

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: P317921

Luminaire Tested: **GLEON-SA7B-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7B-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32841 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

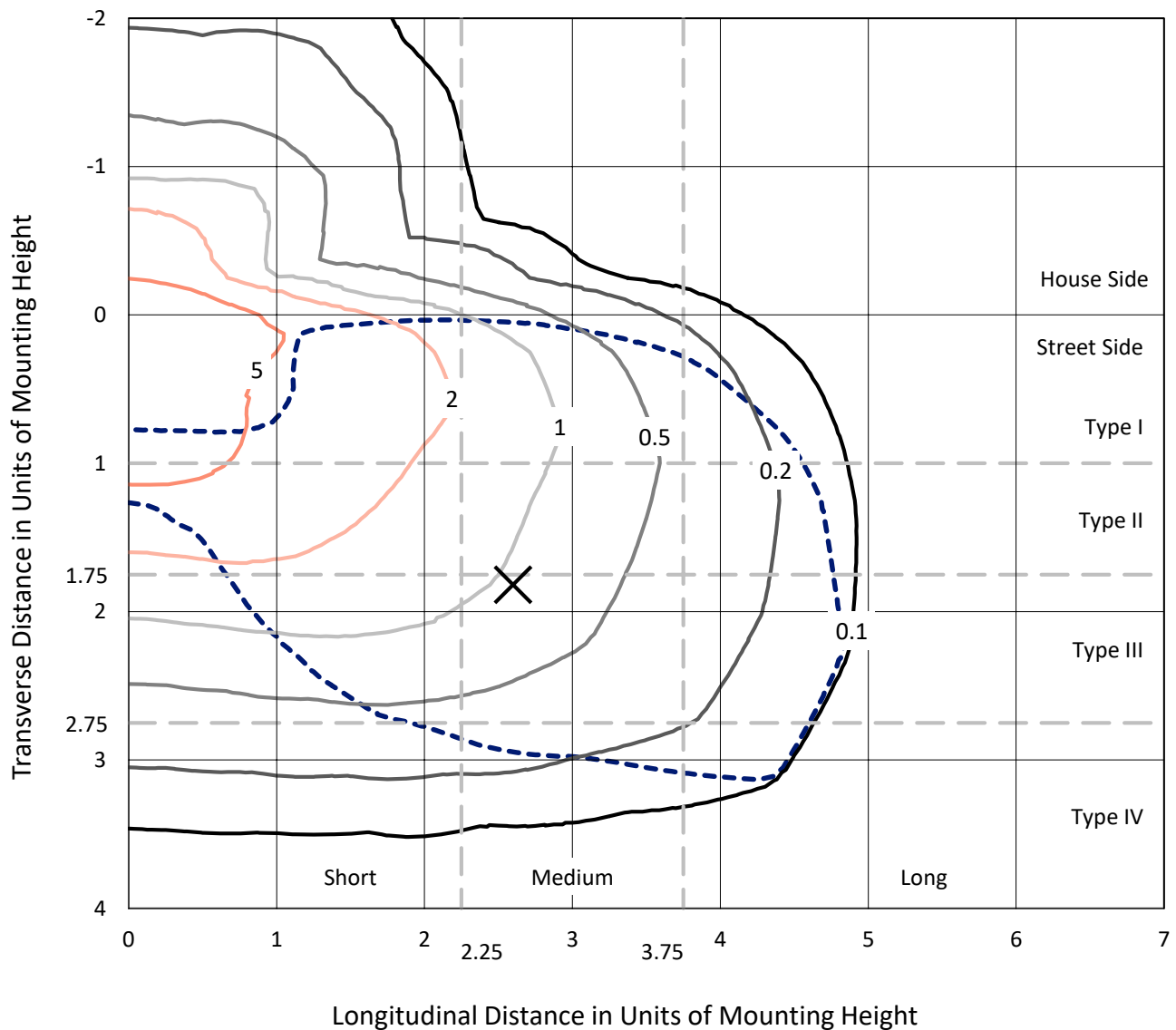
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

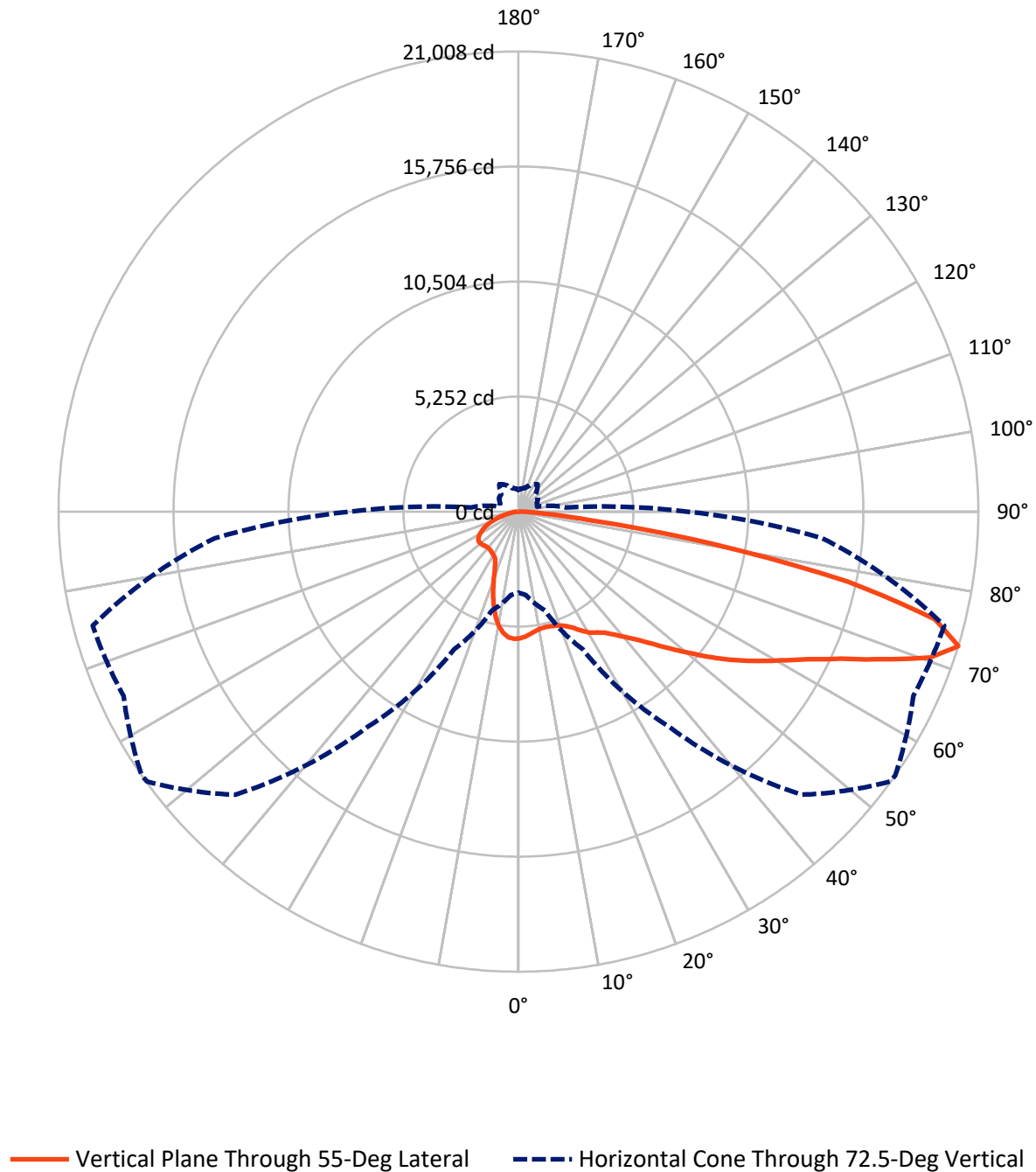
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA7B-830-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6104.1	0.0	6104.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	26736.9	0.0	26736.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	32841.0	0.0	32841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.1	1.6
10°-20°	1395.5	4.2
20°-30°	2300.8	7.0
30°-40°	3403.5	10.4
40°-50°	4750.5	14.5
50°-60°	6185.3	18.8
60°-70°	7601.6	23.1
70°-80°	5958.7	18.1
80°-90°	721.1	2.2
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°	32841.0	100.0
0°-180°	32841.0	100.0

Coefficient of Utilization



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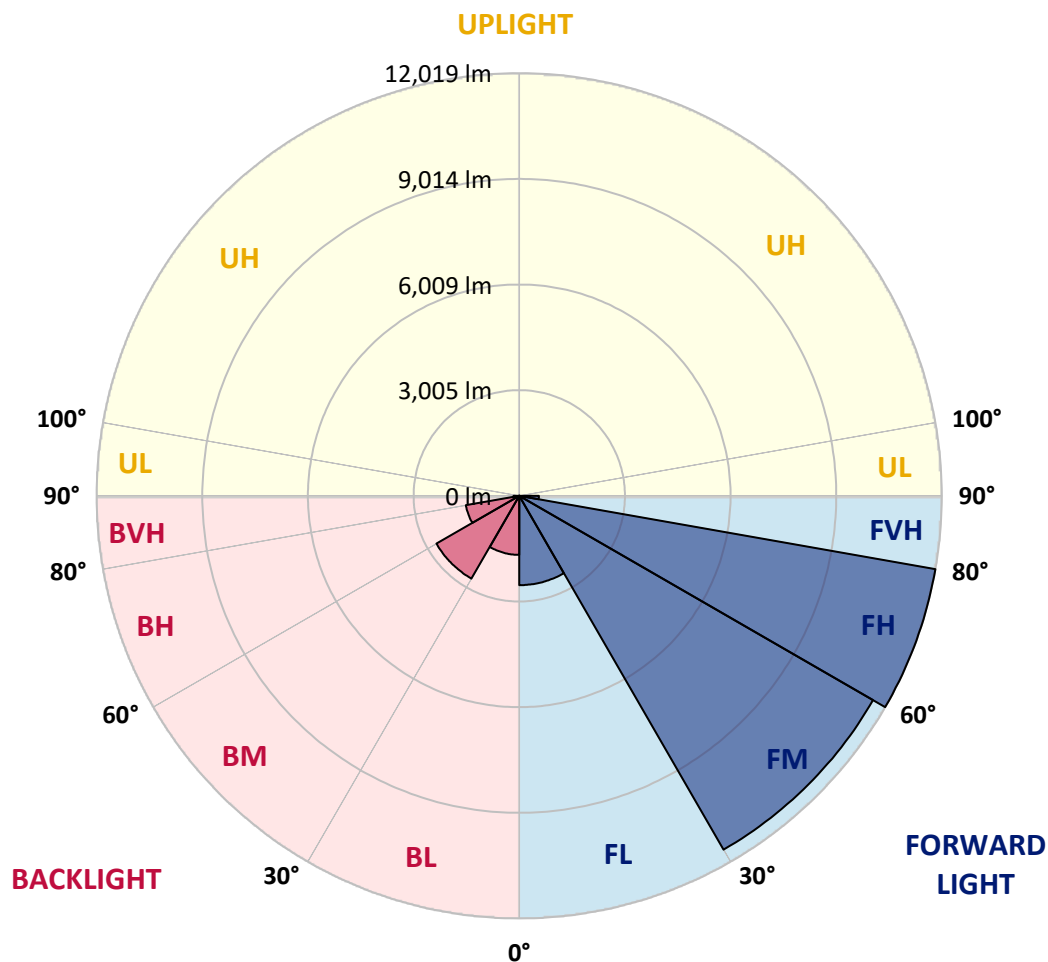
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2540.9	7.7			
FM	(30°-60°)	11619.8	35.4			
FH	(60°-80°)	12018.7	36.6			G5
FVH	(80°-90°)	557.5	1.7			G4/750
BL	(0°-30°)	1679.5	5.1	B3/2500		
BM	(30°-60°)	2719.5	8.3	B3/5000		
BH	(60°-80°)	1541.6	4.7	B3/2500		G3/2500
BVH	(80°-90°)	163.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4
2.5°	5603.9	5590.6	5607.2	5630.5	5656.0	5690.4	5710.4	5719.2	5753.6	5766.9	5795.8
5°	5344.3	5337.7	5365.4	5405.3	5461.9	5541.8	5606.1	5618.3	5709.3	5773.6	5832.4
7.5°	5155.7	5155.7	5187.9	5235.6	5298.8	5406.4	5497.4	5514.0	5668.2	5806.9	5915.6
10°	5006.0	5011.5	5049.3	5105.8	5180.1	5294.4	5415.3	5434.2	5657.1	5884.5	6057.6
12.5°	4906.2	4919.5	4953.9	5004.9	5097.0	5235.6	5388.7	5414.2	5680.4	5995.4	6228.4
15°	4969.4	4991.6	4994.9	5016.0	5067.0	5217.9	5404.2	5430.8	5730.3	6108.6	6422.5
17.5°	5246.7	5254.5	5220.1	5175.7	5151.3	5247.8	5450.8	5478.5	5790.2	6220.6	6608.8
20°	5668.2	5663.8	5589.5	5469.7	5345.4	5361.0	5527.3	5556.2	5871.2	6319.3	6795.2
22.5°	6200.6	6185.1	6070.9	5850.1	5638.3	5549.5	5661.6	5686.0	5993.2	6460.2	6994.9
25°	6846.2	6811.8	6661.0	6364.8	6053.1	5824.6	5863.4	5886.7	6170.7	6617.7	7177.9
27.5°	7527.3	7492.9	7301.0	6942.7	6527.9	6171.8	6141.9	6161.8	6372.6	6734.2	7313.2
30°	8239.4	8202.8	8027.6	7626.0	7031.5	6531.2	6401.4	6409.2	6514.6	6797.4	7424.1
32.5°	8954.9	8920.5	8724.2	8258.3	7578.3	6917.2	6588.9	6578.9	6600.0	6862.9	7549.5
35°	9680.3	9693.6	9464.0	8948.2	8184.0	7346.5	6810.7	6789.7	6743.1	6997.1	7727.0
37.5°	10456.8	10447.9	10150.6	9611.6	8817.3	7812.4	7129.1	7125.8	6964.9	7251.1	8005.4
40°	10975.9	10981.5	10800.7	10290.4	9457.4	8328.2	7537.3	7529.5	7318.8	7631.6	8370.3
42.5°	11178.9	11215.5	11262.1	10938.2	10127.4	8926.0	8024.2	8013.1	7812.4	8177.3	8799.6
45°	11193.3	11266.5	11554.9	11513.9	10806.2	9610.4	8646.5	8615.5	8471.3	8902.8	9312.1
47.5°	11069.1	11144.5	11623.7	11856.7	11413.0	10332.6	9374.2	9349.8	9225.5	9810.1	9866.7
50°	10797.3	10869.4	11481.7	12024.2	11912.1	11026.9	10212.8	10148.4	10081.9	10858.3	10501.2
52.5°	10288.2	10426.8	11292.1	12064.1	12210.5	11643.7	11094.6	11052.5	11089.1	11964.3	11136.8
55°	9082.4	9237.7	10802.9	12030.8	12431.2	12161.7	11976.5	11974.2	12163.9	13124.5	11818.9
57.5°	8406.9	8516.7	9806.8	11974.2	12693.0	12676.4	12849.4	12870.5	13239.9	14387.9	12533.3
60°	8025.3	8140.7	9302.1	11764.6	13099.0	13341.9	13740.1	13782.3	14333.6	15786.7	13393.0
62.5°	7678.2	7804.6	8989.3	11337.5	13577.1	14293.7	14807.2	14844.9	15491.6	17224.3	14223.8
65°	7084.7	7227.8	8531.2	11056.9	14011.9	15534.9	16163.8	16189.3	16821.6	18730.6	14859.4
67.5°	6246.1	6377.0	7667.1	10436.8	14333.6	17042.3	17967.5	17981.9	18140.5	19794.4	15184.4
70°	5266.7	5316.6	6435.8	9156.8	13953.1	18452.2	19944.1	19947.4	19342.9	20475.4	15131.1
72.5°	3700.4	3818.0	4672.1	6931.6	11990.9	18280.3	20970.2	21007.9	19902.0	20131.6	13922.1
75°	2269.5	2393.7	2930.6	4200.7	7607.2	14376.8	19375.1	19636.9	18853.7	17949.7	11373.0
77.5°	1517.4	1564.0	1912.3	2449.2	3446.4	8271.6	14896.0	15388.5	15662.5	13090.1	7273.3
80°	846.3	935.1	1267.9	1521.9	1533.0	3286.7	8931.6	9047.0	8714.2	5212.3	2244.0
82.5°	448.1	496.9	846.3	894.0	836.4	1100.4	3328.8	3332.2	2784.2	1397.6	666.7
85°	347.2	388.2	580.1	545.7	427.1	488.1	1098.1	1158.0	947.3	572.4	217.4
87.5°	173.0	215.2	393.8	346.1	167.5	139.8	392.7	419.3	373.8	224.1	78.8
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4	5792.4
2.5°	5806.9	5816.8	5829.1	5815.7	5811.3	5793.6	5763.6	5757.0	5741.4	5742.5	5751.4
5°	5857.9	5874.5	5867.9	5816.8	5755.8	5670.4	5581.7	5506.3	5456.3	5453.0	5449.7
7.5°	5955.5	5966.6	5914.5	5769.2	5598.3	5400.9	5214.5	5051.5	4952.8	4928.3	4922.8
10°	6108.6	6106.4	5963.3	5670.4	5329.9	4977.2	4677.7	4451.4	4319.4	4280.6	4270.6
12.5°	6279.4	6253.9	5979.9	5490.7	4950.5	4461.4	4082.0	3830.2	3692.7	3648.3	3637.2
15°	6455.8	6392.5	5938.9	5222.3	4484.7	3905.6	3507.4	3274.5	3200.2	3175.8	3171.3
17.5°	6619.9	6497.9	5821.3	4858.5	3953.3	3352.1	3041.5	2948.4	2966.1	2998.3	2999.4
20°	6780.8	6568.9	5632.7	4399.2	3393.2	2896.2	2790.8	2859.6	2943.9	3009.4	3018.2
22.5°	6939.4	6618.8	5389.8	3869.0	2891.8	2640.0	2714.3	2839.7	2936.2	3007.1	3019.3
25°	7072.5	6631.0	5054.8	3303.3	2543.5	2543.5	2677.7	2796.4	2891.8	2961.7	2973.9
27.5°	7121.3	6548.9	4582.3	2779.8	2368.2	2499.1	2626.7	2725.4	2806.4	2880.7	2894.0
30°	7140.2	6397.0	4036.5	2359.4	2296.1	2451.4	2557.9	2642.2	2718.7	2788.6	2800.8
32.5°	7143.5	6214.0	3457.5	2120.9	2246.2	2401.5	2472.5	2546.8	2628.9	2656.6	2661.1
35°	7164.6	5997.7	2847.4	1998.8	2199.6	2354.9	2411.5	2464.7	2331.6	2341.6	2350.5
37.5°	7225.6	5783.6	2337.2	1930.1	2169.7	2330.5	2398.2	2205.2	2100.9	2076.5	2073.2
40°	7339.8	5555.1	1958.9	1874.6	2158.6	2342.7	2312.8	2058.7	1879.1	1744.8	1724.9
42.5°	7498.5	5308.8	1717.1	1838.0	2166.3	2401.5	2194.1	1917.9	1619.5	1533.0	1521.9
45°	7677.0	5050.4	1586.2	1812.5	2193.0	2447.0	2169.7	1730.4	1498.6	1433.1	1427.6
47.5°	7850.1	4734.2	1518.5	1801.4	2229.6	2410.4	2066.5	1672.7	1440.9	1406.5	1409.8
50°	8048.6	4449.2	1477.5	1789.2	2261.7	2387.1	1950.0	1642.8	1418.7	1460.9	1505.2
52.5°	8216.1	4154.1	1440.9	1764.8	2273.9	2346.0	1920.1	1648.3	1418.7	1499.7	1541.8
55°	8414.7	3931.1	1398.8	1713.8	2250.6	2229.6	1899.0	1681.6	1435.4	1384.3	1388.8
57.5°	8670.9	3857.9	1352.2	1633.9	2173.0	2059.9	1889.0	1713.8	1425.4	1393.2	1404.3
60°	9025.9	3935.6	1333.3	1529.6	2052.1	1926.7	1890.1	1697.1	1355.5	1300.0	1301.1
62.5°	9364.2	4022.1	1332.2	1464.2	1903.5	1808.1	1864.6	1642.8	1320.0	1287.8	1300.0
65°	9475.1	3934.5	1279.0	1391.0	1736.0	1666.1	1818.0	1585.1	1293.4	1244.6	1242.3
67.5°	9326.5	3662.7	1171.4	1272.3	1544.1	1500.8	1757.0	1516.3	1251.2	1211.3	1204.6
70°	8885.0	3056.0	1038.2	1115.9	1325.5	1314.4	1660.5	1436.5	1194.7	1160.3	1131.4
72.5°	7697.0	2177.4	875.2	928.4	1079.3	1114.8	1527.4	1332.2	1114.8	1040.5	996.1
75°	6321.6	1611.7	718.8	729.9	819.7	916.2	1344.4	1210.2	1020.5	894.0	859.7
77.5°	3871.2	986.1	572.4	576.8	587.9	731.0	1107.0	1073.7	900.7	745.4	721.0
80°	1253.4	538.0	413.7	434.8	401.5	535.8	856.3	914.0	773.1	623.4	596.8
82.5°	477.0	313.9	279.5	293.9	278.4	359.4	624.5	732.1	633.4	512.5	417.1
85°	230.7	177.5	165.3	185.2	171.9	184.1	399.3	539.1	480.3	333.9	310.6
87.5°	82.1	78.8	63.2	85.4	73.2	65.4	122.0	271.8	317.2	229.6	205.2
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

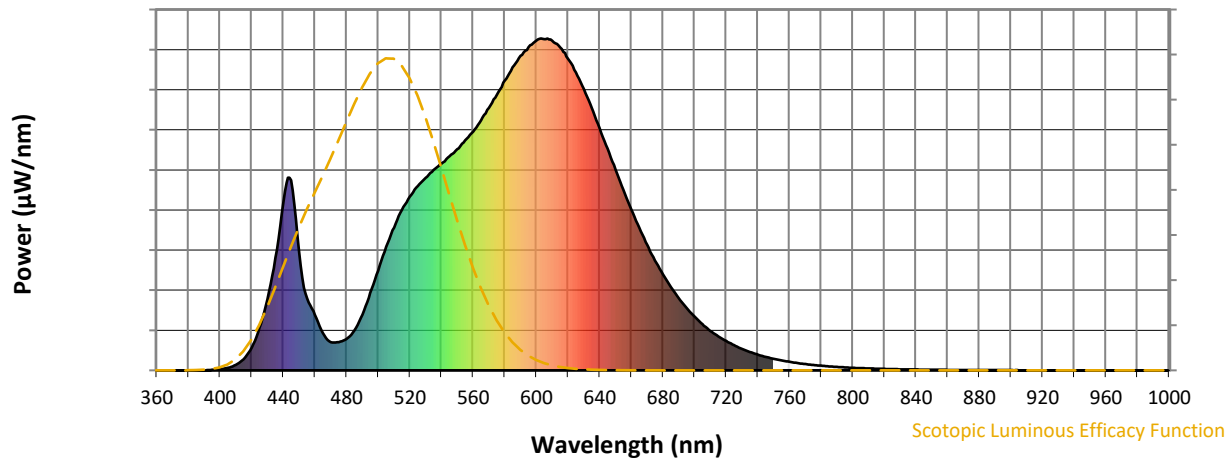


Photopic Lumens: NR

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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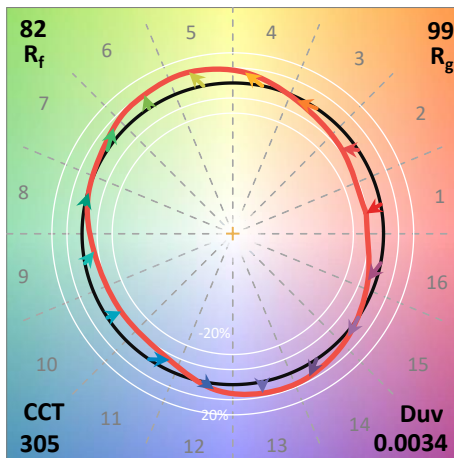
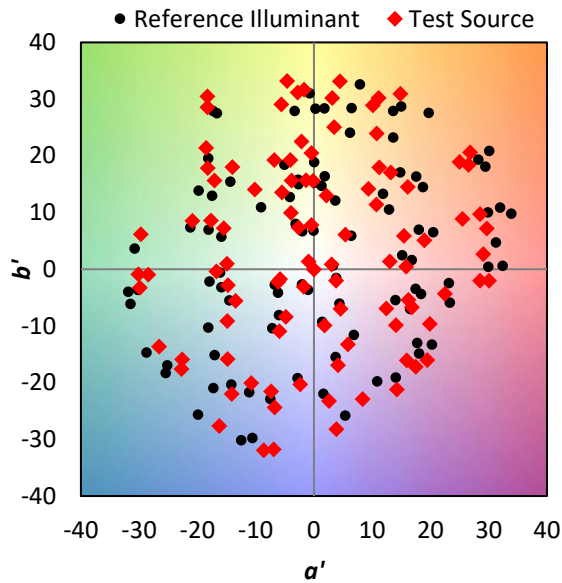
TM-30-18

Summary

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



Color Vector Graphics

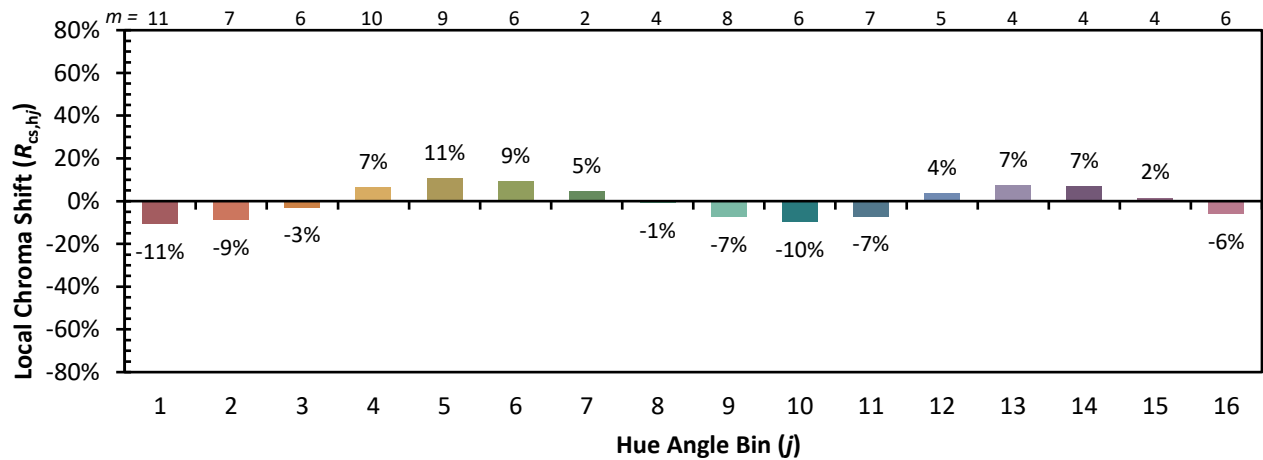


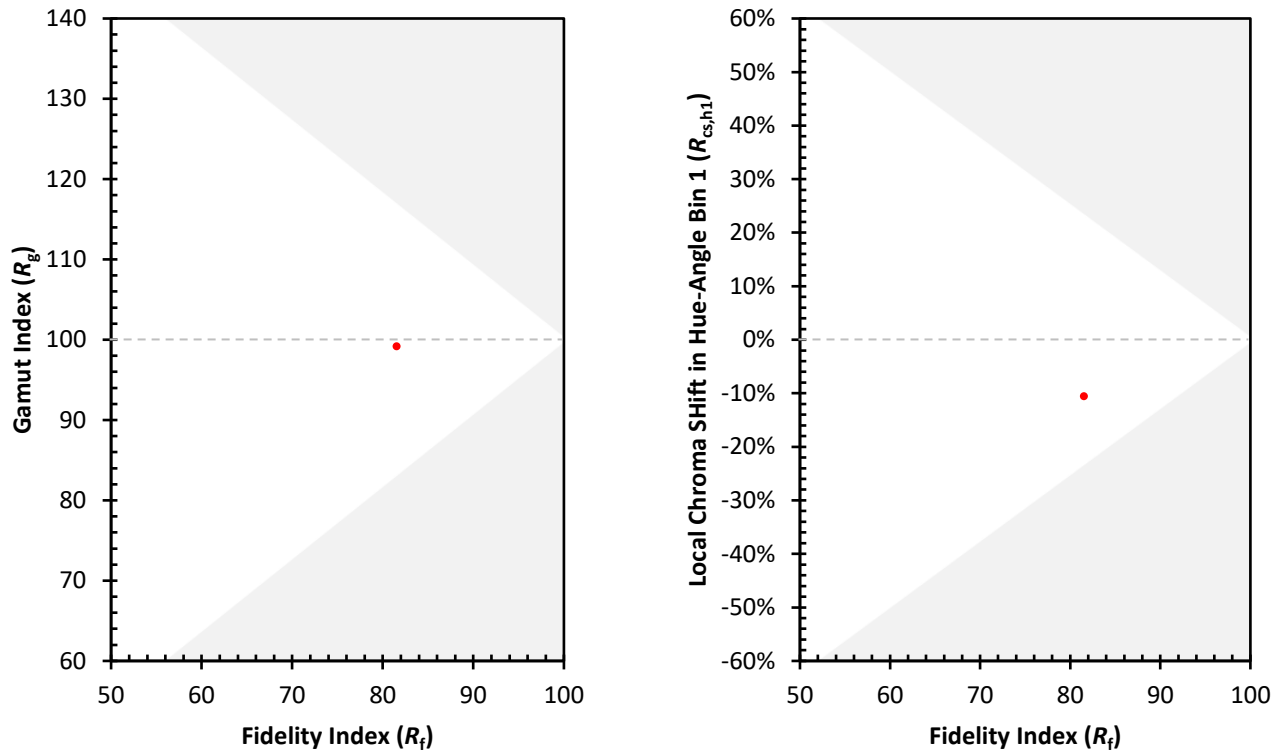
Individual Sample Fidelity Index ($R_{f,i}$)

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)