49.7	48.7
47.5°	1867.3	769.7	188.8	126.5	89.5	73.1	59.0	49.2	44.0	41.2	40.8
50°	2013.5	802.0	173.3	110.1	80.1	65.1	49.7	40.8	36.5	34.2	33.3
52.5°	2161.5	839.5	159.3	95.1	72.1	55.7	41.2	33.3	30.0	28.1	27.2
55°	2320.8	867.6	145.7	83.4	64.2	47.3	34.2	27.6	24.8	22.5	22.0
57.5°	2508.2	911.2	131.6	72.1	54.8	39.4	28.1	22.0	19.7	17.3	16.9
60°	2761.1	962.2	116.6	63.7	45.0	32.3	23.0	17.8	15.0	13.1	12.6
62.5°	3094.7	1018.9	97.9	55.7	36.5	26.2	18.3	14.1	10.8	8.4	8.4
65°	3517.7	1111.2	80.1	46.8	30.0	21.5	14.1	10.3	6.1	3.7	3.7
67.5°	3764.6	1127.1	64.6	38.4	24.4	18.3	11.7	7.0	1.9	0.5	0.0
69°	3685.4	1034.8	54.8	32.8	21.1	17.3	10.8	5.2	0.9	0.0	0.0
70°	3536.4	946.3	48.3	29.0	19.2	16.4	10.3	3.7	0.9	0.0	0.0
72.5°	2922.3	673.7	36.5	21.5	14.1	14.5	9.4	2.3	0.9	0.0	0.0
75°	2128.7	409.4	26.2	15.0	8.9	10.8	6.6	0.9	0.5	0.0	0.0
77.5°	1184.3	193.0	16.4	8.4	5.6	6.6	3.3	0.0	0.0	0.0	0.0
80°	384.6	52.5	7.5	4.7	3.3	3.7	1.4	0.0	0.0	0.0	0.0
82.5°	71.2	15.0	4.2	2.3	0.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	15.5	6.1	2.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	1.9	0.5	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

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.

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
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

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

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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

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CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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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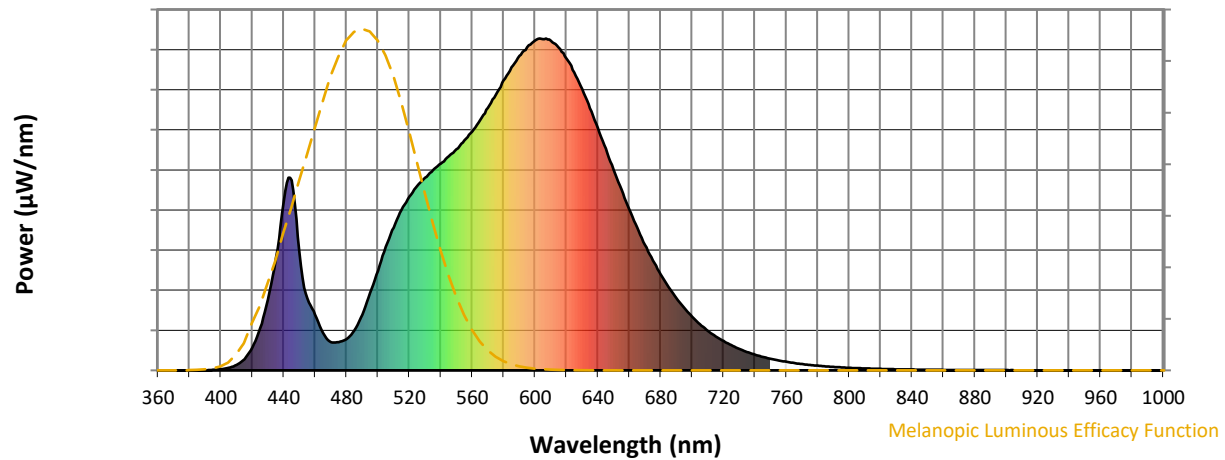
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.27

λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /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 $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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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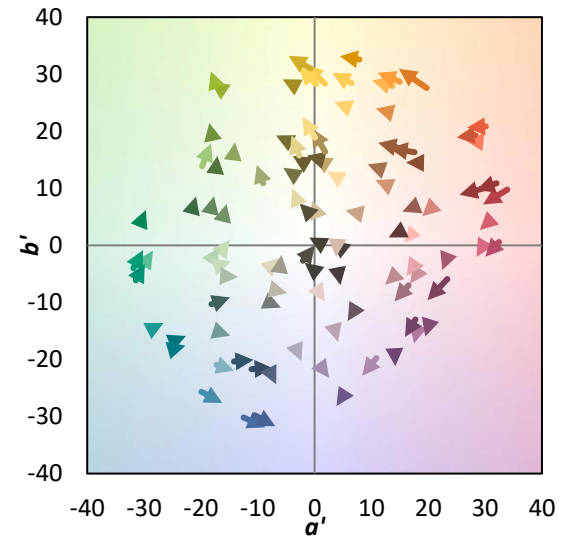
TM-30-18

Summary

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



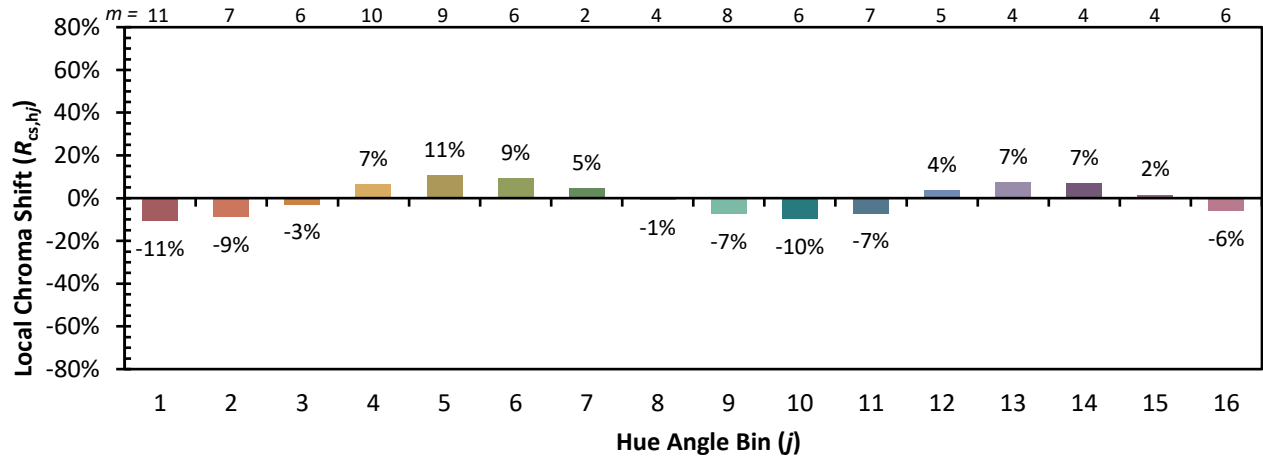
Color Vector Graphics

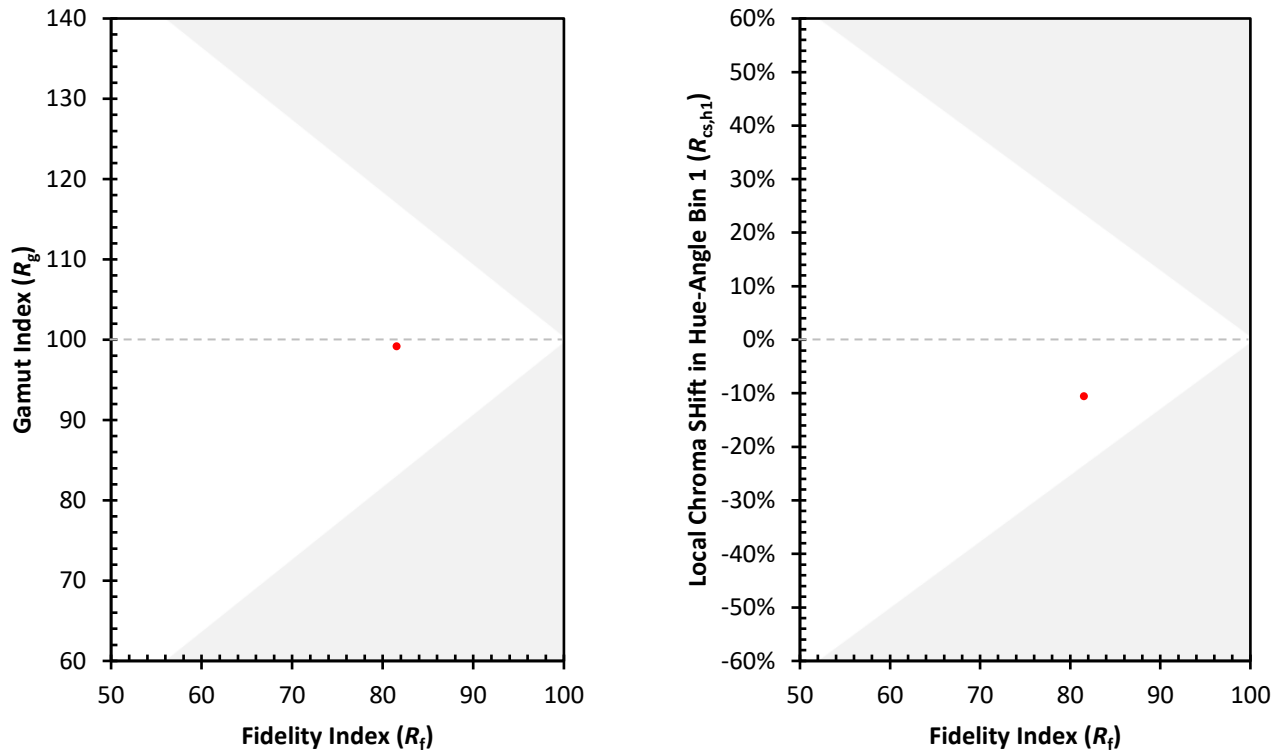


Individual Sample Fidelity Index ($R_{f,i}$)

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	



Color Rendition by Hue-Angle Bin


Measure Comparisons


(END OF REPORT)