

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: P317927

Luminaire Tested: **GLEON-SA3C-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317927
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-SA3C-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17544 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

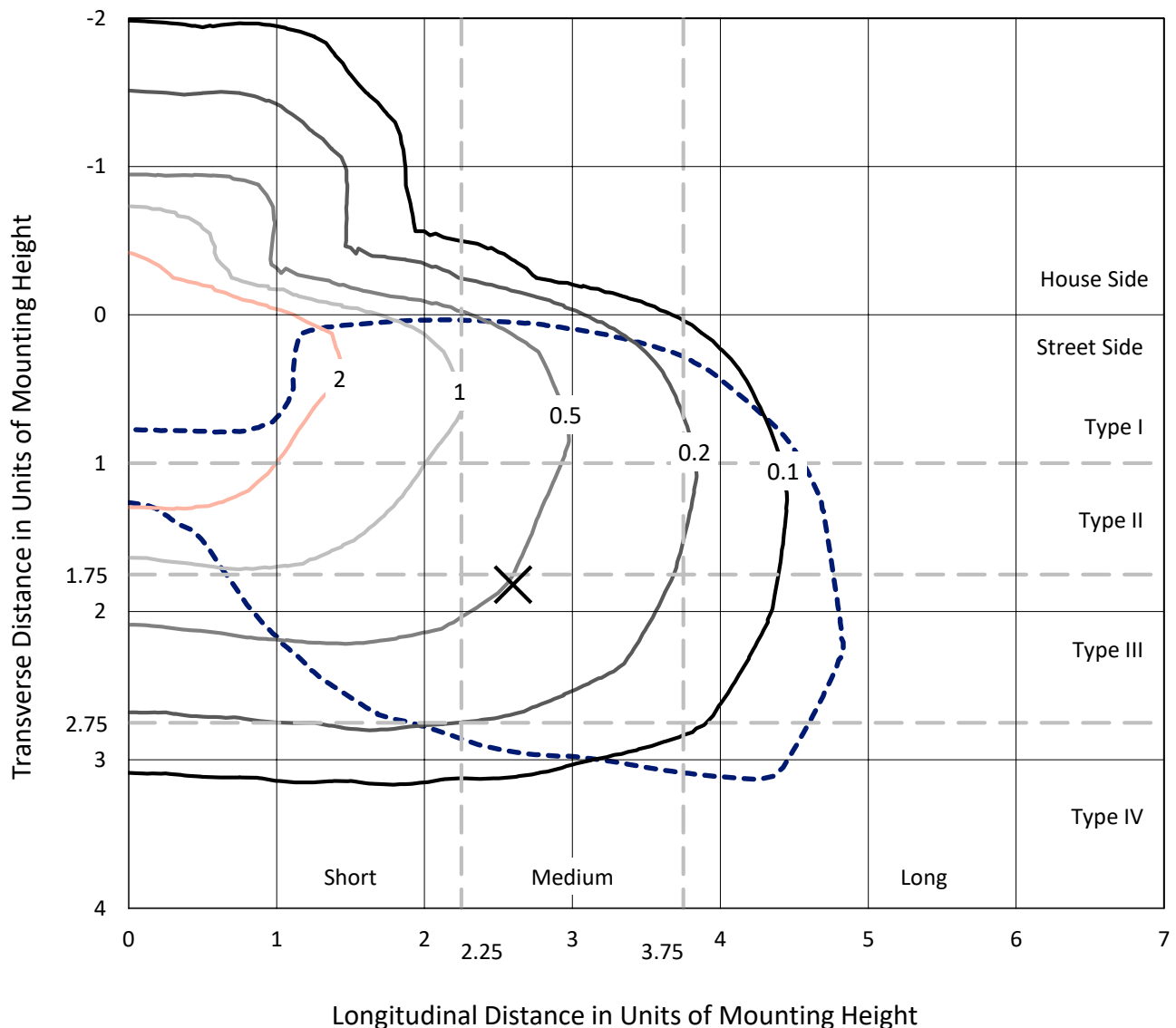
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

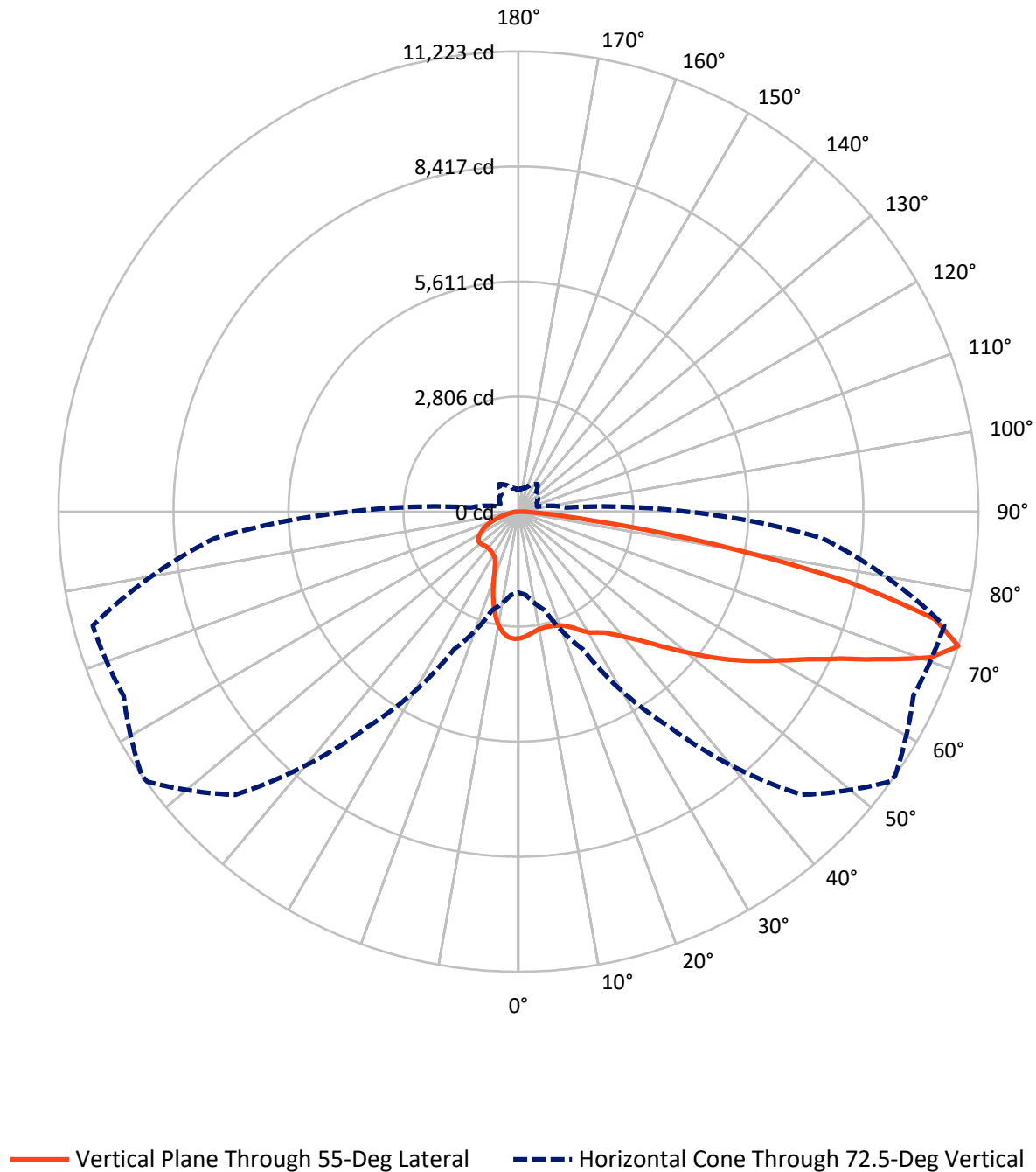
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA3C-830-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3260.9	0.0	3260.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14283.1	0.0	14283.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	17544.0	0.0	17544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.0	1.6
10°-20°	745.5	4.2
20°-30°	1229.1	7.0
30°-40°	1818.2	10.4
40°-50°	2537.8	14.5
50°-60°	3304.3	18.8
60°-70°	4060.8	23.1
70°-80°	3183.2	18.1
80°-90°	385.2	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°	17544.0	100.0
0°-180°	17544.0	100.0

Coefficient of Utilization



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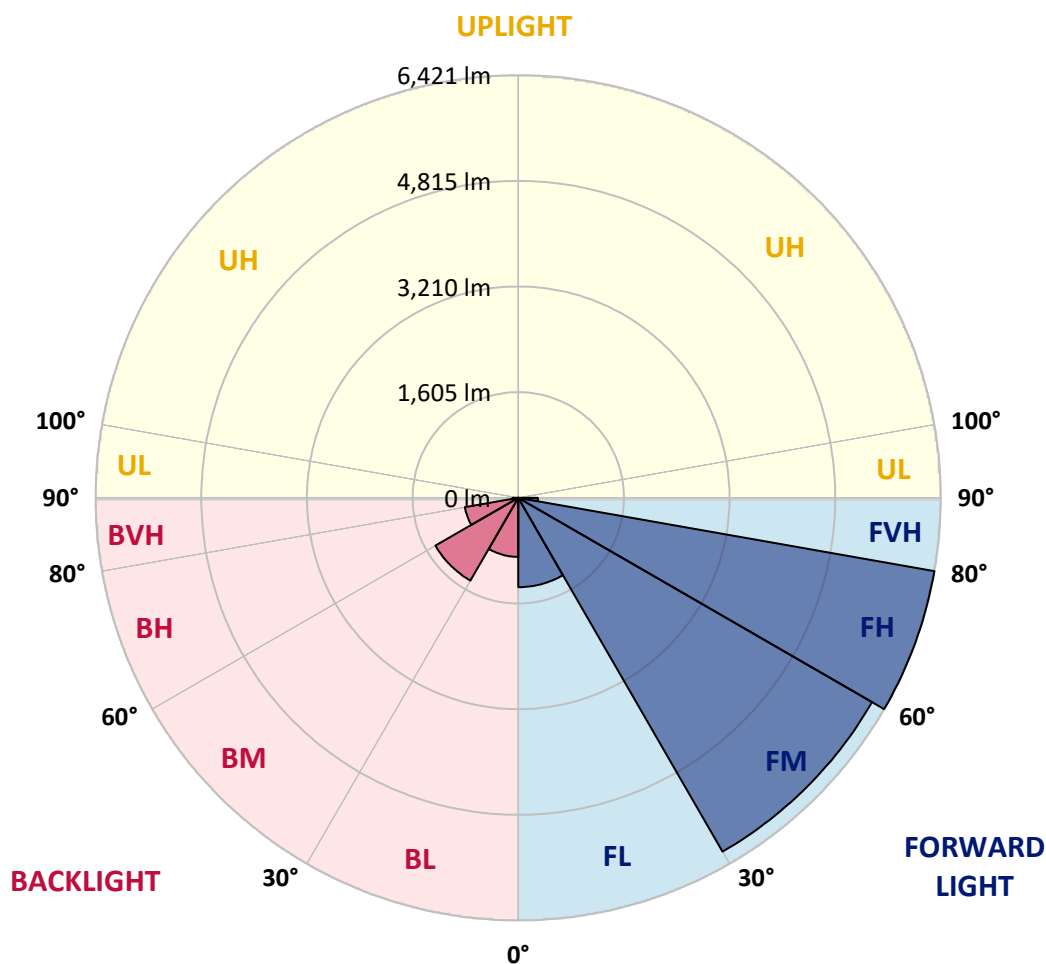
CATALOG NUMBER: GLEON-SA3C-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1357.4	7.7			
FM	(30°-60°)	6207.4	35.4			
FH	(60°-80°)	6420.5	36.6			G3/7500
FVH	(80°-90°)	297.8	1.7			G3/500
BL	(0°-30°)	897.2	5.1	B2/1000		
BM	(30°-60°)	1452.8	8.3	B2/2500		
BH	(60°-80°)	823.5	4.7	B2/1000		G2/1000
BVH	(80°-90°)	87.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3094.4	3094.4	3094.4	3094.4	3094.4	3094.4	3094.4	3094.4	3094.4	3094.4	3094.4
2.5°	2993.6	2986.5	2995.4	3007.9	3021.5	3039.9	3050.5	3055.3	3073.6	3080.8	3096.2
5°	2855.0	2851.4	2866.2	2887.6	2917.8	2960.5	2994.8	3001.4	3049.9	3084.3	3115.7
7.5°	2754.3	2754.3	2771.4	2796.9	2830.7	2888.2	2936.8	2945.6	3028.0	3102.1	3160.2
10°	2674.3	2677.2	2697.4	2727.6	2767.3	2828.3	2892.9	2903.0	3022.1	3143.6	3236.0
12.5°	2620.9	2628.0	2646.4	2673.7	2722.8	2796.9	2878.7	2892.3	3034.5	3202.8	3327.3
15°	2654.7	2666.6	2668.3	2679.6	2706.8	2787.4	2887.0	2901.2	3061.2	3263.3	3431.0
17.5°	2802.8	2807.0	2788.6	2764.9	2751.9	2803.4	2911.9	2926.7	3093.2	3323.1	3530.5
20°	3028.0	3025.6	2985.9	2921.9	2855.6	2863.9	2952.8	2968.2	3136.5	3375.9	3630.1
22.5°	3312.4	3304.2	3243.1	3125.2	3012.0	2964.6	3024.5	3037.5	3201.6	3451.1	3736.7
25°	3657.3	3639.0	3558.4	3400.1	3233.6	3111.6	3132.3	3144.8	3296.4	3535.3	3834.5
27.5°	4021.2	4002.8	3900.3	3708.9	3487.3	3297.0	3281.0	3291.7	3404.3	3597.5	3906.8
30°	4401.6	4382.0	4288.4	4073.9	3756.3	3489.0	3419.7	3423.9	3480.1	3631.2	3966.0
32.5°	4783.8	4765.4	4660.5	4411.7	4048.4	3695.2	3519.8	3514.5	3525.8	3666.2	4033.0
35°	5171.3	5178.4	5055.8	4780.2	4372.0	3924.6	3638.4	3627.1	3602.2	3737.9	4127.8
37.5°	5586.1	5581.4	5422.6	5134.6	4710.3	4173.4	3808.4	3806.6	3720.7	3873.6	4276.6
40°	5863.4	5866.4	5769.8	5497.2	5052.2	4449.0	4026.5	4022.3	3909.8	4076.9	4471.5
42.5°	5971.9	5991.4	6016.3	5843.3	5410.1	4768.4	4286.6	4280.7	4173.4	4368.4	4700.8
45°	5979.6	6018.7	6172.8	6150.8	5772.8	5134.0	4619.1	4602.5	4525.4	4755.9	4974.6
47.5°	5913.2	5953.5	6209.5	6333.9	6096.9	5519.8	5007.8	4994.7	4928.4	5240.7	5270.9
50°	5768.0	5806.6	6133.7	6423.4	6363.6	5890.7	5455.8	5421.4	5385.8	5800.6	5609.8
52.5°	5496.1	5570.1	6032.3	6444.8	6523.0	6220.2	5926.9	5904.3	5923.9	6391.4	5949.4
55°	4851.9	4934.9	5771.0	6427.0	6640.9	6496.9	6397.9	6396.8	6498.1	7011.3	6313.8
57.5°	4491.1	4549.7	5238.9	6396.8	6780.7	6771.9	6864.3	6875.6	7072.9	7686.2	6695.4
60°	4287.2	4348.8	4969.3	6284.8	6997.6	7127.4	7340.1	7362.6	7657.1	8433.4	7154.7
62.5°	4101.7	4169.3	4802.2	6056.6	7253.0	7635.8	7910.2	7930.3	8275.8	9201.4	7598.5
65°	3784.7	3861.2	4557.4	5906.7	7485.3	8298.9	8634.9	8648.5	8986.3	10006.1	7938.0
67.5°	3336.7	3406.7	4095.8	5575.5	7657.1	9104.2	9598.4	9606.1	9690.8	10574.4	8111.6
70°	2813.5	2840.2	3438.1	4891.6	7453.9	9857.3	10654.4	10656.1	10333.2	10938.2	8083.2
72.5°	1976.8	2039.6	2495.9	3703.0	6405.6	9765.5	11202.5	11222.6	10631.8	10754.5	7437.3
75°	1212.4	1278.8	1565.6	2244.1	4063.8	7680.3	10350.4	10490.2	10071.9	9588.9	6075.6
77.5°	810.6	835.5	1021.6	1308.4	1841.1	4418.8	7957.6	8220.7	8367.0	6992.9	3885.5
80°	452.1	499.5	677.3	813.0	818.9	1755.8	4771.3	4833.0	4655.2	2784.5	1198.8
82.5°	239.4	265.5	452.1	477.6	446.8	587.8	1778.3	1780.1	1487.3	746.6	356.1
85°	185.5	207.4	309.9	291.5	228.1	260.7	586.6	618.6	506.1	305.8	116.1
87.5°	92.4	115.0	210.4	184.9	89.5	74.7	209.8	224.0	199.7	119.7	42.1
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-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3094.4	3094.4	3094.4	3094.4	3094.4	3094.4	3094.4	3094.4	3094.4	3094.4	3094.4
2.5°	3102.1	3107.4	3113.9	3106.8	3104.5	3095.0	3079.0	3075.4	3067.1	3067.7	3072.5
5°	3129.3	3138.2	3134.7	3107.4	3074.8	3029.2	2981.8	2941.5	2914.8	2913.1	2911.3
7.5°	3181.5	3187.4	3159.6	3081.9	2990.7	2885.2	2785.7	2698.5	2645.8	2632.8	2629.8
10°	3263.3	3262.1	3185.6	3029.2	2847.3	2658.8	2498.9	2378.0	2307.5	2286.7	2281.4
12.5°	3354.5	3340.9	3194.5	2933.2	2644.6	2383.3	2180.6	2046.1	1972.7	1949.0	1943.0
15°	3448.7	3415.0	3172.6	2789.8	2395.7	2086.4	1873.7	1749.3	1709.6	1696.5	1694.1
17.5°	3536.4	3471.3	3109.8	2595.4	2111.9	1790.7	1624.8	1575.0	1584.5	1601.7	1602.3
20°	3622.4	3509.2	3009.1	2350.1	1812.7	1547.2	1490.9	1527.6	1572.7	1607.6	1612.4
22.5°	3707.1	3535.8	2879.3	2066.9	1544.8	1410.3	1450.0	1517.0	1568.5	1606.4	1613.0
25°	3778.2	3542.4	2700.3	1764.7	1358.8	1358.8	1430.5	1493.9	1544.8	1582.2	1588.7
27.5°	3804.3	3498.5	2447.9	1485.0	1265.1	1335.1	1403.2	1455.9	1499.2	1538.9	1546.0
30°	3814.4	3417.3	2156.4	1260.4	1226.6	1309.6	1366.5	1411.5	1452.4	1489.7	1496.2
32.5°	3816.1	3319.6	1847.0	1133.0	1199.9	1282.9	1320.8	1360.5	1404.4	1419.2	1421.6
35°	3827.4	3204.0	1521.1	1067.8	1175.1	1258.0	1288.2	1316.7	1245.6	1250.9	1255.6
37.5°	3860.0	3089.6	1248.5	1031.1	1159.1	1245.0	1281.1	1178.0	1122.3	1109.3	1107.5
40°	3921.0	2967.6	1046.5	1001.4	1153.1	1251.5	1235.5	1099.8	1003.8	932.1	921.4
42.5°	4005.8	2836.0	917.3	981.9	1157.3	1282.9	1172.1	1024.5	865.1	818.9	813.0
45°	4101.2	2698.0	847.4	968.3	1171.5	1307.2	1159.1	924.4	800.6	765.6	762.6
47.5°	4193.6	2529.1	811.2	962.3	1191.1	1287.6	1104.0	893.6	769.7	751.4	753.2
50°	4299.7	2376.8	789.3	955.8	1208.2	1275.2	1041.7	877.6	757.9	780.4	804.1
52.5°	4389.1	2219.2	769.7	942.8	1214.8	1253.3	1025.7	880.6	757.9	801.2	823.7
55°	4495.2	2100.1	747.2	915.5	1202.3	1191.1	1014.5	898.3	766.8	739.5	741.9
57.5°	4632.1	2060.9	722.3	872.9	1160.8	1100.4	1009.1	915.5	761.4	744.3	750.2
60°	4821.7	2102.4	712.3	817.1	1096.2	1029.3	1009.7	906.6	724.1	694.5	695.1
62.5°	5002.4	2148.6	711.7	782.2	1016.8	965.9	996.1	877.6	705.2	688.0	694.5
65°	5061.7	2101.8	683.2	743.1	927.4	890.0	971.2	846.8	690.9	664.9	663.7
67.5°	4982.3	1956.7	625.8	679.7	824.9	801.7	938.6	810.0	668.4	647.1	643.5
70°	4746.5	1632.5	554.6	596.1	708.1	702.2	887.1	767.4	638.2	619.8	604.4
72.5°	4111.8	1163.2	467.5	496.0	576.6	595.5	816.0	711.7	595.5	555.8	532.1
75°	3377.0	861.0	384.0	389.9	437.9	489.5	718.2	646.5	545.2	477.6	459.2
77.5°	2068.1	526.8	305.8	308.1	314.1	390.5	591.4	573.6	481.2	398.2	385.2
80°	669.6	287.4	221.0	232.3	214.5	286.2	457.5	488.3	413.0	333.0	318.8
82.5°	254.8	167.7	149.3	157.0	148.7	192.0	333.6	391.1	338.4	273.8	222.8
85°	123.3	94.8	88.3	99.0	91.8	98.4	213.3	288.0	256.6	178.4	165.9
87.5°	43.8	42.1	33.8	45.6	39.1	35.0	65.2	145.2	169.5	122.7	109.6
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.

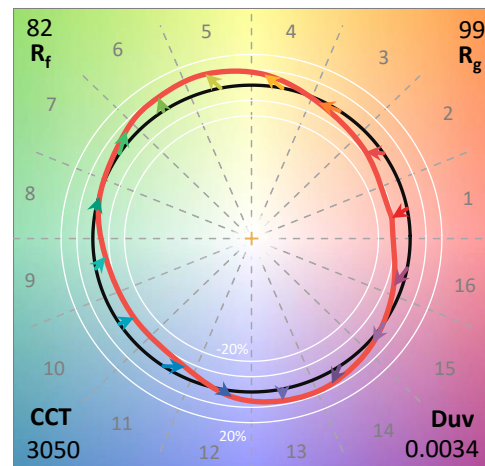
Test Information

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



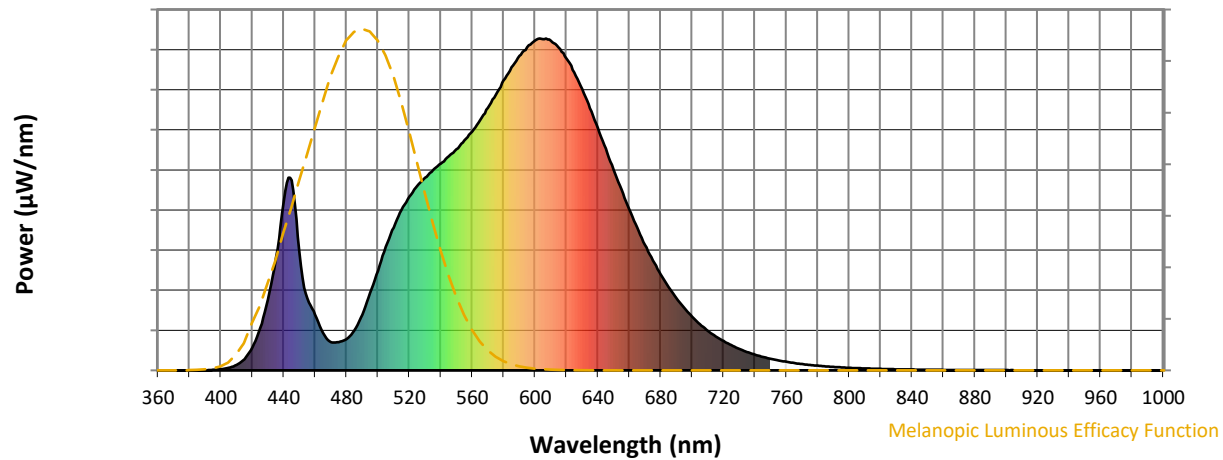
Scotopic Lumens: NR

S/P: 1.27

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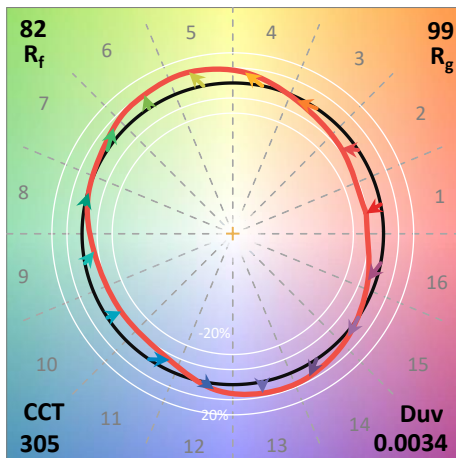
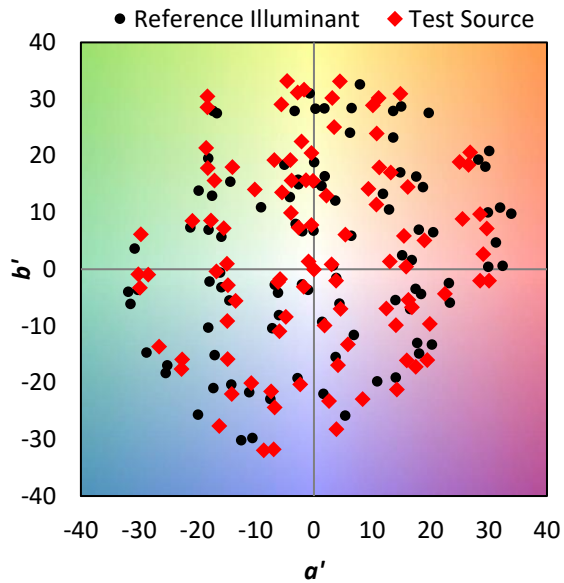
TM-30-18

Summary

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



Color Vector Graphics

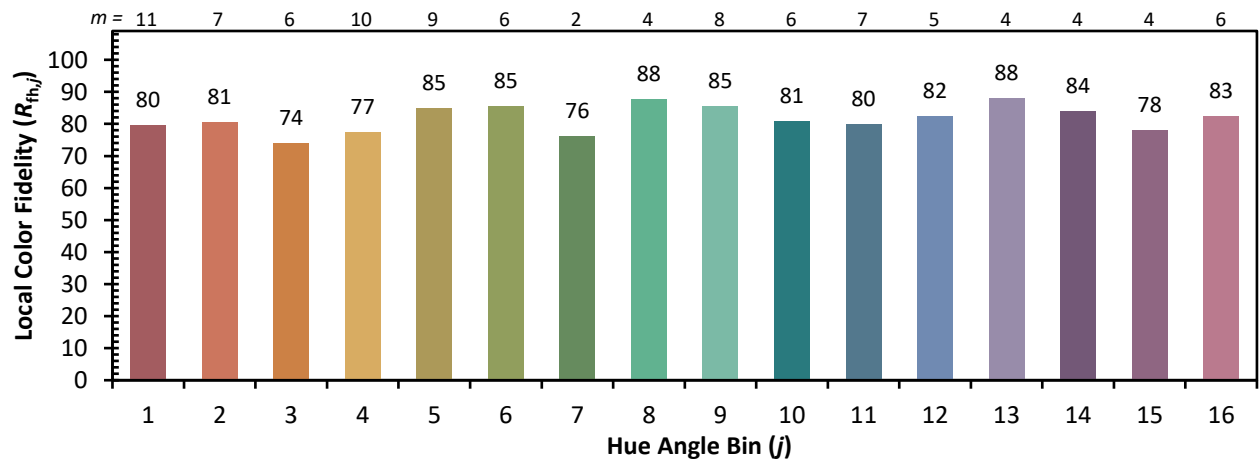
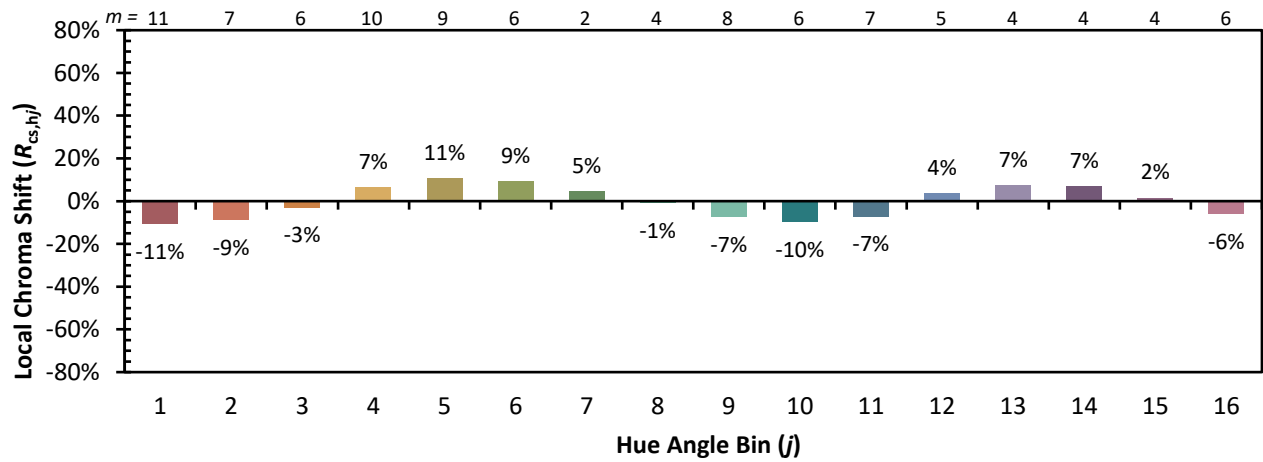


Individual Sample Fidelity Index ($R_{f,i}$)

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)