

Signify Classified - Internal
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: P323367

Luminaire Tested: **GLEON-SA3C-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14212 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

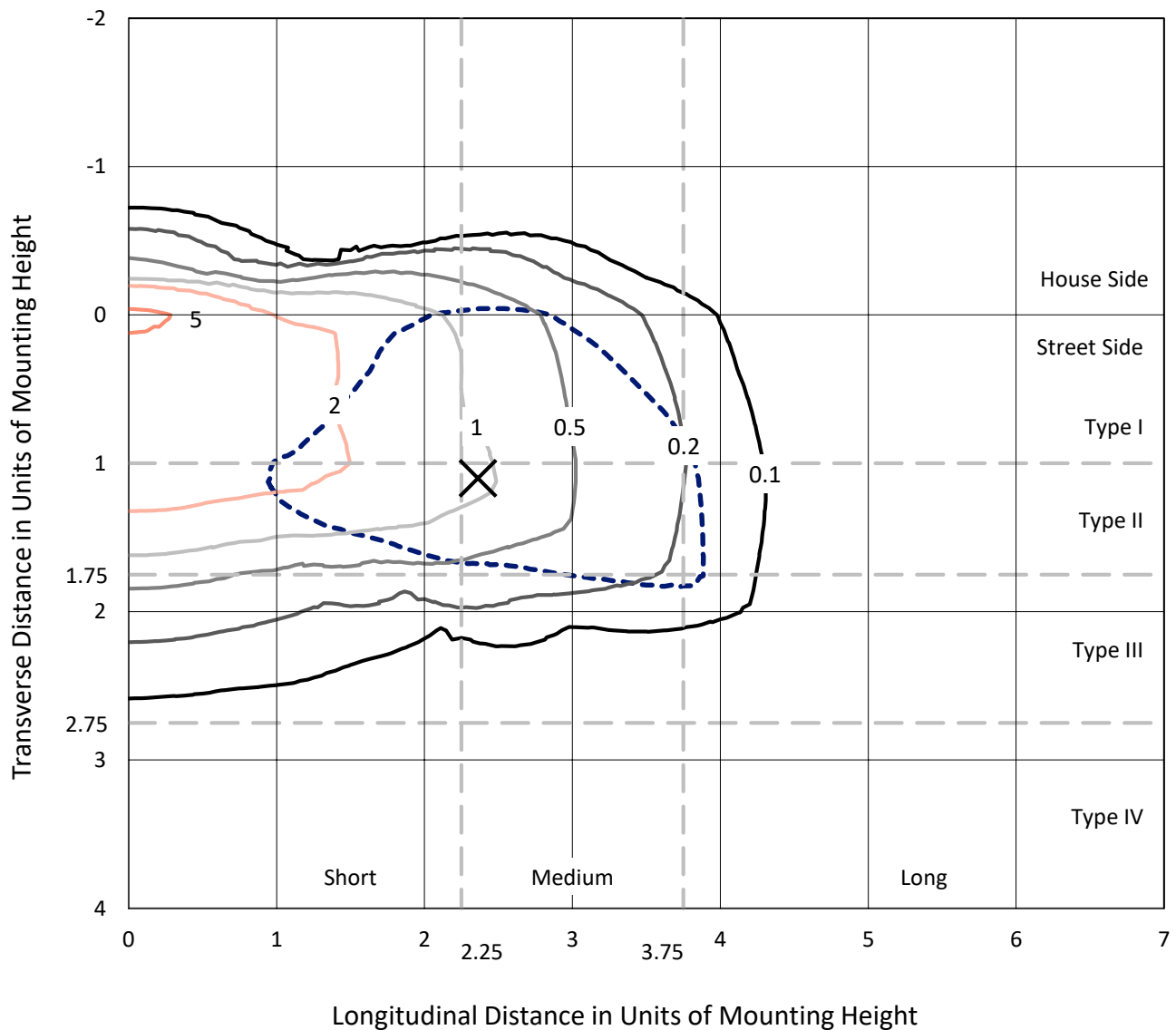
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

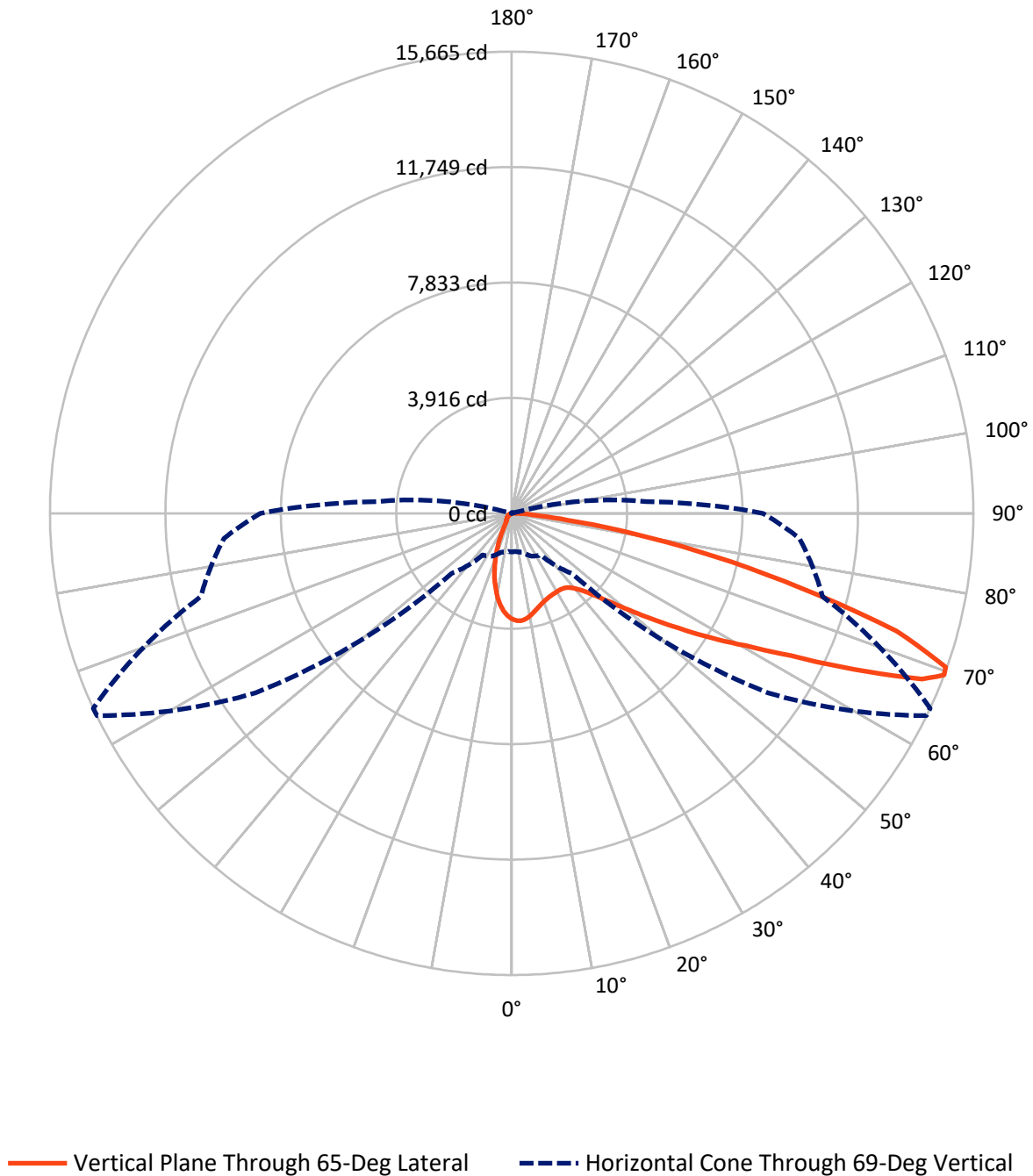
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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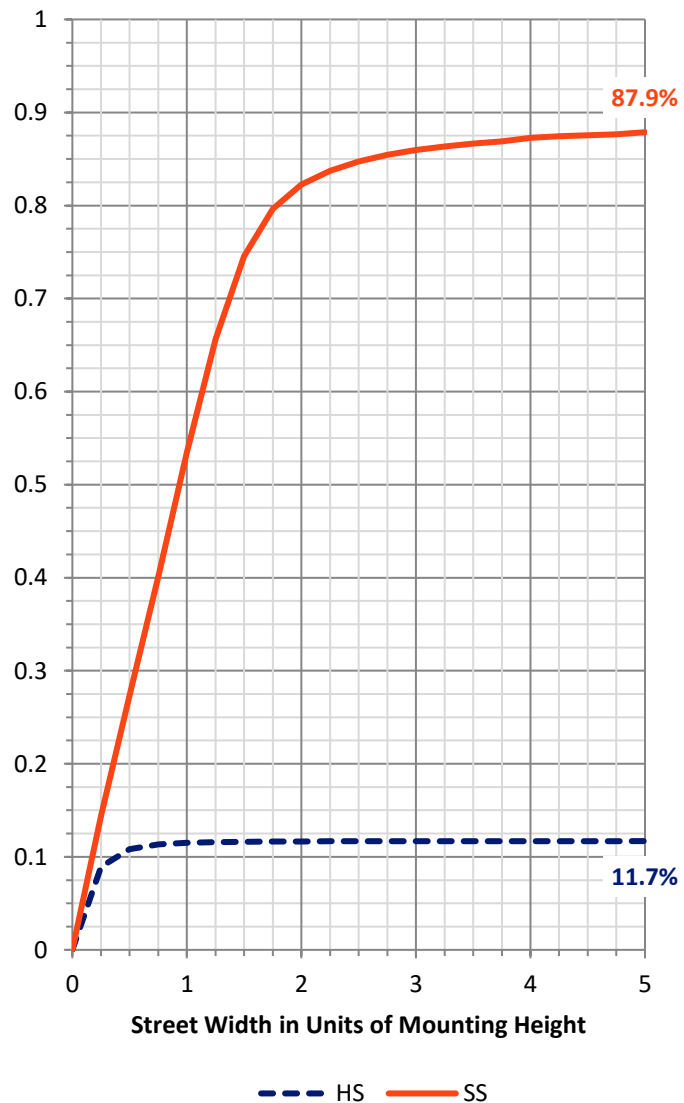
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1675.2	0.0	1675.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	12536.7	0.0	12536.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	14212.0	0.0	14212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.3	2.1
10°-20°	657.4	4.6
20°-30°	910.5	6.4
30°-40°	1269.6	8.9
40°-50°	1973.3	13.9
50°-60°	3168.0	22.3
60°-70°	3583.5	25.2
70°-80°	2104.6	14.8
80°-90°	244.8	1.7
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°	14212.0	100.0
0°-180°	14212.0	100.0

Coefficient of Utilization



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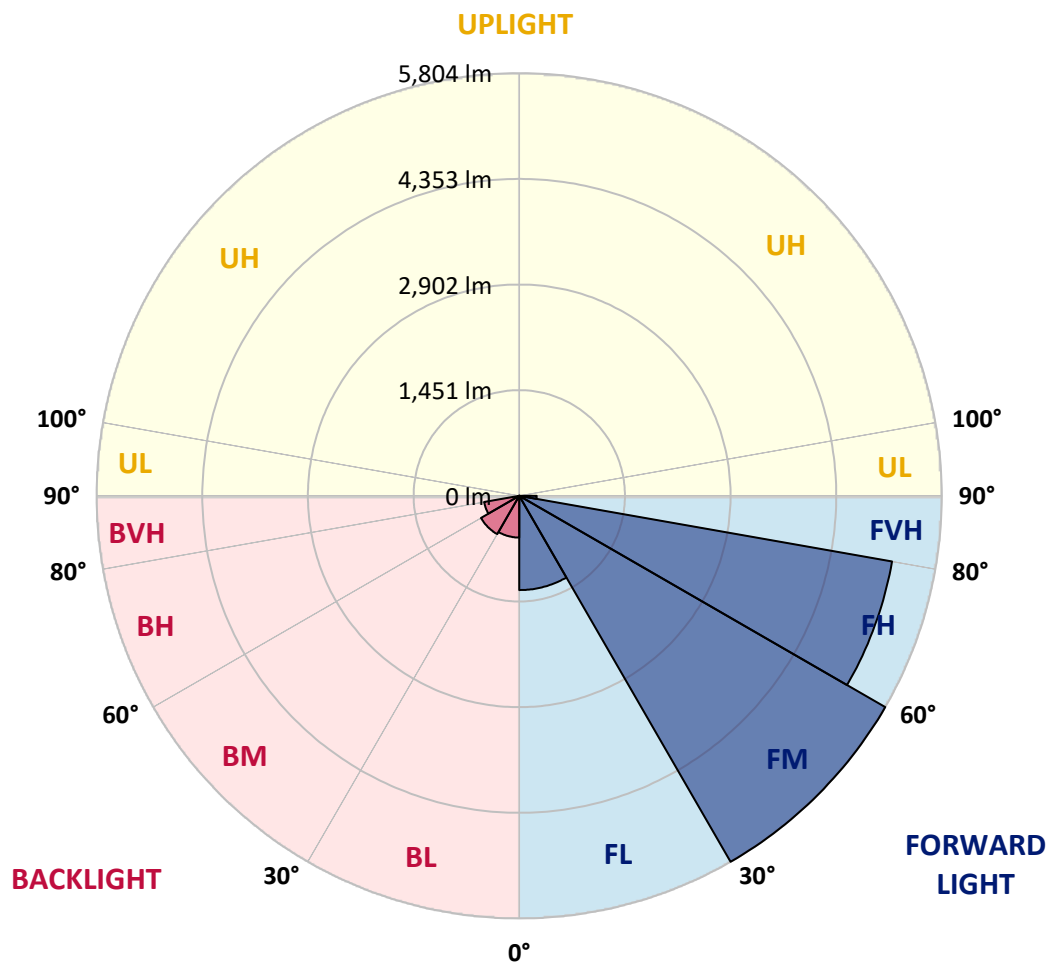
CATALOG NUMBER: GLEON-SA3C-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1295.0	9.1			
FM	(30°-60°)	5803.8	40.8			
FH	(60°-80°)	5198.6	36.6			G3/7500
FVH	(80°-90°)	239.3	1.7			G3/500
BL	(0°-30°)	573.2	4.0	B2/1000		
BM	(30°-60°)	607.1	4.3	B1/1000		
BH	(60°-80°)	489.5	3.4	B1/500		G1/500
BVH	(80°-90°)	5.5	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3591.4	3591.4	3591.4	3591.4	3591.4	3591.4	3591.4	3591.4	3591.4	3591.4	3591.4
2.5°	3623.3	3614.2	3621.5	3637.1	3644.9	3644.9	3650.9	3643.7	3646.1	3628.7	3603.4
5°	3396.6	3382.7	3402.6	3446.5	3500.6	3546.9	3615.5	3651.5	3655.1	3655.7	3626.3
7.5°	3152.4	3139.8	3169.2	3221.0	3290.7	3376.7	3496.4	3601.0	3607.0	3663.6	3641.9
10°	2953.9	2944.9	2979.2	3034.5	3116.3	3212.5	3359.3	3504.8	3522.2	3647.3	3639.5
12.5°	2796.4	2789.2	2821.6	2885.4	2969.0	3075.4	3228.8	3397.8	3421.2	3610.6	3627.5
15°	2681.5	2680.3	2707.4	2768.7	2861.3	2960.6	3117.5	3298.5	3325.6	3571.0	3625.7
17.5°	2621.4	2623.2	2643.0	2695.4	2774.7	2873.4	3023.7	3214.9	3244.4	3535.5	3634.7
20°	2615.4	2617.2	2628.0	2657.5	2721.8	2809.0	2947.3	3144.6	3175.2	3509.0	3649.1
22.5°	2668.3	2667.1	2670.1	2667.1	2703.2	2769.3	2896.8	3090.5	3125.9	3491.6	3660.6
25°	2769.9	2768.1	2766.9	2744.7	2720.6	2756.1	2875.8	3059.8	3093.5	3478.9	3667.2
27.5°	2911.2	2910.0	2908.2	2871.6	2799.4	2777.1	2878.2	3048.4	3076.6	3468.7	3666.0
30°	3097.1	3105.5	3103.1	3052.0	2939.5	2841.5	2903.4	3042.3	3067.0	3448.9	3653.3
32.5°	3315.4	3332.2	3345.4	3290.7	3150.0	2969.0	2961.8	3049.0	3067.0	3433.8	3630.5
35°	3542.1	3563.7	3612.4	3593.2	3408.0	3160.8	3062.2	3088.6	3103.7	3442.3	3619.7
37.5°	3765.2	3791.1	3896.9	3952.8	3746.0	3414.6	3218.5	3186.7	3194.5	3493.4	3631.7
40°	4024.4	4063.5	4224.0	4314.2	4149.5	3754.4	3452.5	3355.1	3358.1	3605.8	3687.6
42.5°	4364.8	4405.1	4578.9	4720.2	4604.1	4183.7	3770.0	3612.4	3609.4	3816.3	3819.3
45°	4779.7	4821.8	5001.6	5158.6	5106.3	4692.5	4176.5	3988.3	3984.7	4148.3	4068.9
47.5°	5250.0	5291.5	5452.0	5613.8	5670.3	5286.7	4694.3	4501.3	4492.9	4609.5	4454.4
50°	5653.5	5680.6	5828.5	6046.2	6301.2	6016.7	5338.4	5152.6	5143.5	5222.3	5020.3
52.5°	5800.2	5815.9	5966.2	6271.1	6907.4	7005.4	6184.5	5945.2	5938.6	5972.8	5773.8
55°	5503.2	5531.4	5716.0	6168.3	7235.7	8122.7	7252.6	6926.6	6876.7	6802.7	6561.6
57.5°	4693.7	4738.8	4937.3	5538.6	7082.4	9009.2	8822.1	8036.7	7963.4	7511.1	7202.0
60°	3516.8	3572.2	3736.9	4385.8	6263.9	9324.9	10537.3	9273.8	9108.4	8075.2	7790.8
62.5°	2413.3	2441.0	2552.8	2975.6	4613.1	8807.7	11972.1	10930.5	10628.7	8688.6	8427.6
65°	1843.2	1852.8	1898.5	2044.1	2747.1	7154.5	12542.8	13116.5	12751.5	9422.3	9088.5
67.5°	1485.4	1477.6	1540.7	1748.8	1839.6	4364.8	11877.1	15184.7	15013.9	10403.1	9753.7
69°	1309.8	1299.0	1363.3	1605.1	1727.7	2885.4	10617.8	15654.3	15665.2	10920.9	9799.4
70°	1178.7	1185.9	1249.7	1519.7	1689.9	2264.8	9415.1	15534.7	15620.1	11114.6	9525.1
72.5°	787.2	806.4	934.5	1261.7	1624.9	1713.9	5684.8	13330.6	13659.0	10678.6	8172.1
75°	443.8	458.2	610.4	951.4	1531.1	1632.1	3002.7	9821.0	10138.5	8929.8	6301.8
77.5°	217.7	225.5	345.2	614.0	1280.3	1555.1	1703.1	6671.0	7033.7	5828.5	3564.3
80°	92.0	96.2	172.6	378.9	915.3	1484.2	1264.7	4105.6	4150.7	2283.4	949.6
82.5°	35.5	36.7	72.8	236.3	581.5	1157.0	1057.8	1946.6	1899.7	430.0	216.5
85°	4.2	4.8	26.5	141.9	323.5	595.4	859.4	838.9	776.4	85.4	111.3
87.5°	0.0	0.0	1.8	43.3	96.2	279.0	446.8	348.2	313.9	27.7	57.7
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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CATALOG NUMBER: GLEON-SA3C-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3591.4	3591.4	3591.4	3591.4	3591.4	3591.4	3591.4	3591.4	3591.4	3591.4	3591.4
2.5°	3582.4	3576.4	3543.9	3497.0	3452.5	3397.2	3344.2	3312.4	3287.1	3270.3	3290.1
5°	3592.0	3565.5	3466.9	3340.6	3216.7	3077.2	2947.3	2837.3	2794.0	2745.9	2767.5
7.5°	3589.0	3539.1	3361.7	3136.8	2909.4	2674.3	2451.8	2280.4	2191.4	2104.2	2126.5
10°	3574.0	3489.8	3221.0	2887.8	2547.4	2209.4	1893.7	1653.8	1519.7	1398.2	1415.6
12.5°	3540.9	3423.6	3055.0	2602.7	2147.5	1701.9	1332.0	1024.7	860.0	787.2	796.2
15°	3521.0	3359.3	2879.4	2314.1	1720.5	1185.3	814.3	605.6	530.4	506.4	509.4
17.5°	3511.4	3297.3	2697.8	1983.9	1283.9	754.7	526.2	464.3	448.0	443.8	445.0
20°	3501.8	3234.8	2510.7	1657.4	884.6	507.6	432.4	414.3	408.3	402.9	404.1
22.5°	3485.6	3174.6	2309.9	1326.6	596.6	411.9	389.7	372.2	359.6	353.0	354.2
25°	3465.7	3111.5	2104.8	988.1	435.4	367.4	346.4	321.7	306.7	294.7	295.3
27.5°	3433.8	3033.9	1893.1	719.2	365.6	329.0	300.7	273.6	248.4	234.5	234.5
30°	3389.3	2946.1	1658.0	514.8	327.7	291.1	256.8	223.1	196.0	183.4	182.2
32.5°	3340.0	2854.7	1420.4	390.3	297.7	255.6	216.5	181.0	157.0	146.7	146.1
35°	3297.9	2756.1	1183.5	327.1	267.6	221.3	178.6	148.5	129.3	120.9	120.3
37.5°	3270.9	2657.5	952.6	292.3	240.5	189.4	149.7	122.7	108.8	102.2	101.6
40°	3266.7	2584.1	741.5	265.8	215.3	161.2	125.1	104.0	91.4	84.2	83.6
42.5°	3321.4	2542.0	568.9	243.6	189.4	136.5	106.4	89.0	75.8	68.6	68.0
45°	3465.1	2555.2	437.8	223.7	163.6	115.5	90.2	74.0	61.9	56.5	55.3
47.5°	3727.3	2646.6	348.2	203.9	138.9	98.0	77.0	61.3	51.1	45.7	45.1
50°	4194.0	2861.3	291.1	182.2	116.1	83.6	63.7	49.9	41.5	36.7	36.1
52.5°	4813.4	3243.8	259.8	161.2	96.2	71.0	52.3	39.7	32.5	28.9	28.3
55°	5496.5	3706.9	239.3	138.3	78.8	58.9	41.5	31.3	25.3	22.3	21.0
57.5°	6163.5	4108.0	220.1	116.1	65.5	48.1	33.1	24.7	19.8	16.8	16.2
60°	6776.3	4476.6	197.9	93.2	53.5	37.9	25.9	19.2	15.6	12.6	12.6
62.5°	7432.4	4761.7	167.2	72.8	43.9	28.9	21.0	17.4	12.6	10.8	10.2
65°	8127.6	4973.4	131.1	56.5	34.3	21.6	17.4	18.0	10.2	7.8	7.2
67.5°	8641.1	4931.3	96.8	44.5	26.5	16.8	16.8	19.2	9.0	6.0	5.4
69°	8528.1	4589.1	81.2	38.5	22.9	14.4	15.6	19.2	8.4	5.4	4.8
70°	8200.3	4210.2	71.6	34.3	20.4	13.2	15.0	18.6	7.8	5.4	4.8
72.5°	6829.2	3171.0	55.9	25.9	16.2	10.8	12.6	16.2	7.8	5.4	4.2
75°	5136.9	2029.6	42.7	18.6	12.0	8.4	9.6	12.0	7.8	4.8	4.2
77.5°	2795.2	731.9	30.7	12.6	8.4	6.6	6.6	9.0	7.2	3.6	2.4
80°	718.6	184.0	19.2	8.4	6.6	4.8	4.2	6.0	4.2	0.6	0.0
82.5°	177.4	41.5	10.2	6.0	4.8	1.8	1.8	3.0	1.8	0.0	0.0
85°	97.4	20.4	6.6	4.2	2.4	0.0	0.0	0.6	0.0	0.0	0.0
87.5°	49.9	6.0	1.8	1.2	0.6	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



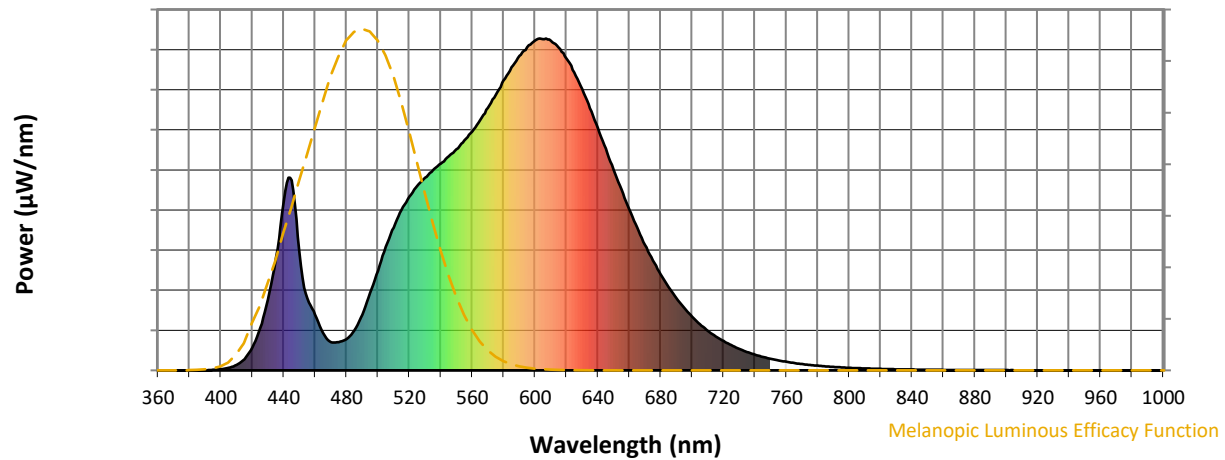
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /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 $\text{W}^\wedge/\text{nm}$	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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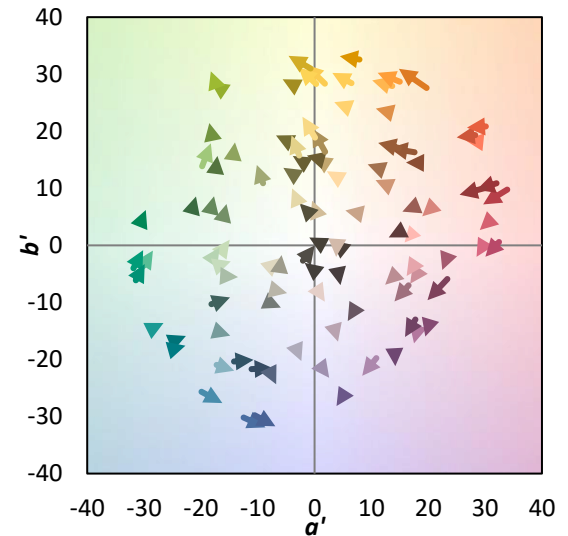
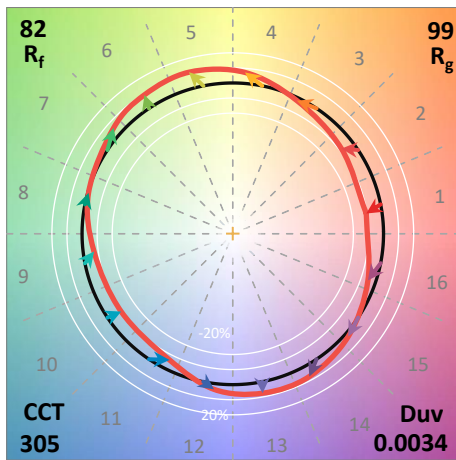
TM-30-18

Summary

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



Color Vector Graphics

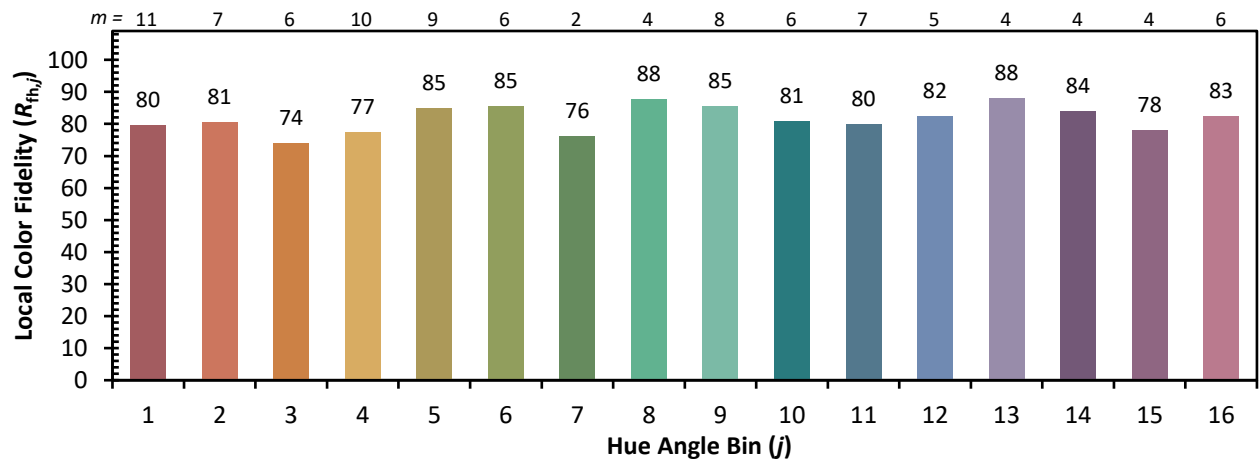
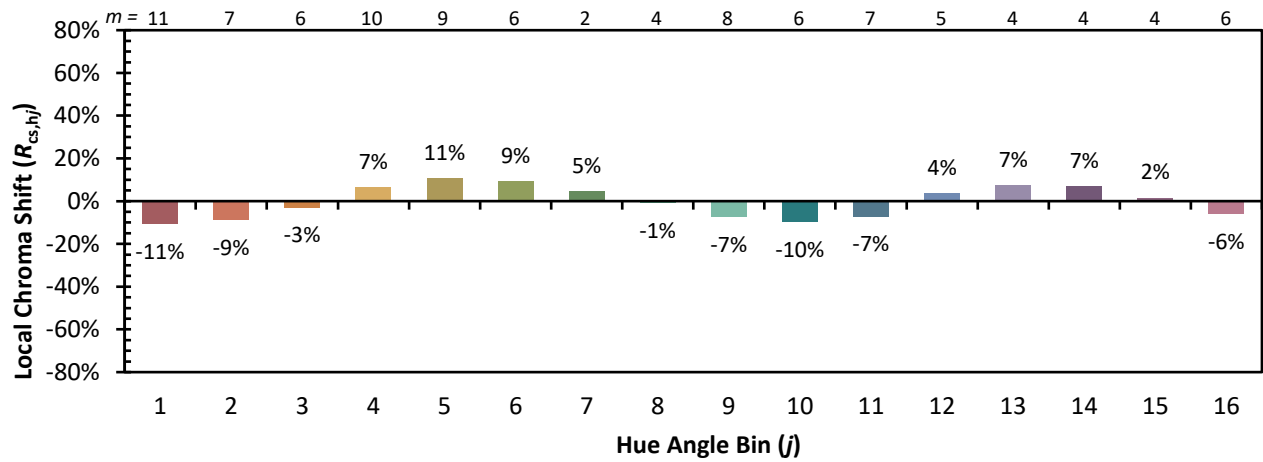


Individual Sample Fidelity Index ($R_{f,i}$)

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)