

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: P323043

Luminaire Tested: **GLEON-SA9B-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323043
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-SA9B-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 29425 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

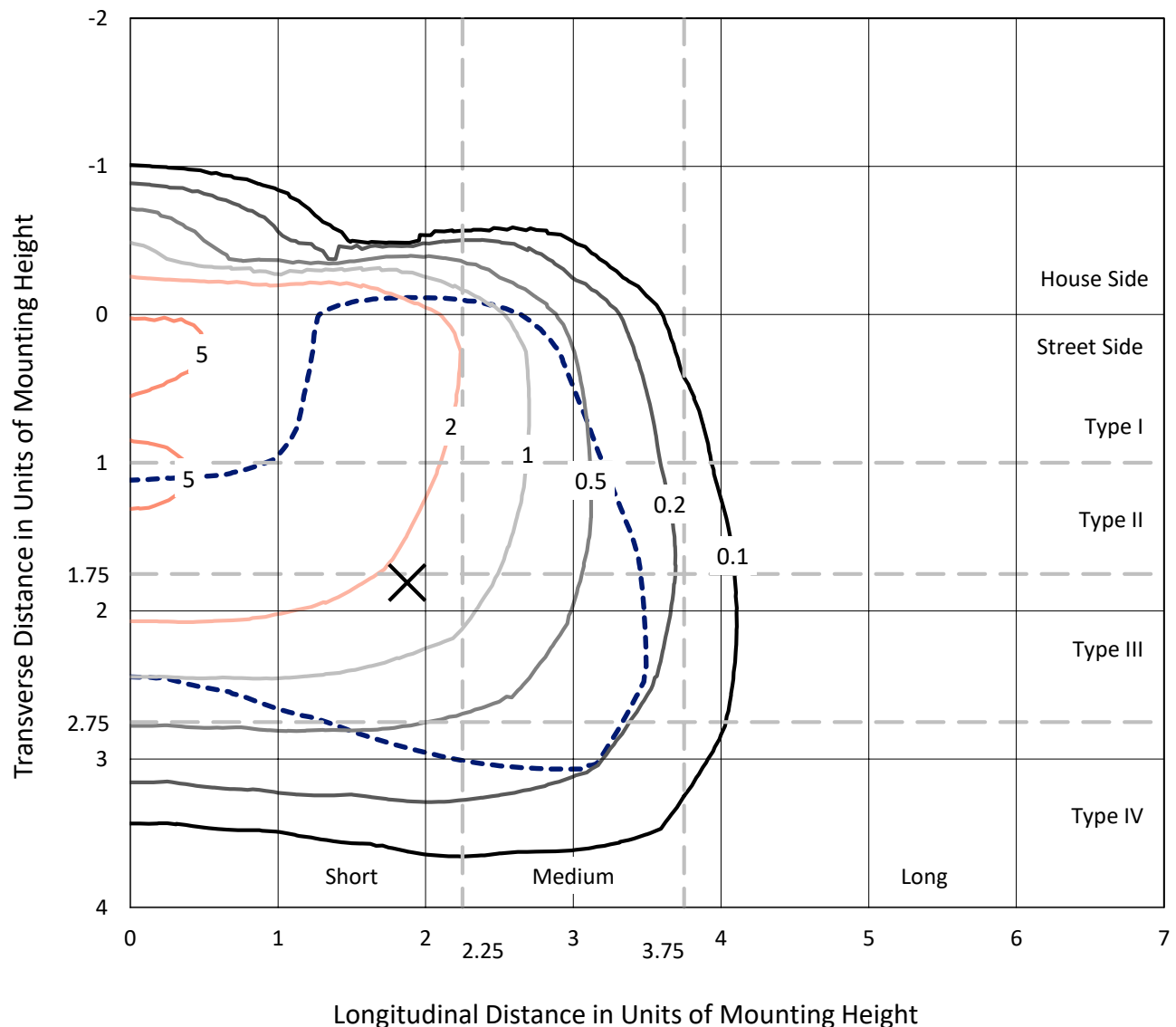
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323043
 CATALOG NUMBER: GLEON-SA9B-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

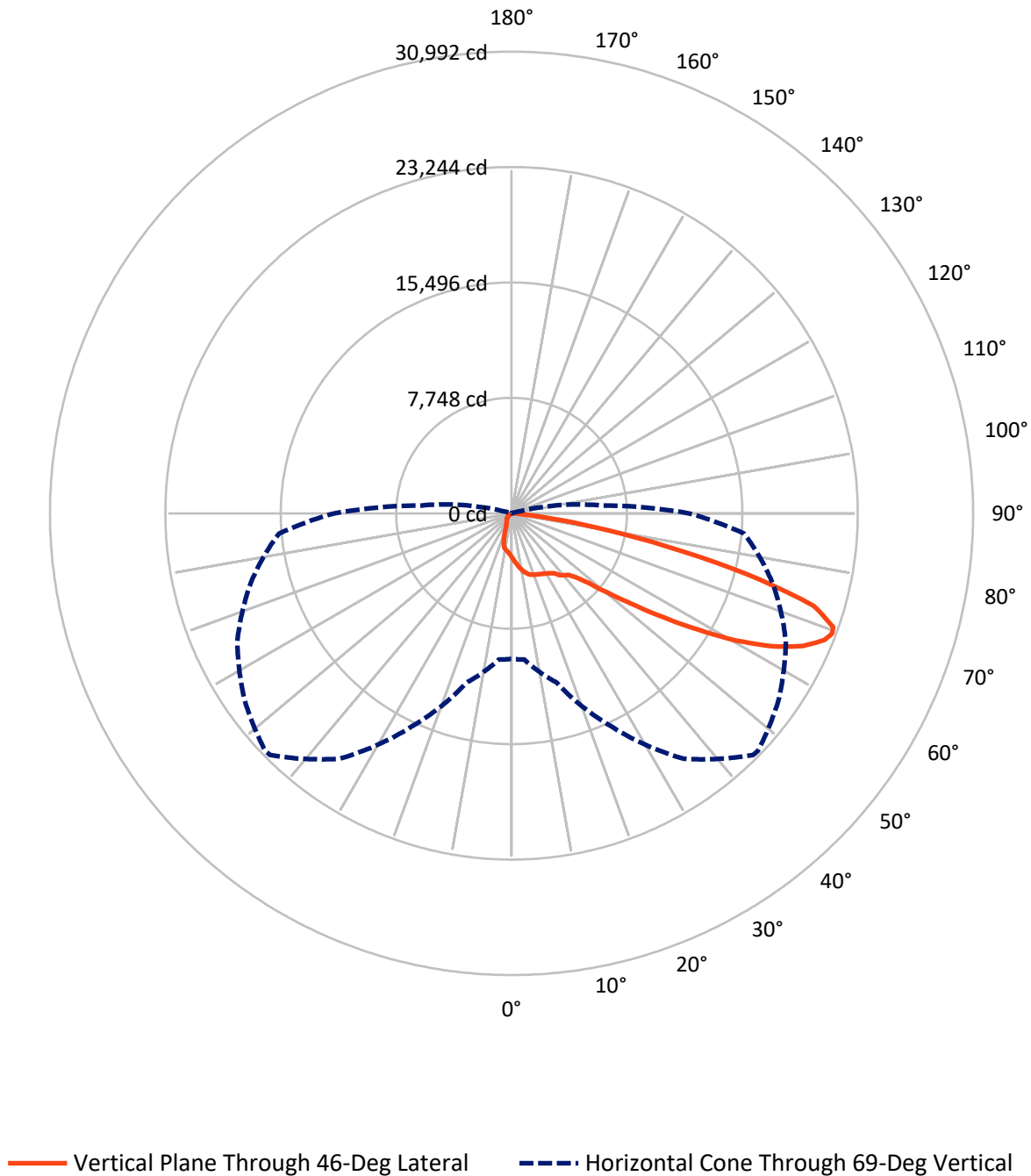
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3019.8	0.0	3019.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	26405.2	0.0	26405.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	29425.0	0.0	29425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.5	1.0
10°-20°	890.3	3.0
20°-30°	1400.1	4.8
30°-40°	2007.8	6.8
40°-50°	3470.2	11.8
50°-60°	6855.6	23.3
60°-70°	9581.3	32.6
70°-80°	4628.8	15.7
80°-90°	297.5	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°	29425.0	100.0
0°-180°	29425.0	100.0

Coefficient of Utilization



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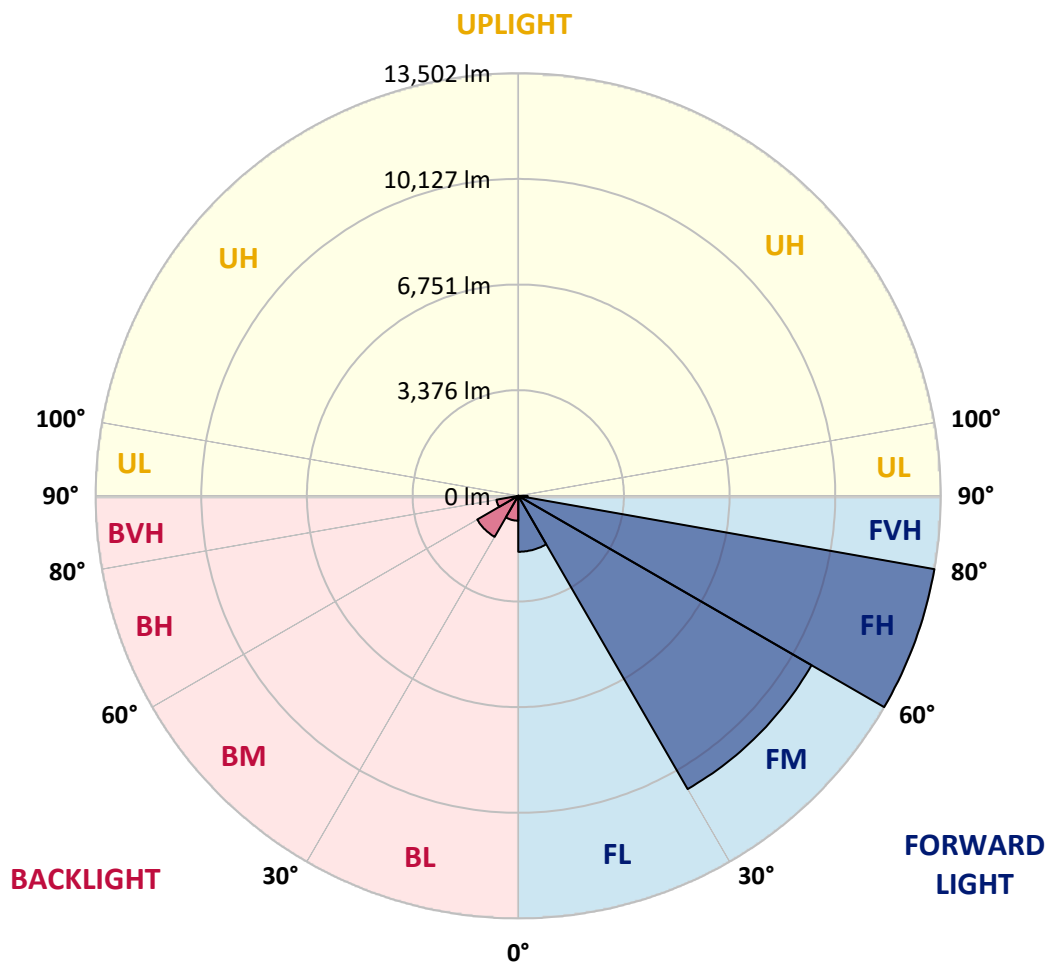
CATALOG NUMBER: GLEON-SA9B-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1787.9	6.1			
FM	(30°-60°)	10820.2	36.8			
FH	(60°-80°)	13502.0	45.9			G5
FVH	(80°-90°)	295.0	1.0			G3/500
BL	(0°-30°)	795.9	2.7	B2/1000		
BM	(30°-60°)	1513.3	5.1	B2/2500		
BH	(60°-80°)	708.1	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.5	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2948.3	2948.3	2948.3	2948.3	2948.3	2948.3	2948.3	2948.3	2948.3	2948.3	2948.3
2.5°	3275.2	3271.1	3251.8	3243.5	3196.6	3169.0	3158.0	3123.5	3073.8	3024.2	2969.0
5°	3647.7	3646.4	3610.5	3576.0	3487.7	3404.9	3389.8	3309.7	3198.0	3093.1	2988.3
7.5°	4028.5	4010.6	3974.7	3908.5	3780.2	3647.7	3635.3	3522.2	3363.5	3211.8	3061.4
10°	4351.4	4340.3	4293.4	4192.7	4042.3	3891.9	3876.8	3737.4	3558.1	3371.8	3180.1
12.5°	4602.5	4594.2	4532.1	4406.5	4246.5	4090.6	4069.9	3945.7	3754.0	3545.7	3319.4
15°	4755.6	4751.5	4675.6	4541.8	4384.5	4249.3	4231.3	4122.3	3944.4	3726.4	3471.2
17.5°	4791.5	4792.8	4714.2	4579.0	4449.3	4352.7	4338.9	4256.2	4107.2	3890.6	3622.9
20°	4711.4	4728.0	4657.6	4540.4	4460.4	4409.3	4398.3	4348.6	4223.1	4018.9	3744.3
22.5°	4598.3	4606.6	4558.3	4479.7	4446.6	4456.2	4450.7	4423.1	4316.9	4129.2	3864.4
25°	4529.3	4529.3	4500.4	4434.1	4456.2	4515.5	4516.9	4511.4	4427.2	4264.4	4010.6
27.5°	4526.6	4518.3	4485.2	4435.5	4496.2	4587.3	4592.8	4630.0	4577.6	4428.6	4192.7
30°	4636.9	4627.3	4556.9	4492.1	4569.3	4667.3	4681.1	4762.5	4736.3	4606.6	4395.5
32.5°	4894.9	4860.4	4704.5	4598.3	4656.3	4773.5	4791.5	4921.1	4962.5	4826.0	4591.4
35°	5248.1	5139.1	4914.3	4799.7	4805.3	4928.0	4944.6	5135.0	5257.8	5027.4	4743.2
37.5°	5735.1	5681.3	5315.7	5009.4	5034.3	5220.5	5268.8	5475.8	5441.3	5137.8	4915.6
40°	6803.0	6718.8	6329.8	5597.2	5253.6	5457.8	5473.0	5583.4	5586.1	5387.5	5274.3
42.5°	8257.1	8222.6	7812.9	6663.6	5685.5	5616.5	5644.1	5830.3	6038.7	5914.5	5909.0
45°	9867.1	9849.2	9414.6	8079.1	6558.8	6136.6	6171.1	6420.8	6819.5	6847.1	7022.3
47.5°	11162.6	11154.3	10904.6	9658.8	7895.6	7018.2	7029.2	7294.1	7995.0	8341.3	8621.3
50°	12343.6	12383.6	12186.3	11368.2	9716.8	8399.2	8373.0	8549.6	9675.4	10242.4	10590.1
52.5°	13985.3	14041.9	13488.7	12963.0	11627.5	10112.7	10092.0	10276.9	11695.1	12120.1	12182.2
55°	15435.3	15338.8	14901.4	14749.7	13957.7	12229.1	12223.5	12386.3	13648.7	13829.4	13943.9
57.5°	16075.5	16038.2	16249.3	16597.0	16398.3	14730.3	14717.9	14593.8	15396.7	15416.0	15767.8
60°	16479.7	16525.2	17172.3	18244.3	18739.6	17422.0	17342.0	16584.6	17066.1	17023.3	17399.9
62.5°	16176.2	16265.9	17430.3	19216.9	20491.7	19771.5	19658.4	18408.4	18492.6	18345.0	18695.4
65°	14564.8	14704.1	16612.2	19033.4	21360.9	21607.8	21493.3	20018.5	19625.3	19382.5	19187.9
67.5°	11826.2	11909.0	13901.2	17437.2	20969.0	22703.2	22679.8	21429.8	20480.6	19207.2	17697.9
69°	9773.3	9854.7	11772.4	15756.8	20106.8	22937.8	22983.3	21882.4	20317.9	18142.2	15680.9
70°	8277.8	8364.7	10151.3	14316.4	19106.5	22828.8	22910.2	21839.6	19851.5	16908.8	13910.8
72.5°	4341.7	4416.2	6249.7	9863.0	15576.1	20962.1	21209.1	19993.6	16827.4	12280.1	8225.4
75°	1364.5	1407.2	2440.6	5155.7	10664.6	16299.0	16355.5	15683.7	11949.0	6754.7	3425.6
77.5°	520.1	507.7	812.6	1899.8	5391.6	10263.1	10609.4	9800.9	6270.4	2388.1	790.5
80°	280.1	281.4	422.2	786.4	2306.7	5274.3	5566.8	4750.1	2228.1	745.0	182.1
82.5°	121.4	126.9	237.3	416.6	1059.6	1945.3	2091.5	1741.1	851.2	500.8	67.6
85°	26.2	29.0	114.5	226.3	431.8	546.3	572.5	564.3	542.2	389.1	26.2
87.5°	0.0	0.0	51.0	81.4	109.0	124.2	109.0	142.1	299.4	262.1	13.8
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-SA9B-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2948.3	2948.3	2948.3	2948.3	2948.3	2948.3	2948.3	2948.3	2948.3	2948.3	2948.3
2.5°	2951.0	2926.2	2883.4	2836.5	2803.4	2768.9	2741.3	2728.9	2715.1	2705.5	2717.9
5°	2945.5	2897.2	2814.5	2734.4	2676.5	2629.6	2591.0	2575.8	2560.6	2549.6	2548.2
7.5°	2993.8	2926.2	2799.3	2682.0	2592.3	2528.9	2476.4	2454.4	2436.4	2428.2	2421.3
10°	3086.2	2999.3	2829.6	2676.5	2560.6	2453.0	2339.9	2252.9	2196.4	2170.2	2160.5
12.5°	3206.3	3097.3	2887.6	2705.5	2537.1	2330.2	2090.1	1883.2	1749.4	1705.2	1679.0
15°	3347.0	3211.8	2963.5	2742.7	2451.6	2073.6	1666.6	1396.2	1272.0	1247.2	1219.6
17.5°	3482.2	3333.2	3054.5	2749.6	2264.0	1656.9	1221.0	1037.5	989.2	1005.8	1009.9
20°	3600.8	3453.2	3144.2	2688.9	1923.2	1243.0	945.0	899.5	917.5	949.2	954.7
22.5°	3720.9	3569.1	3227.0	2528.9	1487.2	943.7	851.2	862.3	880.2	911.9	917.5
25°	3867.1	3709.8	3304.2	2235.0	1116.1	802.9	808.5	825.0	843.0	871.9	874.7
27.5°	4035.4	3887.8	3355.3	1852.8	827.8	738.1	756.0	780.9	798.8	826.4	831.9
30°	4258.9	4122.3	3371.8	1456.9	694.0	680.2	688.4	718.8	745.0	769.8	774.0
32.5°	4468.6	4354.1	3316.6	1099.6	642.9	626.4	626.4	644.3	674.6	698.1	703.6
35°	4661.8	4587.3	3140.0	804.3	604.3	576.7	562.9	562.9	582.2	601.5	607.0
37.5°	4917.0	4914.3	2854.5	641.5	567.0	535.3	506.3	484.3	477.4	481.5	484.3
40°	5354.4	5358.5	2482.0	575.3	535.3	492.5	448.4	408.4	371.1	358.7	357.3
42.5°	6037.3	5975.2	2091.5	543.6	507.7	448.4	382.2	328.4	270.4	252.5	251.1
45°	7121.7	6753.3	1677.6	514.6	478.7	398.7	315.9	242.8	195.9	182.1	182.1
47.5°	8701.3	7775.6	1299.6	482.9	440.1	342.1	238.7	175.2	143.5	136.6	138.0
50°	10334.8	8777.2	996.1	442.9	393.2	282.8	176.6	126.9	109.0	109.0	110.4
52.5°	11783.4	9511.2	776.7	400.1	335.3	222.1	133.8	99.3	91.1	89.7	91.1
55°	13139.6	9984.4	594.6	350.4	266.3	165.6	102.1	81.4	75.9	73.1	71.7
57.5°	14447.5	10218.9	445.6	282.8	193.1	120.0	81.4	69.0	63.5	59.3	57.9
60°	15318.1	10028.5	306.3	208.3	133.8	86.9	67.6	59.3	52.4	48.3	46.9
62.5°	15809.2	9508.4	197.3	150.4	95.2	64.8	53.8	49.7	40.0	35.9	35.9
65°	15610.5	8650.3	138.0	107.6	69.0	48.3	40.0	40.0	29.0	23.5	22.1
67.5°	13833.6	7307.9	104.9	80.0	49.7	35.9	30.4	34.5	17.9	11.0	11.0
69°	11902.1	6056.6	89.7	66.2	41.4	29.0	26.2	31.7	12.4	8.3	6.9
70°	10344.5	5224.7	81.4	57.9	34.5	24.8	23.5	30.4	12.4	6.9	5.5
72.5°	6189.0	2913.8	62.1	41.4	22.1	19.3	19.3	34.5	12.4	6.9	5.5
75°	2501.3	1026.4	45.5	29.0	16.6	16.6	23.5	44.1	11.0	5.5	4.1
77.5°	567.0	224.9	26.2	17.9	11.0	16.6	27.6	34.5	6.9	2.8	0.0
80°	138.0	55.2	16.6	11.0	6.9	12.4	20.7	19.3	1.4	0.0	0.0
82.5°	45.5	19.3	6.9	5.5	1.4	4.1	9.7	5.5	0.0	0.0	0.0
85°	19.3	11.0	2.8	1.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0
87.5°	12.4	4.1	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

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 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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Scotopic Flux vs. Wavelength



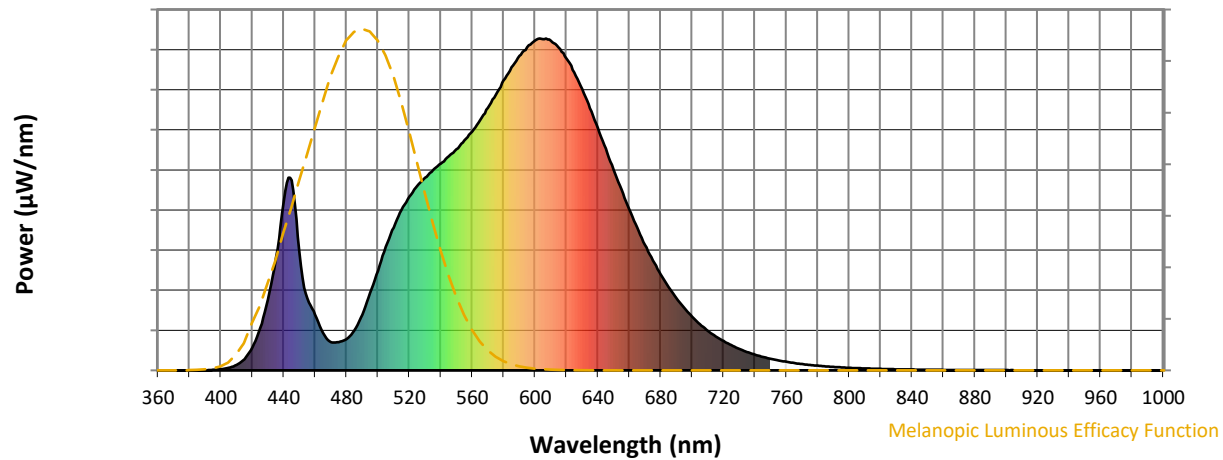
Scotopic Lumens: NR

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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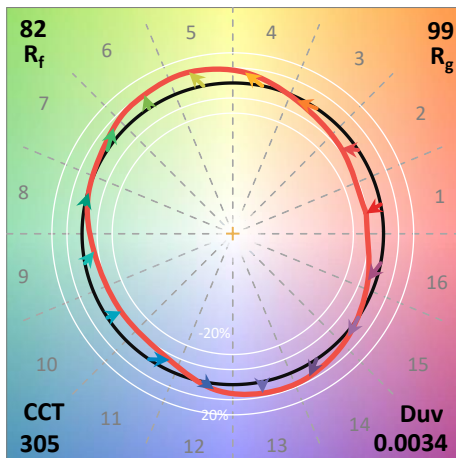
TM-30-18

Summary

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



Color Vector Graphics

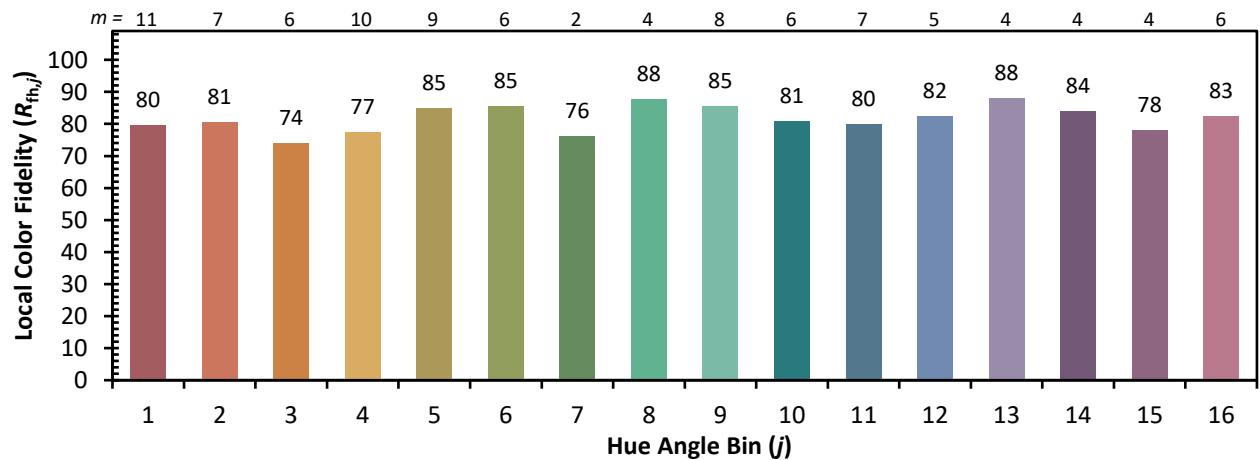
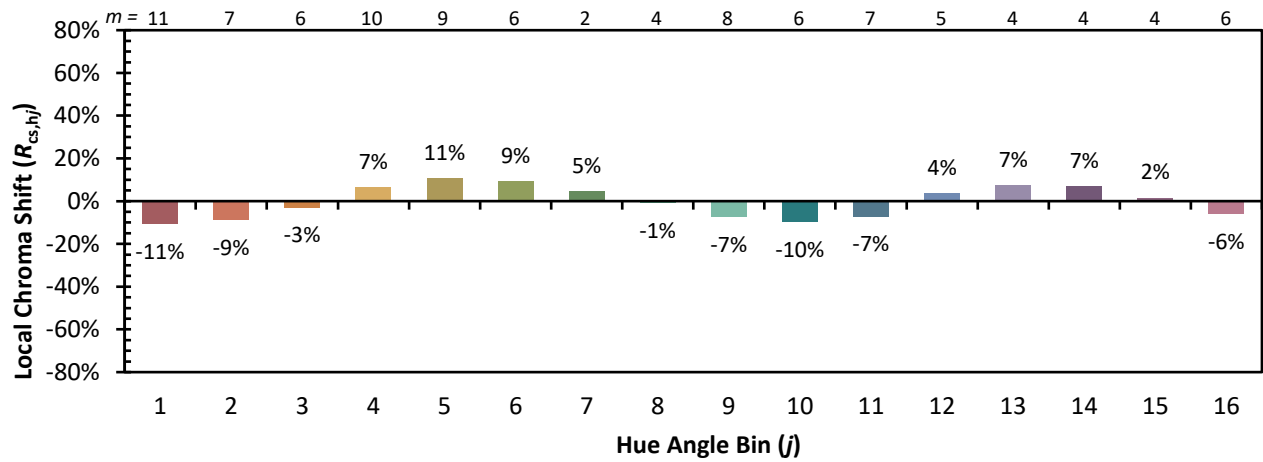


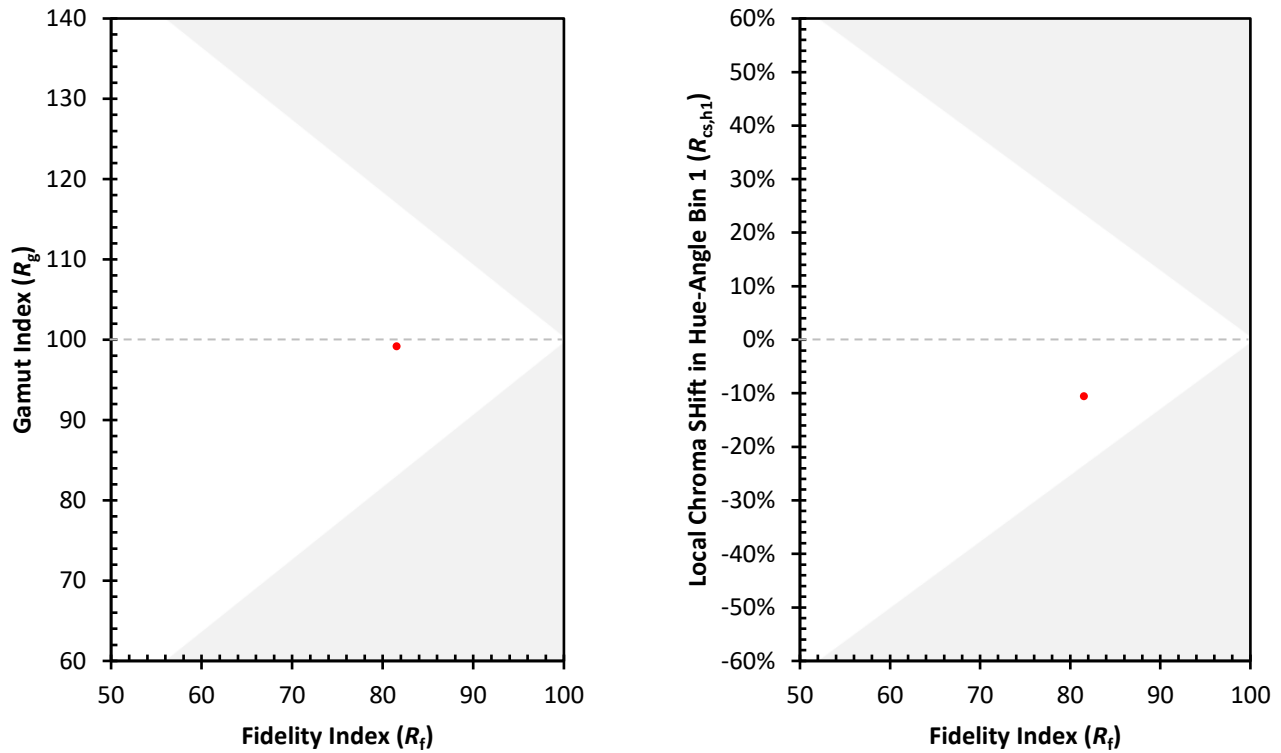
Individual Sample Fidelity Index ($R_{f,i}$)

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)