

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: P319222

Luminaire Tested: **GLEON-SA8D-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49070 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 511
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

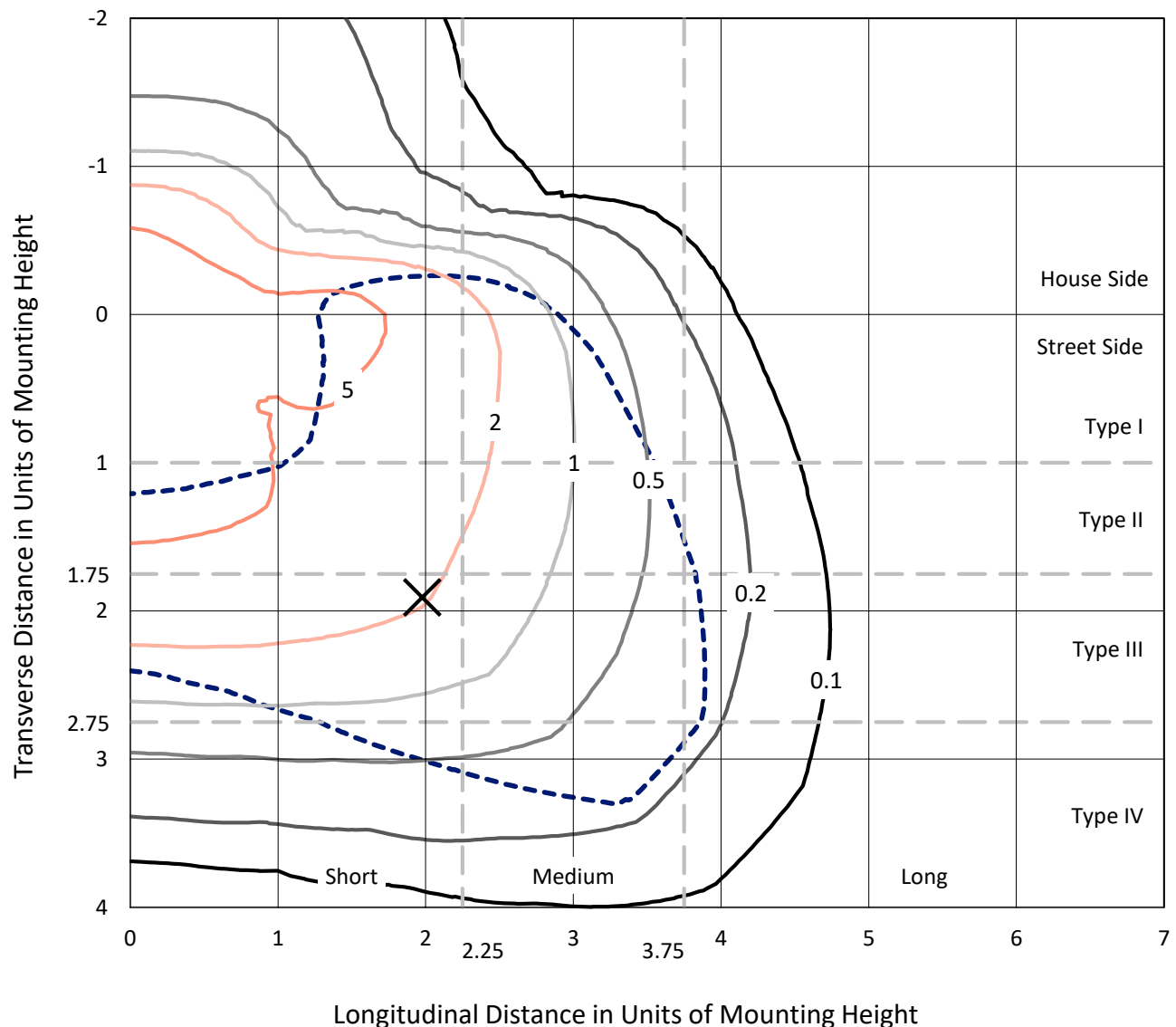


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CATALOG NUMBER: GLEON-SA8D-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

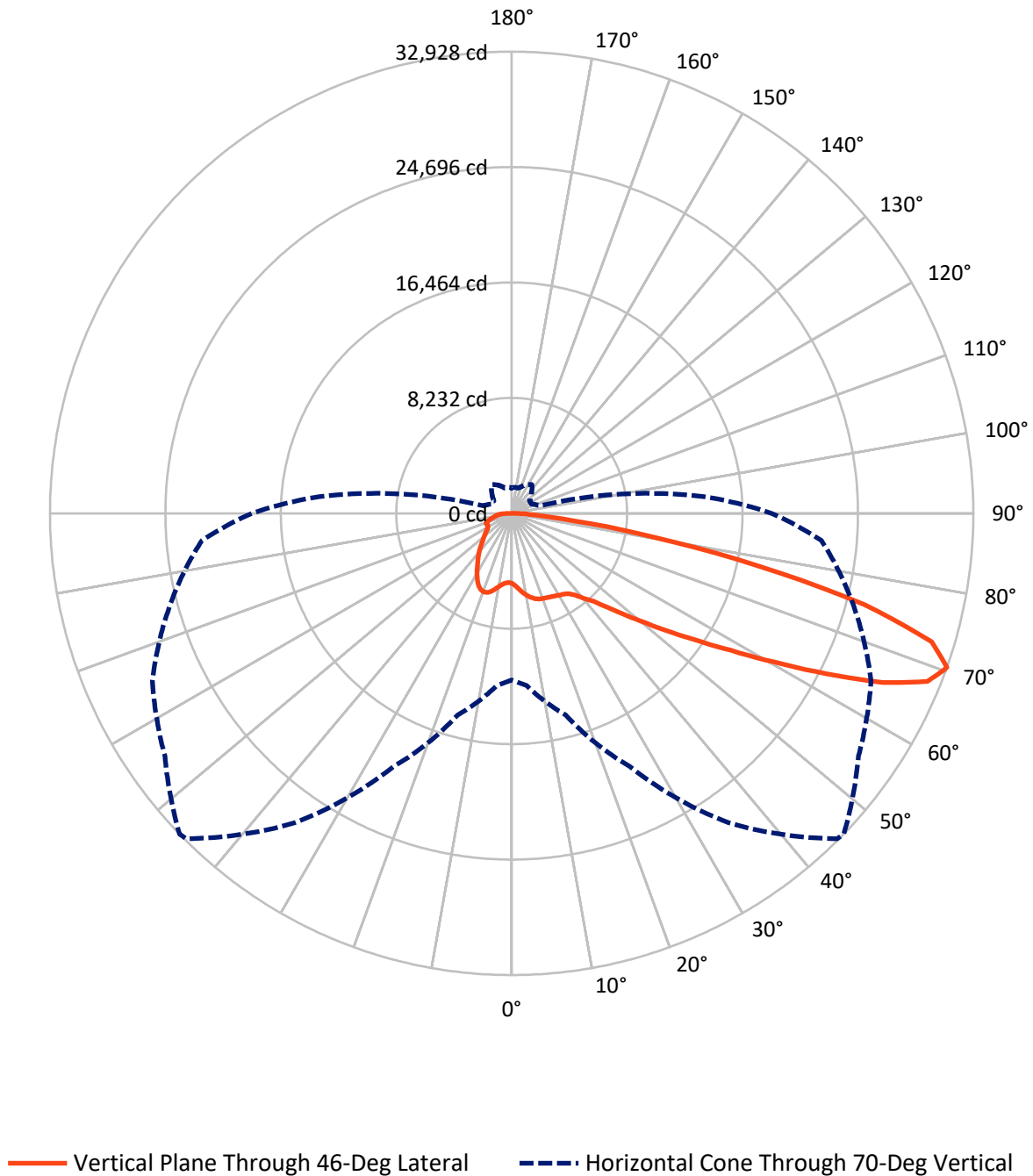
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA8D-830-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11246.7	0.0	11246.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	37823.3	0.0	37823.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	49070.0	0.0	49070.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.6	1.0
10°-20°	1698.0	3.5
20°-30°	2831.2	5.8
30°-40°	4017.6	8.2
40°-50°	5909.7	12.0
50°-60°	10008.0	20.4
60°-70°	14206.2	29.0
70°-80°	8630.4	17.6
80°-90°	1259.5	2.6
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°	49070.0	100.0
0°-180°	49070.0	100.0

Coefficient of Utilization



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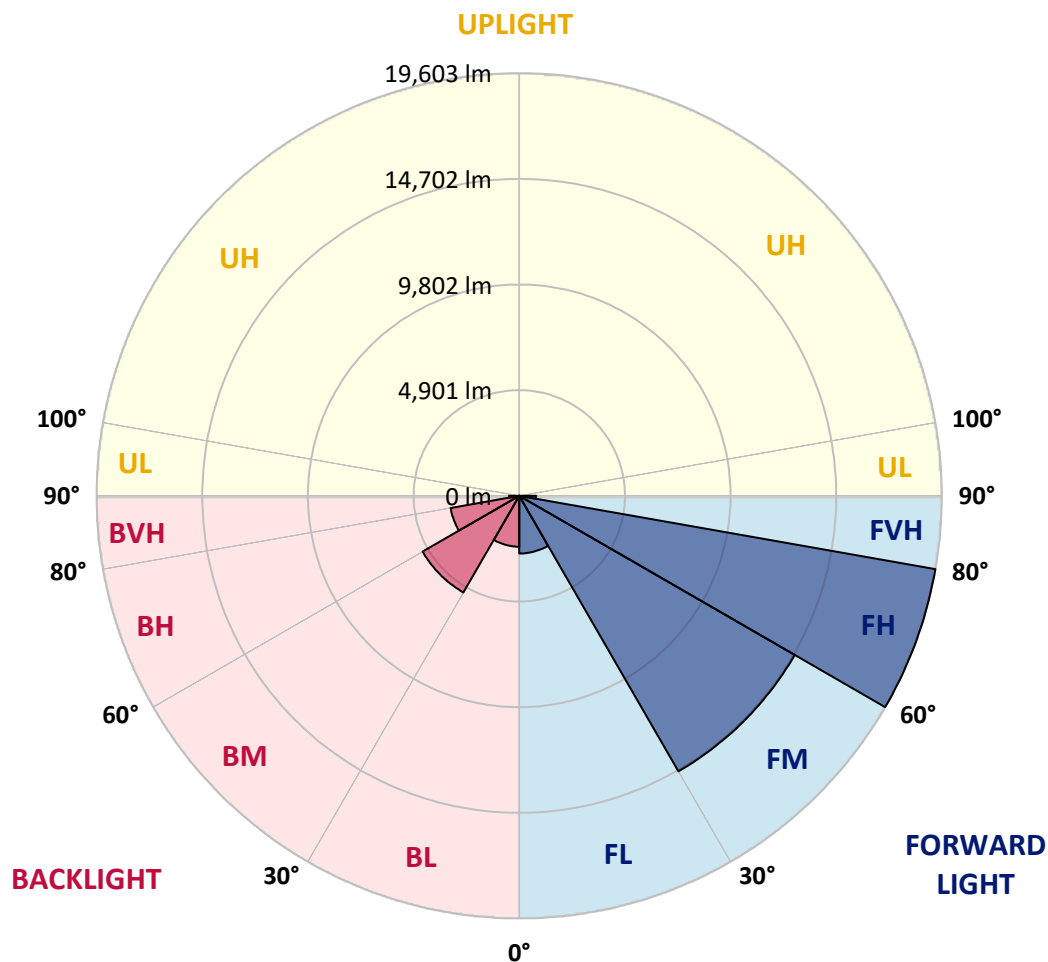
CATALOG NUMBER: GLEON-SA8D-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2677.5	5.5			
FM	(30°-60°)	14758.1	30.1			
FH	(60°-80°)	19603.2	39.9			G5
FVH	(80°-90°)	784.6	1.6			G5
BL	(0°-30°)	2361.3	4.8	B3/2500		
BM	(30°-60°)	5177.2	10.6	B4/8500		
BH	(60°-80°)	3233.3	6.6	B4/5000		G4/5000
BVH	(80°-90°)	474.9	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4999.3	4999.3	4999.3	4999.3	4999.3	4999.3	4999.3	4999.3	4999.3	4999.3	4999.3
2.5°	5249.5	5252.8	5259.6	5242.8	5195.8	5182.3	5177.3	5128.6	5096.7	5049.7	5009.3
5°	5669.3	5672.7	5662.6	5615.6	5511.5	5434.2	5427.5	5316.7	5215.9	5108.4	5027.8
7.5°	6107.6	6112.6	6080.7	5991.7	5845.6	5711.3	5702.9	5551.8	5398.9	5236.1	5115.1
10°	6495.5	6475.4	6423.3	6299.0	6126.1	5961.5	5954.8	5796.9	5620.6	5424.1	5262.9
12.5°	6754.1	6737.3	6670.2	6519.0	6329.3	6178.1	6164.7	6018.6	5847.3	5632.4	5439.2
15°	6896.9	6908.6	6818.0	6646.7	6461.9	6334.3	6322.6	6218.4	6065.6	5849.0	5627.3
17.5°	6915.4	6925.4	6838.1	6668.5	6517.4	6430.0	6425.0	6356.1	6245.3	6037.1	5805.3
20°	6807.9	6814.6	6742.4	6603.0	6503.9	6477.1	6475.4	6445.1	6362.9	6178.1	5953.1
22.5°	6651.7	6656.7	6604.7	6503.9	6470.3	6512.3	6524.1	6512.3	6453.5	6280.6	6069.0
25°	6613.1	6609.7	6556.0	6453.5	6482.1	6571.1	6586.2	6591.2	6550.9	6399.8	6216.8
27.5°	6799.5	6787.7	6685.3	6520.7	6539.2	6646.7	6666.8	6715.5	6690.3	6557.7	6384.7
30°	7338.5	7318.4	7108.5	6776.0	6685.3	6740.7	6765.9	6843.1	6848.2	6737.3	6608.0
32.5°	8248.7	8223.5	7847.4	7252.9	6932.1	6836.4	6859.9	6975.8	7037.9	6952.3	6812.9
35°	9399.0	9370.5	8876.8	8064.0	7345.3	7019.5	7036.3	7128.6	7252.9	7132.0	6947.3
37.5°	10598.1	10529.2	10054.0	9017.8	8001.9	7410.7	7410.7	7422.5	7481.3	7229.4	7105.1
40°	11790.4	11721.5	11291.6	10139.6	8851.6	8027.0	7988.4	7728.1	7681.1	7464.5	7422.5
42.5°	12898.7	12878.5	12625.0	11407.5	9849.1	8633.3	8579.5	8137.9	8148.0	8013.6	8015.3
45°	14077.6	14077.6	13871.0	12687.1	11011.2	9607.3	9553.5	8903.6	9004.4	8942.3	9091.7
47.5°	15039.8	15070.0	15041.5	14020.5	12363.0	10844.9	10747.5	9965.0	10247.1	10460.4	10895.3
50°	16022.2	16069.2	16074.2	15483.1	13997.0	12316.0	12205.1	11373.9	12003.6	12614.9	13469.7
52.5°	17447.9	17553.7	17132.2	16942.4	15998.7	14062.4	13953.3	13185.9	14237.1	15095.2	16568.0
55°	18769.5	18677.2	18376.6	18494.1	18141.5	16050.7	15968.5	15295.1	16725.8	17840.9	19753.6
57.5°	19484.9	19478.2	19780.5	20284.3	20452.2	18502.5	18433.7	17778.7	19531.9	20369.9	22744.4
60°	20324.6	20336.3	21085.3	22228.9	22920.7	21555.5	21525.3	21028.2	22257.4	22731.0	25090.4
62.5°	20442.1	20653.7	21943.4	23911.5	25231.5	25122.3	25189.5	23955.2	24695.8	24615.2	26841.9
65°	19090.3	19369.0	21703.3	24420.4	27528.7	29023.3	29085.5	26899.0	26618.6	26225.6	27468.3
67.5°	16319.4	16732.5	19268.3	23313.7	28286.1	31906.7	31994.0	29181.2	28213.9	26771.4	25960.3
70°	11876.0	12334.4	14887.0	19911.4	26936.0	32828.6	32927.7	30190.4	28274.4	25218.0	22161.7
72.5°	7174.0	7533.3	9637.5	14658.6	22734.3	31149.3	31325.6	28910.8	25814.2	21360.7	16364.8
75°	3150.4	3385.5	4660.1	8446.9	16275.8	25772.2	25992.2	24746.1	20974.4	15523.4	9672.8
77.5°	1341.8	1408.9	1911.0	3669.3	9200.9	17610.8	17913.1	18081.0	14230.4	8446.9	4087.4
80°	836.3	863.2	1081.5	1660.8	4305.7	9891.1	10216.9	10638.4	7066.5	3105.0	1427.4
82.5°	508.8	539.1	718.7	1004.2	2241.9	4483.7	4639.9	4937.1	2742.3	1341.8	738.9
85°	305.6	327.5	440.0	634.8	1276.3	1763.3	1761.6	1948.0	1291.4	863.2	389.6
87.5°	146.1	162.9	235.1	329.1	643.2	661.6	619.7	701.9	784.2	565.9	196.5
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-SA8D-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4999.3	4999.3	4999.3	4999.3	4999.3	4999.3	4999.3	4999.3	4999.3	4999.3	4999.3
2.5°	4995.9	4989.2	4967.4	4950.6	4947.2	4937.1	4928.7	4933.8	4940.5	4942.2	4942.2
5°	4994.2	4975.8	4947.2	4935.5	4950.6	4970.7	4995.9	5029.5	5049.7	5064.8	5074.8
7.5°	5074.8	5039.6	5007.7	5001.0	5031.2	5084.9	5142.0	5212.5	5261.2	5294.8	5301.5
10°	5209.2	5165.5	5133.6	5140.3	5194.1	5271.3	5351.9	5442.6	5516.5	5561.8	5565.2
12.5°	5363.7	5321.7	5291.5	5320.0	5409.0	5503.1	5587.0	5666.0	5733.1	5778.5	5778.5
15°	5541.7	5511.5	5476.2	5541.7	5662.6	5746.6	5781.8	5820.4	5857.4	5891.0	5884.3
17.5°	5713.0	5684.4	5666.0	5743.2	5869.1	5907.8	5884.3	5855.7	5855.7	5874.2	5877.5
20°	5860.8	5835.6	5847.3	5922.9	5988.4	5948.1	5860.8	5770.1	5733.1	5743.2	5753.3
22.5°	5990.1	5978.3	6013.6	6048.8	6001.8	5860.8	5699.5	5577.0	5531.6	5528.3	5531.6
25°	6141.2	6139.5	6183.2	6119.4	5911.1	5650.8	5434.2	5315.0	5289.8	5309.9	5343.5
27.5°	6329.3	6347.7	6369.6	6136.2	5726.4	5333.5	5113.5	5031.2	5056.4	5105.1	5137.0
30°	6569.4	6619.8	6572.8	6094.2	5461.1	4970.7	4760.8	4737.3	4806.2	4875.0	4908.6
32.5°	6802.8	6881.8	6767.6	5985.0	5118.5	4586.2	4423.3	4416.6	4500.5	4567.7	4614.7
35°	6990.9	7147.1	6913.7	5768.4	4722.2	4231.8	4112.6	4067.3	4097.5	4176.4	4230.2
37.5°	7236.1	7496.4	7014.4	5437.6	4292.3	3939.6	3800.3	3696.1	3669.3	3701.2	3728.0
40°	7684.5	8028.7	7061.5	4975.8	3872.5	3647.4	3506.4	3353.6	3247.8	3170.5	3172.2
42.5°	8416.6	8722.3	7031.2	4414.9	3484.5	3362.0	3202.4	3026.1	2854.8	2680.2	2666.7
45°	9605.6	9753.4	6940.5	3820.4	3143.6	3063.0	2913.6	2737.3	2508.9	2310.7	2292.2
47.5°	11508.2	11180.8	6799.5	3301.5	2843.1	2809.5	2671.8	2468.6	2226.8	2067.2	2053.8
50°	14102.8	13241.3	6730.6	2888.4	2577.7	2587.8	2475.3	2260.3	2032.0	1914.4	1901.0
52.5°	17206.1	15641.0	6863.3	2569.3	2364.5	2399.7	2315.8	2114.2	1922.8	1830.4	1817.0
55°	20425.3	18126.4	7006.0	2337.6	2162.9	2231.8	2203.2	2037.0	1864.0	1778.4	1766.6
57.5°	23181.0	19982.0	6720.6	2149.5	1983.3	2090.7	2115.9	1988.3	1833.8	1756.5	1743.1
60°	24915.8	20729.3	5971.6	1973.2	1840.5	1978.2	2065.5	1974.9	1845.5	1838.8	1828.8
62.5°	25738.6	20663.8	4848.1	1833.8	1751.5	1929.5	2102.5	2050.4	1979.9	2040.3	2045.4
65°	25369.2	19676.3	3610.5	1741.4	1687.7	1948.0	2213.3	2193.2	2018.5	2079.0	2087.4
67.5°	22937.5	17320.3	2673.4	1660.8	1617.2	2000.0	2414.8	2240.2	1942.9	1986.6	1959.7
70°	18539.5	13731.6	2062.2	1570.1	1545.0	1993.3	2505.5	2211.6	1860.7	1870.7	1798.5
72.5°	12784.5	9363.8	1677.6	1486.2	1440.8	1817.0	2441.7	2141.1	1791.8	1714.6	1618.8
75°	6952.3	5026.1	1425.7	1398.9	1257.8	1595.3	2324.1	2090.7	1729.7	1627.2	1573.5
77.5°	2735.6	2085.7	1237.6	1279.6	1099.9	1408.9	2193.2	1995.0	1644.0	1509.7	1482.8
80°	1116.7	1064.7	1026.1	1106.7	945.4	1232.6	2035.3	1882.5	1541.6	1400.5	1346.8
82.5°	633.1	661.6	797.7	873.2	767.4	1135.2	1959.7	1791.8	1419.0	1254.4	1190.6
85°	324.1	387.9	555.8	626.4	564.2	965.6	1805.2	1568.5	1138.6	960.6	965.6
87.5°	156.2	216.6	351.0	393.0	366.1	698.6	1348.5	1136.9	886.7	701.9	680.1
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
 Rf: 81.5
 Rg: 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

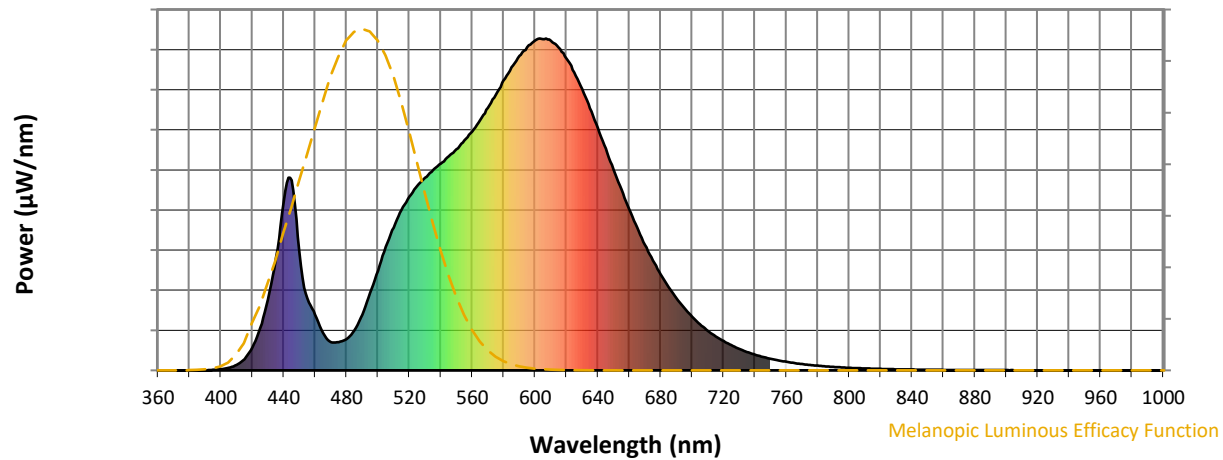


Scotopic Lumens: NR

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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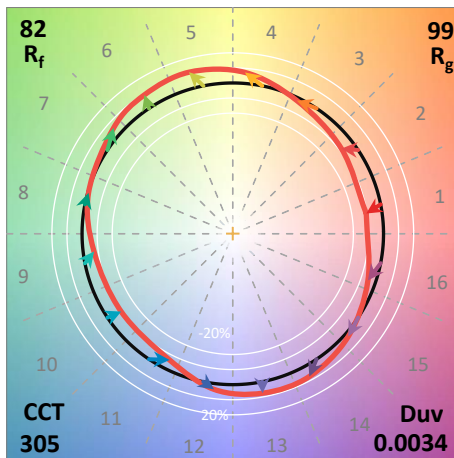
TM-30-18

Summary

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

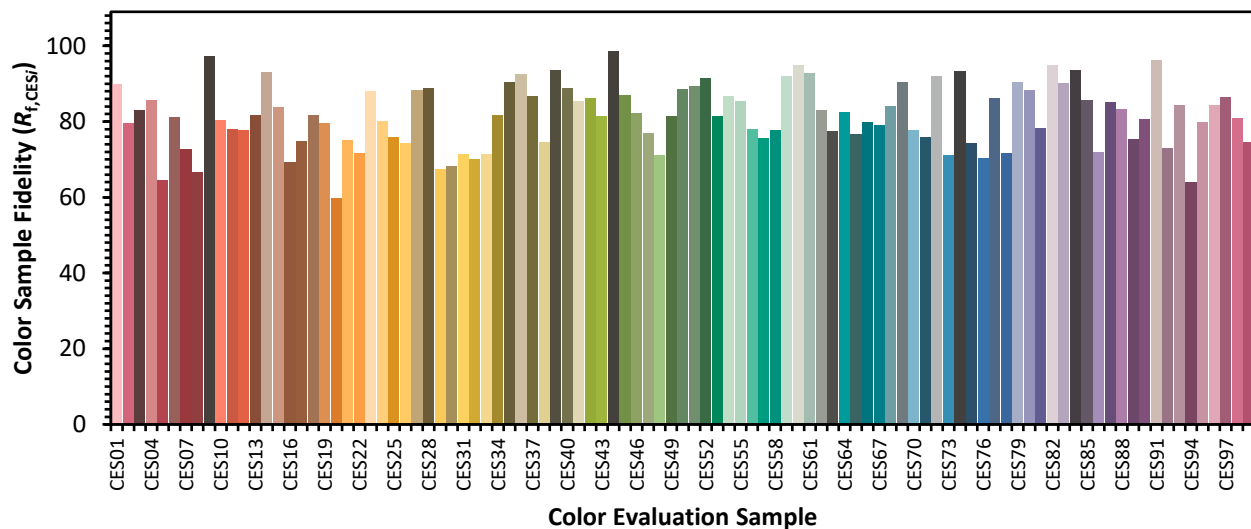


Color Vector Graphics

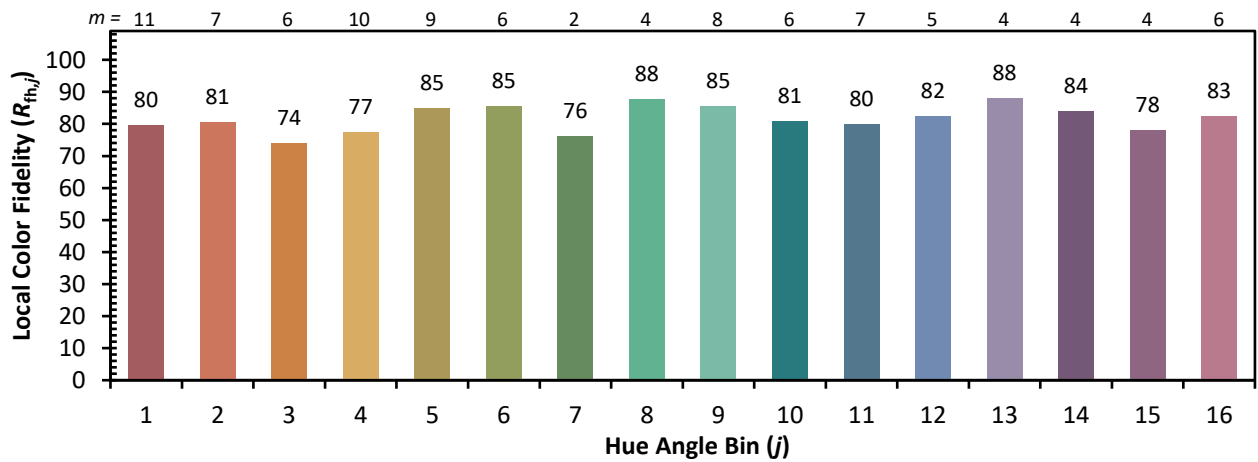
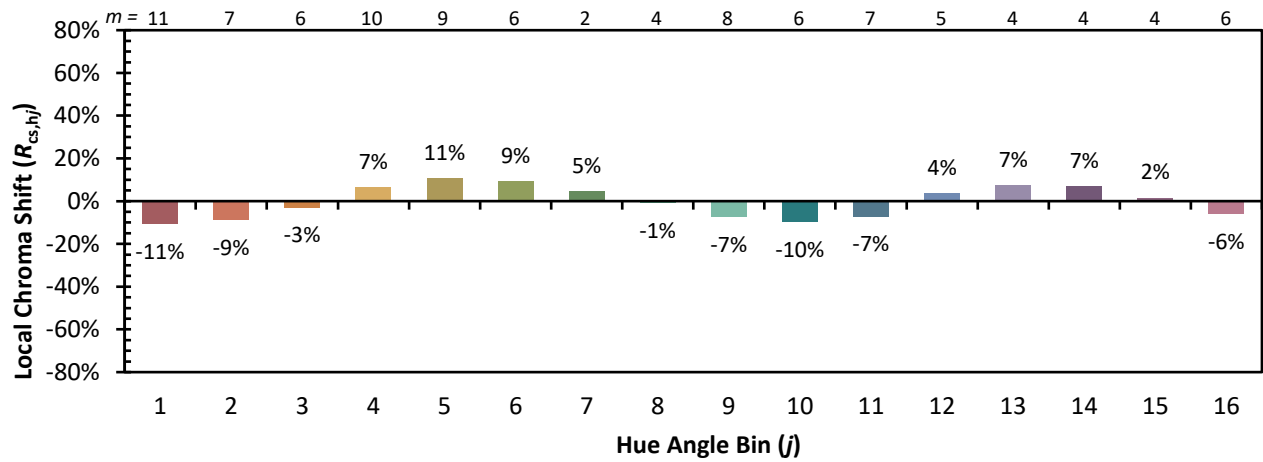


Individual Sample Fidelity Index ($R_{f,i}$)

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)